



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 5, 2026 – 05:49 AM EDT

PDB ID : 6ND6 / pdb_00006nd6
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with erythromycin and bound to mRNA and A-, P-, and E-site tRNAs at 2.85Å resolution
Authors : Svetlov, M.S.; Plessa, E.; Chen, C.-W.; Bougas, A.; Krokidis, M.G.; Dinos, G.P.; Polikanov, Y.S.
Deposited on : 2018-12-13
Resolution : 2.85 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

The following versions of software and data (see [references](#) ①) were used in the production of this report:

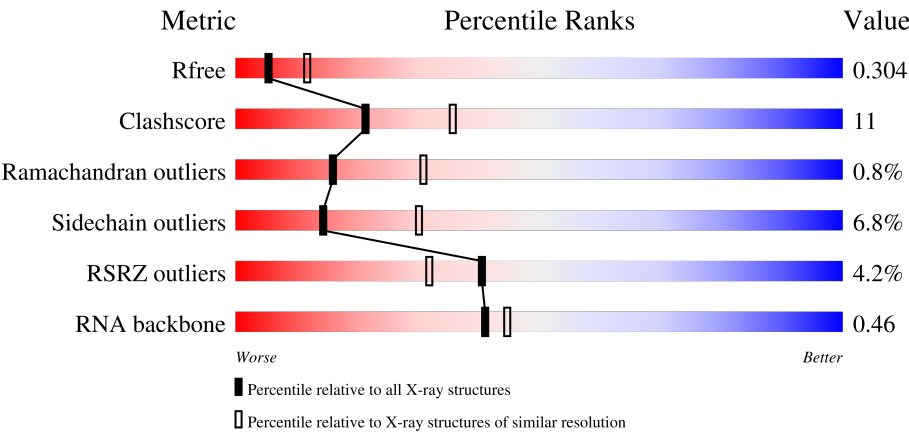
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance i

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

The reported resolution of this entry is 2.85 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.



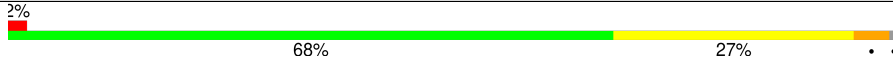
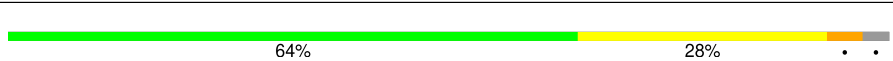
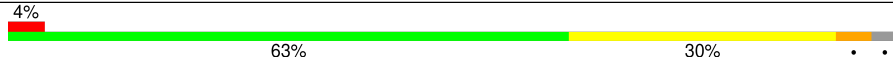
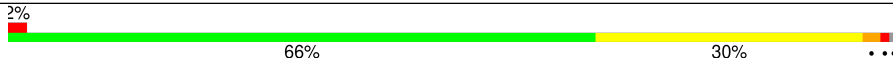
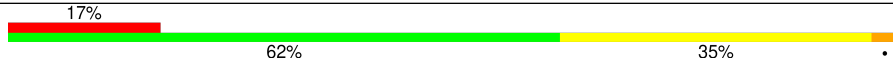
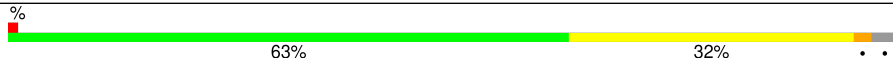
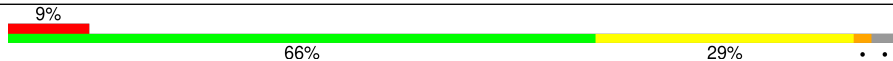
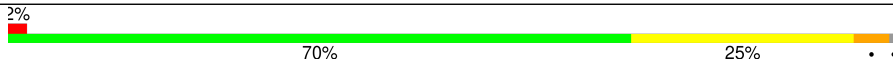
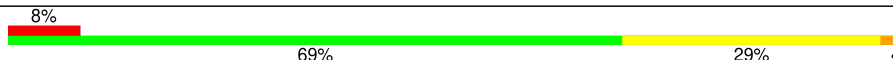
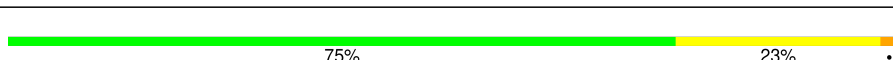
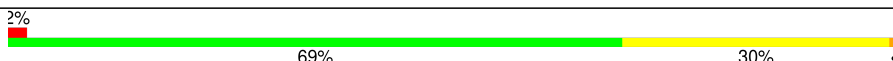
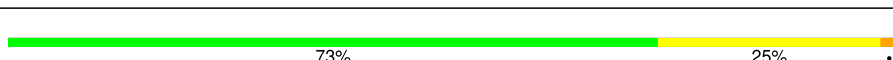
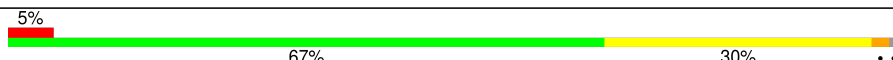
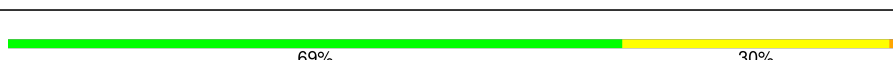
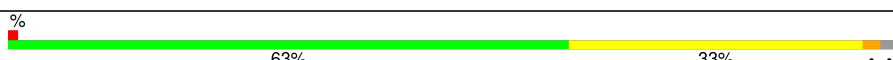
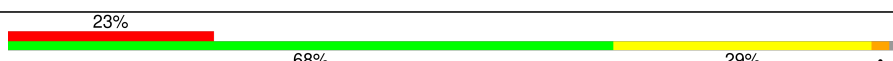
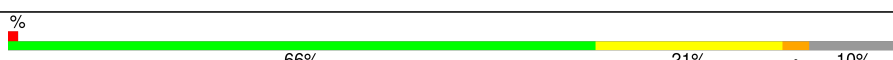
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1407 (2.88-2.84)
Clashscore	190562	1446 (2.88-2.84)
Ramachandran outliers	187476	1406 (2.88-2.84)
Sidechain outliers	187428	1407 (2.88-2.84)
RSRZ outliers	180081	1408 (2.88-2.84)
RNA backbone	3983	1009 (3.06-2.66)

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

Mol	Chain	Length	Quality of chain
1	1A	2915	2% 54% 37% 7% .
1	2A	2915	% 48% 39% 9% .
2	1B	121	58% 38% . .
2	2B	121	4% 45% 46% 8% .

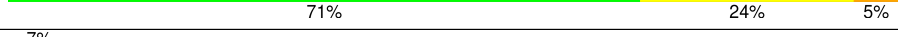
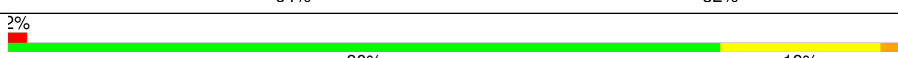
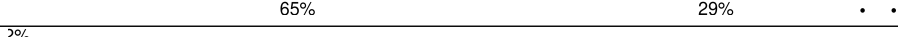
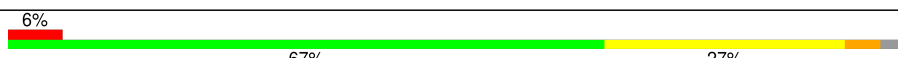
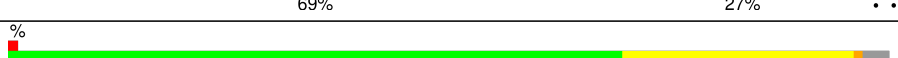
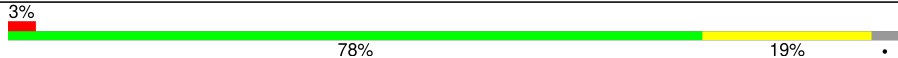
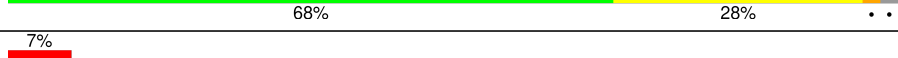
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Mol	Chain	Length	Quality of chain
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	
14	2S	112	
15	1T	146	

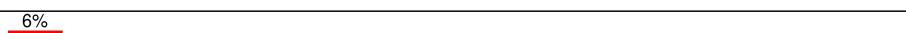
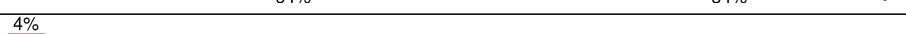
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Mol	Chain	Length	Quality of chain
15	2T	146	
16	1U	118	
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	
27	25	60	

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Mol	Chain	Length	Quality of chain
28	16	54	
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	
39	2h	138	
40	1i	128	

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Mol	Chain	Length	Quality of chain
40	2i	128	
41	1j	105	
41	2j	105	
42	1k	129	
42	2k	129	
43	1l	132	
43	2l	132	
44	1m	126	
44	2m	126	
45	1n	61	
45	2n	61	
46	1o	89	
46	2o	89	
47	1p	88	
47	2p	88	
48	1q	105	
48	2q	105	
49	1r	88	
49	2r	88	
50	1s	93	
50	2s	93	
51	1t	106	
51	2t	106	
52	1u	27	
52	2u	27	

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Mol	Chain	Length	Quality of chain
53	1v	27	
53	2v	27	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	

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
56	MG	2A	3733	-	-	-	X
59	SF4	1d	302	-	-	X	-

2 Entry composition

There are 60 unique types of molecules in this entry. The entry contains 300104 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 23S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2871	Total	C	N	O	P	0	0	0
			61852	27531	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60322	26848	11284	19390	2800			

- Molecule 2 is a RNA chain called 5S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1B	120	Total	C	N	O	P	0	0	0
			2577	1146	476	835	120			
2	2B	120	Total	C	N	O	P	0	0	0
			2575	1146	476	833	120			

- Molecule 3 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	1D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			
3	2D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

- Molecule 4 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	1E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
4	2E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			

- Molecule 5 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	1F	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
5	2F	203	Total	C	N	O	S	0	0	1
			1580	1007	297	274	2			

- Molecule 6 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1G	181	Total	C	N	O	S	0	0	0
			1423	913	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1428	913	258	253	4			

- Molecule 7 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	1H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	2H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

- Molecule 8 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	146	Total	C	N	O	S	0	0	0
			1097	701	191	204	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1064	681	186	196	1			

- Molecule 9 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	1N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			
9	2N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

- Molecule 10 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 11 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	1P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			
11	2P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			

- Molecule 12 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	1Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
12	2Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 13 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	1R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
13	2R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 14 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	1S	110	Total	C	N	O	0	0	0
			873	550	174	149			
14	2S	110	Total	C	N	O	0	0	0
			870	549	173	148			

- Molecule 15 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	1T	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			
15	2T	131	Total	C	N	O	S	0	0	0
			1083	675	224	183	1			

- Molecule 16 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	1U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			
16	2U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 17 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	1V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			
17	2V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			

- Molecule 18 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	1W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			
18	2W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			

- Molecule 19 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	1X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
19	2X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

- Molecule 20 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	1Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			
20	2Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			

- Molecule 21 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	154	Total	C	N	O	S	0	0	0
			1240	795	222	220	3			
21	2Z	160	Total	C	N	O	S	0	0	0
			1271	814	228	227	2			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			
22	20	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	11	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			
23	21	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	12	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
24	22	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	13	59	Total	C	N	O	0	0	0
			469	298	90	81			
25	23	59	Total	C	N	O	0	0	0
			464	296	90	78			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			532	339	97	91	5			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	15	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			
27	25	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	16	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
28	26	53	Total	C	N	O	S	0	0	0
			449	279	91	75	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	17	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
29	27	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	18	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
30	28	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 31 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	19	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
31	29	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 32 is a RNA chain called 16S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	1a	1500	Total	C	N	O	P	0	0	0
			32246	14358	5975	10413	1500			
32	2a	1503	Total	C	N	O	P	0	0	0
			32327	14396	5990	10438	1503			

- Molecule 33 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	1b	231	Total	C	N	O	S	0	0	0
			1846	1179	331	331	5			
33	2b	231	Total	C	N	O	S	0	0	0
			1825	1167	326	327	5			

- Molecule 34 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	1c	206	Total	C	N	O	S	0	0	0
			1548	973	301	273	1			
34	2c	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

- Molecule 35 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1d	208	Total	C	N	O	S	0	0	0
			1655	1038	326	284	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1674	1050	333	284	7			

- Molecule 36 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1e	148	Total	C	N	O	S	0	0	0
			1129	714	213	198	4			
36	2e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

- Molecule 37 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	1f	100	Total	C	N	O	S	0	0	0
			810	514	144	149	3			
37	2f	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

- Molecule 38 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	1g	155	Total	C	N	O	S	0	0	0
			1231	766	243	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			

- Molecule 39 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	1h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			
39	2h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			

- Molecule 40 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	1i	127	Total	C	N	O	0	0	0
			983	623	193	167			
40	2i	127	Total	C	N	O	0	0	0
			978	619	190	169			

- Molecule 41 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	1j	97	Total	C	N	O	0	0	0
			709	440	138	131			
41	2j	96	Total	C	N	O	0	0	0
			714	445	138	131			

- Molecule 42 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	1k	114	Total	C	N	O	S	0	0	0
			829	516	155	155	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	2k	114	Total	C	N	O	S	0	0	0
			833	519	156	155	3			

- Molecule 43 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	1l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			
43	2l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			

- Molecule 44 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1m	123	Total	C	N	O	S	0	0	0
			958	592	198	166	2			
44	2m	122	Total	C	N	O	S	0	0	0
			950	586	197	165	2			

- Molecule 45 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	1n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
45	2n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 46 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	1o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			
46	2o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			

- Molecule 47 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	1p	82	Total	C	N	O	S	0	0	0
			681	433	134	113	1			
47	2p	82	Total	C	N	O	S	0	0	0
			677	430	133	113	1			

- Molecule 48 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	1q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
48	2q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 49 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	1r	68	Total	C	N	O		0	0	0
			555	355	108	92				
49	2r	68	Total	C	N	O		0	0	0
			555	355	108	92				

- Molecule 50 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1s	83	Total	C	N	O	S	0	0	0
			652	417	120	113	2			
50	2s	83	Total	C	N	O	S	0	0	0
			646	412	119	113	2			

- Molecule 51 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	1t	96	Total	C	N	O	S	0	0	0
			728	446	156	124	2			
51	2t	96	Total	C	N	O	S	0	0	0
			727	446	155	124	2			

- Molecule 52 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	1u	23	Total	C	N	O	0	0	0
			199	122	48	29			
52	2u	23	Total	C	N	O	0	0	0
			199	122	48	29			

- Molecule 53 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			276	124	48	91	13			
53	2v	13	Total	C	N	O	P	0	0	0
			276	124	48	91	13			

- Molecule 54 is a RNA chain called A-site and E-site tRNAs.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	73	Total 1568	C 700	N 282	O 512	P 73	S 1	0	0	0
54	1y	74	Total 1591	C 710	N 287	O 519	P 74	S 1	0	0	0
54	2w	73	Total 1568	C 700	N 282	O 512	P 73	S 1	0	0	0
54	2y	73	Total 1568	C 700	N 282	O 512	P 73	S 1	0	0	0

- Molecule 55 is a RNA chain called P-site tRNA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
55	1x	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			
55	2x	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			

- Molecule 56 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1073	Total	Mg	0	0
			1073	1073		
56	1B	35	Total	Mg	0	0
			35	35		
56	1D	13	Total	Mg	0	0
			13	13		
56	1E	15	Total	Mg	0	0
			15	15		
56	1F	14	Total	Mg	0	0
			14	14		
56	1G	3	Total	Mg	0	0
			3	3		
56	1I	1	Total	Mg	0	0
			1	1		
56	1N	4	Total	Mg	0	0
			4	4		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1O	2	Total 2	Mg 2	0	0
56	1P	8	Total 8	Mg 8	0	0
56	1Q	8	Total 8	Mg 8	0	0
56	1R	2	Total 2	Mg 2	0	0
56	1S	2	Total 2	Mg 2	0	0
56	1T	2	Total 2	Mg 2	0	0
56	1U	10	Total 10	Mg 10	0	0
56	1V	8	Total 8	Mg 8	0	0
56	1W	8	Total 8	Mg 8	0	0
56	1X	5	Total 5	Mg 5	0	0
56	1Y	1	Total 1	Mg 1	0	0
56	1Z	3	Total 3	Mg 3	0	0
56	10	7	Total 7	Mg 7	0	0
56	11	1	Total 1	Mg 1	0	0
56	12	2	Total 2	Mg 2	0	0
56	13	6	Total 6	Mg 6	0	0
56	14	1	Total 1	Mg 1	0	0
56	15	7	Total 7	Mg 7	0	0
56	16	4	Total 4	Mg 4	0	0
56	17	5	Total 5	Mg 5	0	0
56	18	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	19	3	Total 3	Mg 3	0	0
56	1a	229	Total 229	Mg 229	0	0
56	1b	1	Total 1	Mg 1	0	0
56	1d	1	Total 1	Mg 1	0	0
56	1e	2	Total 2	Mg 2	0	0
56	1f	1	Total 1	Mg 1	0	0
56	1l	3	Total 3	Mg 3	0	0
56	1m	1	Total 1	Mg 1	0	0
56	1n	1	Total 1	Mg 1	0	0
56	1p	1	Total 1	Mg 1	0	0
56	1r	1	Total 1	Mg 1	0	0
56	1s	1	Total 1	Mg 1	0	0
56	1t	1	Total 1	Mg 1	0	0
56	1v	1	Total 1	Mg 1	0	0
56	1w	6	Total 6	Mg 6	0	0
56	1x	13	Total 13	Mg 13	0	0
56	1y	5	Total 5	Mg 5	0	0
56	2A	874	Total 874	Mg 874	0	0
56	2B	21	Total 21	Mg 21	0	0
56	2D	7	Total 7	Mg 7	0	0
56	2E	8	Total 8	Mg 8	0	0

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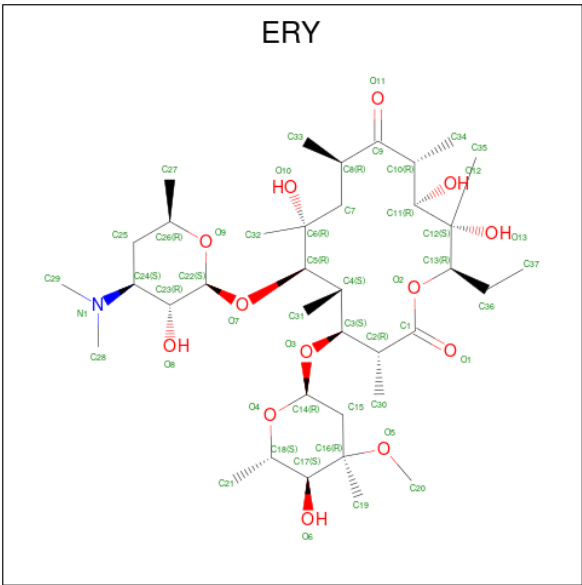
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2F	7	Total 7	Mg 7	0	0
56	2G	1	Total 1	Mg 1	0	0
56	2N	1	Total 1	Mg 1	0	0
56	2O	1	Total 1	Mg 1	0	0
56	2P	2	Total 2	Mg 2	0	0
56	2Q	5	Total 5	Mg 5	0	0
56	2R	3	Total 3	Mg 3	0	0
56	2T	3	Total 3	Mg 3	0	0
56	2U	3	Total 3	Mg 3	0	0
56	2V	1	Total 1	Mg 1	0	0
56	2W	1	Total 1	Mg 1	0	0
56	2X	2	Total 2	Mg 2	0	0
56	2Z	1	Total 1	Mg 1	0	0
56	20	2	Total 2	Mg 2	0	0
56	21	1	Total 1	Mg 1	0	0
56	22	1	Total 1	Mg 1	0	0
56	23	3	Total 3	Mg 3	0	0
56	25	3	Total 3	Mg 3	0	0
56	26	2	Total 2	Mg 2	0	0
56	27	2	Total 2	Mg 2	0	0
56	28	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2a	233	Total 233	Mg 233	0	0
56	2d	1	Total 1	Mg 1	0	0
56	2e	1	Total 1	Mg 1	0	0
56	2f	2	Total 2	Mg 2	0	0
56	2g	1	Total 1	Mg 1	0	0
56	2i	2	Total 2	Mg 2	0	0
56	2j	2	Total 2	Mg 2	0	0
56	2k	1	Total 1	Mg 1	0	0
56	2l	5	Total 5	Mg 5	0	0
56	2p	1	Total 1	Mg 1	0	0
56	2q	3	Total 3	Mg 3	0	0
56	2r	1	Total 1	Mg 1	0	0
56	2t	1	Total 1	Mg 1	0	0
56	2v	2	Total 2	Mg 2	0	0
56	2w	1	Total 1	Mg 1	0	0
56	2x	5	Total 5	Mg 5	0	0
56	2y	4	Total 4	Mg 4	0	0

- Molecule 57 is ERYTHROMYCIN A (CCD ID: ERY) (formula: $C_{37}H_{67}NO_{13}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	1A	1	Total	C	N	O	0	0
			51	37	1	13		
57	2A	1	Total	C	N	O	0	0
			51	37	1	13		

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

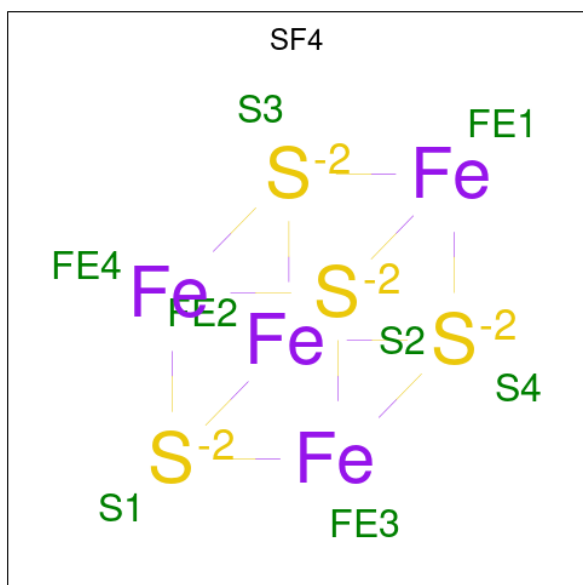
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1Y	1	Total	Zn	0	0
			1	1		
58	14	1	Total	Zn	0	0
			1	1		
58	15	1	Total	Zn	0	0
			1	1		
58	16	1	Total	Zn	0	0
			1	1		
58	19	1	Total	Zn	0	0
			1	1		
58	1n	1	Total	Zn	0	0
			1	1		
58	2Y	1	Total	Zn	0	0
			1	1		
58	24	1	Total	Zn	0	0
			1	1		
58	25	1	Total	Zn	0	0
			1	1		
58	26	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	29	1	Total	Zn	0	0
			1	1		
58	2n	1	Total	Zn	0	0
			1	1		

- Molecule 59 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
59	1d	1	Total	Fe	S	0	0
			8	4	4		
59	2d	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 60 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	3	Total	O	0	0
			3	3		
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	5	Total 5	O 5	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	4	Total 4	O 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	5	Total	O	0	0
			5	5		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	5	Total	O	0	0
			5	5		
60	1A	5	Total	O	0	0
			5	5		
60	1A	1	Total	O	0	0
			1	1		
60	1A	2	Total	O	0	0
			2	2		
60	1A	3	Total	O	0	0
			3	3		
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	1	Total	O	0	0
			1	1		
60	1A	4	Total	O	0	0
			4	4		
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	3	Total	O	0	0
			3	3		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	3	Total 3	O 3	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1A	2	Total O 2 2	0	0
60	1A	2	Total O 2 2	0	0
60	1A	2	Total O 2 2	0	0
60	1A	1	Total O 1 1	0	0
60	1A	2	Total O 2 2	0	0
60	1A	2	Total O 2 2	0	0
60	1A	6	Total O 6 6	0	0
60	1A	3	Total O 3 3	0	0
60	1A	2	Total O 2 2	0	0
60	1A	1	Total O 1 1	0	0
60	1A	5	Total O 5 5	0	0
60	1A	2	Total O 2 2	0	0
60	1A	3	Total O 3 3	0	0
60	1A	2	Total O 2 2	0	0
60	1A	6	Total O 6 6	0	0
60	1A	6	Total O 6 6	0	0
60	1A	2	Total O 2 2	0	0
60	1A	3	Total O 3 3	0	0
60	1A	3	Total O 3 3	0	0
60	1A	3	Total O 3 3	0	0
60	1A	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	2	Total	O	0	0
			2	2		
60	1A	1	Total	O	0	0
			1	1		
60	1A	2	Total	O	0	0
			2	2		
60	1A	6	Total	O	0	0
			6	6		
60	1A	3	Total	O	0	0
			3	3		
60	1A	3	Total	O	0	0
			3	3		
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	3	Total	O	0	0
			3	3		
60	1A	5	Total	O	0	0
			5	5		
60	1A	6	Total	O	0	0
			6	6		
60	1A	6	Total	O	0	0
			6	6		
60	1A	4	Total	O	0	0
			4	4		
60	1A	2	Total	O	0	0
			2	2		
60	1A	3	Total	O	0	0
			3	3		
60	1A	4	Total	O	0	0
			4	4		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	2	Total	O	0	0
			2	2		
60	1A	6	Total	O	0	0
			6	6		
60	1A	3	Total	O	0	0
			3	3		
60	1A	2	Total	O	0	0
			2	2		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		
60	1A	4	Total	O	0	0
			4	4		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	5	Total	O	0	0
			5	5		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	5	Total	O	0	0
			5	5		
60	1A	4	Total	O	0	0
			4	4		
60	1A	4	Total	O	0	0
			4	4		
60	1A	3	Total	O	0	0
			3	3		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	4	Total	O	0	0
			4	4		
60	1A	1	Total	O	0	0
			1	1		
60	1A	5	Total	O	0	0
			5	5		
60	1A	5	Total	O	0	0
			5	5		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		
60	1A	1	Total	O	0	0
			1	1		
60	1A	2	Total	O	0	0
			2	2		
60	1A	5	Total	O	0	0
			5	5		
60	1A	6	Total	O	0	0
			6	6		
60	1A	4	Total	O	0	0
			4	4		
60	1A	3	Total	O	0	0
			3	3		
60	1A	3	Total	O	0	0
			3	3		
60	1A	3	Total	O	0	0
			3	3		
60	1A	5	Total	O	0	0
			5	5		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	6	Total	O	0	0
			6	6		
60	1A	2	Total	O	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	1	Total 1	O 1	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	2	Total	O	0	0
			2	2		
60	1A	3	Total	O	0	0
			3	3		
60	1A	1	Total	O	0	0
			1	1		
60	1A	1	Total	O	0	0
			1	1		
60	1A	1	Total	O	0	0
			1	1		
60	1A	4	Total	O	0	0
			4	4		
60	1A	1	Total	O	0	0
			1	1		
60	1A	1	Total	O	0	0
			1	1		
60	1A	3	Total	O	0	0
			3	3		
60	1A	3	Total	O	0	0
			3	3		
60	1A	2	Total	O	0	0
			2	2		
60	1A	3	Total	O	0	0
			3	3		
60	1A	3	Total	O	0	0
			3	3		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	2	Total	O	0	0
			2	2		
60	1A	5	Total	O	0	0
			5	5		
60	1A	1	Total	O	0	0
			1	1		
60	1A	2	Total	O	0	0
			2	2		
60	1A	3	Total	O	0	0
			3	3		
60	1A	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	3	Total 3	O 3	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	6	Total 6	O 6	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	3	Total 3	O 3	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1A	5	Total O 5 5	0	0
60	1A	5	Total O 5 5	0	0
60	1A	4	Total O 4 4	0	0
60	1A	2	Total O 2 2	0	0
60	1A	4	Total O 4 4	0	0
60	1A	3	Total O 3 3	0	0
60	1A	5	Total O 5 5	0	0
60	1A	3	Total O 3 3	0	0
60	1A	3	Total O 3 3	0	0
60	1A	2	Total O 2 2	0	0
60	1A	2	Total O 2 2	0	0
60	1A	4	Total O 4 4	0	0
60	1A	1	Total O 1 1	0	0
60	1A	2	Total O 2 2	0	0
60	1A	6	Total O 6 6	0	0
60	1A	2	Total O 2 2	0	0
60	1A	5	Total O 5 5	0	0
60	1A	6	Total O 6 6	0	0
60	1A	6	Total O 6 6	0	0
60	1A	3	Total O 3 3	0	0
60	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	3	Total 3	O 3	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1A	6	Total O 6 6	0	0
60	1A	2	Total O 2 2	0	0
60	1A	6	Total O 6 6	0	0
60	1A	4	Total O 4 4	0	0
60	1A	4	Total O 4 4	0	0
60	1A	3	Total O 3 3	0	0
60	1A	6	Total O 6 6	0	0
60	1A	3	Total O 3 3	0	0
60	1A	5	Total O 5 5	0	0
60	1A	4	Total O 4 4	0	0
60	1A	6	Total O 6 6	0	0
60	1A	5	Total O 5 5	0	0
60	1A	2	Total O 2 2	0	0
60	1A	1	Total O 1 1	0	0
60	1A	2	Total O 2 2	0	0
60	1A	3	Total O 3 3	0	0
60	1A	6	Total O 6 6	0	0
60	1A	4	Total O 4 4	0	0
60	1A	3	Total O 3 3	0	0
60	1A	4	Total O 4 4	0	0
60	1A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	3	Total 3	O 3	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	2	Total 2	O 2	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	3	Total 3	O 3	0	0
60	1A	5	Total 5	O 5	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	4	Total 4	O 4	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	6	Total 6	O 6	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1A	2	Total 2	O 2	0	0
60	1A	1	Total 1	O 1	0	0
60	1A	6	Total 6	O 6	0	0
60	1A	384	Total 384	O 384	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	5	Total 5	O 5	0	0
60	1B	3	Total 3	O 3	0	0
60	1B	3	Total 3	O 3	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	2	Total 2	O 2	0	0
60	1B	2	Total 2	O 2	0	0
60	1B	2	Total 2	O 2	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	4	Total 4	O 4	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1B	2	Total 2	O 2	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	2	Total 2	O 2	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	5	Total 5	O 5	0	0
60	1B	1	Total 1	O 1	0	0
60	1B	15	Total 15	O 15	0	0
60	1D	4	Total 4	O 4	0	0
60	1D	1	Total 1	O 1	0	0
60	1D	1	Total 1	O 1	0	0
60	1D	10	Total 10	O 10	0	0
60	1E	2	Total 2	O 2	0	0
60	1E	5	Total 5	O 5	0	0
60	1E	1	Total 1	O 1	0	0
60	1E	5	Total 5	O 5	0	0
60	1E	8	Total 8	O 8	0	0
60	1F	1	Total 1	O 1	0	0
60	1F	6	Total 6	O 6	0	0
60	1G	2	Total 2	O 2	0	0
60	1G	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1H	1	Total 1	O 1	0	0
60	1I	2	Total 2	O 2	0	0
60	1N	5	Total 5	O 5	0	0
60	1O	1	Total 1	O 1	0	0
60	1O	1	Total 1	O 1	0	0
60	1O	5	Total 5	O 5	0	0
60	1P	4	Total 4	O 4	0	0
60	1P	1	Total 1	O 1	0	0
60	1P	2	Total 2	O 2	0	0
60	1P	4	Total 4	O 4	0	0
60	1Q	4	Total 4	O 4	0	0
60	1Q	1	Total 1	O 1	0	0
60	1Q	5	Total 5	O 5	0	0
60	1R	1	Total 1	O 1	0	0
60	1R	7	Total 7	O 7	0	0
60	1S	1	Total 1	O 1	0	0
60	1S	4	Total 4	O 4	0	0
60	1T	1	Total 1	O 1	0	0
60	1T	1	Total 1	O 1	0	0
60	1U	6	Total 6	O 6	0	0
60	1V	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1V	9	Total 9	O 9	0	0
60	1W	8	Total 8	O 8	0	0
60	1X	2	Total 2	O 2	0	0
60	1X	4	Total 4	O 4	0	0
60	1X	2	Total 2	O 2	0	0
60	1Y	4	Total 4	O 4	0	0
60	1Z	1	Total 1	O 1	0	0
60	10	3	Total 3	O 3	0	0
60	10	2	Total 2	O 2	0	0
60	10	4	Total 4	O 4	0	0
60	11	1	Total 1	O 1	0	0
60	11	9	Total 9	O 9	0	0
60	12	3	Total 3	O 3	0	0
60	13	1	Total 1	O 1	0	0
60	13	1	Total 1	O 1	0	0
60	14	2	Total 2	O 2	0	0
60	15	3	Total 3	O 3	0	0
60	16	1	Total 1	O 1	0	0
60	16	2	Total 2	O 2	0	0
60	17	2	Total 2	O 2	0	0
60	17	7	Total 7	O 7	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	18	2	Total 2	O 2	0	0
60	18	3	Total 3	O 3	0	0
60	19	2	Total 2	O 2	0	0
60	1a	2	Total 2	O 2	0	0
60	1a	3	Total 3	O 3	0	0
60	1a	4	Total 4	O 4	0	0
60	1a	1	Total 1	O 1	0	0
60	1a	2	Total 2	O 2	0	0
60	1a	2	Total 2	O 2	0	0
60	1a	1	Total 1	O 1	0	0
60	1a	5	Total 5	O 5	0	0
60	1a	4	Total 4	O 4	0	0
60	1a	4	Total 4	O 4	0	0
60	1a	5	Total 5	O 5	0	0
60	1a	2	Total 2	O 2	0	0
60	1a	4	Total 4	O 4	0	0
60	1a	1	Total 1	O 1	0	0
60	1a	2	Total 2	O 2	0	0
60	1a	1	Total 1	O 1	0	0
60	1a	1	Total 1	O 1	0	0
60	1a	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1a	2	Total	O	0	0
			2	2		
60	1a	5	Total	O	0	0
			5	5		
60	1a	6	Total	O	0	0
			6	6		
60	1a	1	Total	O	0	0
			1	1		
60	1a	3	Total	O	0	0
			3	3		
60	1a	3	Total	O	0	0
			3	3		
60	1a	5	Total	O	0	0
			5	5		
60	1a	5	Total	O	0	0
			5	5		
60	1a	4	Total	O	0	0
			4	4		
60	1a	1	Total	O	0	0
			1	1		
60	1a	1	Total	O	0	0
			1	1		
60	1a	5	Total	O	0	0
			5	5		
60	1a	2	Total	O	0	0
			2	2		
60	1a	4	Total	O	0	0
			4	4		
60	1a	1	Total	O	0	0
			1	1		
60	1a	6	Total	O	0	0
			6	6		
60	1a	5	Total	O	0	0
			5	5		
60	1a	4	Total	O	0	0
			4	4		
60	1a	4	Total	O	0	0
			4	4		
60	1a	3	Total	O	0	0
			3	3		
60	1a	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1a	1	Total O 1 1	0	0
60	1a	1	Total O 1 1	0	0
60	1a	6	Total O 6 6	0	0
60	1a	3	Total O 3 3	0	0
60	1a	3	Total O 3 3	0	0
60	1a	1	Total O 1 1	0	0
60	1a	3	Total O 3 3	0	0
60	1a	4	Total O 4 4	0	0
60	1a	2	Total O 2 2	0	0
60	1a	4	Total O 4 4	0	0
60	1a	5	Total O 5 5	0	0
60	1a	5	Total O 5 5	0	0
60	1a	6	Total O 6 6	0	0
60	1a	4	Total O 4 4	0	0
60	1a	5	Total O 5 5	0	0
60	1a	4	Total O 4 4	0	0
60	1a	3	Total O 3 3	0	0
60	1a	3	Total O 3 3	0	0
60	1a	6	Total O 6 6	0	0
60	1a	3	Total O 3 3	0	0
60	1a	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1a	4	Total O 4 4	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	5	Total O 5 5	0	0
60	1a	4	Total O 4 4	0	0
60	1a	5	Total O 5 5	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	2	Total O 2 2	0	0
60	1a	4	Total O 4 4	0	0
60	1a	5	Total O 5 5	0	0
60	1a	6	Total O 6 6	0	0
60	1a	6	Total O 6 6	0	0
60	1a	3	Total O 3 3	0	0
60	1a	6	Total O 6 6	0	0
60	1a	5	Total O 5 5	0	0
60	1a	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1a	1	Total O 1 1	0	0
60	1a	1	Total O 1 1	0	0
60	1a	2	Total O 2 2	0	0
60	1a	1	Total O 1 1	0	0
60	1a	2	Total O 2 2	0	0
60	1a	2	Total O 2 2	0	0
60	1a	71	Total O 71 71	0	0
60	1b	1	Total O 1 1	0	0
60	1g	1	Total O 1 1	0	0
60	1k	1	Total O 1 1	0	0
60	1l	2	Total O 2 2	0	0
60	1q	4	Total O 4 4	0	0
60	1v	1	Total O 1 1	0	0
60	1w	2	Total O 2 2	0	0
60	1x	1	Total O 1 1	0	0
60	1x	1	Total O 1 1	0	0
60	1x	1	Total O 1 1	0	0
60	1x	2	Total O 2 2	0	0
60	1x	2	Total O 2 2	0	0
60	1x	1	Total O 1 1	0	0
60	1x	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1x	1	Total 1	O 1	0	0
60	1x	5	Total 5	O 5	0	0
60	1y	2	Total 2	O 2	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	5	Total	O	0	0
			5	5		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	4	Total	O	0	0
			4	4		
60	2A	5	Total	O	0	0
			5	5		
60	2A	2	Total	O	0	0
			2	2		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	3	Total	O	0	0
			3	3		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	3	Total	O	0	0
			3	3		
60	2A	1	Total	O	0	0
			1	1		
60	2A	4	Total	O	0	0
			4	4		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	3	Total	O	0	0
			3	3		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	1	Total	O	0	0
			1	1		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	5	Total	O	0	0
			5	5		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	5	Total	O	0	0
			5	5		
60	2A	3	Total	O	0	0
			3	3		
60	2A	2	Total	O	0	0
			2	2		
60	2A	3	Total	O	0	0
			3	3		
60	2A	4	Total	O	0	0
			4	4		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	5	Total	O	0	0
			5	5		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	4	Total	O	0	0
			4	4		
60	2A	2	Total	O	0	0
			2	2		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	5	Total	O	0	0
			5	5		
60	2A	3	Total	O	0	0
			3	3		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	2	Total O 2 2	0	0
60	2A	6	Total O 6 6	0	0
60	2A	1	Total O 1 1	0	0
60	2A	5	Total O 5 5	0	0
60	2A	1	Total O 1 1	0	0
60	2A	4	Total O 4 4	0	0
60	2A	2	Total O 2 2	0	0
60	2A	6	Total O 6 6	0	0
60	2A	6	Total O 6 6	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	2	Total O 2 2	0	0
60	2A	4	Total O 4 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	6	Total	O	0	0
			6	6		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	2	Total	O	0	0
			2	2		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	5	Total	O	0	0
			5	5		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	3	Total	O	0	0
			3	3		
60	2A	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	3	Total	O	0	0
			3	3		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	3	Total	O	0	0
			3	3		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	2	Total	O	0	0
			2	2		
60	2A	5	Total	O	0	0
			5	5		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	4	Total	O	0	0
			4	4		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	5	Total O 5 5	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	3	Total O 3 3	0	0
60	2A	3	Total O 3 3	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	3	Total O 3 3	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	4	Total 4	O 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	1	Total 1	O 1	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	6	Total 6	O 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	3	Total	O	0	0
			3	3		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	3	Total	O	0	0
			3	3		
60	2A	4	Total	O	0	0
			4	4		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	6	Total	O	0	0
			6	6		
60	2A	1	Total	O	0	0
			1	1		
60	2A	3	Total	O	0	0
			3	3		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	2	Total	O	0	0
			2	2		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
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60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	5	Total 5	O 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	4	Total 4	O 4	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	4	Total 4	O 4	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	1	Total 1	O 1	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	2	Total 2	O 2	0	0
60	2A	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	4	Total 4	O 4	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	3	Total 3	O 3	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	4	Total 4	O 4	0	0
60	2A	6	Total 6	O 6	0	0
60	2A	5	Total 5	O 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	6	Total	O	0	0
			6	6		
60	2A	4	Total	O	0	0
			4	4		
60	2A	4	Total	O	0	0
			4	4		
60	2A	6	Total	O	0	0
			6	6		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	6	Total	O	0	0
			6	6		
60	2A	6	Total	O	0	0
			6	6		
60	2A	6	Total	O	0	0
			6	6		
60	2A	4	Total	O	0	0
			4	4		
60	2A	6	Total	O	0	0
			6	6		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	3	Total	O	0	0
			3	3		
60	2A	5	Total	O	0	0
			5	5		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	4	Total	O	0	0
			4	4		
60	2A	6	Total	O	0	0
			6	6		
60	2A	6	Total	O	0	0
			6	6		
60	2A	6	Total	O	0	0
			6	6		
60	2A	6	Total	O	0	0
			6	6		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	5	Total	O	0	0
			5	5		
60	2A	6	Total	O	0	0
			6	6		
60	2A	5	Total	O	0	0
			5	5		
60	2A	3	Total	O	0	0
			3	3		
60	2A	6	Total	O	0	0
			6	6		
60	2A	6	Total	O	0	0
			6	6		
60	2A	4	Total	O	0	0
			4	4		
60	2A	2	Total	O	0	0
			2	2		
60	2A	1	Total	O	0	0
			1	1		
60	2A	1	Total	O	0	0
			1	1		
60	2A	4	Total	O	0	0
			4	4		
60	2A	2	Total	O	0	0
			2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	2A	3	Total O 3 3	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	2	Total O 2 2	0	0
60	2A	2	Total O 2 2	0	0
60	2A	2	Total O 2 2	0	0
60	2A	1	Total O 1 1	0	0
60	2A	6	Total O 6 6	0	0
60	2A	214	Total O 214 214	0	0
60	2B	2	Total O 2 2	0	0
60	2B	3	Total O 3 3	0	0
60	2B	3	Total O 3 3	0	0
60	2B	1	Total O 1 1	0	0
60	2B	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2B	2	Total 2	O 2	0	0
60	2B	1	Total 1	O 1	0	0
60	2B	12	Total 12	O 12	0	0
60	2D	1	Total 1	O 1	0	0
60	2D	5	Total 5	O 5	0	0
60	2D	8	Total 8	O 8	0	0
60	2E	4	Total 4	O 4	0	0
60	2E	2	Total 2	O 2	0	0
60	2E	3	Total 3	O 3	0	0
60	2F	8	Total 8	O 8	0	0
60	2I	4	Total 4	O 4	0	0
60	2N	1	Total 1	O 1	0	0
60	2O	1	Total 1	O 1	0	0
60	2P	2	Total 2	O 2	0	0
60	2P	3	Total 3	O 3	0	0
60	2Q	1	Total 1	O 1	0	0
60	2Q	1	Total 1	O 1	0	0
60	2R	1	Total 1	O 1	0	0
60	2R	1	Total 1	O 1	0	0
60	2T	4	Total 4	O 4	0	0
60	2U	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2W	4	Total 4	O 4	0	0
60	2X	4	Total 4	O 4	0	0
60	2Z	1	Total 1	O 1	0	0
60	20	6	Total 6	O 6	0	0
60	20	2	Total 2	O 2	0	0
60	20	1	Total 1	O 1	0	0
60	21	8	Total 8	O 8	0	0
60	22	1	Total 1	O 1	0	0
60	22	1	Total 1	O 1	0	0
60	23	1	Total 1	O 1	0	0
60	25	4	Total 4	O 4	0	0
60	27	1	Total 1	O 1	0	0
60	27	2	Total 2	O 2	0	0
60	28	4	Total 4	O 4	0	0
60	29	1	Total 1	O 1	0	0
60	2a	6	Total 6	O 6	0	0
60	2a	4	Total 4	O 4	0	0
60	2a	5	Total 5	O 5	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	6	Total 6	O 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	2a	6	Total O 6 6	0	0
60	2a	3	Total O 3 3	0	0
60	2a	5	Total O 5 5	0	0
60	2a	3	Total O 3 3	0	0
60	2a	3	Total O 3 3	0	0
60	2a	5	Total O 5 5	0	0
60	2a	6	Total O 6 6	0	0
60	2a	2	Total O 2 2	0	0
60	2a	2	Total O 2 2	0	0
60	2a	2	Total O 2 2	0	0
60	2a	2	Total O 2 2	0	0
60	2a	5	Total O 5 5	0	0
60	2a	2	Total O 2 2	0	0
60	2a	5	Total O 5 5	0	0
60	2a	2	Total O 2 2	0	0
60	2a	6	Total O 6 6	0	0
60	2a	5	Total O 5 5	0	0
60	2a	4	Total O 4 4	0	0
60	2a	2	Total O 2 2	0	0
60	2a	4	Total O 4 4	0	0
60	2a	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2a	6	Total 6	O 6	0	0
60	2a	5	Total 5	O 5	0	0
60	2a	5	Total 5	O 5	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	4	Total 4	O 4	0	0
60	2a	4	Total 4	O 4	0	0
60	2a	4	Total 4	O 4	0	0
60	2a	5	Total 5	O 5	0	0
60	2a	4	Total 4	O 4	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	6	Total 6	O 6	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	6	Total 6	O 6	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	4	Total 4	O 4	0	0
60	2a	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2a	2	Total 2	O 2	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	5	Total 5	O 5	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	3	Total 3	O 3	0	0
60	2a	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2a	1	Total	O	0	0
			1	1		
60	2a	4	Total	O	0	0
			4	4		
60	2a	4	Total	O	0	0
			4	4		
60	2a	2	Total	O	0	0
			2	2		
60	2a	2	Total	O	0	0
			2	2		
60	2a	2	Total	O	0	0
			2	2		
60	2a	1	Total	O	0	0
			1	1		
60	2a	1	Total	O	0	0
			1	1		
60	2a	1	Total	O	0	0
			1	1		
60	2a	1	Total	O	0	0
			1	1		
60	2a	1	Total	O	0	0
			1	1		
60	2a	1	Total	O	0	0
			1	1		
60	2a	1	Total	O	0	0
			1	1		
60	2a	2	Total	O	0	0
			2	2		
60	2a	2	Total	O	0	0
			2	2		
60	2a	2	Total	O	0	0
			2	2		
60	2a	2	Total	O	0	0
			2	2		
60	2a	1	Total	O	0	0
			1	1		
60	2a	2	Total	O	0	0
			2	2		
60	2a	2	Total	O	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	2a	1	Total 1	O 1	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	2	Total 2	O 2	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	1	Total 1	O 1	0	0
60	2a	39	Total 39	O 39	0	0
60	2d	1	Total 1	O 1	0	0
60	2g	1	Total 1	O 1	0	0
60	2g	1	Total 1	O 1	0	0
60	2h	1	Total 1	O 1	0	0
60	2i	1	Total 1	O 1	0	0
60	2i	1	Total 1	O 1	0	0
60	2i	1	Total 1	O 1	0	0
60	2j	2	Total 2	O 2	0	0
60	2j	1	Total 1	O 1	0	0
60	2j	1	Total 1	O 1	0	0
60	2l	1	Total 1	O 1	0	0
60	2l	3	Total 3	O 3	0	0

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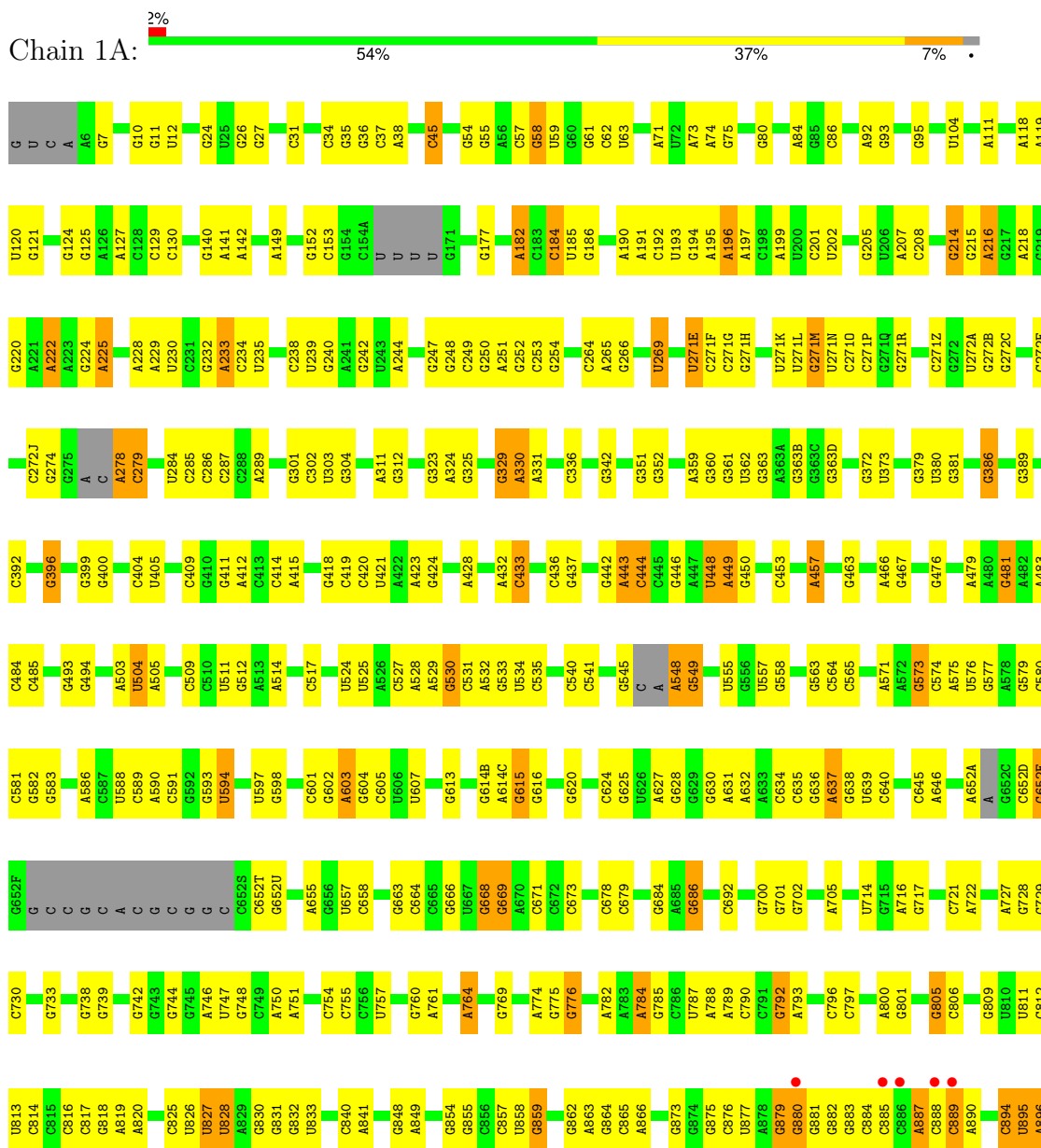
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
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60	2r	1	Total 1	O 1	0	0
60	2t	2	Total 2	O 2	0	0
60	2v	1	Total 1	O 1	0	0
60	2x	2	Total 2	O 2	0	0
60	2x	2	Total 2	O 2	0	0
60	2x	4	Total 4	O 4	0	0
60	2y	1	Total 1	O 1	0	0
60	2y	10	Total 10	O 10	0	0

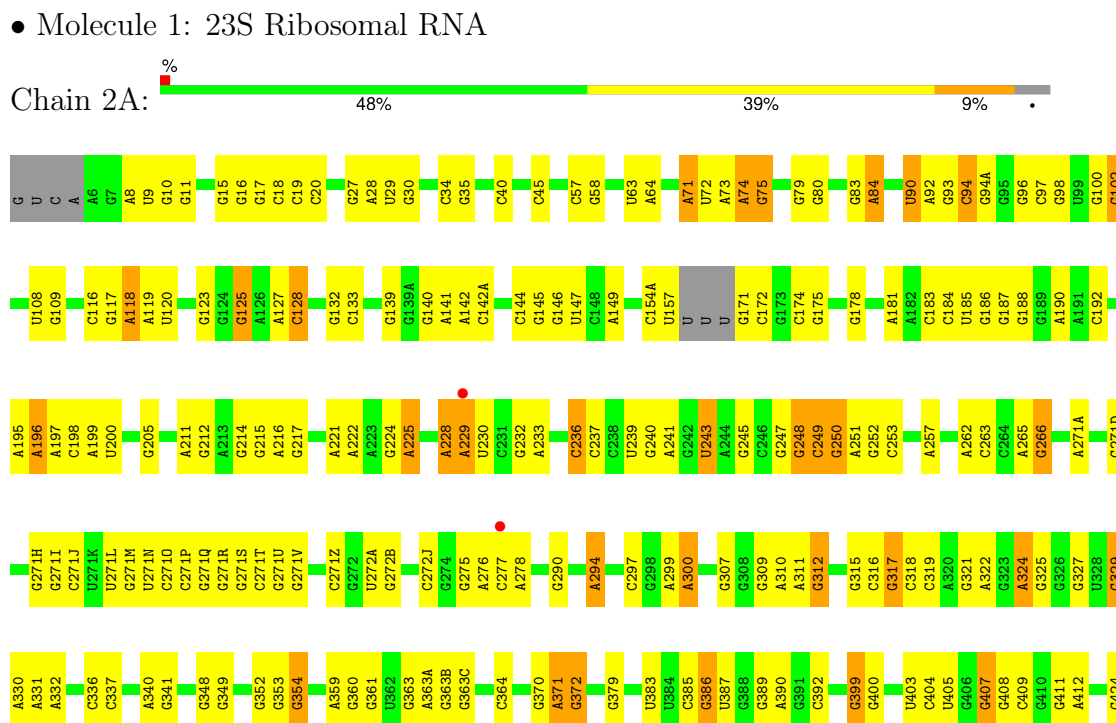
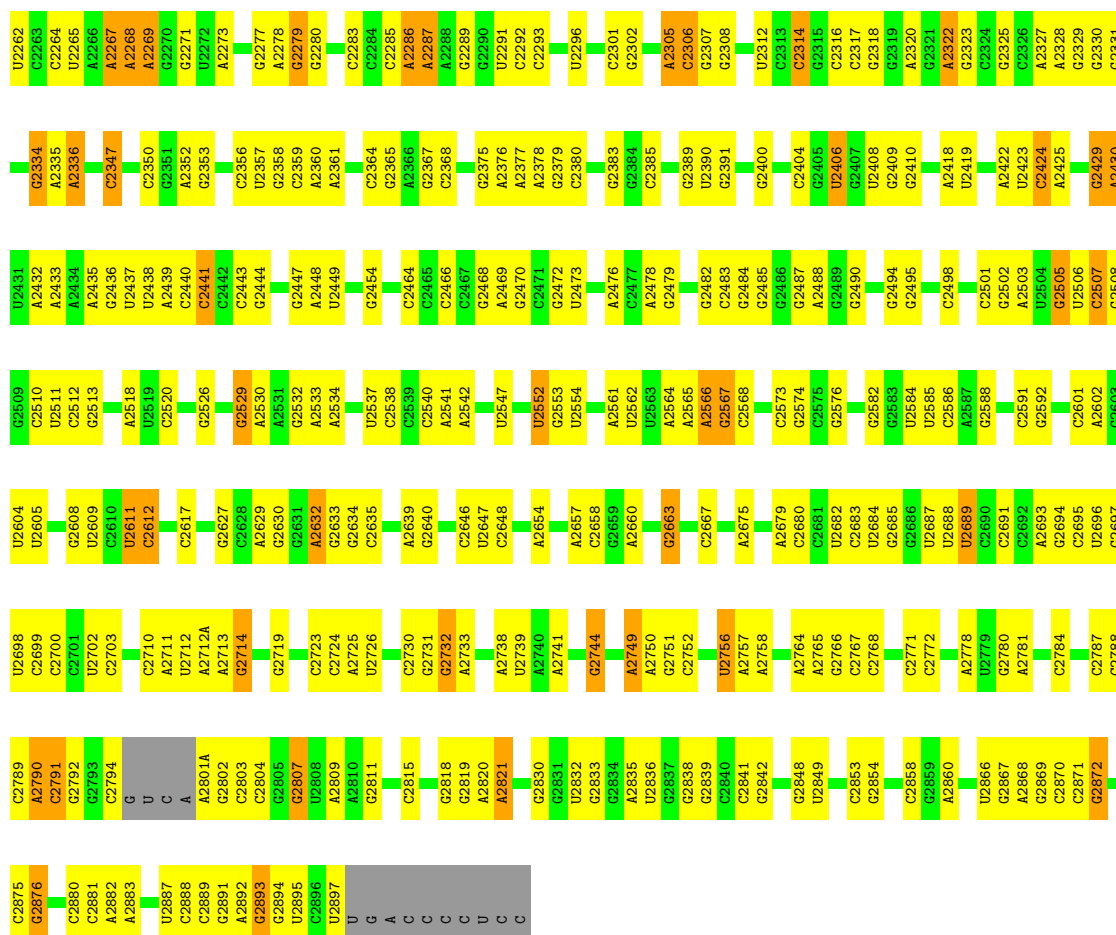
3 Residue-property plots

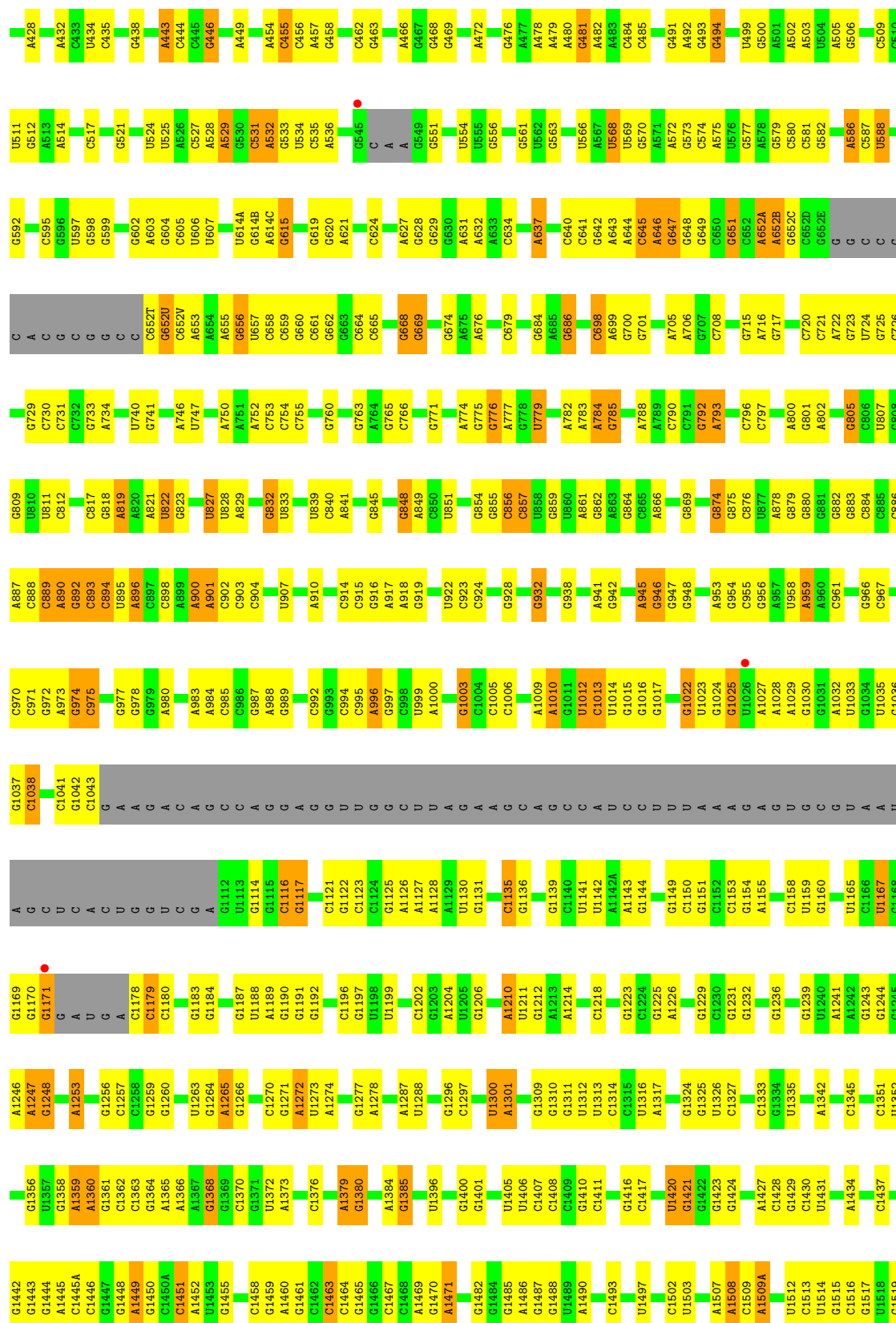
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: 23S Ribosomal RNA

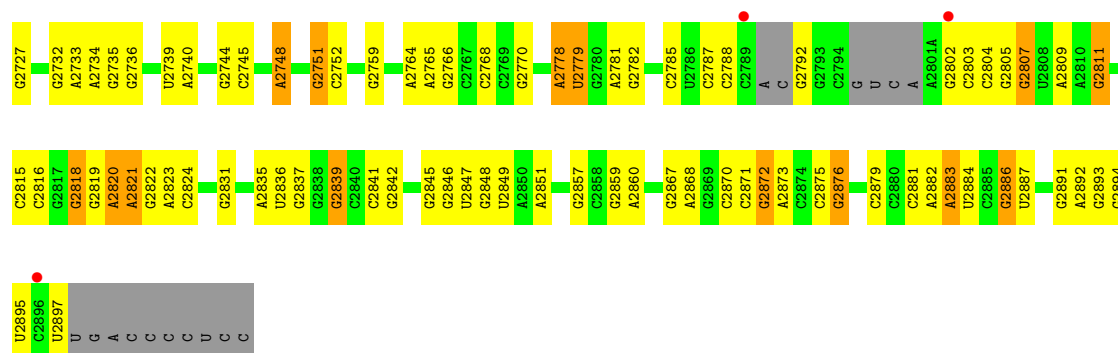






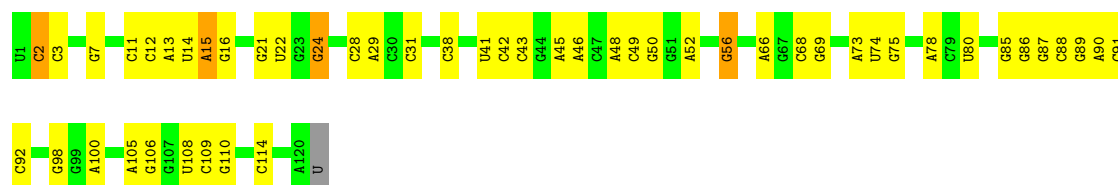






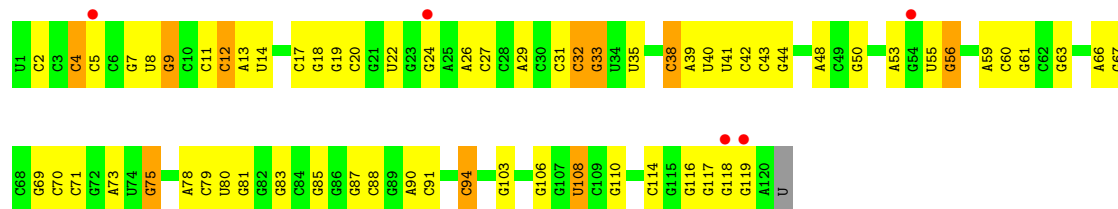
• Molecule 2: 5S Ribosomal RNA

Chain 1B: 58% 38%



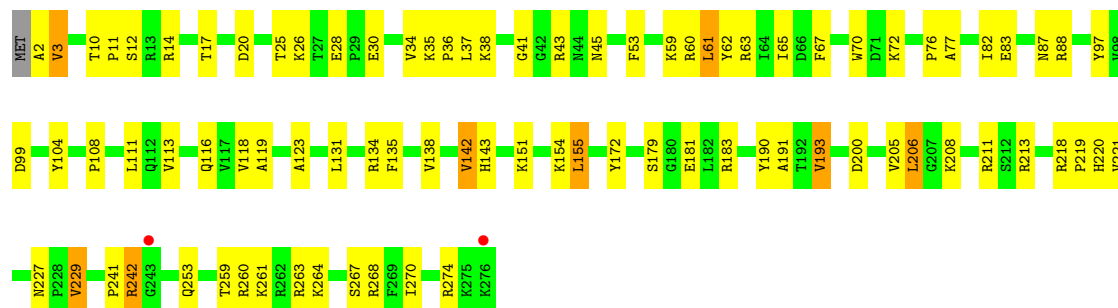
• Molecule 2: 5S Ribosomal RNA

Chain 2B: 4% 45% 46% 8%



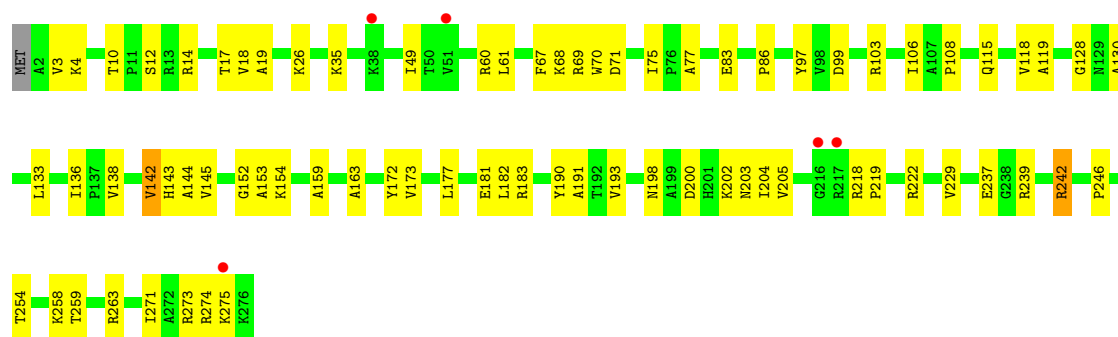
• Molecule 3: 50S ribosomal protein L2

Chain 1D: 68% 28%



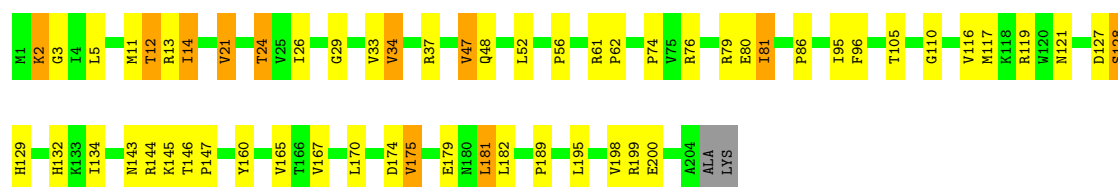
• Molecule 3: 50S ribosomal protein L2

Chain 2D: 2% 72% 26%



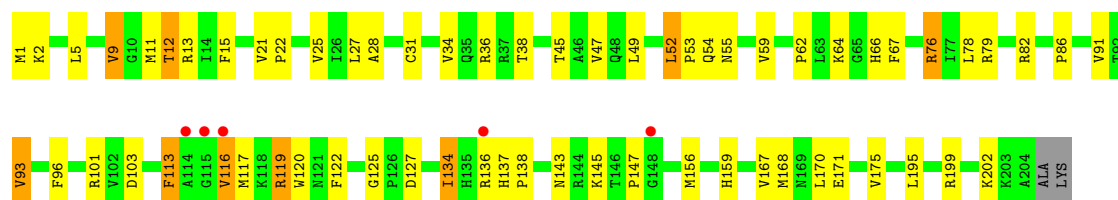
• Molecule 4: 50S ribosomal protein L3

Chain 1E: 71% 23% 5% .



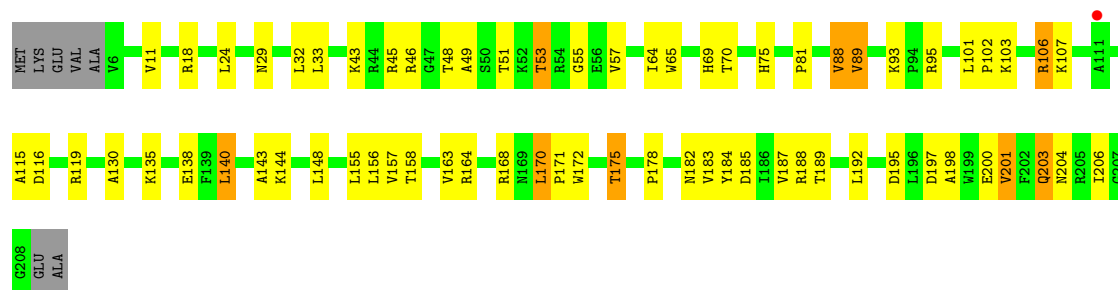
• Molecule 4: 50S ribosomal protein L3

Chain 2E: 68% 27% 2% . .



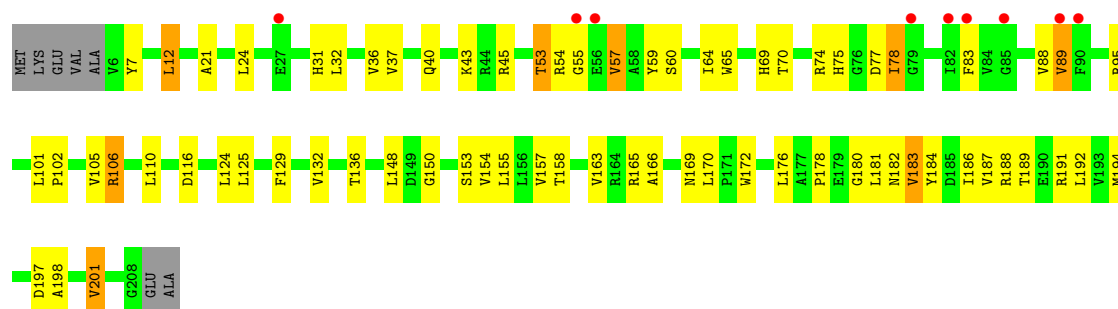
• Molecule 5: 50S ribosomal protein L4

Chain 1F: 64% 28% . .

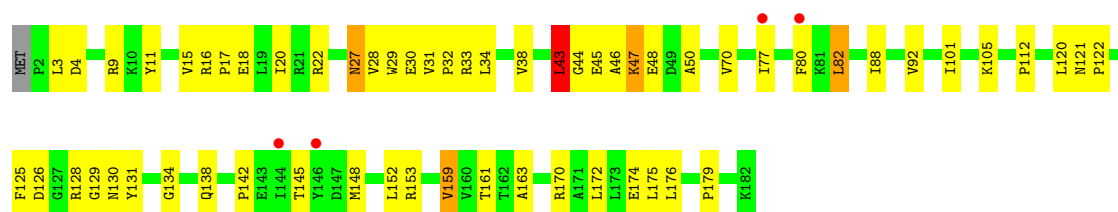


• Molecule 5: 50S ribosomal protein L4

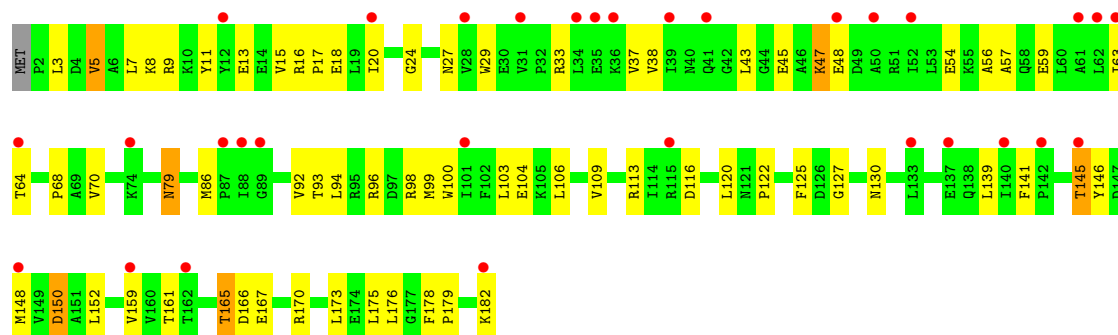
Chain 2F: 63% 30% 4% . .



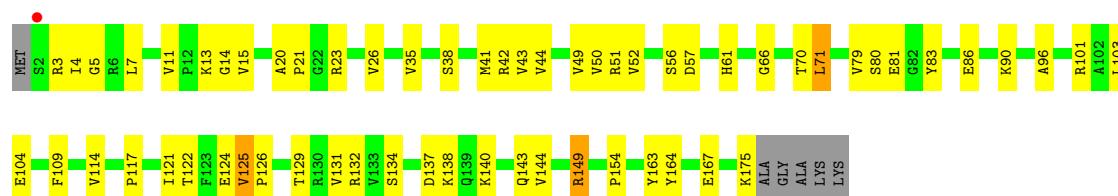
- Molecule 6: 50S ribosomal protein L5



- Molecule 6: 50S ribosomal protein L5

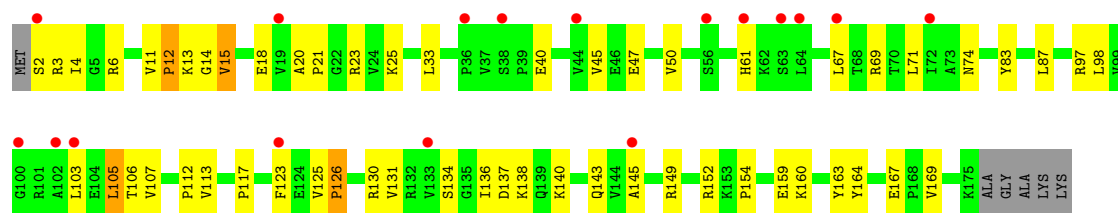


- Molecule 7: 50S ribosomal protein L6

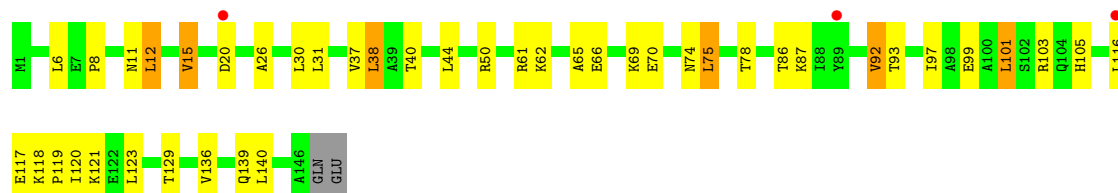


- Molecule 7: 50S ribosomal protein L6

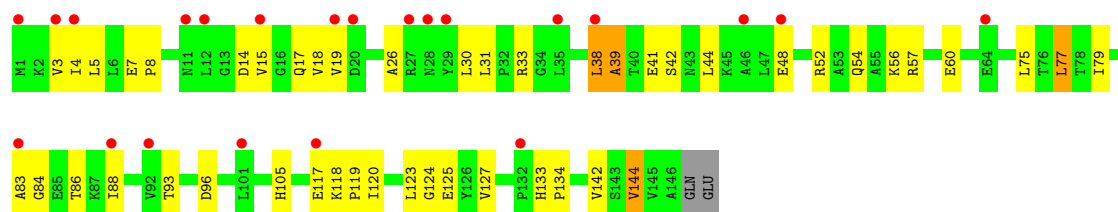




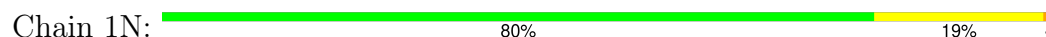
• Molecule 8: 50S ribosomal protein L9



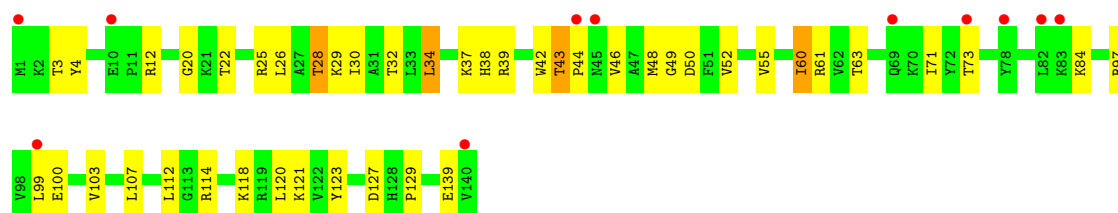
• Molecule 8: 50S ribosomal protein L9



• Molecule 9: 50S ribosomal protein L13

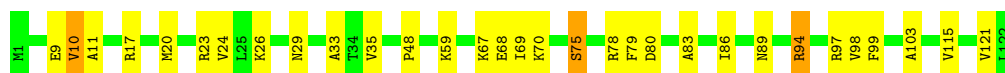


• Molecule 9: 50S ribosomal protein L13

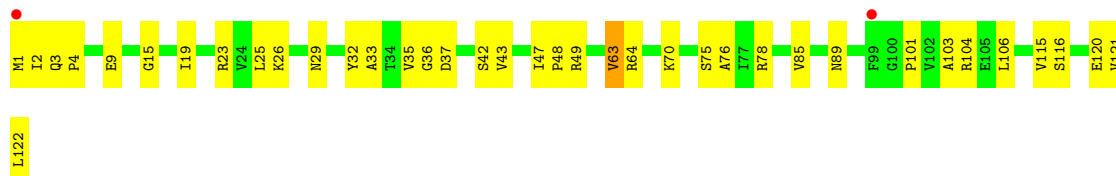


• Molecule 10: 50S ribosomal protein L14

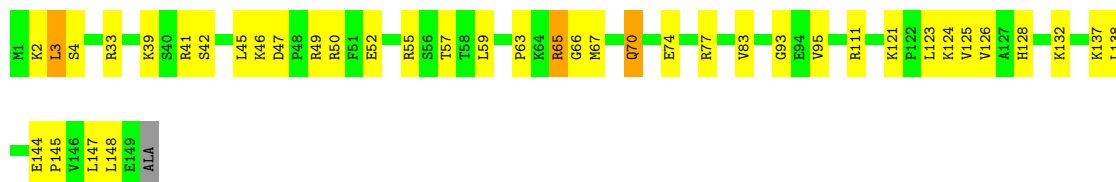




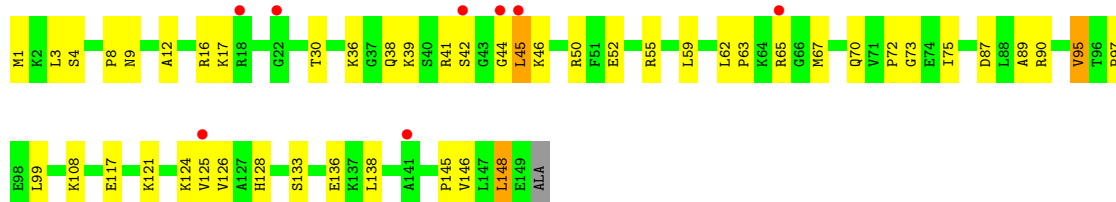
- Molecule 10: 50S ribosomal protein L14



- Molecule 11: 50S ribosomal protein L15



- Molecule 11: 50S ribosomal protein L15

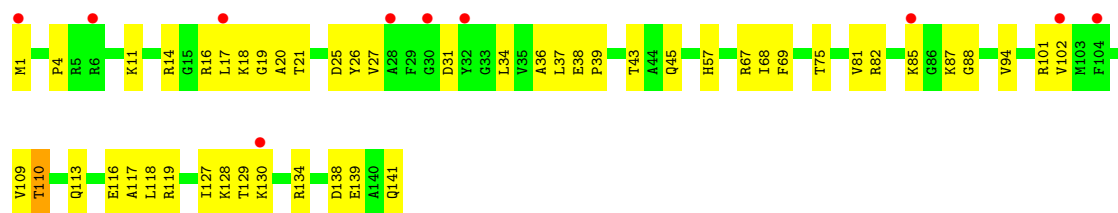


- Molecule 12: 50S ribosomal protein L16



- Molecule 12: 50S ribosomal protein L16





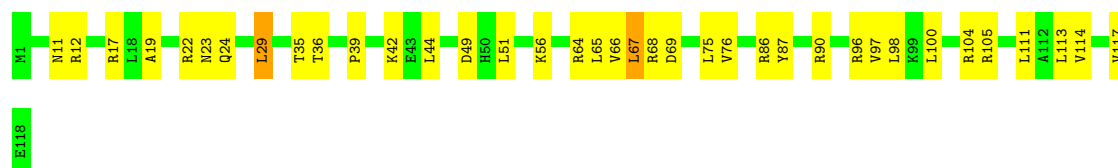
• Molecule 13: 50S ribosomal protein L17

Chain 1R: 77% 19%



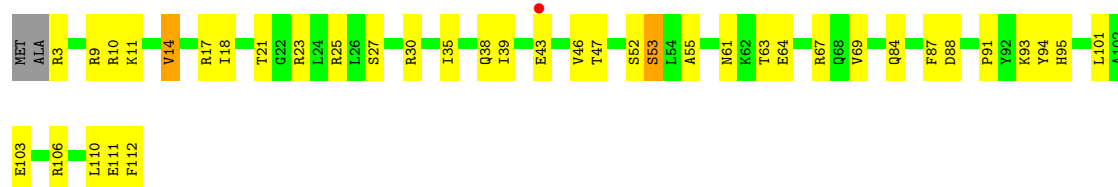
• Molecule 13: 50S ribosomal protein L17

Chain 2R: 69% 30%



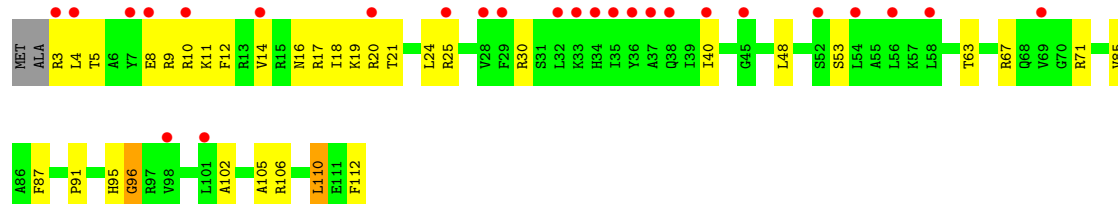
• Molecule 14: 50S ribosomal protein L18

Chain 1S: 63% 33%



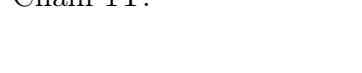
• Molecule 14: 50S ribosomal protein L18

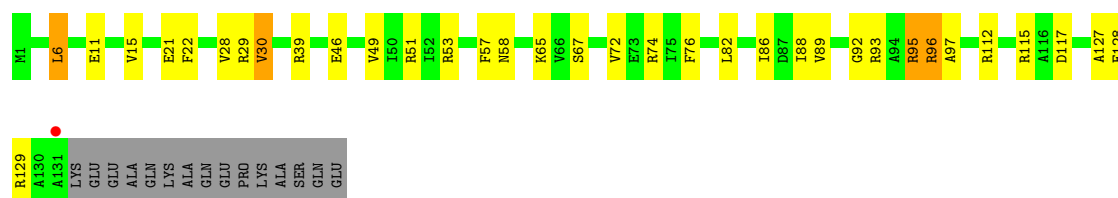
Chain 2S: 23% 68% 29%



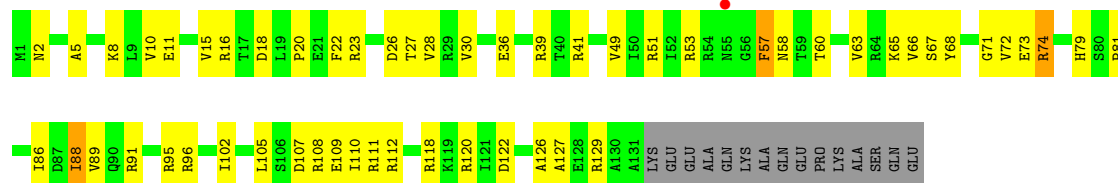
• Molecule 15: 50S ribosomal protein L19

Chain 1T: 66% 21% 10%

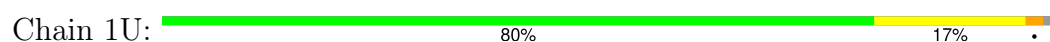




- Molecule 15: 50S ribosomal protein L19



- Molecule 16: 50S ribosomal protein L20



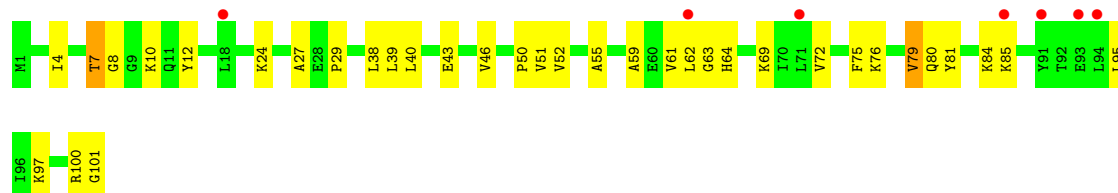
- Molecule 16: 50S ribosomal protein L20



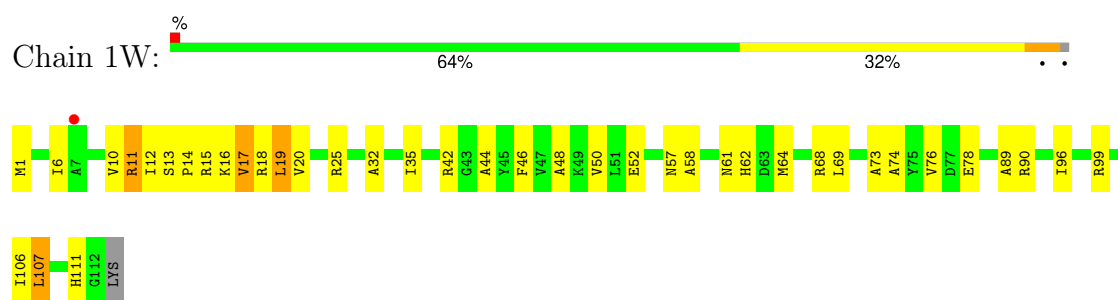
- Molecule 17: 50S ribosomal protein L21



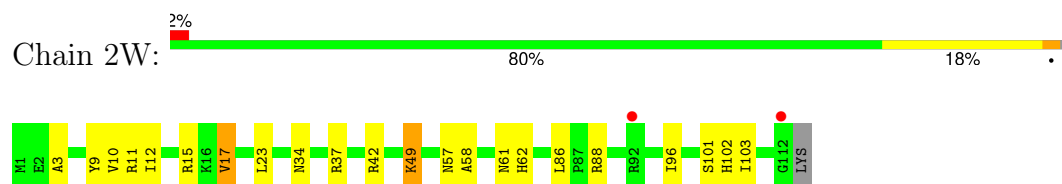
- Molecule 17: 50S ribosomal protein L21



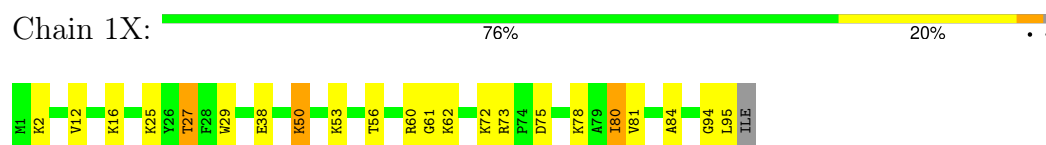
- Molecule 18: 50S ribosomal protein L22



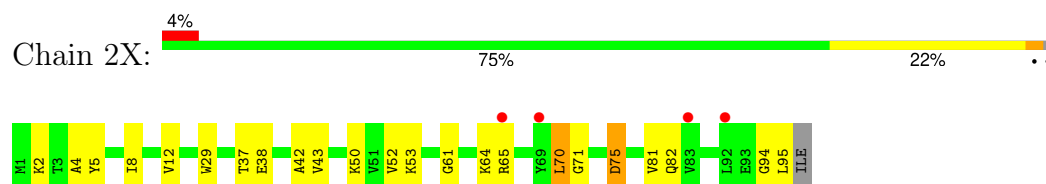
- Molecule 18: 50S ribosomal protein L22



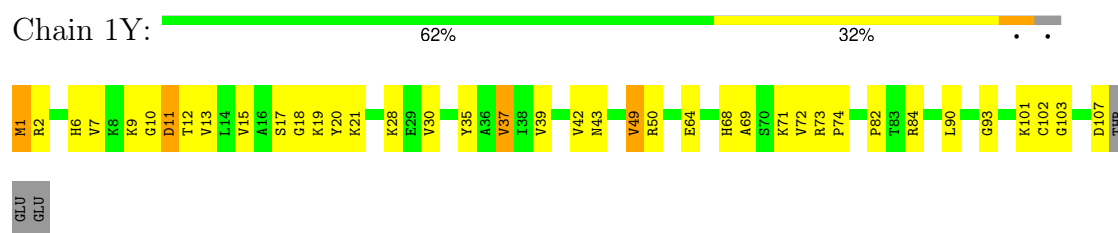
- Molecule 19: 50S ribosomal protein L23



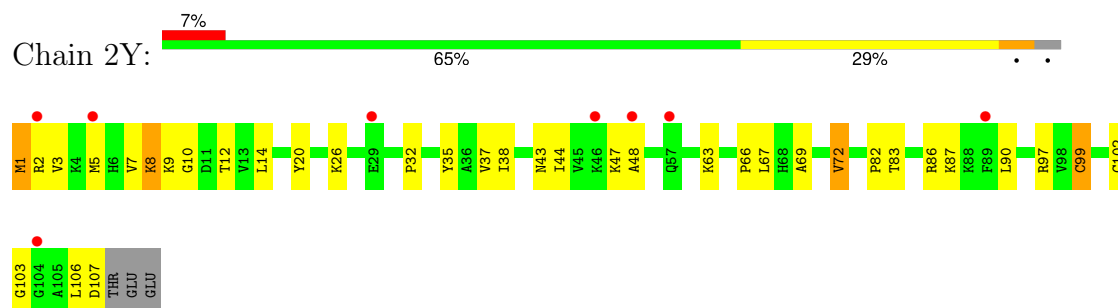
- Molecule 19: 50S ribosomal protein L23



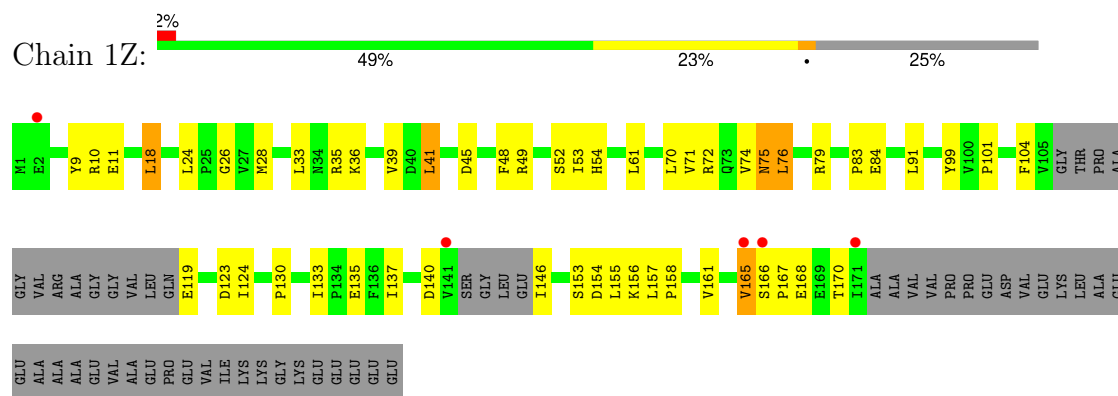
- Molecule 20: 50S ribosomal protein L24



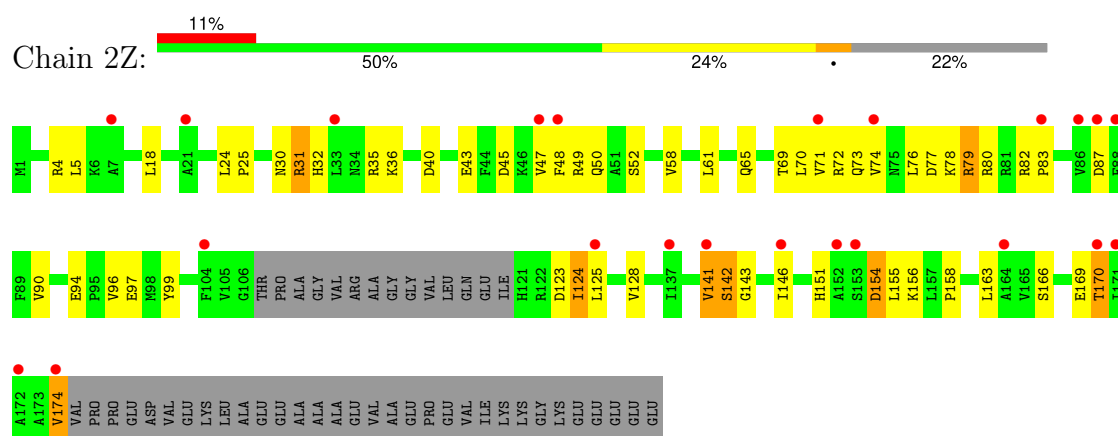
- Molecule 20: 50S ribosomal protein L24



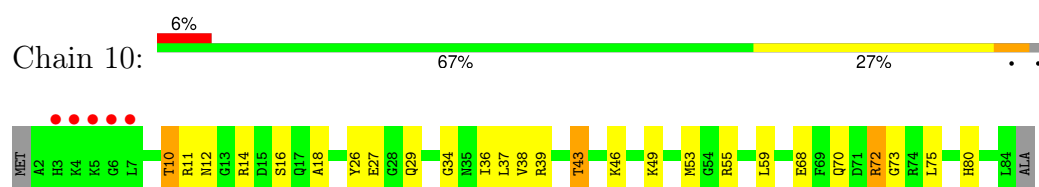
- Molecule 21: 50S ribosomal protein L25



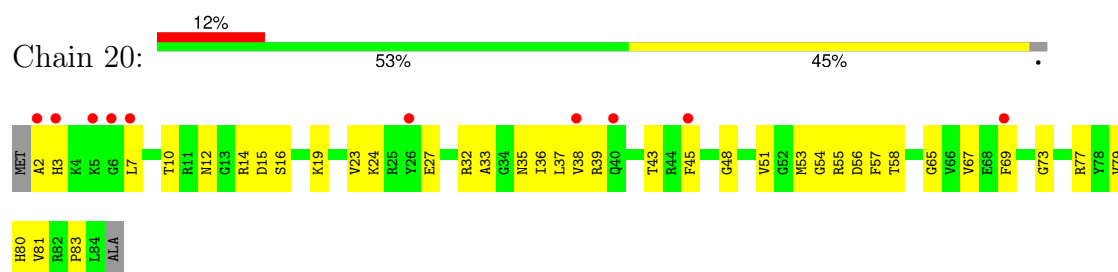
- Molecule 21: 50S ribosomal protein L25



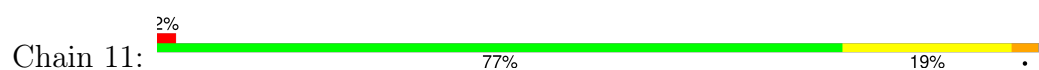
- Molecule 22: 50S ribosomal protein L27

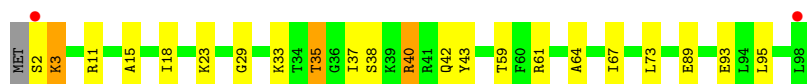


- Molecule 22: 50S ribosomal protein L27

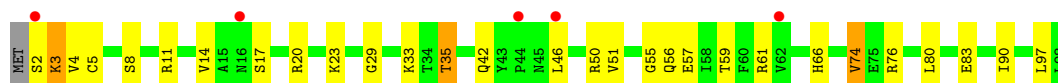


- Molecule 23: 50S ribosomal protein L28

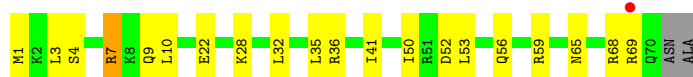




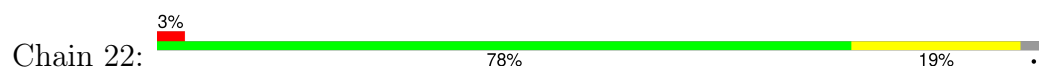
- Molecule 23: 50S ribosomal protein L28



- Molecule 24: 50S ribosomal protein L29



- Molecule 24: 50S ribosomal protein L29



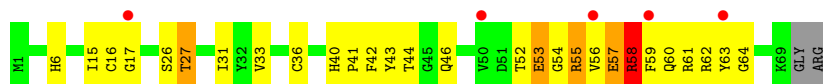
- Molecule 25: 50S ribosomal protein L30



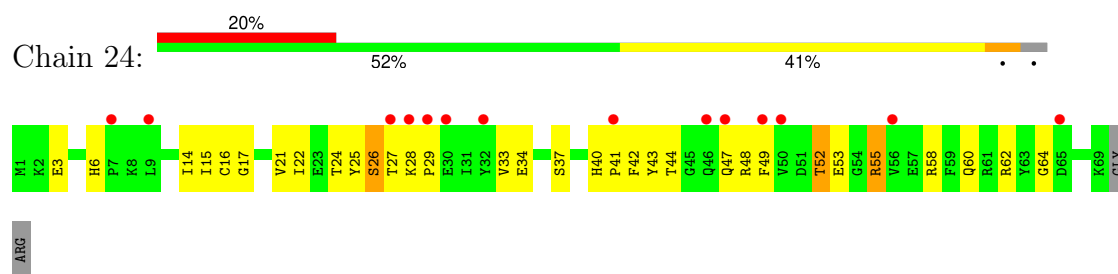
- Molecule 25: 50S ribosomal protein L30



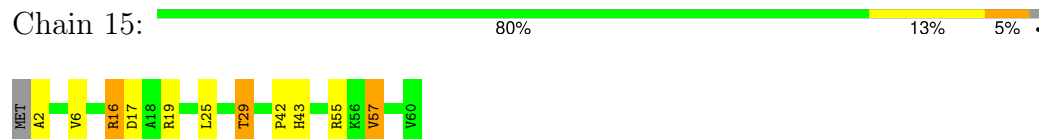
- Molecule 26: 50S ribosomal protein L31



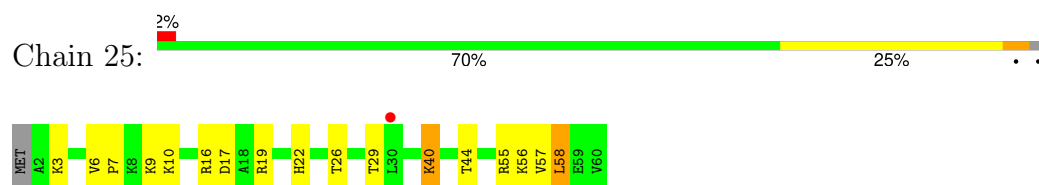
- Molecule 26: 50S ribosomal protein L31



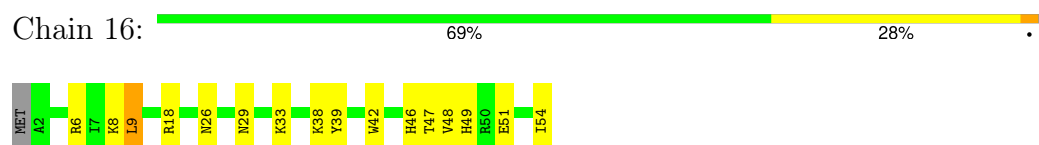
- Molecule 27: 50S ribosomal protein L32



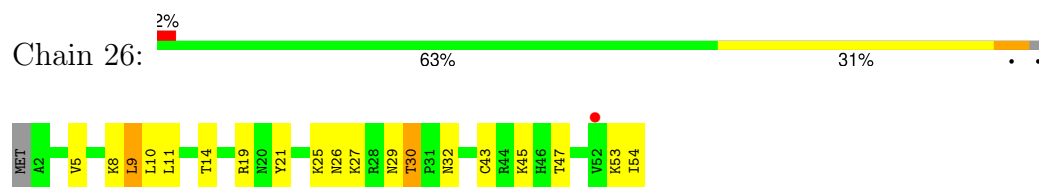
- Molecule 27: 50S ribosomal protein L32



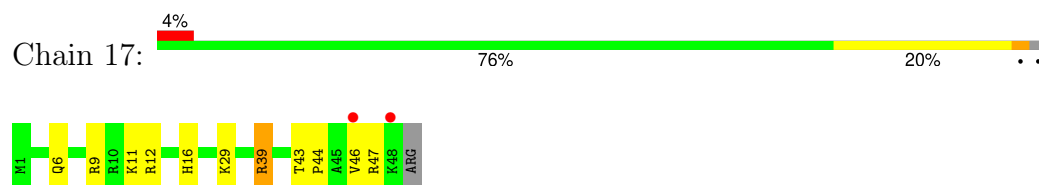
- Molecule 28: 50S ribosomal protein L33



- Molecule 28: 50S ribosomal protein L33



- Molecule 29: 50S ribosomal protein L34



- Molecule 29: 50S ribosomal protein L34

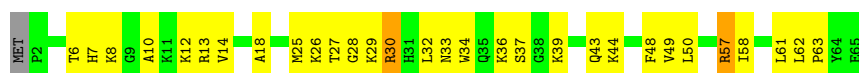




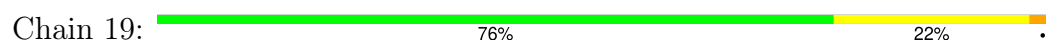
- Molecule 30: 50S ribosomal protein L35



- Molecule 30: 50S ribosomal protein L35



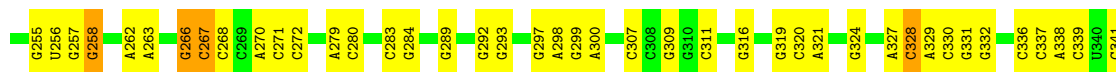
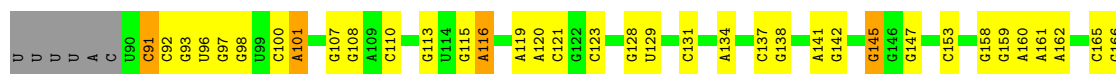
- Molecule 31: 50S ribosomal protein L36

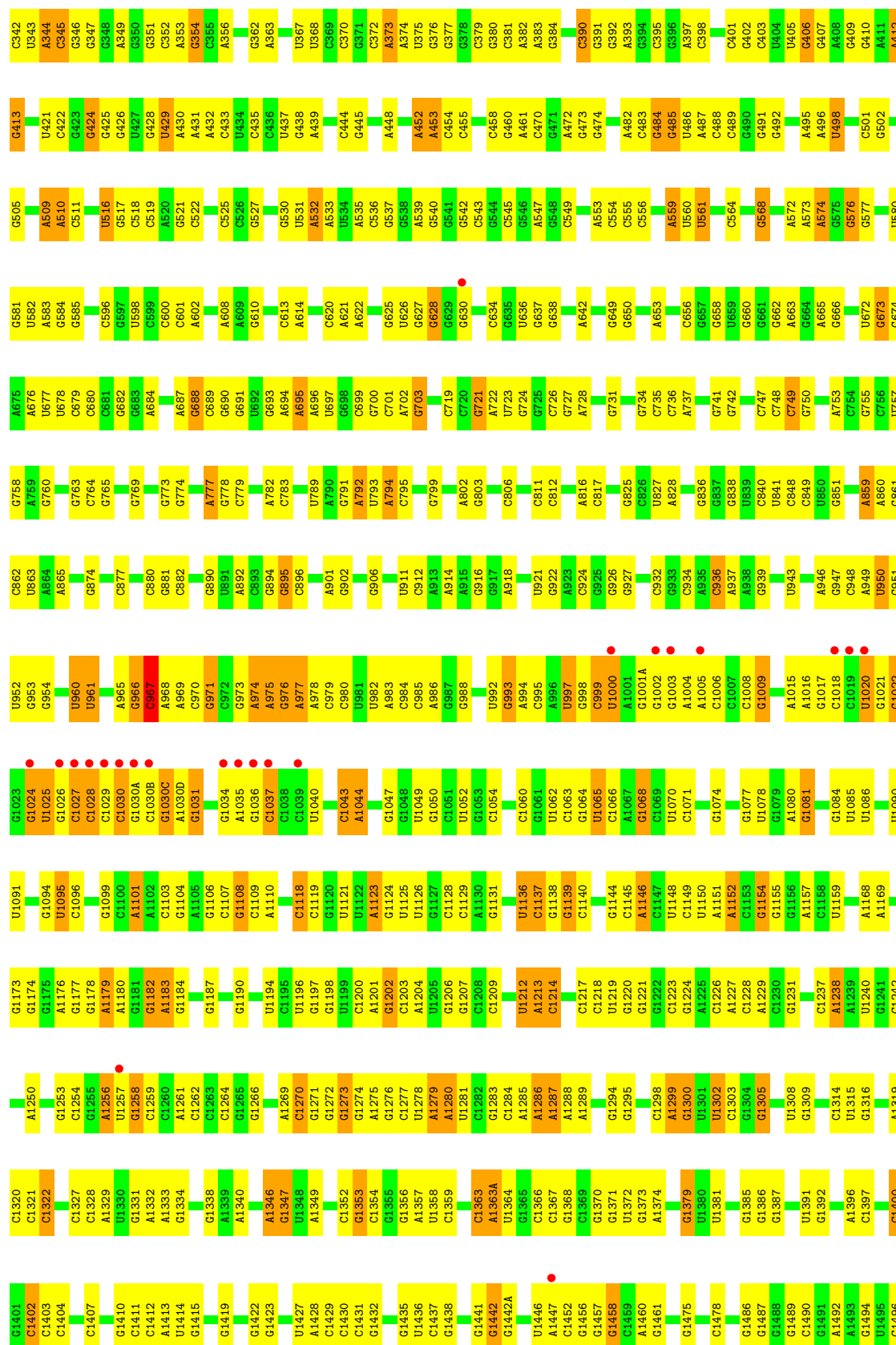


- Molecule 31: 50S ribosomal protein L36



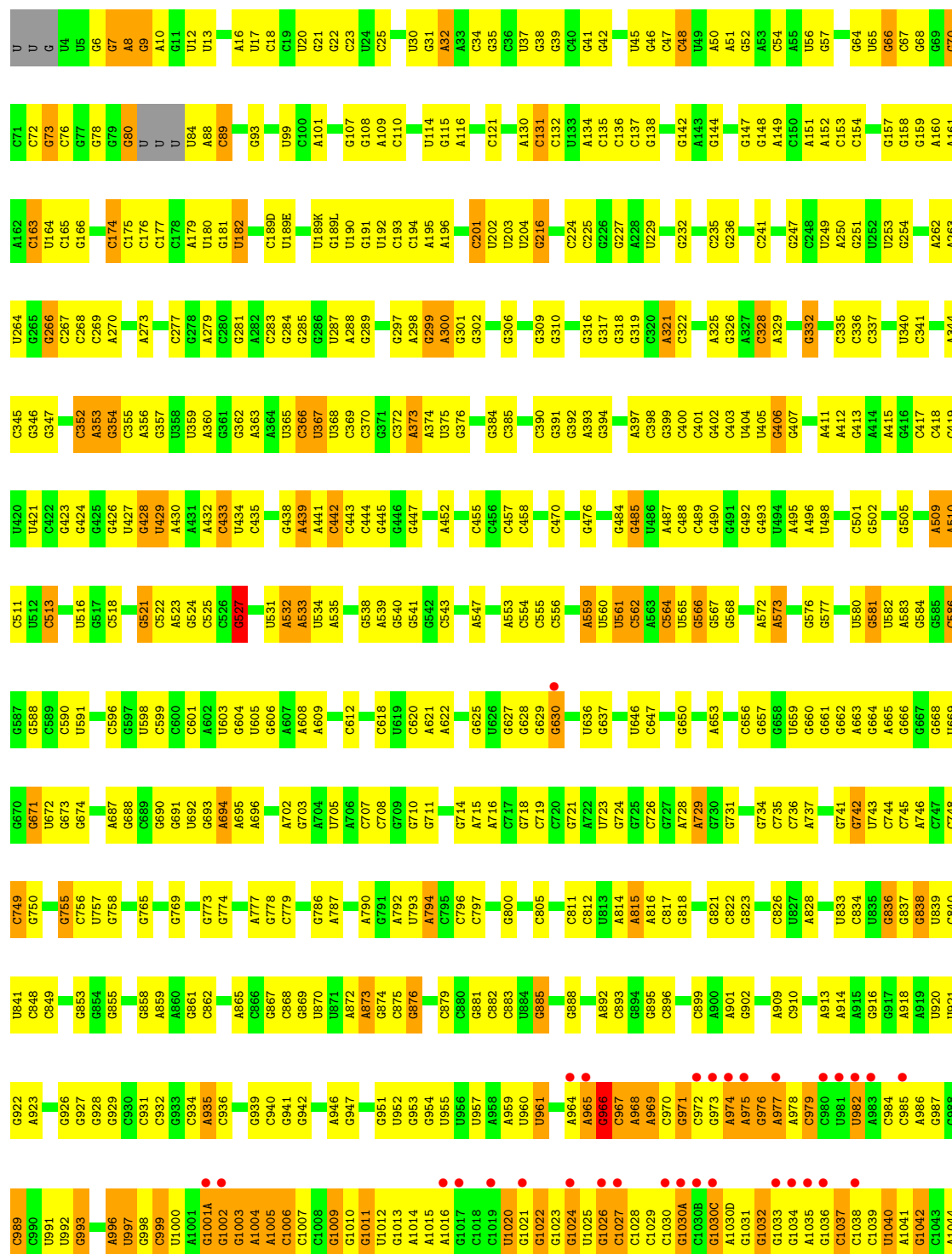
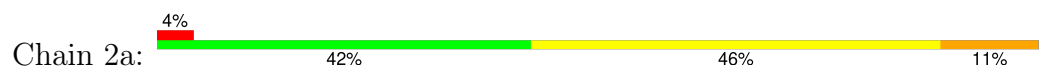
- Molecule 32: 16S Ribosomal RNA

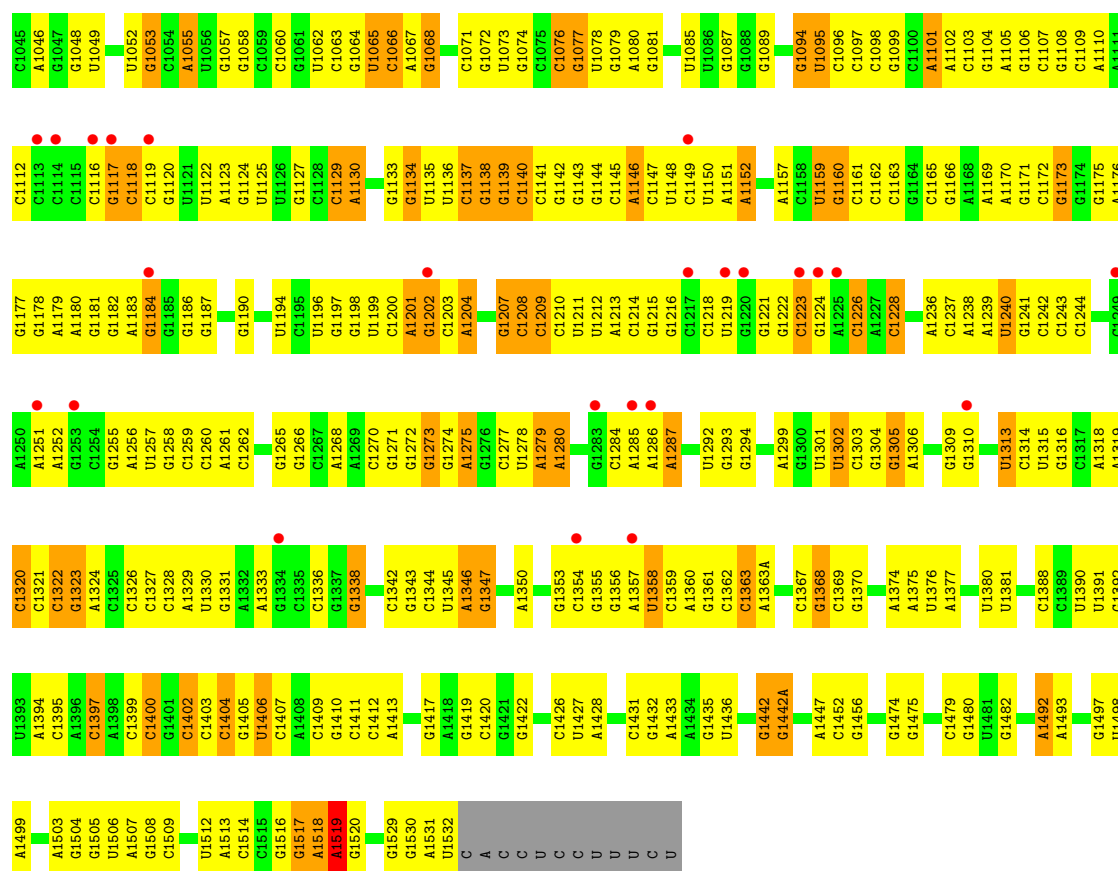




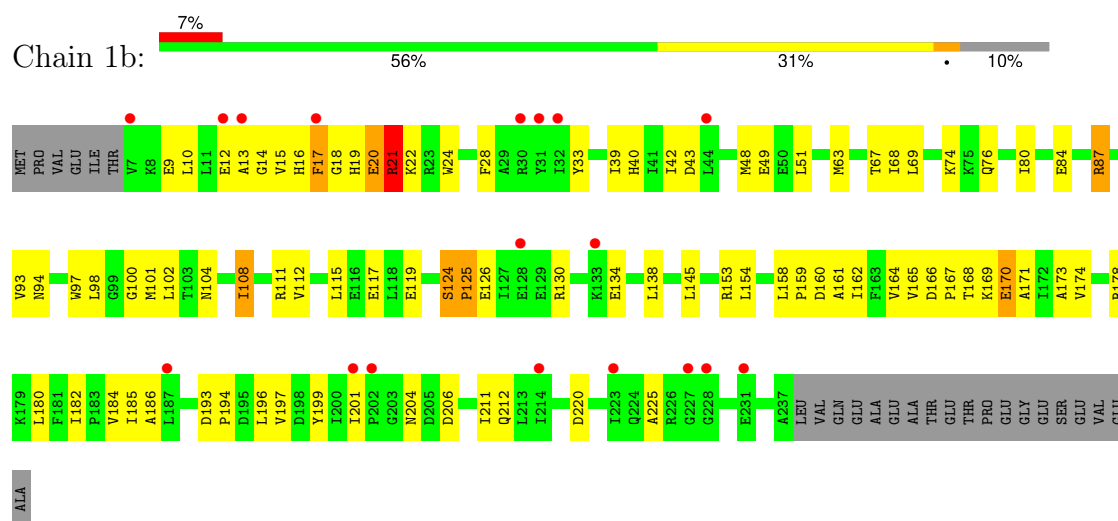


- Molecule 32: 16S Ribosomal RNA

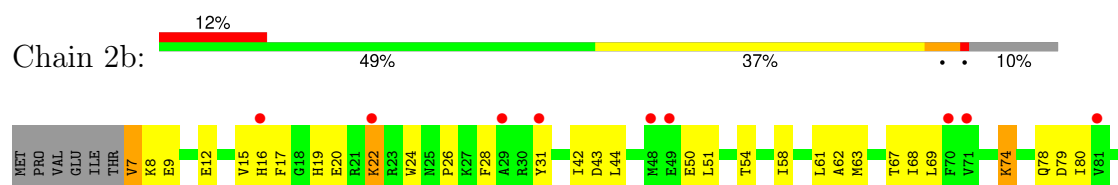


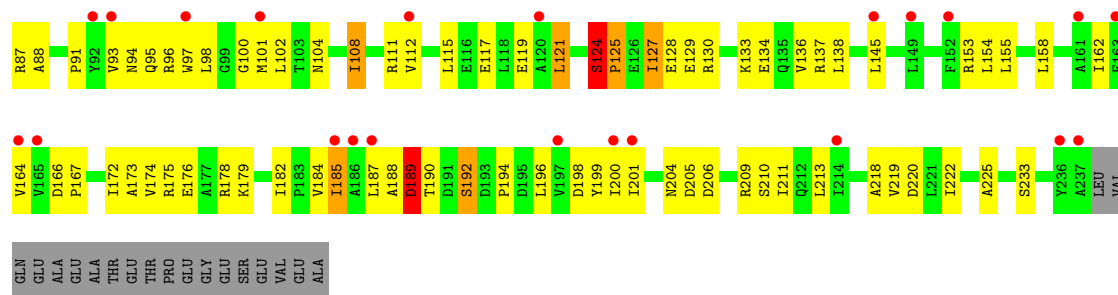


- Molecule 33: 30S ribosomal protein S2

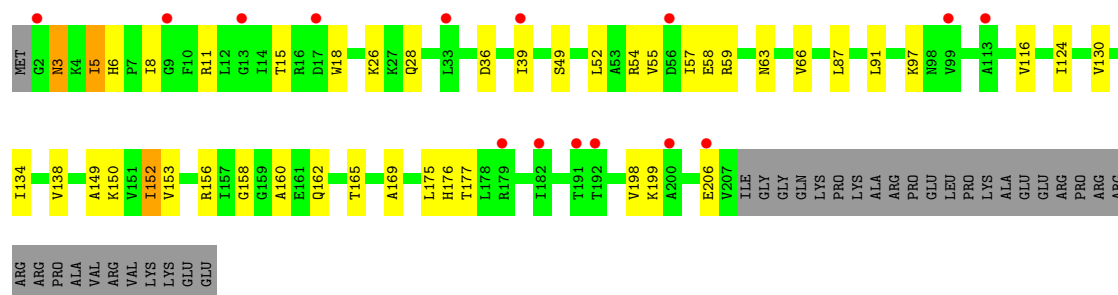


- Molecule 33: 30S ribosomal protein S2

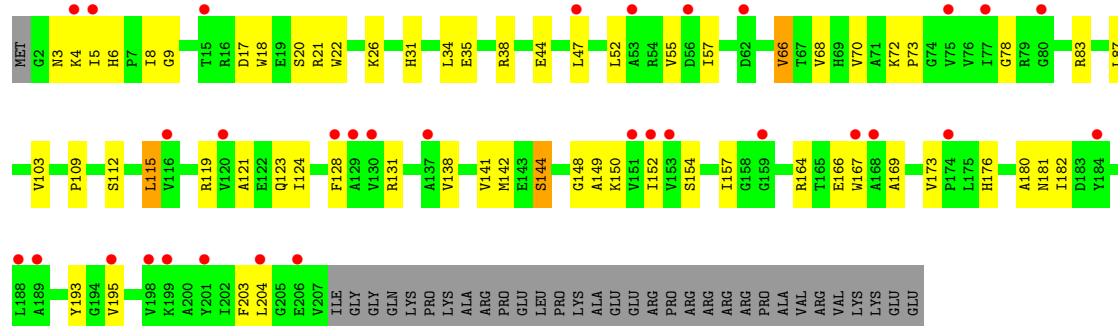




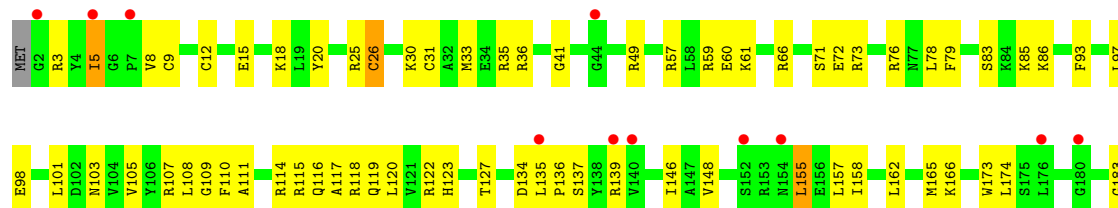
• Molecule 34: 30S ribosomal protein S3



• Molecule 34: 30S ribosomal protein S3

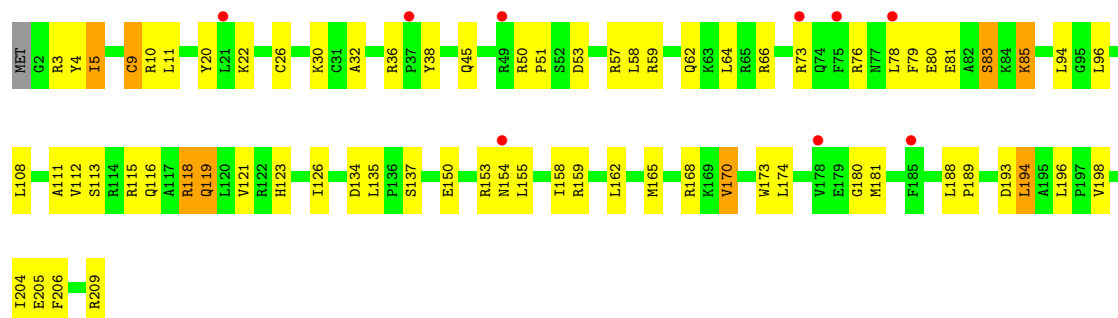


• Molecule 35: 30S ribosomal protein S4

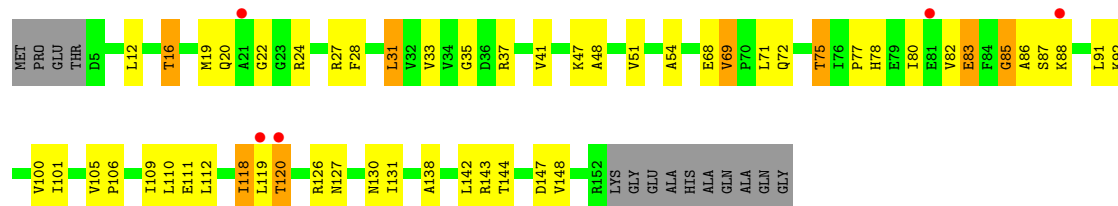




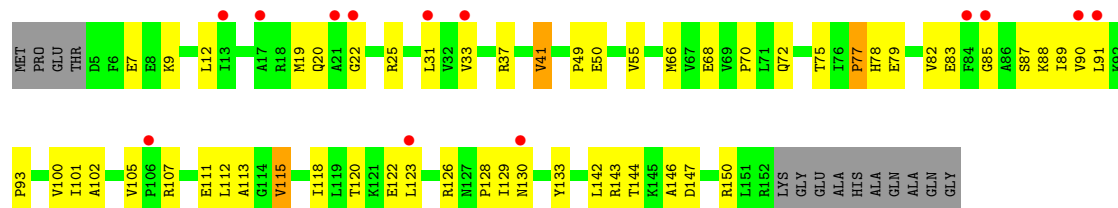
• Molecule 35: 30S ribosomal protein S4



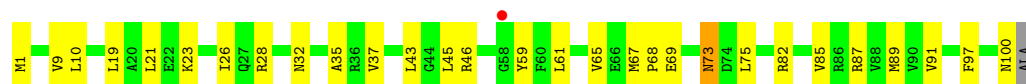
• Molecule 36: 30S ribosomal protein S5



• Molecule 36: 30S ribosomal protein S5

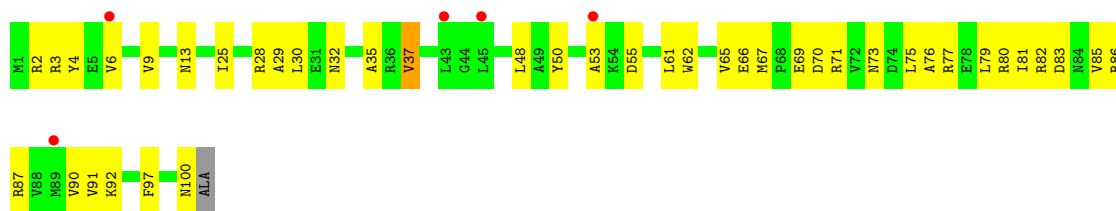


• Molecule 37: 30S ribosomal protein S6

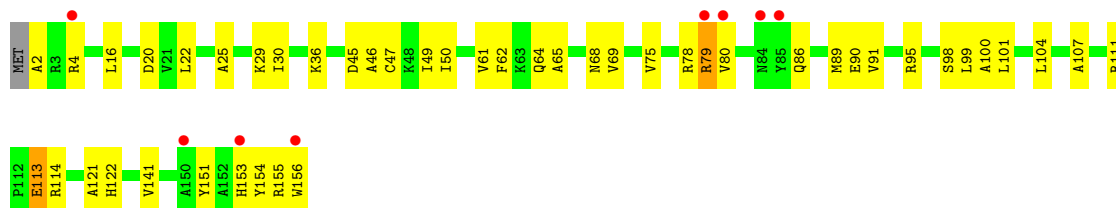


• Molecule 37: 30S ribosomal protein S6

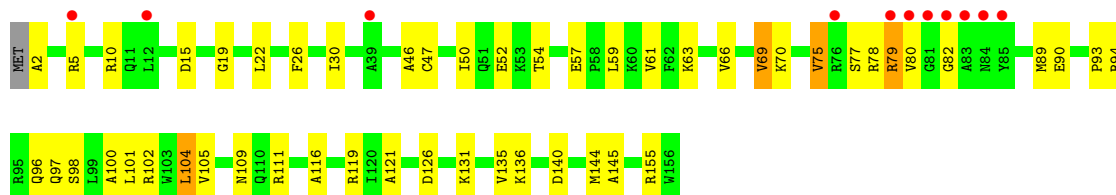




• Molecule 38: 30S ribosomal protein S7



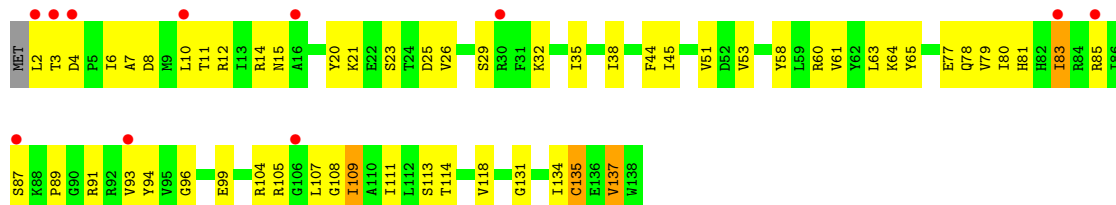
• Molecule 38: 30S ribosomal protein S7



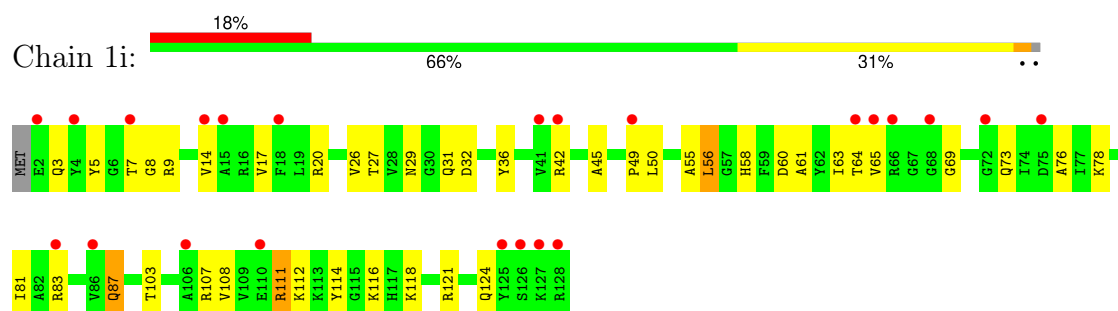
• Molecule 39: 30S ribosomal protein S8



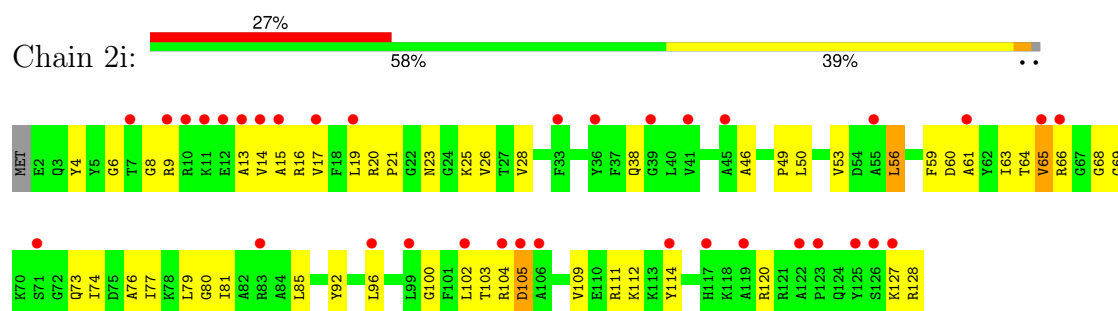
• Molecule 39: 30S ribosomal protein S8



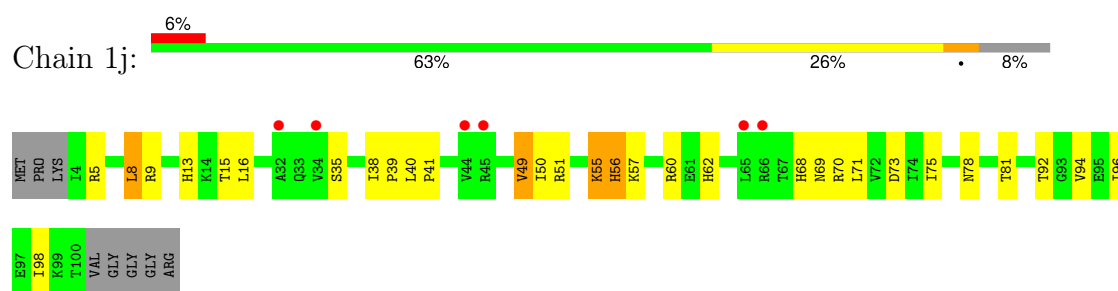
- Molecule 40: 30S ribosomal protein S9



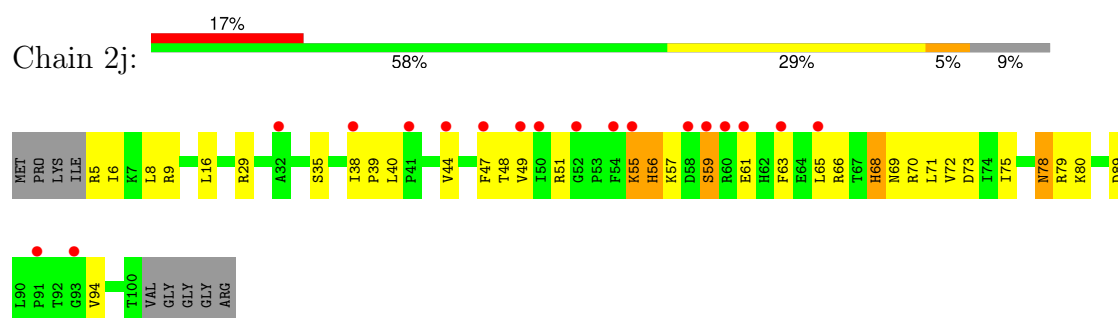
- Molecule 40: 30S ribosomal protein S9



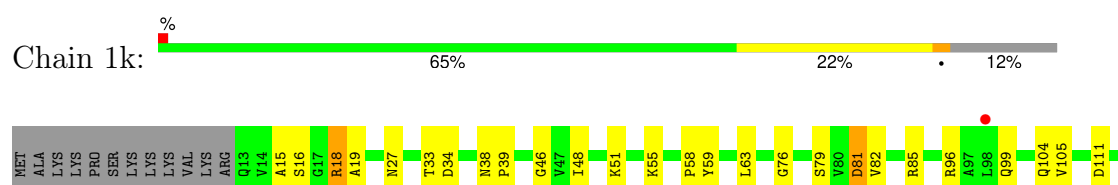
- Molecule 41: 30S ribosomal protein S10



- Molecule 41: 30S ribosomal protein S10



- Molecule 42: 30S ribosomal protein S11

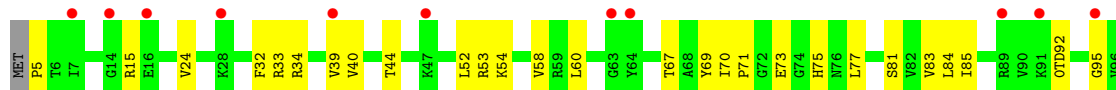




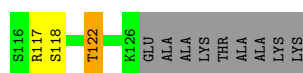
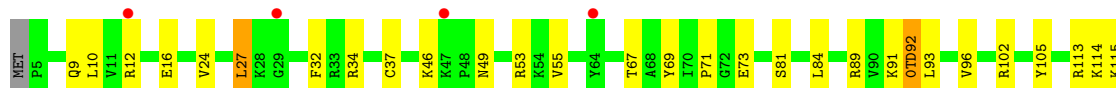
- Molecule 42: 30S ribosomal protein S11



- Molecule 43: 30S ribosomal protein S12



- Molecule 43: 30S ribosomal protein S12

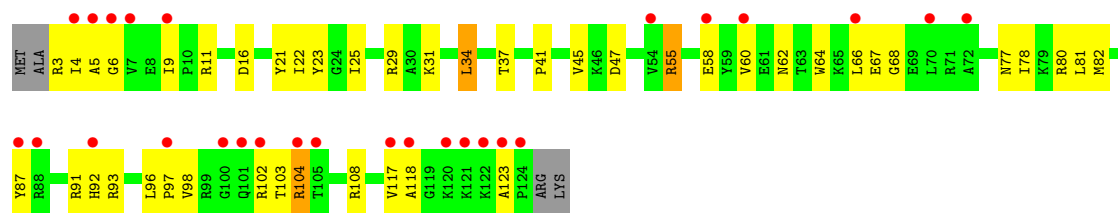


- Molecule 44: 30S ribosomal protein S13



- Molecule 44: 30S ribosomal protein S13

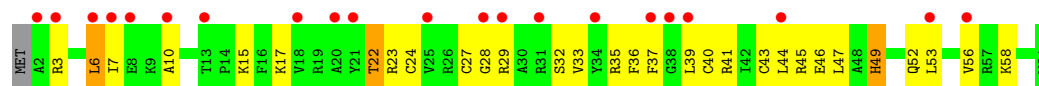




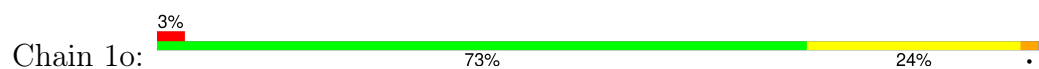
- Molecule 45: 30S ribosomal protein S14 type Z



- Molecule 45: 30S ribosomal protein S14 type Z



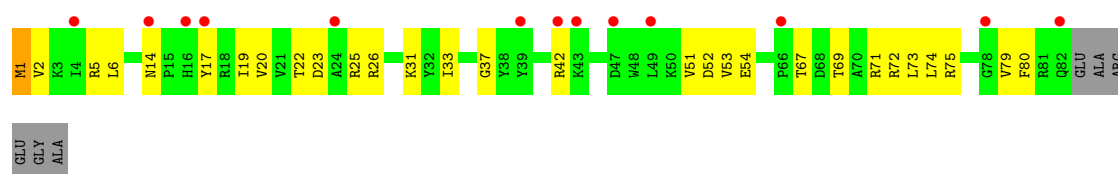
- Molecule 46: 30S ribosomal protein S15



- Molecule 46: 30S ribosomal protein S15

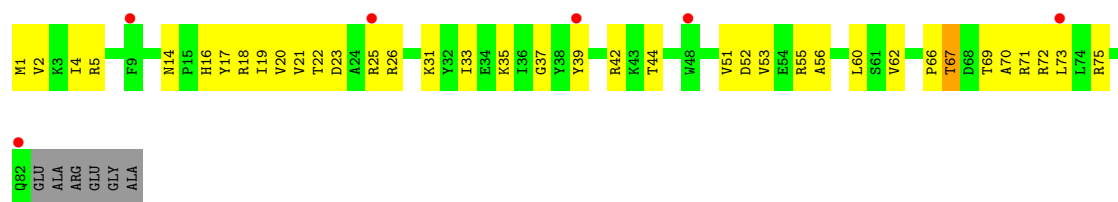


- Molecule 47: 30S ribosomal protein S16

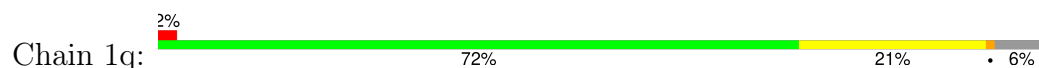


- Molecule 47: 30S ribosomal protein S16





- Molecule 48: 30S ribosomal protein S17



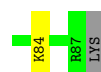
- Molecule 48: 30S ribosomal protein S17



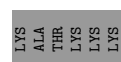
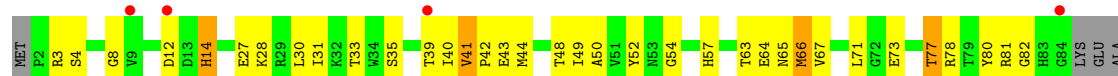
- Molecule 49: 30S ribosomal protein S18



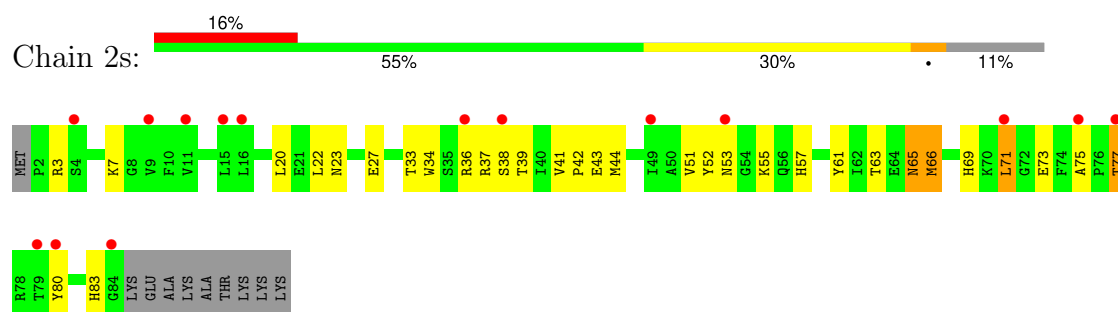
- Molecule 49: 30S ribosomal protein S18



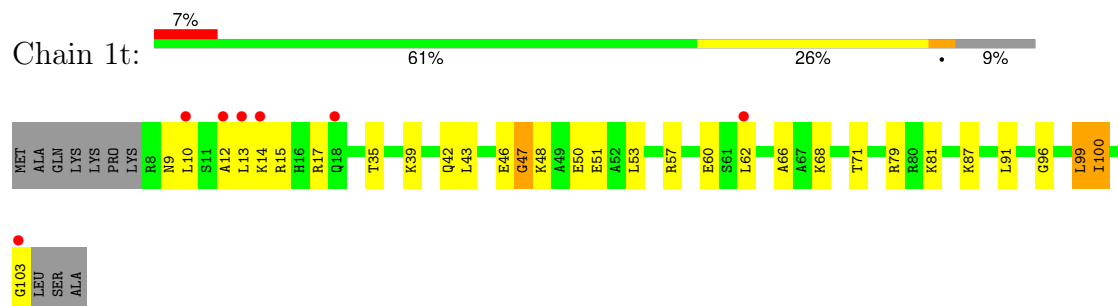
- Molecule 50: 30S ribosomal protein S19



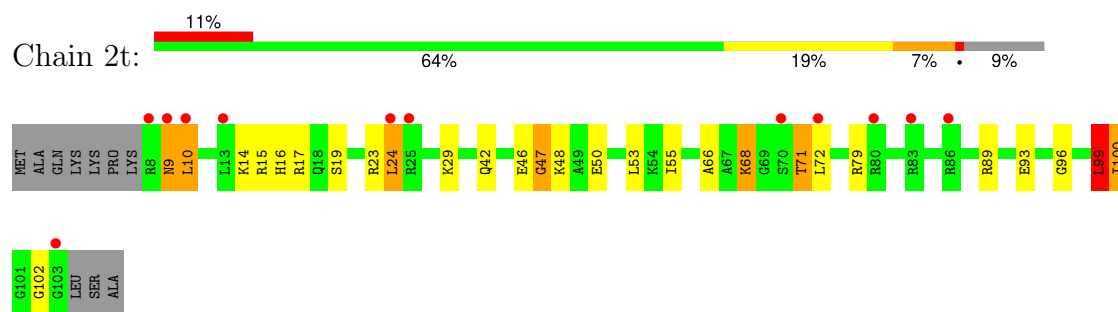
- Molecule 50: 30S ribosomal protein S19



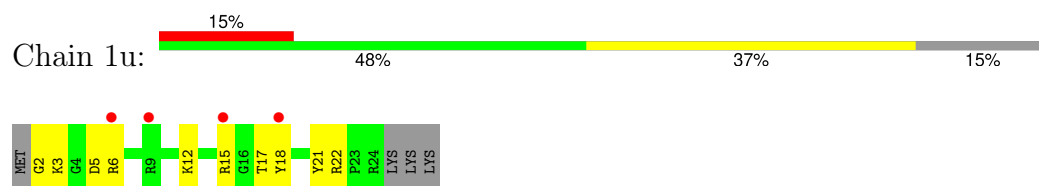
- Molecule 51: 30S ribosomal protein S20



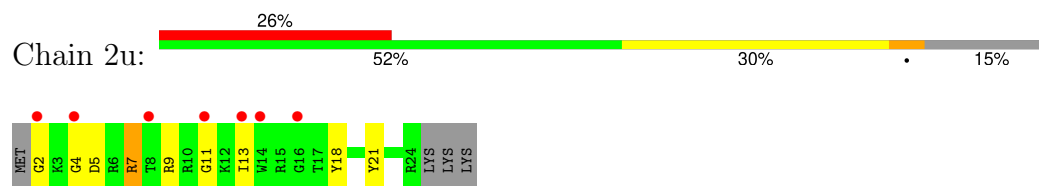
- Molecule 51: 30S ribosomal protein S20



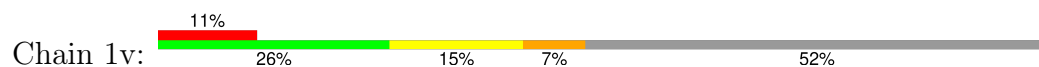
- Molecule 52: 30S ribosomal protein Thx

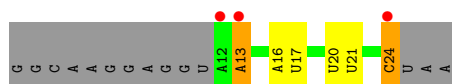


- Molecule 52: 30S ribosomal protein Thx

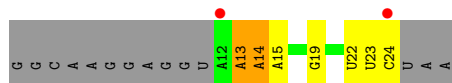
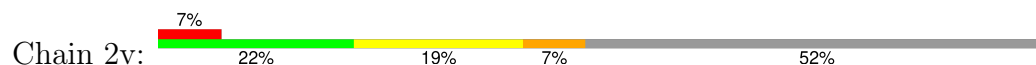


- Molecule 53: mRNA

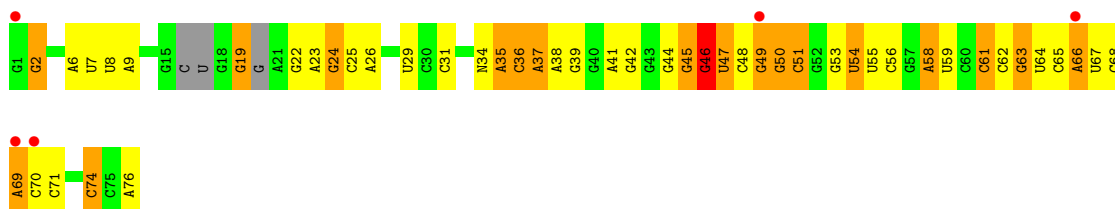




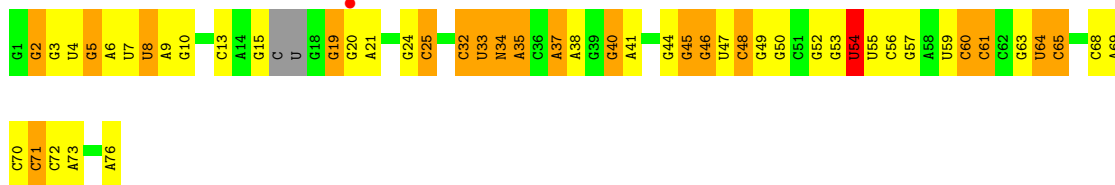
• Molecule 53: mRNA



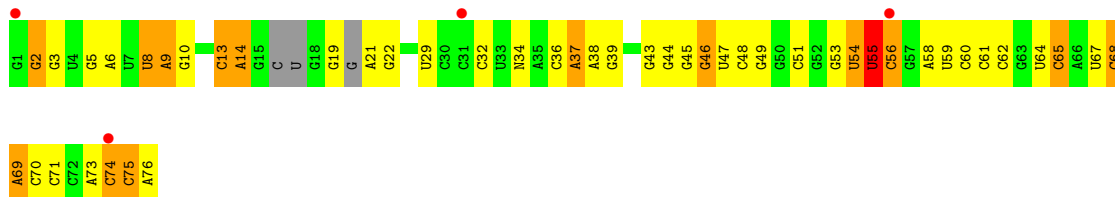
• Molecule 54: A-site and E-site tRNAs



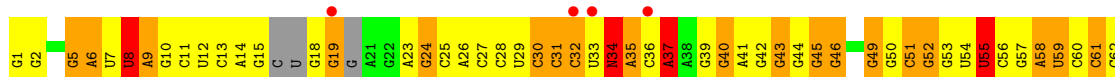
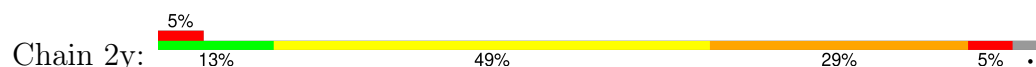
• Molecule 54: A-site and E-site tRNAs



• Molecule 54: A-site and E-site tRNAs



• Molecule 54: A-site and E-site tRNAs

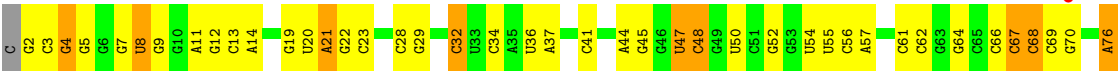




● Molecule 55: P-site tRNA



● Molecule 55: P-site tRNA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.05Å 448.09Å 621.49Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	224.04 – 2.85 224.04 – 2.85	Depositor EDS
% Data completeness (in resolution range)	98.7 (224.04-2.85) 98.7 (224.04-2.85)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.19 (at 2.86Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.249 , 0.305 0.250 , 0.304	Depositor DCC
R_{free} test set	66731 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	54.2	Xtriage
Anisotropy	0.151	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 58.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.34$, $\langle L^2 \rangle = 0.17$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	300104	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.61% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, MG, 7MG, 4OC, 2MU, ERY, 6MZ, UR3, 4SU, 0TD, SF4, 2MA, PSU, CM0, OMG, 5MU, MA6, M2G, 2MG, 5MC

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	1A	0.18	0/69009	0.36	0/107712
1	2A	0.15	0/67293	0.33	0/105034
2	1B	0.15	0/2882	0.32	0/4494
2	2B	0.14	0/2879	0.30	0/4487
3	1D	0.21	0/2186	0.43	0/2944
3	2D	0.17	0/2186	0.41	0/2944
4	1E	0.19	0/1592	0.47	1/2149 (0.0%)
4	2E	0.18	0/1592	0.39	0/2149
5	1F	0.17	0/1619	0.41	0/2193
5	2F	0.15	0/1615	0.37	0/2188
6	1G	0.16	0/1448	0.40	0/1957
6	2G	0.15	0/1453	0.39	1/1963 (0.1%)
7	1H	0.16	0/1356	0.36	0/1834
7	2H	0.17	0/1356	0.35	0/1834
8	1I	0.15	0/1112	0.39	0/1514
8	2I	0.13	0/1079	0.35	0/1475
9	1N	0.18	0/1144	0.39	0/1543
9	2N	0.15	0/1144	0.39	0/1543
10	1O	0.17	0/943	0.37	0/1269
10	2O	0.17	0/943	0.36	0/1269
11	1P	0.19	0/1152	0.48	2/1533 (0.1%)
11	2P	0.17	0/1152	0.41	0/1533
12	1Q	0.18	0/1143	0.39	0/1527
12	2Q	0.14	0/1143	0.38	0/1527
13	1R	0.19	0/982	0.45	0/1312
13	2R	0.16	0/982	0.40	0/1312
14	1S	0.16	0/883	0.43	0/1176
14	2S	0.14	0/880	0.39	0/1172
15	1T	0.17	0/1105	0.41	0/1477
15	2T	0.16	0/1097	0.40	0/1468
16	1U	0.19	0/977	0.37	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.14	0/977	0.36	0/1301
17	1V	0.21	0/782	0.44	0/1049
17	2V	0.16	0/782	0.38	0/1049
18	1W	0.20	0/897	0.41	0/1205
18	2W	0.15	0/897	0.37	0/1205
19	1X	0.17	0/764	0.40	0/1025
19	2X	0.15	0/764	0.36	0/1025
20	1Y	0.17	0/819	0.43	0/1095
20	2Y	0.15	0/819	0.38	0/1095
21	1Z	0.18	0/1267	0.42	0/1717
21	2Z	0.20	0/1299	0.44	0/1763
22	10	0.20	0/662	0.43	0/881
22	20	0.16	0/662	0.42	0/881
23	11	0.17	0/762	0.38	0/1014
23	21	0.20	0/762	0.35	0/1014
24	12	0.19	0/590	0.48	1/781 (0.1%)
24	22	0.14	0/590	0.41	1/781 (0.1%)
25	13	0.18	0/474	0.41	0/635
25	23	0.14	0/469	0.36	0/630
26	14	0.22	0/565	0.63	0/761
26	24	0.21	0/545	0.59	0/737
27	15	0.19	0/469	0.39	0/635
27	25	0.17	0/469	0.37	0/635
28	16	0.20	0/460	0.40	0/613
28	26	0.15	0/456	0.40	0/608
29	17	0.19	0/426	0.42	0/561
29	27	0.20	0/426	0.43	0/561
30	18	0.19	0/525	0.39	0/691
30	28	0.16	0/525	0.36	0/691
31	19	0.18	0/310	0.35	0/407
31	29	0.16	0/310	0.43	0/407
32	1a	0.14	0/35795	0.32	0/55864
32	2a	0.15	1/35886 (0.0%)	0.33	0/56005
33	1b	0.17	0/1881	0.44	1/2542 (0.0%)
33	2b	0.17	0/1860	0.43	0/2518
34	1c	0.16	0/1572	0.40	1/2126 (0.0%)
34	2c	0.14	0/1566	0.36	0/2119
35	1d	0.17	0/1685	0.43	0/2262
35	2d	0.23	0/1704	0.45	0/2284
36	1e	0.15	0/1145	0.43	0/1543
36	2e	0.16	0/1149	0.42	0/1548
37	1f	0.14	0/823	0.37	0/1115
37	2f	0.17	0/829	0.38	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.16	0/1250	0.37	0/1679
38	2g	0.14	0/1254	0.36	0/1683
39	1h	0.13	0/1108	0.38	0/1494
39	2h	0.15	0/1108	0.39	0/1494
40	1i	0.17	0/1002	0.44	0/1346
40	2i	0.19	0/997	0.53	1/1343 (0.1%)
41	1j	0.16	0/722	0.42	0/982
41	2j	0.16	0/727	0.41	0/988
42	1k	0.14	0/844	0.33	0/1145
42	2k	0.14	0/848	0.36	0/1149
43	1l	0.16	0/937	0.40	0/1260
43	2l	0.17	0/937	0.44	1/1260 (0.1%)
44	1m	0.16	0/969	0.42	0/1302
44	2m	0.16	0/961	0.42	0/1291
45	1n	0.13	0/501	0.35	0/664
45	2n	0.16	0/501	0.39	0/664
46	1o	0.13	0/739	0.35	0/985
46	2o	0.17	0/739	0.48	1/985 (0.1%)
47	1p	0.16	0/697	0.42	0/939
47	2p	0.14	0/693	0.41	0/935
48	1q	0.14	0/836	0.36	0/1117
48	2q	0.15	0/836	0.37	0/1117
49	1r	0.13	0/560	0.35	0/746
49	2r	0.12	0/560	0.34	0/746
50	1s	0.17	0/667	0.43	0/900
50	2s	0.21	0/661	0.53	0/893
51	1t	0.17	0/730	0.47	0/965
51	2t	0.16	0/729	0.54	2/965 (0.2%)
52	1u	0.16	0/203	0.49	0/266
52	2u	0.15	0/203	0.45	0/266
53	1v	0.16	0/308	0.28	0/477
53	2v	0.15	0/308	0.33	0/477
54	1w	0.22	0/1600	0.38	0/2482
54	1y	0.22	1/1627 (0.1%)	0.37	0/2527
54	2w	0.22	0/1600	0.40	0/2482
54	2y	0.24	1/1600 (0.1%)	0.38	0/2482
55	1x	0.21	0/1725	0.35	0/2689
55	2x	0.20	0/1725	0.35	0/2689
All	All	0.16	3/316758 (0.0%)	0.36	13/474209 (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
26	14	0	1
26	24	0	2
33	1b	0	1
33	2b	0	1
51	1t	0	1
All	All	0	6

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	8	4SU	O3'-P	5.45	1.61	1.56
54	1y	8	4SU	O3'-P	5.45	1.61	1.56
32	2a	1498	UR3	O3'-P	5.12	1.61	1.56

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	2i	53	VAL	N-CA-C	-9.57	103.08	112.17
4	1E	95	ILE	N-CA-C	-9.14	102.28	112.80
46	2o	82	ILE	N-CA-C	-8.63	102.88	112.80
24	12	41	ILE	N-CA-C	-7.11	105.42	112.17
11	1P	33	ARG	CA-C-N	-6.34	109.97	121.32
11	1P	33	ARG	C-N-CA	-6.34	109.97	121.32
6	2G	45	GLU	N-CA-C	-5.67	106.44	113.19
51	2t	99	LEU	CA-C-N	5.66	132.16	121.97
51	2t	99	LEU	C-N-CA	5.66	132.16	121.97
43	2l	105	TYR	CB-CA-C	-5.60	109.61	117.23
24	22	41	ILE	N-CA-C	-5.24	107.36	112.29
34	1c	158	GLY	N-CA-C	-5.06	108.63	115.36
33	1b	13	ALA	N-CA-C	-5.04	107.41	113.21

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	14	57	GLU	Peptide
33	1b	124	SER	Peptide
51	1t	99	LEU	Peptide
26	24	53	GLU	Peptide
26	24	55	ARG	Peptide
33	2b	22	LYS	Peptide

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61852	0	31191	800	0
1	2A	60322	0	30418	927	0
2	1B	2577	0	1305	34	0
2	2B	2575	0	1303	41	0
3	1D	2136	0	2218	68	0
3	2D	2136	0	2218	53	0
4	1E	1559	0	1617	39	0
4	2E	1559	0	1618	44	0
5	1F	1584	0	1625	41	0
5	2F	1580	0	1618	46	0
6	1G	1423	0	1436	43	0
6	2G	1428	0	1438	49	0
7	1H	1330	0	1407	32	0
7	2H	1330	0	1407	38	0
8	1I	1097	0	1140	22	0
8	2I	1064	0	1082	23	0
9	1N	1117	0	1184	14	0
9	2N	1117	0	1184	24	0
10	1O	933	0	996	24	0
10	2O	933	0	996	29	0
11	1P	1135	0	1212	34	0
11	2P	1135	0	1212	41	0
12	1Q	1122	0	1179	32	0
12	2Q	1122	0	1179	35	0
13	1R	968	0	1033	16	0
13	2R	968	0	1033	25	0
14	1S	873	0	927	26	0
14	2S	870	0	923	24	0
15	1T	1091	0	1151	23	0
15	2T	1083	0	1136	45	0
16	1U	959	0	1019	16	0
16	2U	959	0	1018	22	0
17	1V	771	0	830	17	0
17	2V	771	0	830	23	0
18	1W	886	0	939	25	0
18	2W	886	0	940	15	0
19	1X	750	0	814	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	2X	750	0	814	14	0
20	1Y	806	0	881	23	0
20	2Y	806	0	881	20	0
21	1Z	1240	0	1240	31	0
21	2Z	1271	0	1273	42	0
22	10	653	0	674	19	0
22	20	653	0	674	32	0
23	11	755	0	826	18	0
23	21	755	0	826	24	0
24	12	588	0	643	13	0
24	22	588	0	643	11	0
25	13	469	0	518	15	0
25	23	464	0	514	13	0
26	14	552	0	533	28	0
26	24	532	0	503	18	0
27	15	455	0	465	9	0
27	25	455	0	465	16	0
28	16	453	0	472	10	0
28	26	449	0	469	10	0
29	17	418	0	467	8	0
29	27	418	0	467	8	0
30	18	517	0	582	22	0
30	28	517	0	582	26	0
31	19	307	0	335	10	0
31	29	307	0	335	10	0
32	1a	32246	0	16294	577	0
32	2a	32327	0	16338	657	0
33	1b	1846	0	1867	59	0
33	2b	1825	0	1828	67	0
34	1c	1548	0	1535	24	0
34	2c	1542	0	1517	40	0
35	1d	1655	0	1672	51	0
35	2d	1674	0	1714	52	0
36	1e	1129	0	1185	39	0
36	2e	1133	0	1191	38	0
37	1f	810	0	804	19	0
37	2f	816	0	808	32	0
38	1g	1231	0	1238	30	0
38	2g	1235	0	1249	30	0
39	1h	1088	0	1126	32	0
39	2h	1088	0	1126	42	0
40	1i	983	0	986	32	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	2i	978	0	966	39	0
41	1j	709	0	650	27	0
41	2j	714	0	672	28	0
42	1k	829	0	825	17	0
42	2k	833	0	836	23	0
43	1l	932	0	981	21	0
43	2l	932	0	981	23	0
44	1m	958	0	1002	36	0
44	2m	950	0	988	35	0
45	1n	492	0	529	21	0
45	2n	492	0	529	24	0
46	1o	728	0	760	17	0
46	2o	728	0	760	18	0
47	1p	681	0	697	22	0
47	2p	677	0	686	23	0
48	1q	823	0	891	14	0
48	2q	823	0	891	22	0
49	1r	555	0	618	11	0
49	2r	555	0	618	21	0
50	1s	652	0	662	22	0
50	2s	646	0	644	27	0
51	1t	728	0	798	24	0
51	2t	727	0	796	18	0
52	1u	199	0	208	10	0
52	2u	199	0	208	9	0
53	1v	276	0	139	8	0
53	2v	276	0	139	7	0
54	1w	1568	0	801	31	0
54	1y	1591	0	812	39	0
54	2w	1568	0	802	20	0
54	2y	1568	0	802	64	0
55	1x	1625	0	829	16	0
55	2x	1625	0	829	27	0
56	10	7	0	0	0	0
56	11	1	0	0	0	0
56	12	2	0	0	0	0
56	13	6	0	0	0	0
56	14	1	0	0	0	0
56	15	7	0	0	0	0
56	16	4	0	0	0	0
56	17	5	0	0	0	0
56	18	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	19	3	0	0	0	0
56	1A	1073	0	0	0	0
56	1B	35	0	0	0	0
56	1D	13	0	0	0	0
56	1E	15	0	0	0	0
56	1F	14	0	0	0	0
56	1G	3	0	0	0	0
56	1I	1	0	0	0	0
56	1N	4	0	0	0	0
56	1O	2	0	0	0	0
56	1P	8	0	0	0	0
56	1Q	8	0	0	0	0
56	1R	2	0	0	0	0
56	1S	2	0	0	0	0
56	1T	2	0	0	0	0
56	1U	10	0	0	0	0
56	1V	8	0	0	0	0
56	1W	8	0	0	0	0
56	1X	5	0	0	0	0
56	1Y	1	0	0	0	0
56	1Z	3	0	0	0	0
56	1a	229	0	0	0	0
56	1b	1	0	0	0	0
56	1d	1	0	0	0	0
56	1e	2	0	0	0	0
56	1f	1	0	0	0	0
56	1l	3	0	0	0	0
56	1m	1	0	0	0	0
56	1n	1	0	0	0	0
56	1p	1	0	0	0	0
56	1r	1	0	0	0	0
56	1s	1	0	0	0	0
56	1t	1	0	0	0	0
56	1v	1	0	0	0	0
56	1w	6	0	0	0	0
56	1x	13	0	0	0	0
56	1y	5	0	0	0	0
56	20	2	0	0	0	0
56	21	1	0	0	0	0
56	22	1	0	0	0	0
56	23	3	0	0	0	0
56	25	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	26	2	0	0	0	0
56	27	2	0	0	0	0
56	28	1	0	0	0	0
56	2A	874	0	0	0	0
56	2B	21	0	0	0	0
56	2D	7	0	0	0	0
56	2E	8	0	0	0	0
56	2F	7	0	0	0	0
56	2G	1	0	0	0	0
56	2N	1	0	0	0	0
56	2O	1	0	0	0	0
56	2P	2	0	0	0	0
56	2Q	5	0	0	0	0
56	2R	3	0	0	0	0
56	2T	3	0	0	0	0
56	2U	3	0	0	0	0
56	2V	1	0	0	0	0
56	2W	1	0	0	0	0
56	2X	2	0	0	0	0
56	2Z	1	0	0	0	0
56	2a	233	0	0	0	0
56	2d	1	0	0	0	0
56	2e	1	0	0	0	0
56	2f	2	0	0	0	0
56	2g	1	0	0	0	0
56	2i	2	0	0	0	0
56	2j	2	0	0	0	0
56	2k	1	0	0	0	0
56	2l	5	0	0	0	0
56	2p	1	0	0	0	0
56	2q	3	0	0	0	0
56	2r	1	0	0	0	0
56	2t	1	0	0	0	0
56	2v	2	0	0	0	0
56	2w	1	0	0	0	0
56	2x	5	0	0	0	0
56	2y	4	0	0	0	0
57	1A	51	0	67	3	0
57	2A	51	0	67	3	0
58	14	1	0	0	0	0
58	15	1	0	0	0	0
58	16	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	19	1	0	0	0	0
58	1Y	1	0	0	0	0
58	1n	1	0	0	0	0
58	24	1	0	0	0	0
58	25	1	0	0	0	0
58	26	1	0	0	0	0
58	29	1	0	0	0	0
58	2Y	1	0	0	0	0
58	2n	1	0	0	0	0
59	1d	8	0	0	2	0
59	2d	8	0	0	0	0
60	10	9	0	0	0	0
60	11	10	0	0	0	0
60	12	3	0	0	0	0
60	13	2	0	0	0	0
60	14	2	0	0	0	0
60	15	3	0	0	0	0
60	16	3	0	0	0	0
60	17	9	0	0	0	0
60	18	5	0	0	1	0
60	19	2	0	0	0	0
60	1A	1719	0	0	69	0
60	1B	59	0	0	0	0
60	1D	16	0	0	1	0
60	1E	21	0	0	3	0
60	1F	7	0	0	0	0
60	1G	4	0	0	3	0
60	1H	1	0	0	0	0
60	1I	2	0	0	0	0
60	1N	5	0	0	0	0
60	1O	7	0	0	0	0
60	1P	11	0	0	1	0
60	1Q	10	0	0	0	0
60	1R	8	0	0	0	0
60	1S	5	0	0	0	0
60	1T	2	0	0	0	0
60	1U	6	0	0	0	0
60	1V	10	0	0	0	0
60	1W	8	0	0	0	0
60	1X	8	0	0	0	0
60	1Y	4	0	0	0	0
60	1Z	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	1a	381	0	0	20	0
60	1b	1	0	0	0	0
60	1g	1	0	0	0	0
60	1k	1	0	0	0	0
60	1l	2	0	0	0	0
60	1q	4	0	0	0	0
60	1v	1	0	0	0	0
60	1w	2	0	0	0	0
60	1x	15	0	0	0	0
60	1y	2	0	0	0	0
60	20	9	0	0	2	0
60	21	8	0	0	0	0
60	22	2	0	0	0	0
60	23	1	0	0	0	0
60	25	4	0	0	0	0
60	27	3	0	0	0	0
60	28	4	0	0	2	0
60	29	1	0	0	0	0
60	2A	1401	0	0	84	0
60	2B	26	0	0	0	0
60	2D	14	0	0	1	0
60	2E	9	0	0	0	0
60	2F	8	0	0	0	0
60	2I	4	0	0	0	0
60	2N	1	0	0	0	0
60	2O	1	0	0	0	0
60	2P	5	0	0	0	0
60	2Q	2	0	0	0	0
60	2R	2	0	0	0	0
60	2T	4	0	0	0	0
60	2U	2	0	0	1	0
60	2W	4	0	0	0	0
60	2X	4	0	0	0	0
60	2Z	1	0	0	0	0
60	2a	306	0	0	6	0
60	2d	1	0	0	0	0
60	2g	2	0	0	0	0
60	2h	1	0	0	0	0
60	2i	3	0	0	0	0
60	2j	4	0	0	1	0
60	2l	4	0	0	0	0
60	2p	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	2r	1	0	0	0	0
60	2t	2	0	0	0	0
60	2v	1	0	0	0	0
60	2x	8	0	0	1	0
60	2y	11	0	0	0	0
All	All	300104	0	196819	5045	0

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 11.

All (5045) 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)
1:1A:2136:C:N4	1:1A:2155:G:H1	1.44	1.15
32:2a:1002:G:H1	32:2a:1038:C:N4	1.47	1.11
32:2a:1089:G:H1	32:2a:1096:C:N4	1.55	1.05
32:2a:1133:G:H1	32:2a:1141:C:N4	1.53	1.04
54:2y:30:C:N4	54:2y:40:G:H1	1.56	1.03
1:1A:1082:U:O4	1:1A:1086:A:N1	1.95	1.00
1:1A:1054:A:H61	1:1A:1105:U:H3	1.07	0.99
1:2A:2138:C:H42	1:2A:2153:G:H1	1.02	0.98
32:1a:1254:C:H42	32:1a:1283:G:H1	1.06	0.97
32:2a:1353:G:H1	32:2a:1369:C:N4	1.62	0.96
32:2a:1244:C:N4	32:2a:1293:G:H1	1.64	0.96
54:2y:50:G:H1	54:2y:64:U:H3	0.99	0.96
55:2x:3:C:H42	55:2x:70:G:H1	1.15	0.95
1:1A:2138:C:N4	1:1A:2153:G:H1	1.65	0.94
1:2A:2104:G:H1	1:2A:2185:C:N4	1.64	0.94
1:2A:2121:G:H1	1:2A:2177:C:H42	1.10	0.94
1:2A:2138:C:N4	1:2A:2153:G:H1	1.65	0.93
54:2y:52:G:H1	54:2y:62:C:H42	1.11	0.93
32:1a:998:G:H1	32:1a:1043:C:H42	0.95	0.93
32:1a:998:G:H1	32:1a:1043:C:N4	1.65	0.93
32:2a:1029:C:N4	32:2a:1032:G:H1	1.64	0.93
32:2a:1353:G:H1	32:2a:1369:C:H42	0.99	0.93
1:1A:1054:A:N6	1:1A:1105:U:H3	1.66	0.92
1:1A:2138:C:H42	1:1A:2153:G:H1	1.07	0.92
32:1a:765:G:H1	32:1a:812:C:HO2'	1.13	0.92
1:2A:2143:C:H42	1:2A:2148:G:H1	1.06	0.92
1:2A:2140:C:H42	1:2A:2151:G:H1	1.07	0.91
1:2A:1024:G:HO2'	1:2A:1144:G:HO2'	1.17	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:2x:50:U:H3	55:2x:64:G:H1	0.95	0.90
1:2A:2140:C:N4	1:2A:2151:G:H1	1.69	0.90
32:2a:1029:C:H42	32:2a:1032:G:H1	0.93	0.90
54:2y:19:G:H1	54:2y:56:C:H42	1.17	0.90
1:2A:2137:C:N4	1:2A:2154:G:H1	1.71	0.89
1:1A:1082:U:H3	1:1A:1086:A:N6	1.69	0.89
32:2a:1244:C:H42	32:2a:1293:G:H1	0.90	0.89
32:2a:997:U:H3	32:2a:1044:A:H61	1.16	0.88
32:2a:1134:G:H1	32:2a:1140:C:H42	1.21	0.88
1:2A:2104:G:H1	1:2A:2185:C:H42	0.90	0.88
1:1A:517:C:OP1	27:15:16:ARG:NH2	2.08	0.87
32:2a:455:C:H42	32:2a:476:G:H1	1.20	0.87
32:1a:1047:G:H5''	45:1n:4:LYS:HD3	1.57	0.86
32:2a:693:G:H21	54:2y:37:6MZ:H2	1.41	0.86
32:2a:1002:G:N2	32:2a:1038:C:N3	2.23	0.86
32:1a:200:G:H1	32:1a:217:C:H42	1.20	0.86
54:2y:5:G:H1	54:2y:68:C:H42	1.23	0.86
32:2a:1133:G:H1	32:2a:1141:C:H42	0.87	0.86
54:1y:19:G:N2	54:1y:56:C:N3	2.25	0.85
1:1A:2099:U:H3	1:1A:2190:G:H1	1.21	0.85
22:10:11:ARG:O	22:10:14:ARG:NH2	2.09	0.85
1:1A:2136:C:N3	1:1A:2155:G:N2	2.23	0.85
1:2A:2143:C:N4	1:2A:2148:G:H1	1.75	0.84
1:1A:2103:C:H42	1:1A:2186:G:H1	1.25	0.84
1:2A:2121:G:H1	1:2A:2177:C:N4	1.75	0.84
1:2A:2138:C:N3	1:2A:2153:G:N2	2.25	0.84
1:2A:1032:A:H61	1:2A:1122:G:H1	1.23	0.83
32:2a:1133:G:N2	32:2a:1141:C:N3	2.26	0.83
1:1A:530:G:N1	1:1A:2023:G:OP1	2.11	0.83
1:1A:279:C:H42	1:1A:361:G:H1	1.25	0.83
32:1a:1004:A:N6	32:1a:1037:C:N3	2.27	0.82
32:1a:1128:C:H42	32:1a:1144:G:H1	1.24	0.82
32:2a:1089:G:H1	32:2a:1096:C:H42	0.84	0.82
1:2A:2345:G:H4'	1:2A:2346:A:H5''	1.62	0.82
1:2A:2807:G:N1	1:2A:2893:G:O6	2.11	0.82
1:1A:2790:A:H5''	1:1A:2893:G:H21	1.45	0.82
1:2A:2096:U:H3	1:2A:2193:G:H1	1.28	0.82
1:1A:1082:U:H3	1:1A:1086:A:H61	0.86	0.82
1:2A:2113:U:H3	1:2A:2170:A:H61	1.27	0.82
32:1a:998:G:N2	32:1a:1043:C:N3	2.25	0.81
1:2A:125:G:H5''	29:27:19:ARG:HD3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:2y:30:C:N3	54:2y:40:G:N2	2.29	0.81
1:1A:1992:G:N7	60:1A:5061:HOH:O	2.14	0.81
54:1y:5:G:H1	54:1y:68:C:H42	1.29	0.81
1:1A:2807:G:N1	1:1A:2893:G:O6	2.13	0.81
32:1a:1254:C:N4	32:1a:1283:G:H1	1.78	0.81
54:1w:22:G:N7	54:1w:46:7MG:N2	2.26	0.80
1:1A:1060:U:H3	1:1A:1088:A:H8	1.29	0.80
27:25:16:ARG:NH1	27:25:17:ASP:OD1	2.15	0.80
54:2y:30:C:H42	54:2y:40:G:H1	0.82	0.80
11:1P:52:GLU:OE1	11:1P:55:ARG:NH1	2.14	0.80
32:1a:993:G:H2'	32:1a:995:C:H41	1.46	0.80
36:1e:78:HIS:HE1	36:1e:143:ARG:H	1.29	0.80
32:2a:953:G:N7	44:2m:104:ARG:NH2	2.30	0.80
23:11:3:LYS:HB2	23:11:61:ARG:HH12	1.45	0.80
55:2x:14:A:H61	55:2x:21:A:H2	1.29	0.79
32:2a:147:G:H1	32:2a:175:C:H42	1.27	0.79
32:2a:1404:5MC:HN41	32:2a:1497:G:H1	1.26	0.79
32:2a:444:C:H2'	32:2a:445:G:H8	1.48	0.79
32:2a:1224:G:H1	32:2a:1363:C:H42	1.27	0.79
1:1A:2103:C:N4	1:1A:2186:G:H1	1.80	0.79
1:2A:2206:G:OP1	3:2D:68:LYS:NZ	2.16	0.79
1:2A:1153:C:OP1	16:2U:92:ARG:NH2	2.16	0.79
39:2h:87:SER:HB2	39:2h:93:VAL:H	1.48	0.79
44:2m:34:LEU:HD13	44:2m:41:PRO:HB3	1.65	0.79
1:1A:1817:G:OP1	3:1D:88:ARG:NH2	2.16	0.78
33:1b:69:LEU:HB3	33:1b:162:ILE:HG22	1.66	0.78
20:2Y:83:THR:HG21	20:2Y:99:CYS:HB2	1.65	0.78
32:2a:64:G:H4'	32:2a:65:U:H3'	1.65	0.78
32:1a:532:A:N6	32:1a:1206:G:O2'	2.16	0.78
54:2y:19:G:N2	54:2y:56:C:N3	2.32	0.78
1:1A:875:G:H1	1:1A:902:C:H42	1.28	0.78
54:2y:52:G:H1	54:2y:62:C:N4	1.82	0.78
10:1O:35:VAL:HG11	10:1O:103:ALA:HB3	1.64	0.77
1:1A:1390:U:O2	1:1A:1395:A:N6	2.17	0.77
32:2a:951:G:OP2	44:2m:102:ARG:NH1	2.17	0.77
1:1A:833:U:O2	11:1P:55:ARG:NH2	2.18	0.77
1:1A:1086:A:O2'	1:1A:1087:G:N7	2.16	0.77
32:2a:1353:G:N2	32:2a:1369:C:N3	2.32	0.77
24:12:10:LEU:HD21	24:12:59:ARG:HD2	1.64	0.77
32:2a:1223:C:H5''	32:2a:1224:G:H5''	1.66	0.77
32:2a:975:A:H4'	32:2a:976:G:H5''	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:874:G:H21	21:2Z:170:THR:HG21	1.49	0.77
1:2A:2845:G:H2'	1:2A:2846:G:H8	1.50	0.77
5:2F:53:THR:HG23	5:2F:55:GLY:H	1.51	0.77
32:2a:979:C:OP1	32:2a:1223:C:N4	2.18	0.76
32:2a:1224:G:H1	32:2a:1363:C:N4	1.83	0.76
32:2a:1292:U:H5'	40:2i:38:GLN:HE21	1.50	0.76
1:1A:631:A:OP1	11:1P:65:ARG:NH1	2.17	0.76
42:1k:51:LYS:HA	42:1k:55:LYS:HE3	1.68	0.76
32:2a:838:G:H1	32:2a:848:C:H42	1.32	0.76
31:29:25:VAL:HB	31:29:34:GLN:HG2	1.68	0.76
32:2a:426:G:OP1	35:2d:38:TYR:OH	2.03	0.76
32:2a:582:U:OP2	32:2a:758:G:N1	2.19	0.76
33:2b:28:PHE:HD1	33:2b:194:PRO:HG3	1.49	0.76
1:2A:2103:C:H42	1:2A:2186:G:H1	1.34	0.75
32:2a:1127:G:H1	32:2a:1145:C:H42	1.33	0.75
32:1a:1009:G:O6	32:1a:1020:U:C2	2.40	0.75
32:1a:1030:C:N3	32:1a:1031:G:N2	2.33	0.75
1:2A:2145:C:O2'	1:2A:2147:G:N7	2.19	0.75
1:2A:1801:G:OP2	3:2D:154:LYS:NZ	2.19	0.75
32:2a:1089:G:N2	32:2a:1096:C:N3	2.30	0.75
1:2A:2073:C:HO2'	1:2A:2598:A:HO2'	1.25	0.75
26:14:53:GLU:HB2	26:14:55:ARG:H	1.50	0.75
2:2B:22:U:H3	2:2B:61:G:H1	1.35	0.75
54:2y:5:G:H1	54:2y:68:C:N4	1.84	0.75
32:1a:78:G:N2	32:1a:91:C:N3	2.34	0.75
1:2A:2528:U:H5''	31:29:31:LYS:HE2	1.67	0.75
44:1m:3:ARG:NH2	44:1m:9:ILE:O	2.19	0.75
37:2f:67:MET:HE1	37:2f:75:LEU:HD22	1.69	0.75
18:1W:78:GLU:OE2	18:1W:99:ARG:NH1	2.18	0.74
33:2b:124:SER:HB2	33:2b:125:PRO:HD3	1.69	0.74
32:1a:1015:A:N3	32:1a:1218:C:O2'	2.20	0.74
1:1A:692:C:O2'	3:1D:38:LYS:NZ	2.20	0.74
1:1A:2685:G:N2	1:1A:2724:C:O2	2.20	0.74
32:1a:153:C:H42	32:1a:168:G:H1	1.36	0.74
8:2I:26:ALA:HA	8:2I:30:LEU:HB2	1.70	0.74
1:2A:2099:U:H3	1:2A:2190:G:H1	0.81	0.74
32:1a:1124:G:H1	32:1a:1149:C:H42	1.34	0.74
32:2a:696:A:N3	32:2a:786:G:O2'	2.20	0.74
1:1A:882:G:H1	1:1A:894:C:H42	1.35	0.74
32:2a:501:C:OP1	43:2I:117:ARG:NH2	2.21	0.74
1:1A:2683:C:O2	10:1O:70:LYS:NZ	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1131:G:OP1	40:1i:20:ARG:NH2	2.21	0.73
32:2a:501:C:H2'	32:2a:502:G:H8	1.52	0.73
1:1A:2183:C:H2'	1:1A:2184:G:H8	1.53	0.73
32:1a:183:G:N2	32:1a:223:U:O2'	2.20	0.73
55:2x:3:C:N4	55:2x:70:G:H1	1.86	0.73
1:1A:192:C:OP1	60:1A:4536:HOH:O	2.06	0.73
32:1a:600:C:H42	32:1a:638:G:H1	1.36	0.73
1:2A:1218:C:H42	1:2A:1231:G:H1	1.36	0.73
23:21:50:ARG:HG2	23:21:59:THR:HG22	1.70	0.73
32:2a:1036:G:OP2	32:2a:1037:C:N4	2.22	0.73
35:2d:11:LEU:HG	35:2d:66:ARG:HD3	1.70	0.73
36:2e:102:ALA:O	36:2e:107:ARG:NH2	2.20	0.73
18:2W:12:ILE:O	18:2W:101:SER:OG	2.07	0.73
1:2A:307:G:N1	1:2A:310:A:OP2	2.21	0.73
15:2T:26:ASP:OD1	15:2T:120:ARG:NH2	2.18	0.73
1:1A:2660:A:N7	7:1H:175:LYS:NZ	2.36	0.73
27:25:40:LYS:NZ	27:25:44:THR:O	2.22	0.73
41:2j:38:ILE:HD11	41:2j:71:LEU:HD23	1.70	0.73
1:1A:2466:C:H5''	31:19:6:SER:HB3	1.71	0.73
1:2A:1264:G:OP1	27:25:19:ARG:NH1	2.19	0.73
54:2y:19:G:H1	54:2y:56:C:N4	1.87	0.73
1:2A:2129:C:N4	1:2A:2159:G:H1	1.86	0.72
15:2T:41:ARG:NH2	32:2a:346:G:OP1	2.21	0.72
32:2a:328:C:H4'	32:2a:329:A:H5'	1.71	0.72
32:2a:1029:C:N3	32:2a:1032:G:N2	2.36	0.72
1:2A:2133:G:O2'	1:2A:2157:G:N2	2.21	0.72
11:1P:42:SER:O	60:1P:308:HOH:O	2.06	0.72
36:1e:12:LEU:HB3	36:1e:31:LEU:HB2	1.71	0.72
1:1A:1568:G:H5''	3:1D:61:LEU:HD13	1.72	0.72
32:1a:159:G:N2	32:1a:162:A:OP2	2.23	0.72
32:1a:407:G:H5''	35:1d:115:ARG:HG2	1.71	0.72
43:1l:71:PRO:O	43:1l:102:ARG:NH1	2.22	0.72
1:1A:613:G:N2	1:1A:614(C):A:O2'	2.22	0.72
54:2y:5:G:N2	54:2y:68:C:N3	2.38	0.72
54:2y:18:G:N2	54:2y:55:PSU:N3	2.37	0.72
1:1A:994:C:OP1	16:1U:53:ARG:NH2	2.22	0.72
32:1a:1503:A:O2'	53:1v:13:A:N1	2.22	0.72
1:2A:309:G:N3	1:2A:329:G:O2'	2.23	0.72
19:2X:8:ILE:O	24:22:36:ARG:NH2	2.23	0.72
48:2q:9:VAL:HG12	48:2q:56:VAL:HG22	1.71	0.72
25:13:10:LYS:NZ	25:13:15:TYR:OH	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2j:47:PHE:HB2	41:2j:63:PHE:HB2	1.72	0.72
26:14:16:CYS:SG	26:14:17:GLY:N	2.62	0.72
32:1a:78:G:N1	32:1a:91:C:N4	2.37	0.72
32:1a:636:U:H2'	32:1a:637:G:H8	1.54	0.72
1:2A:1920:4OC:HM22	1:2A:1921:G:H5'	1.72	0.72
32:2a:765:G:H1	32:2a:812:C:HO2'	1.36	0.72
1:1A:1007:C:OP1	9:1N:37:LYS:NZ	2.17	0.72
1:1A:2267:A:H5''	1:1A:2268:A:H5'	1.71	0.72
1:2A:642:G:N2	1:2A:645:C:OP2	2.23	0.72
32:2a:913:A:OP1	43:2l:46:LYS:NZ	2.23	0.72
1:2A:1859:A:N6	1:2A:1883:G:O2'	2.23	0.71
2:2B:71:C:O2	2:2B:106:G:N2	2.21	0.71
32:2a:1119:C:H2'	32:2a:1120:G:C8	2.25	0.71
32:2a:1329:A:OP2	52:2u:7:ARG:NH1	2.22	0.71
33:2b:78:GLN:HE22	33:2b:95:GLN:HG3	1.55	0.71
54:2y:49:G:O6	54:2y:65:C:N3	2.23	0.71
32:1a:1305:G:H22	32:1a:1331:G:H1'	1.55	0.71
31:29:22:ARG:HH11	31:29:35:ARG:HD2	1.54	0.71
32:1a:951:G:N7	44:1m:102:ARG:NH2	2.37	0.71
32:1a:1279:A:OP2	41:1j:9:ARG:NH1	2.23	0.71
54:1w:2:G:O6	54:1w:71:C:N3	2.24	0.71
1:2A:615:G:OP2	5:2F:43:LYS:NZ	2.22	0.71
1:2A:1771:C:OP1	60:2A:6246:HOH:O	2.08	0.71
32:2a:1010:G:N2	32:2a:1020:U:O2'	2.23	0.71
43:2l:71:PRO:O	43:2l:102:ARG:NH1	2.24	0.71
1:1A:1900:A:OP2	60:1A:6567:HOH:O	2.08	0.71
32:1a:1030:C:N4	32:1a:1031:G:N1	2.37	0.71
1:2A:2365:G:O6	30:28:43:GLN:NE2	2.23	0.71
32:1a:34:C:H2'	32:1a:35:G:H8	1.55	0.71
32:2a:974:A:OP2	45:2n:29:ARG:NH2	2.23	0.71
1:1A:2612:C:OP2	27:15:2:ALA:N	2.24	0.71
1:2A:2592:G:N7	60:2A:4506:HOH:O	2.24	0.71
32:1a:975:A:H4'	32:1a:976:G:H5''	1.71	0.71
32:1a:1385:G:N7	60:1a:3817:HOH:O	2.23	0.71
26:24:16:CYS:SG	26:24:17:GLY:N	2.64	0.71
32:1a:1295:G:O2'	44:1m:14:ARG:NH1	2.24	0.71
54:1y:5:G:H1	54:1y:68:C:N4	1.89	0.71
1:1A:2409:G:N7	60:1A:4861:HOH:O	2.24	0.70
32:1a:1305:G:N2	32:1a:1331:G:H1'	2.06	0.70
32:2a:353:A:OP1	60:2a:1946:HOH:O	2.09	0.70
32:2a:1226:C:H41	44:2m:104:ARG:HG2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1997:G:OP2	60:1A:6076:HOH:O	2.09	0.70
1:1A:2296:U:OP2	14:1S:9:ARG:NH2	2.24	0.70
6:1G:43:LEU:HD11	6:1G:153:ARG:HD2	1.73	0.70
32:1a:437:U:H5'	35:1d:155:LEU:HD21	1.71	0.70
1:2A:481:G:N7	60:2A:3916:HOH:O	2.24	0.70
32:2a:366:C:O2'	32:2a:394:G:N2	2.24	0.70
1:1A:2138:C:N3	1:1A:2153:G:N2	2.37	0.70
36:1e:85:GLY:O	36:1e:87:SER:N	2.20	0.70
3:2D:202:LYS:NZ	32:2a:773:G:O2'	2.24	0.70
32:2a:826:C:H4'	39:2h:12:ARG:HG3	1.73	0.70
32:2a:997:U:H3	32:2a:1044:A:N6	1.89	0.70
1:1A:2067:G:O6	1:1A:2443:C:N4	2.20	0.70
32:1a:1128:C:N4	32:1a:1144:G:H1	1.90	0.70
1:2A:1568:G:H5''	3:2D:61:LEU:HD13	1.73	0.70
10:2O:35:VAL:HG11	10:2O:103:ALA:HB3	1.73	0.70
32:2a:181:G:H4'	32:2a:182:U:H5'	1.74	0.70
1:1A:2124:G:H1	1:1A:2174:C:H42	1.38	0.70
4:1E:11:MET:HG2	4:1E:24:THR:HB	1.73	0.70
36:1e:148:VAL:HG21	39:1h:107:LEU:HB3	1.73	0.70
1:1A:218:A:N7	60:1A:6409:HOH:O	2.23	0.70
6:1G:142:PRO:HB2	26:14:31:ILE:HG21	1.71	0.70
1:2A:907:U:O2'	12:2Q:101:ARG:NH2	2.24	0.70
6:2G:18:GLU:HG2	6:2G:175:LEU:HD21	1.74	0.70
60:1A:6928:HOH:O	55:1x:75:C:OP1	2.10	0.70
33:1b:124:SER:HB3	33:1b:125:PRO:HD3	1.74	0.70
1:2A:2150:U:H2'	1:2A:2151:G:H8	1.55	0.70
33:2b:16:HIS:HB2	33:2b:204:ASN:HB3	1.74	0.70
55:2x:14:A:N6	55:2x:21:A:H2	1.88	0.70
1:1A:197:A:N6	1:1A:2430:A:O2'	2.25	0.70
1:1A:1918:A:N6	60:1A:6381:HOH:O	2.24	0.70
11:1P:47:ASP:OD2	11:1P:49:ARG:NH2	2.24	0.70
1:2A:1385:G:O2'	1:2A:1396:U:O2	2.10	0.70
1:2A:2677:G:N3	60:2A:3915:HOH:O	2.24	0.70
32:2a:1117:G:N2	32:2a:1180:A:O2'	2.25	0.70
32:2a:1129:C:O2'	32:2a:1130:A:N7	2.25	0.70
1:1A:1993:U:OP2	60:1E:419:HOH:O	2.10	0.70
33:1b:22:LYS:HG2	33:1b:40:HIS:HE1	1.56	0.70
37:1f:28:ARG:O	37:1f:32:ASN:ND2	2.24	0.70
1:2A:1356:G:O6	60:2A:6213:HOH:O	2.09	0.70
1:2A:2296:U:OP2	14:2S:9:ARG:NH2	2.24	0.70
10:1O:75:SER:OG	15:1T:74:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:27:THR:HG23	19:1X:80:ILE:HG12	1.74	0.69
32:1a:642:A:N3	39:1h:113:SER:OG	2.24	0.69
54:1w:54:5MU:O2	54:1w:58:A:N7	2.24	0.69
1:2A:1376:C:OP2	60:2A:4188:HOH:O	2.10	0.69
1:2A:2198:A:OP1	8:2I:33:ARG:NH2	2.25	0.69
1:2A:2736:G:N2	1:2A:2768:C:O2	2.15	0.69
13:2R:67:LEU:HD13	13:2R:76:VAL:HG21	1.74	0.69
35:2d:53:ASP:HB3	35:2d:57:ARG:HH12	1.56	0.69
1:1A:2125:G:N1	1:1A:2172:U:OP1	2.25	0.69
1:2A:1015:G:H2'	1:2A:1016:G:H8	1.57	0.69
25:13:8:LEU:HG	25:13:31:LEU:HD23	1.75	0.69
32:1a:535:A:OP1	60:1a:3844:HOH:O	2.11	0.69
60:2A:4476:HOH:O	3:2D:237:GLU:OE1	2.11	0.69
1:2A:855:G:O2'	22:20:27:GLU:OE1	2.09	0.69
33:1b:10:LEU:HG	33:1b:48:MET:HE1	1.73	0.69
1:2A:271(Z):C:OP2	60:2A:5971:HOH:O	2.11	0.69
1:1A:987:G:O2'	1:1A:1000:A:N3	2.25	0.69
4:1E:119:ARG:HD2	4:1E:160:TYR:HB2	1.75	0.69
21:2Z:5:LEU:HB2	21:2Z:47:VAL:HG21	1.75	0.69
40:2i:46:ALA:HB2	40:2i:74:ILE:HG23	1.73	0.69
1:1A:769:G:N7	60:1A:6615:HOH:O	2.24	0.69
1:1A:1058:G:N2	1:1A:1080:C:N3	2.40	0.69
1:2A:760:G:OP1	60:2A:6024:HOH:O	2.10	0.69
1:2A:2129:C:H42	1:2A:2159:G:H1	1.40	0.69
2:2B:38:C:H2'	2:2B:39:A:H8	1.56	0.69
41:2j:5:ARG:N	60:2j:303:HOH:O	2.26	0.69
1:1A:80:G:N7	60:1A:5405:HOH:O	2.25	0.69
1:1A:968:G:N7	60:1A:4113:HOH:O	2.26	0.69
1:1A:1514:U:O2'	1:1A:1558:A:OP2	2.10	0.69
32:1a:1030:C:H42	32:1a:1031:G:H1	1.40	0.69
1:2A:2137:C:H42	1:2A:2154:G:H1	1.38	0.69
32:2a:1134:G:H1	32:2a:1140:C:N4	1.90	0.69
1:1A:1971:A:OP2	3:1D:242:ARG:NH2	2.26	0.69
1:2A:392:C:H5''	1:2A:409:C:H5''	1.75	0.69
1:2A:1816:G:O6	3:2D:35:LYS:NZ	2.23	0.69
1:1A:1338:G:O6	19:1X:62:LYS:NZ	2.26	0.68
5:2F:64:ILE:HG21	5:2F:78:ILE:HG23	1.75	0.68
1:2A:2507:C:O2'	54:2w:74:C:N4	2.26	0.68
4:2E:34:VAL:HG21	4:2E:78:LEU:HD23	1.75	0.68
32:2a:1020:U:H2'	32:2a:1021:G:C8	2.27	0.68
32:1a:1314:C:OP2	50:1s:4:SER:OG	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:1t:57:ARG:HH12	51:1t:100:ILE:HD12	1.58	0.68
1:2A:1568:G:H5'	3:2D:60:ARG:HA	1.76	0.68
1:2A:2171:A:N3	1:2A:2172:U:N3	2.41	0.68
1:2A:2261:C:OP1	22:20:19:LYS:NZ	2.24	0.68
32:2a:442:C:H42	32:2a:492:G:H1	1.41	0.68
32:2a:837:G:H1	32:2a:849:C:H42	1.41	0.68
32:2a:952:U:H4'	32:2a:964:A:H61	1.57	0.68
38:2g:69:VAL:HG22	38:2g:135:VAL:HG22	1.76	0.68
32:1a:1030:C:N4	32:1a:1031:G:H1	1.90	0.68
60:1a:3769:HOH:O	52:1u:5:ASP:OD2	2.11	0.68
32:2a:1144:G:H21	32:2a:1146:A:H62	1.39	0.68
32:2a:1163:C:H42	32:2a:1173:G:H1	1.42	0.68
4:1E:5:LEU:HD21	4:1E:79:ARG:HB2	1.74	0.68
6:1G:122:PRO:HB3	6:1G:170:ARG:HH12	1.57	0.68
21:1Z:156:LYS:HE3	21:1Z:158:PRO:HD3	1.75	0.68
32:1a:486:U:H2'	32:1a:487:A:H8	1.59	0.68
32:2a:656:C:O2'	46:2o:28:GLN:OE1	2.11	0.68
1:1A:1859:A:N6	1:1A:1883:G:O2'	2.27	0.68
39:1h:11:THR:O	39:1h:15:ASN:ND2	2.26	0.68
1:2A:361:G:N7	60:2A:5854:HOH:O	2.27	0.68
1:2A:807:U:OP2	11:2P:41:ARG:NH2	2.27	0.68
1:2A:2349:G:H1	1:2A:2368:C:H42	1.39	0.68
32:2a:1190:G:H5'	34:2c:176:HIS:CE1	2.29	0.68
32:2a:612:C:H42	32:2a:628:G:H1	1.41	0.68
2:1B:92:C:OP1	21:1Z:79:ARG:NH1	2.26	0.68
21:1Z:157:LEU:HB3	21:1Z:161:VAL:HG11	1.75	0.68
32:1a:1060:C:OP1	45:1n:45:ARG:NH2	2.27	0.68
1:2A:2114:A:N6	1:2A:2119:A:N7	2.41	0.68
32:2a:266:G:H5''	32:2a:268:C:H41	1.59	0.68
35:2d:150:GLU:HA	35:2d:153:ARG:HG3	1.76	0.68
1:1A:2011:U:OP1	18:1W:42:ARG:NH1	2.27	0.68
32:1a:1518:MA6:N6	32:1a:1519:MA6:H103	2.09	0.68
32:2a:533:A:O2'	32:2a:535:A:OP2	2.12	0.68
32:2a:1187:G:H4'	40:2i:111:ARG:HH11	1.59	0.68
12:1Q:138:ASP:N	12:1Q:138:ASP:OD1	2.25	0.68
47:2p:14:ASN:OD1	47:2p:42:ARG:NH2	2.26	0.68
1:1A:1082:U:C4	1:1A:1086:A:N1	2.62	0.67
1:1A:1568:G:H4'	3:1D:59:LYS:HG3	1.77	0.67
3:1D:26:LYS:NZ	3:1D:30:GLU:OE1	2.27	0.67
17:1V:40:LEU:HB2	17:1V:46:VAL:HG23	1.75	0.67
20:1Y:102:CYS:SG	20:1Y:103:GLY:N	2.67	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2O:78:ARG:NH2	15:2T:73:GLU:OE1	2.25	0.67
1:2A:631:A:OP1	11:2P:65:ARG:NH1	2.26	0.67
1:2A:641:C:H42	1:2A:647:G:H1	1.42	0.67
1:1A:1453:U:OP1	13:1R:77:ARG:NH1	2.25	0.67
1:2A:1449:A:O2'	1:2A:1529:G:N2	2.27	0.67
34:2c:164:ARG:NH1	34:2c:166:GLU:OE2	2.27	0.67
38:2g:105:VAL:O	38:2g:109:ASN:ND2	2.25	0.67
54:2w:2:G:O6	54:2w:71:C:N3	2.27	0.67
1:1A:586:A:H5'	5:1F:89:VAL:HG21	1.76	0.67
1:1A:601:C:O2'	1:1A:605:C:OP1	2.09	0.67
32:1a:894:G:OP2	60:1a:3853:HOH:O	2.13	0.67
54:1y:19:G:N1	54:1y:56:C:N4	2.42	0.67
1:2A:2104:G:N2	1:2A:2185:C:N3	2.34	0.67
21:2Z:156:LYS:HE3	21:2Z:158:PRO:HD3	1.76	0.67
32:2a:952:U:H2'	32:2a:953:G:H8	1.60	0.67
1:1A:2285:C:OP2	28:16:6:ARG:NH1	2.27	0.67
60:1A:7173:HOH:O	32:1a:1515:C:OP1	2.12	0.67
8:1I:92:VAL:HG13	8:1I:120:ILE:HB	1.76	0.67
1:2A:72:U:OP1	60:2A:5997:HOH:O	2.12	0.67
1:2A:2055:C:N3	60:2A:5736:HOH:O	2.28	0.67
1:2A:2682:U:OP2	60:2A:4295:HOH:O	2.12	0.67
32:2a:553:A:H5''	43:2l:24:VAL:HG21	1.74	0.67
32:1a:200:G:H1	32:1a:217:C:N4	1.92	0.67
1:2A:307:G:H21	1:2A:330:A:H62	1.43	0.67
1:2A:1783:A:OP1	60:2A:3903:HOH:O	2.13	0.67
1:2A:1857:G:O2'	1:2A:1885:A:N6	2.28	0.67
1:2A:2079:U:O3'	23:21:35:THR:OG1	2.12	0.67
7:2H:20:ALA:HB3	7:2H:23:ARG:HG3	1.77	0.67
1:2A:18:C:OP2	60:2A:3901:HOH:O	2.11	0.67
1:2A:1599:C:OP1	60:2A:3902:HOH:O	2.12	0.67
33:2b:88:ALA:HB2	33:2b:219:VAL:HG13	1.77	0.67
1:1A:2508:G:H5'	54:1w:74:C:H42	1.60	0.67
1:2A:1890:A:OP2	60:2A:5311:HOH:O	2.13	0.67
32:1a:1027:C:N4	32:1a:1034:G:C6	2.63	0.67
1:2A:987:G:O2'	1:2A:1000:A:N3	2.26	0.67
32:2a:419:C:OP1	32:2a:513:C:O2'	2.13	0.67
1:1A:1174:A:H4'	1:1A:1175:U:OP1	1.93	0.66
1:1A:2250:G:OP1	12:1Q:85:LYS:NZ	2.27	0.66
16:2U:89:GLU:HB3	17:2V:38:LEU:HD21	1.76	0.66
45:2n:7:ILE:HG13	45:2n:23:ARG:HG2	1.77	0.66
32:1a:68:G:H1	32:1a:101:A:H61	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:943:U:H1'	40:1i:124:GLN:HE22	1.60	0.66
44:1m:9:ILE:HB	44:1m:18:ALA:HB1	1.78	0.66
54:1w:6:A:N6	54:1w:67:U:O4	2.27	0.66
32:2a:881:G:OP1	43:2l:12:ARG:NH2	2.27	0.66
32:2a:1271:G:C2	32:2a:1272:G:N7	2.63	0.66
44:2m:3:ARG:NH2	44:2m:9:ILE:O	2.28	0.66
1:1A:942:G:O2'	1:1A:1189:A:N3	2.27	0.66
38:1g:151:TYR:HB3	38:1g:154:TYR:HD2	1.60	0.66
32:2a:34:C:H2'	32:2a:35:G:H8	1.60	0.66
32:2a:954:G:H1	32:2a:1226:C:H42	1.42	0.66
1:1A:2140:C:N3	1:1A:2151:G:O6	2.29	0.66
13:1R:67:LEU:HD13	13:1R:76:VAL:HG21	1.77	0.66
1:2A:2547:U:O2	10:2O:23:ARG:NH2	2.28	0.66
1:2A:2683:C:O2	10:2O:70:LYS:NZ	2.21	0.66
32:2a:939:G:H1	32:2a:1344:C:H42	1.43	0.66
16:1U:75:ASN:OD1	16:1U:78:THR:OG1	2.12	0.66
32:1a:406:G:H5'	35:1d:5:ILE:HD11	1.76	0.66
35:1d:122:ARG:NH1	35:1d:134:ASP:OD2	2.28	0.66
1:2A:821:A:N1	60:2A:4680:HOH:O	2.28	0.66
38:2g:47:CYS:HA	38:2g:50:ILE:HG22	1.77	0.66
44:2m:91:ARG:NH1	44:2m:97:PRO:O	2.29	0.66
1:1A:2444:G:N7	60:1A:4665:HOH:O	2.28	0.66
11:1P:63:PRO:HB2	30:18:30:ARG:HH21	1.59	0.66
42:1k:33:THR:HA	42:1k:39:PRO:HA	1.77	0.66
54:1w:45:G:O2'	54:1w:46:7MG:OP1	2.14	0.66
16:2U:73:GLY:O	60:2U:301:HOH:O	2.14	0.66
32:2a:9:G:H2'	32:2a:10:A:H8	1.61	0.66
1:1A:881:G:N2	1:1A:897:C:N3	2.43	0.66
1:1A:1253:A:OP1	60:1A:6970:HOH:O	2.14	0.66
1:1A:1398:C:OP1	19:1X:53:LYS:NZ	2.29	0.66
20:1Y:15:VAL:HG21	20:1Y:42:VAL:HG11	1.76	0.66
1:2A:248:G:OP1	60:2A:6306:HOH:O	2.13	0.66
1:1A:2469:A:O3'	12:1Q:56:ARG:NH2	2.28	0.66
17:2V:27:ALA:O	17:2V:64:HIS:NE2	2.28	0.66
32:2a:1030(A):G:N2	32:2a:1030(D):A:OP2	2.22	0.66
60:1A:6687:HOH:O	19:1X:56:THR:O	2.14	0.66
3:1D:41:GLY:O	3:1D:43:ARG:NH1	2.28	0.66
12:1Q:109:VAL:HG13	12:1Q:113:GLN:HB3	1.78	0.66
1:1A:1010:A:OP2	60:1A:5436:HOH:O	2.13	0.66
32:1a:1391:U:H2'	32:1a:1392:G:C8	2.31	0.66
40:1i:65:VAL:HG11	40:1i:73:GLN:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1367:C:OP2	40:2i:112:LYS:NZ	2.28	0.66
1:1A:449:A:N7	60:1A:6875:HOH:O	2.28	0.65
21:2Z:4:ARG:HG2	21:2Z:58:VAL:HB	1.77	0.65
32:2a:297:G:O2'	32:2a:299:G:N7	2.27	0.65
32:1a:559:A:H4'	32:1a:560:U:H3'	1.78	0.65
33:1b:87:ARG:NH2	33:1b:220:ASP:OD1	2.29	0.65
1:2A:424:G:N7	60:2A:6265:HOH:O	2.29	0.65
1:2A:2448:A:OP2	60:2A:5622:HOH:O	2.13	0.65
1:2A:2526:G:N3	31:29:1:MET:N	2.45	0.65
4:2E:116:VAL:HG21	4:2E:138:PRO:HB3	1.77	0.65
32:2a:539:A:OP2	43:2l:115:LYS:NZ	2.27	0.65
32:2a:1165:C:H42	32:2a:1171:G:H1	1.43	0.65
32:2a:1203:C:H2'	32:2a:1204:A:H8	1.61	0.65
1:1A:764:A:OP1	3:1D:208:LYS:NZ	2.29	0.65
1:1A:1541:G:OP2	60:1A:6220:HOH:O	2.12	0.65
24:12:1:MET:SD	24:12:56:GLN:NE2	2.70	0.65
32:1a:263:A:OP1	51:1t:79:ARG:NH1	2.29	0.65
1:2A:615:G:OP1	5:2F:40:GLN:NE2	2.27	0.65
1:2A:1753:G:H5''	15:2T:95:ARG:HD2	1.77	0.65
1:2A:2690:C:OP2	13:2R:17:ARG:NH2	2.30	0.65
1:1A:2328:A:H2'	1:1A:2329:G:C8	2.31	0.65
1:2A:1223:G:N2	1:2A:1226:A:OP2	2.22	0.65
32:2a:967:5MC:H2'	32:2a:968:A:C8	2.32	0.65
40:2i:15:ALA:HB2	40:2i:65:VAL:HG13	1.77	0.65
1:1A:944:G:N7	60:1A:4117:HOH:O	2.29	0.65
1:1A:2206:G:H3'	1:1A:2207:G:C8	2.32	0.65
32:1a:1411:C:N4	60:1a:3759:HOH:O	2.30	0.65
1:2A:1443:G:N7	60:2A:5809:HOH:O	2.29	0.65
32:2a:1228:C:H5'	44:2m:108:ARG:HH22	1.62	0.65
35:2d:194:LEU:HD23	35:2d:196:LEU:HD13	1.77	0.65
44:2m:11:ARG:HA	44:2m:45:VAL:HB	1.77	0.65
1:1A:615:G:OP2	5:1F:43:LYS:NZ	2.30	0.65
32:1a:877:C:H5''	39:1h:88:LYS:HD3	1.76	0.65
32:1a:1182:G:H4'	32:1a:1183:A:H5''	1.78	0.65
41:1j:38:ILE:HD11	41:1j:71:LEU:HD23	1.79	0.65
1:2A:995:C:O2	9:2N:3:THR:OG1	2.12	0.65
1:2A:2010:G:H5''	18:2W:42:ARG:HB2	1.79	0.65
1:2A:2027:G:N7	60:2A:4453:HOH:O	2.30	0.65
1:2A:2587:A:OP1	60:2A:4475:HOH:O	2.14	0.65
32:2a:953:G:H5'	32:2a:965:A:H61	1.60	0.65
32:2a:1137:C:H5''	32:2a:1138:G:OP1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:2w:21:A:N6	54:2w:46:7MG:N3	2.44	0.65
1:1A:576:U:H2'	1:1A:577:G:C8	2.32	0.65
1:1A:859:G:O2'	1:1A:916:G:O6	2.15	0.65
32:1a:1373:G:H5''	38:1g:36:LYS:HE2	1.78	0.65
54:1y:44:G:H3'	54:1y:45:G:H8	1.61	0.65
1:2A:1568:G:N7	60:2A:5771:HOH:O	2.29	0.65
3:2D:242:ARG:HD3	3:2D:246:PRO:HG3	1.79	0.65
32:2a:966:M2G:HM23	32:2a:967:5MC:H1'	1.78	0.65
32:2a:1320:C:H42	50:2s:36:ARG:HE	1.44	0.65
33:2b:100:GLY:N	33:2b:176:GLU:OE2	2.25	0.65
1:1A:2278:A:OP2	22:10:12:ASN:ND2	2.30	0.65
1:1A:2791:C:H2'	1:1A:2792:G:H8	1.60	0.65
4:1E:144:ARG:O	4:1E:146:THR:N	2.27	0.65
35:1d:18:LYS:HE2	35:1d:33:MET:HB3	1.78	0.65
1:2A:975:C:OP1	60:2A:5954:HOH:O	2.15	0.65
1:2A:2721:A:OP1	60:2A:4295:HOH:O	2.14	0.65
33:2b:98:LEU:HB2	33:2b:101:MET:HG3	1.77	0.65
1:1A:548:A:H61	17:1V:19:LYS:H	1.44	0.65
32:1a:328:C:H4'	32:1a:329:A:H5'	1.78	0.65
32:1a:1358:U:OP2	32:1a:1359:C:N4	2.27	0.65
32:2a:35:G:O2'	43:2l:118:SER:O	2.13	0.65
32:2a:352:C:O2'	32:2a:354:G:OP1	2.12	0.65
40:2i:28:VAL:HG22	40:2i:63:ILE:HB	1.78	0.65
32:1a:688:G:H2'	32:1a:689:C:H6	1.60	0.65
1:2A:605:C:O2	1:2A:657:U:O2'	2.14	0.65
4:2E:36:ARG:HG2	4:2E:47:VAL:HG12	1.79	0.65
32:2a:1240:U:N3	38:2g:30:ILE:O	2.24	0.65
34:2c:6:HIS:HD2	34:2c:8:ILE:H	1.45	0.65
1:1A:652(D):C:H42	1:1A:652(U):G:H1	1.44	0.64
1:1A:1094:U:N3	1:1A:1097:U:OP2	2.30	0.64
32:1a:330:C:O2	60:1a:3526:HOH:O	2.12	0.64
32:1a:1086:U:H3	32:1a:1099:G:H22	1.43	0.64
33:2b:167:PRO:HG2	33:2b:192:SER:HB3	1.79	0.64
34:2c:18:TRP:O	34:2c:21:ARG:NH2	2.30	0.64
1:1A:2553:G:N7	60:1A:6516:HOH:O	2.29	0.64
1:2A:195:A:OP1	11:2P:46:LYS:NZ	2.30	0.64
1:2A:2017:U:OP2	60:2A:4283:HOH:O	2.15	0.64
1:2A:2666:C:N3	7:2H:152:ARG:NH2	2.45	0.64
13:2R:29:LEU:HB3	13:2R:75:LEU:HD11	1.79	0.64
32:1a:1194:U:H4'	36:1e:22:GLY:HA2	1.78	0.64
1:2A:570:G:O6	60:2A:5975:HOH:O	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:2c:78:GLY:HA3	34:2c:83:ARG:H	1.62	0.64
7:1H:164:TYR:HB2	7:1H:167:GLU:HB2	1.79	0.64
9:1N:34:LEU:HD21	9:1N:120:LEU:HB2	1.77	0.64
1:2A:827:U:OP1	60:2A:4985:HOH:O	2.14	0.64
32:2a:107:G:N7	51:2t:15:ARG:NH2	2.46	0.64
32:2a:373:A:H61	32:2a:391:G:H1'	1.62	0.64
1:1A:1720:U:H3	1:1A:1742:G:H1	1.44	0.64
6:1G:18:GLU:HG3	6:1G:22:ARG:HD2	1.79	0.64
32:1a:1027:C:N4	32:1a:1034:G:N1	2.45	0.64
39:1h:14:ARG:NH1	39:1h:83:ILE:O	2.30	0.64
1:2A:801:G:O6	5:2F:53:THR:OG1	2.16	0.64
32:2a:922:G:H4'	36:2e:20:GLN:HA	1.79	0.64
11:1P:59:LEU:HD11	30:18:10:ALA:HB2	1.78	0.64
1:1A:1058:G:N1	1:1A:1080:C:N4	2.46	0.64
11:1P:121:LYS:HE2	11:1P:123:LEU:HD11	1.79	0.64
32:1a:34:C:H2'	32:1a:35:G:C8	2.33	0.64
41:1j:5:ARG:HD3	41:1j:71:LEU:HD11	1.79	0.64
43:1l:70:ILE:HG12	43:1l:100:ILE:HD12	1.79	0.64
1:2A:2674:G:H5'	10:2O:26:LYS:HE2	1.80	0.64
34:2c:109:PRO:HA	34:2c:115:LEU:HD23	1.80	0.64
40:2i:8:GLY:HA2	40:2i:79:LEU:HD23	1.80	0.64
1:1A:880:G:H2'	1:1A:881:G:H8	1.63	0.64
1:1A:2685:G:OP2	15:1T:51:ARG:NH2	2.31	0.64
33:1b:74:LYS:HD2	33:1b:166:ASP:HB2	1.79	0.64
1:1A:975:C:O2	60:1A:5969:HOH:O	2.14	0.64
6:1G:125:PHE:O	60:1G:304:HOH:O	2.15	0.64
7:1H:137:ASP:HB3	7:1H:140:LYS:HB3	1.80	0.64
1:2A:854:G:H2'	1:2A:855:G:H8	1.63	0.64
1:2A:1827:C:OP2	3:2D:222:ARG:NH1	2.29	0.64
1:2A:2037:G:N7	60:2A:4814:HOH:O	2.29	0.64
39:2h:21:LYS:O	39:2h:65:TYR:OH	2.12	0.64
54:2y:50:G:N2	54:2y:64:U:O2	2.28	0.64
1:1A:1850:G:H1	1:1A:1892:C:H42	1.47	0.64
1:1A:2484:G:H1'	12:1Q:124:LYS:HG3	1.79	0.64
38:1g:86:GLN:HE22	54:1y:32:C:H1'	1.63	0.64
4:2E:28:ALA:HB3	4:2E:93:VAL:HG12	1.80	0.64
32:2a:527:7MG:O6	43:2l:49:ASN:ND2	2.29	0.64
32:2a:588:G:OP2	60:2a:1953:HOH:O	2.14	0.64
32:2a:1404:5MC:N4	32:2a:1497:G:H1	1.95	0.64
3:2D:106:ILE:HD11	3:2D:144:ALA:HB2	1.80	0.63
32:2a:263:A:OP1	51:2t:79:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:353:A:N7	60:2a:1948:HOH:O	2.30	0.63
32:2a:401:C:OP2	35:2d:73:ARG:NH2	2.30	0.63
32:1a:324:G:N2	32:1a:327:A:OP2	2.31	0.63
10:2O:48:PRO:HB3	32:2a:1422:G:H5''	1.80	0.63
32:2a:1368:G:H5'	40:2i:112:LYS:HB3	1.81	0.63
34:2c:152:ILE:HG13	34:2c:167:TRP:HB3	1.79	0.63
1:1A:191:A:N1	60:1A:5471:HOH:O	2.30	0.63
1:1A:2821:A:OP1	4:1E:110:GLY:N	2.26	0.63
32:1a:78:G:C6	32:1a:91:C:N4	2.67	0.63
1:2A:2163:C:OP1	1:2A:2165:G:N2	2.31	0.63
1:2A:2327:A:H2'	1:2A:2328:A:C8	2.33	0.63
6:2G:127:GLY:N	6:2G:166:ASP:OD2	2.31	0.63
32:2a:718:G:O6	49:2r:74:ARG:NH1	2.32	0.63
32:2a:737:A:H1'	37:2f:73:ASN:HD21	1.63	0.63
33:2b:189:ASP:OD1	33:2b:189:ASP:N	2.29	0.63
1:1A:272(F):C:H42	1:1A:363(D):G:H1	1.46	0.63
35:1d:105:VAL:HG13	35:1d:110:PHE:HB2	1.79	0.63
12:2Q:109:VAL:HG13	12:2Q:113:GLN:HB3	1.80	0.63
32:2a:779:C:O2'	42:2k:120:ARG:NH1	2.28	0.63
32:2a:1244:C:N3	32:2a:1293:G:N2	2.37	0.63
32:2a:1272:G:H21	32:2a:1273:G:H1'	1.63	0.63
32:1a:1516:G:N2	32:1a:1519:MA6:OP2	2.31	0.63
44:1m:82:MET:O	44:1m:93:ARG:NH2	2.31	0.63
1:2A:2805:G:H2'	1:2A:2807:G:C8	2.34	0.63
2:2B:43:C:OP1	26:24:6:HIS:NE2	2.28	0.63
37:2f:13:ASN:ND2	37:2f:55:ASP:OD2	2.32	0.63
39:2h:44:PHE:HD1	39:2h:80:ILE:HG12	1.64	0.63
19:1X:72:LYS:NZ	19:1X:75:ASP:OD1	2.31	0.63
32:1a:1414:U:H3	32:1a:1486:G:H1	1.45	0.63
47:1p:51:VAL:HG12	47:1p:53:VAL:H	1.63	0.63
40:2i:49:PRO:HD2	40:2i:81:ILE:HD11	1.80	0.63
1:1A:2163:C:OP1	1:1A:2165:G:N2	2.31	0.63
15:1T:112:ARG:HG3	15:1T:115:ARG:HH21	1.63	0.63
33:1b:126:GLU:HG2	33:1b:130:ARG:HH12	1.63	0.63
35:1d:111:ALA:HB2	35:1d:120:LEU:HD12	1.80	0.63
1:2A:2280:G:N7	60:20:205:HOH:O	2.30	0.63
50:2s:41:VAL:HG13	50:2s:43:GLU:H	1.63	0.63
1:1A:140:G:N3	1:1A:142:A:N6	2.44	0.63
1:1A:1366:A:OP1	23:11:3:LYS:NZ	2.31	0.63
32:1a:1027:C:N3	32:1a:1034:G:N2	2.46	0.63
33:1b:80:ILE:HD13	33:1b:211:ILE:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2143:C:N3	1:2A:2148:G:N2	2.40	0.63
32:2a:1426:C:H42	32:2a:1474:G:H1	1.47	0.63
12:1Q:141:GLN:NE2	21:1Z:74:VAL:O	2.30	0.63
1:2A:40:C:H42	1:2A:438:G:H1	1.47	0.63
1:2A:848:G:OP2	1:2A:928:G:N2	2.29	0.63
1:2A:1546:C:H5'	1:2A:1547:C:H5'	1.81	0.63
37:2f:28:ARG:O	37:2f:32:ASN:ND2	2.31	0.63
6:1G:101:ILE:HG22	6:1G:105:LYS:HE2	1.81	0.62
24:12:22:GLU:OE2	24:12:68:ARG:NH2	2.32	0.62
1:2A:271(H):G:H2'	1:2A:271(I):G:H8	1.64	0.62
1:2A:1502:C:H2'	1:2A:1503:U:H6	1.64	0.62
9:2N:26:LEU:HD23	9:2N:60:ILE:HD11	1.80	0.62
32:2a:692:U:O2'	32:2a:694:A:N7	2.29	0.62
32:2a:1119:C:OP2	40:2i:9:ARG:NH2	2.32	0.62
1:1A:396:G:H1'	23:11:42:GLN:HB3	1.80	0.62
1:1A:1315:C:O2'	1:1A:1392:A:N3	2.30	0.62
33:1b:97:TRP:HZ2	33:1b:102:LEU:HD13	1.64	0.62
38:1g:78:ARG:NH1	38:1g:154:TYR:O	2.32	0.62
3:2D:242:ARG:HH11	3:2D:242:ARG:H	1.47	0.62
7:2H:125:VAL:HG12	7:2H:131:VAL:HG22	1.80	0.62
12:2Q:11:LYS:HD3	12:2Q:87:LYS:HG2	1.79	0.62
32:2a:815:A:N7	32:2a:1509:C:O2'	2.32	0.62
32:2a:1274:G:N2	32:2a:1275:A:N7	2.47	0.62
60:2a:2061:HOH:O	52:2u:2:GLY:N	2.31	0.62
34:2c:9:GLY:HA3	45:2n:49:HIS:HA	1.80	0.62
1:1A:58:G:O2'	1:1A:73:A:N1	2.31	0.62
32:1a:401:C:OP2	35:1d:73:ARG:NH2	2.31	0.62
1:2A:1446:C:O2	1:2A:1545:A:O2'	2.17	0.62
32:2a:1346:A:N1	32:2a:1374:A:H5''	2.14	0.62
1:1A:1509(A):A:H3'	1:1A:1509(B):A:H8	1.65	0.62
12:1Q:43:THR:HG22	12:1Q:94:VAL:HG12	1.82	0.62
32:1a:1346:A:N1	32:1a:1374:A:H5''	2.14	0.62
34:1c:6:HIS:HD2	34:1c:8:ILE:H	1.47	0.62
41:1j:50:ILE:HA	41:1j:60:ARG:HG2	1.81	0.62
32:2a:1007:C:N3	32:2a:1022:G:O6	2.33	0.62
41:2j:49:VAL:HG23	45:2n:41:ARG:HB2	1.81	0.62
1:1A:1173:G:N2	1:1A:1177:A:OP2	2.33	0.62
8:1I:129:THR:HG22	8:1I:139:GLN:HE22	1.65	0.62
32:1a:982:U:H5''	45:1n:6:LEU:HD21	1.80	0.62
48:1q:67:LYS:O	48:1q:69:LYS:N	2.30	0.62
1:2A:1420:U:O2'	1:2A:1421:G:OP1	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:2U:79:PHE:HE2	16:2U:95:LEU:HD21	1.65	0.62
1:1A:1053:C:H42	1:1A:1106:G:H1	1.46	0.62
1:1A:2141:G:O6	1:1A:2150:U:O2	2.16	0.62
6:1G:112:PRO:HG3	26:14:43:TYR:HE2	1.64	0.62
46:1o:39:LEU:HD13	46:1o:56:LEU:HB2	1.82	0.62
6:2G:64:THR:HB	6:2G:94:LEU:HD21	1.80	0.62
35:2d:50:ARG:HD2	35:2d:51:PRO:HD2	1.81	0.62
1:1A:1048:A:OP2	1:1A:1109:C:N4	2.33	0.62
1:2A:463:G:N2	1:2A:466:A:OP2	2.31	0.62
1:2A:2126:A:N6	1:2A:2162:G:O2'	2.31	0.62
32:2a:1194:U:H4'	36:2e:22:GLY:HA2	1.82	0.62
32:2a:1518:MA6:N6	32:2a:1519:MA6:H103	2.14	0.62
1:1A:602:G:O2'	1:1A:655:A:N6	2.33	0.62
15:1T:127:ALA:C	15:1T:129:ARG:H	2.06	0.62
26:24:24:THR:OG1	26:24:25:TYR:N	2.33	0.62
41:2j:55:LYS:HG3	41:2j:56:HIS:H	1.65	0.62
43:2l:32:PHE:HB3	43:2l:84:LEU:HD11	1.82	0.62
1:1A:2095:C:H42	1:1A:2194:G:H1	1.45	0.62
1:2A:2818:G:OP2	13:2R:42:LYS:NZ	2.31	0.62
32:2a:664:G:H22	32:2a:741:G:H1	1.47	0.62
32:2a:978:A:O2'	32:2a:1322:C:N3	2.29	0.62
1:1A:1267:U:OP1	60:1A:5943:HOH:O	2.16	0.62
32:1a:1224:G:O2'	32:1a:1322:C:OP1	2.17	0.62
33:1b:22:LYS:HG2	33:1b:40:HIS:CE1	2.35	0.62
41:1j:35:SER:HB3	41:1j:73:ASP:HB2	1.82	0.62
1:2A:2630:G:H2'	1:2A:2631:G:C8	2.35	0.62
2:2B:4:C:H42	2:2B:117:G:H1	1.48	0.62
32:2a:663:A:O3'	49:2r:64:ARG:NH2	2.33	0.62
47:2p:19:ILE:N	47:2p:37:GLY:O	2.32	0.62
1:1A:463:G:N2	1:1A:466:A:OP2	2.32	0.61
42:1k:85:ARG:HE	42:1k:111:ASP:HB3	1.65	0.61
1:2A:597:U:H2'	1:2A:598:G:C8	2.34	0.61
5:2F:101:LEU:O	5:2F:106:ARG:NH1	2.32	0.61
32:1a:92:C:H2'	32:1a:93:G:C8	2.35	0.61
43:1l:77:LEU:HD21	43:1l:107:ALA:HA	1.82	0.61
1:2A:2655:G:O2'	1:2A:2664:G:O6	2.18	0.61
12:2Q:85:LYS:HG2	22:20:7:LEU:HB3	1.82	0.61
17:2V:40:LEU:HB2	17:2V:46:VAL:HG22	1.82	0.61
32:2a:301:G:H2'	32:2a:302:G:H8	1.65	0.61
32:2a:662:G:O2'	32:2a:836:G:OP1	2.18	0.61
50:2s:20:LEU:HD23	50:2s:23:ASN:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:1b:28:PHE:HD1	33:1b:194:PRO:HG3	1.63	0.61
8:2I:77:LEU:HB3	8:2I:142:VAL:HG22	1.80	0.61
25:23:7:LYS:NZ	25:23:32:GLN:O	2.32	0.61
32:2a:1320:C:N3	50:2s:36:ARG:NH2	2.47	0.61
32:1a:145:G:N2	32:1a:178:C:O2	2.33	0.61
32:1a:343:U:O2'	32:1a:346:G:O6	2.16	0.61
1:2A:30:G:O2'	1:2A:1214:A:N3	2.33	0.61
5:2F:12:LEU:HB2	5:2F:124:LEU:HD11	1.81	0.61
8:2I:3:VAL:HG12	8:2I:38:LEU:HA	1.81	0.61
25:23:7:LYS:HB2	25:23:34:GLU:HG3	1.81	0.61
32:2a:1319:A:H61	32:2a:1361:G:H21	1.48	0.61
47:2p:72:ARG:HH21	47:2p:73:LEU:HD21	1.66	0.61
55:2x:52:G:H1	55:2x:62:C:H42	1.48	0.61
1:1A:1176:G:H1'	1:1A:1177:A:H5''	1.82	0.61
1:1A:2146:C:H5''	1:1A:2147:G:C5	2.35	0.61
30:18:62:LEU:HB3	30:18:65:GLU:HG3	1.83	0.61
1:2A:942:G:O2'	1:2A:1189:A:N3	2.34	0.61
1:2A:1121:C:N4	60:2A:6111:HOH:O	2.28	0.61
33:2b:74:LYS:HD2	33:2b:166:ASP:HB2	1.82	0.61
48:2q:66:SER:O	48:2q:70:ARG:NH1	2.34	0.61
32:1a:56:U:H2'	32:1a:57:G:C8	2.35	0.61
32:1a:1329:A:H5''	44:1m:26:GLY:H	1.64	0.61
1:2A:184:C:H2'	1:2A:185:U:C6	2.35	0.61
60:1A:6075:HOH:O	4:1E:127:ASP:OD2	2.16	0.61
30:18:6:THR:HG22	30:18:63:PRO:HD2	1.81	0.61
32:1a:946:A:H2'	32:1a:947:G:C8	2.35	0.61
32:1a:1027:C:C2	32:1a:1034:G:N2	2.68	0.61
1:1A:787:U:OP1	60:1A:4900:HOH:O	2.16	0.61
1:1A:1300:U:H4'	1:1A:1301:A:H5''	1.82	0.61
46:1o:54:ARG:HG2	46:1o:58:MET:HE2	1.83	0.61
54:1w:31:C:H42	54:1w:39:G:H1	1.48	0.61
1:2A:245:G:O6	30:28:8:LYS:NZ	2.33	0.61
1:2A:297:C:OP1	20:2Y:87:LYS:NZ	2.30	0.61
1:2A:468:G:O6	29:27:39:ARG:NH1	2.31	0.61
1:2A:1689:A:OP2	1:2A:1698:A:N6	2.34	0.61
1:2A:2121:G:N2	1:2A:2177:C:N3	2.44	0.61
1:2A:2572:A:OP1	1:2A:2574:G:O2'	2.17	0.61
32:2a:1102:A:O3'	33:2b:96:ARG:NH2	2.33	0.61
47:2p:51:VAL:HG12	47:2p:53:VAL:H	1.65	0.61
1:1A:1815:A:OP1	60:1A:4102:HOH:O	2.16	0.61
1:1A:2131:G:H5''	1:1A:2132:U:H3'	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2327:A:H2'	1:1A:2328:A:C8	2.35	0.61
32:1a:530:G:N3	54:1w:35:A:O2'	2.33	0.61
32:1a:726:C:H2'	32:1a:727:G:H8	1.66	0.61
47:1p:52:ASP:O	47:1p:54:GLU:N	2.32	0.61
1:2A:500:G:N1	1:2A:503:A:OP2	2.32	0.61
11:2P:62:LEU:O	30:28:13:ARG:NH1	2.34	0.61
32:2a:1027:C:N3	32:2a:1034:G:O6	2.33	0.61
35:2d:119:GLN:HG3	35:2d:123:HIS:HD2	1.66	0.61
1:1A:2291:U:OP1	1:1A:2380:C:O2'	2.18	0.61
6:1G:131:TYR:HB3	6:1G:159:VAL:HG23	1.82	0.61
32:1a:688:G:H2'	32:1a:689:C:C6	2.36	0.61
32:1a:1021:G:O2'	32:1a:1022:G:O5'	2.16	0.61
1:2A:1253:A:N7	60:2A:4393:HOH:O	2.31	0.61
32:2a:1203:C:H2'	32:2a:1204:A:C8	2.36	0.61
43:2l:69:TYR:HB2	43:2l:96:VAL:HG11	1.82	0.61
32:1a:574:A:HO2'	32:1a:882:C:HO2'	1.41	0.60
43:1l:110:VAL:HB	43:1l:113:ARG:HG3	1.81	0.60
1:2A:597:U:H2'	1:2A:598:G:H8	1.65	0.60
39:2h:10:LEU:HD12	39:2h:85:ARG:HB2	1.83	0.60
44:2m:82:MET:O	44:2m:93:ARG:NH2	2.33	0.60
1:1A:218:A:C2	1:1A:235:U:H4'	2.36	0.60
1:1A:744:G:OP1	4:1E:132:HIS:ND1	2.34	0.60
5:1F:24:LEU:HD23	5:1F:115:ALA:HA	1.83	0.60
32:1a:682:G:N7	60:1a:3678:HOH:O	2.31	0.60
15:2T:102:ILE:HA	15:2T:105:LEU:HD12	1.83	0.60
33:2b:63:MET:HG3	33:2b:225:ALA:HB1	1.83	0.60
33:2b:127:ILE:O	33:2b:129:GLU:N	2.34	0.60
1:1A:467:G:N7	29:17:39:ARG:NH2	2.49	0.60
1:1A:2830:G:OP1	4:1E:76:ARG:NH1	2.34	0.60
41:1j:49:VAL:HG23	45:1n:41:ARG:HB2	1.83	0.60
1:2A:517:C:OP1	27:25:16:ARG:NH2	2.34	0.60
1:2A:2162:G:H4'	1:2A:2172:U:H2'	1.83	0.60
6:2G:11:TYR:OH	6:2G:16:ARG:NH1	2.34	0.60
15:2T:127:ALA:C	15:2T:129:ARG:H	2.09	0.60
36:2e:7:GLU:OE1	36:2e:37:ARG:NE	2.34	0.60
1:1A:729:G:C6	3:1D:208:LYS:HB2	2.36	0.60
22:10:10:THR:HG23	22:10:12:ASN:H	1.65	0.60
32:1a:625:G:OP2	60:1a:3301:HOH:O	2.17	0.60
33:1b:18:GLY:HA3	33:1b:42:ILE:HG13	1.83	0.60
1:2A:200:U:O2	1:2A:386:G:N2	2.34	0.60
32:2a:269:C:H2'	32:2a:270:A:C8	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:67:C:O2'	32:1a:171:A:N3	2.31	0.60
1:2A:2123:G:H1	1:2A:2175:C:H42	1.50	0.60
1:2A:2161:C:H2'	1:2A:2162:G:O4'	2.01	0.60
17:2V:8:GLY:O	17:2V:10:LYS:NZ	2.32	0.60
32:2a:362:G:N2	32:2a:365:U:OP2	2.34	0.60
32:2a:671:G:H5'	37:2f:77:ARG:HH22	1.67	0.60
37:2f:30:LEU:HD23	37:2f:75:LEU:HD11	1.84	0.60
49:2r:45:SER:HB3	49:2r:51:LEU:HD21	1.84	0.60
1:1A:811:U:OP1	60:1A:6683:HOH:O	2.16	0.60
1:1A:1093:G:H3'	1:1A:1094:U:H5''	1.84	0.60
1:1A:2127:G:N2	1:1A:2161:C:N3	2.50	0.60
54:1w:7:U:O2'	54:1w:49:G:OP2	2.19	0.60
20:2Y:102:CYS:SG	20:2Y:103:GLY:N	2.75	0.60
32:2a:8:A:H5'	36:2e:101:ILE:HG22	1.83	0.60
32:2a:562:C:O2'	43:2l:16:GLU:O	2.16	0.60
34:2c:44:GLU:HA	34:2c:52:LEU:HD13	1.82	0.60
22:10:43:THR:HB	22:10:53:MET:HE1	1.83	0.60
50:1s:41:VAL:HG12	50:1s:44:MET:HG3	1.83	0.60
1:2A:746:A:O2'	1:2A:2611:U:O2'	2.16	0.60
1:2A:783:A:OP2	60:2A:6227:HOH:O	2.16	0.60
1:2A:1012:U:H5	9:2N:28:THR:HG21	1.66	0.60
1:2A:1032:A:N6	1:2A:1122:G:H1	1.97	0.60
26:24:40:HIS:HB3	26:24:43:TYR:HD2	1.67	0.60
32:2a:973:G:H3'	32:2a:974:A:H5''	1.84	0.60
32:2a:1127:G:H1	32:2a:1145:C:N4	1.98	0.60
32:2a:1316:G:H22	32:2a:1319:A:H5'	1.67	0.60
32:2a:1320:C:H1'	50:2s:73:GLU:HG2	1.84	0.60
33:2b:19:HIS:NE2	33:2b:206:ASP:OD2	2.34	0.60
1:1A:2107:C:H42	1:1A:2182:G:H1	1.50	0.60
13:1R:33:ARG:NH2	27:15:57:VAL:O	2.34	0.60
32:1a:542:G:H5'	35:1d:41:GLY:HA3	1.83	0.60
1:2A:988:A:N7	60:2A:4370:HOH:O	2.32	0.60
1:2A:2532:G:O2'	1:2A:2657:A:N6	2.31	0.60
2:2B:14:U:OP2	2:2B:70:C:O2'	2.18	0.60
21:2Z:141:VAL:HG13	21:2Z:142:SER:H	1.67	0.60
32:2a:9:G:H2'	32:2a:10:A:C8	2.36	0.60
5:1F:185:ASP:OD1	5:1F:188:ARG:NH1	2.32	0.60
13:1R:12:ARG:O	13:1R:17:ARG:NH1	2.35	0.60
32:1a:316:G:OP2	32:1a:351:G:O2'	2.20	0.60
3:2D:152:GLY:O	60:2D:401:HOH:O	2.16	0.60
32:2a:1027:C:C4	32:2a:1034:G:O6	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1512:U:H2'	32:2a:1513:A:H8	1.67	0.60
1:1A:2658:C:O2	1:1A:2663:G:N2	2.34	0.60
5:1F:158:THR:O	5:1F:164:ARG:NH1	2.35	0.60
50:1s:41:VAL:HG13	50:1s:43:GLU:H	1.67	0.60
15:2T:16:ARG:NH2	15:2T:18:ASP:OD2	2.35	0.60
24:22:35:LEU:HD12	24:22:53:LEU:HD12	1.82	0.60
33:2b:187:LEU:HA	33:2b:201:ILE:HB	1.82	0.60
54:2y:10:G:H1	54:2y:25:C:H42	1.48	0.60
1:1A:2693:A:H2'	1:1A:2694:G:C8	2.37	0.59
21:1Z:24:LEU:HB2	21:1Z:41:LEU:HD12	1.84	0.59
21:1Z:91:LEU:HD23	21:1Z:130:PRO:HB3	1.84	0.59
1:2A:785:G:OP2	60:2A:6123:HOH:O	2.15	0.59
32:2a:811:C:O2'	32:2a:901:A:N1	2.33	0.59
36:2e:88:LYS:HB3	36:2e:123:LEU:HB2	1.83	0.59
51:2t:42:GLN:HE21	51:2t:46:GLU:HG3	1.66	0.59
1:1A:1053:C:N4	1:1A:1106:G:H1	1.98	0.59
1:1A:1508:A:O2'	1:1A:1509:C:OP1	2.18	0.59
1:1A:2422:A:O4'	54:1y:76:A:N6	2.35	0.59
1:1A:2635:C:O2'	4:1E:80:GLU:OE2	2.19	0.59
5:1F:185:ASP:HA	5:1F:188:ARG:HD3	1.83	0.59
6:1G:34:LEU:HD23	6:1G:161:THR:HG22	1.84	0.59
32:1a:700:G:N7	60:1a:3802:HOH:O	2.31	0.59
41:1j:55:LYS:HG3	41:1j:56:HIS:H	1.66	0.59
1:2A:628:G:H2'	1:2A:629:G:C8	2.37	0.59
1:2A:1116:C:H2'	1:2A:1117:G:H8	1.67	0.59
6:2G:56:ALA:HA	6:2G:59:GLU:HG2	1.83	0.59
11:2P:124:LYS:HE3	11:2P:146:VAL:HG21	1.83	0.59
32:2a:201:C:H42	32:2a:216:G:H22	1.49	0.59
1:1A:220:G:O2'	1:1A:233:A:N3	2.31	0.59
1:1A:2226:C:OP2	60:1A:6236:HOH:O	2.15	0.59
5:1F:155:LEU:HB2	5:1F:189:THR:HG21	1.84	0.59
18:1W:18:ARG:HG3	18:1W:76:VAL:HB	1.84	0.59
26:14:58:ARG:HG3	50:1s:67:VAL:H	1.67	0.59
37:1f:46:ARG:HH21	49:1r:37:VAL:HG12	1.66	0.59
1:2A:819:A:OP2	1:2A:1187:G:N2	2.25	0.59
1:2A:1446:C:H42	1:2A:1465:G:H1	1.50	0.59
13:2R:19:ALA:O	13:2R:23:ASN:ND2	2.35	0.59
17:2V:29:PRO:HG3	17:2V:63:GLY:HA2	1.82	0.59
40:2i:23:ASN:HB3	40:2i:25:LYS:HZ2	1.67	0.59
40:2i:26:VAL:HG22	40:2i:61:ALA:HB3	1.84	0.59
1:1A:2693:A:H2'	1:1A:2694:G:H8	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:97:ARG:HA	9:1N:100:GLU:HB2	1.84	0.59
13:1R:38:VAL:HG12	13:1R:42:LYS:HE3	1.83	0.59
32:1a:448:A:P	32:1a:485:G:H22	2.26	0.59
1:2A:2137:C:N4	1:2A:2154:G:N1	2.47	0.59
32:2a:22:G:H4'	32:2a:885:G:C8	2.37	0.59
34:2c:180:ALA:HB1	34:2c:203:PHE:HE1	1.65	0.59
36:1e:33:VAL:HG21	36:1e:109:ILE:HA	1.83	0.59
1:2A:1530:C:O2'	1:2A:1531:C:O5'	2.19	0.59
6:2G:15:VAL:HG22	6:2G:175:LEU:HB3	1.85	0.59
32:2a:501:C:H2'	32:2a:502:G:C8	2.34	0.59
32:2a:1492:A:O2'	32:2a:1493:A:O4'	2.14	0.59
1:1A:784:A:O4'	3:1D:227:ASN:ND2	2.35	0.59
4:1E:128:SER:OG	4:1E:129:HIS:N	2.35	0.59
34:1c:58:GLU:HB3	41:1j:92:THR:HG21	1.85	0.59
42:1k:79:SER:HA	42:1k:104:GLN:HB3	1.84	0.59
1:2A:271(R):G:H2'	1:2A:271(S):G:C8	2.37	0.59
1:2A:1187:G:H5'	17:2V:81:TYR:CE1	2.37	0.59
1:2A:2693:A:H2'	1:2A:2694:G:H8	1.68	0.59
5:2F:110:LEU:HD11	5:2F:181:LEU:HG	1.84	0.59
10:2O:49:ARG:NH1	32:2a:1422:G:O3'	2.28	0.59
20:2Y:5:MET:HE2	20:2Y:32:PRO:HA	1.83	0.59
32:2a:80:G:H1	32:2a:89:C:H42	1.48	0.59
32:2a:1005:A:H3'	32:2a:1006:C:C6	2.38	0.59
1:1A:1593:G:H2'	1:1A:1594:G:C8	2.37	0.59
1:1A:2741:A:OP1	31:19:22:ARG:NH2	2.36	0.59
32:1a:553:A:H5''	43:1l:24:VAL:HG21	1.85	0.59
32:1a:997:U:H3	32:1a:1044:A:H61	1.49	0.59
32:1a:1309:G:OP1	44:1m:88:ARG:NH2	2.35	0.59
32:1a:1386:G:H2'	32:1a:1387:G:H8	1.68	0.59
1:2A:2787:C:H1'	4:2E:62:PRO:HG3	1.84	0.59
17:2V:43:GLU:OE1	17:2V:43:GLU:N	2.35	0.59
40:2i:65:VAL:HG11	40:2i:73:GLN:HB3	1.85	0.59
44:2m:31:LYS:HA	44:2m:34:LEU:HD12	1.83	0.59
45:2n:24:CYS:HB3	45:2n:28:GLY:H	1.68	0.59
1:1A:2791:C:H2'	1:1A:2792:G:C8	2.38	0.59
8:1I:31:LEU:HD21	8:1I:38:LEU:HD23	1.85	0.59
12:1Q:16:ARG:HG3	12:1Q:18:LYS:HG3	1.84	0.59
26:14:58:ARG:H	26:14:58:ARG:HD2	1.68	0.59
32:1a:559:A:OP1	36:1e:126:ARG:NH2	2.36	0.59
33:1b:100:GLY:O	33:1b:104:ASN:N	2.36	0.59
1:2A:1711:C:H2'	1:2A:1712:C:H6	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2199:A:N1	1:2A:2226:C:N4	2.51	0.59
11:2P:126:VAL:HG12	11:2P:148:LEU:HD22	1.85	0.59
22:20:10:THR:HG22	22:20:12:ASN:H	1.67	0.59
28:26:11:LEU:N	28:26:21:TYR:O	2.36	0.59
32:2a:411:A:OP1	35:2d:30:LYS:NZ	2.33	0.59
32:2a:1255:G:O2'	32:2a:1258:G:O2'	2.15	0.59
1:1A:636:G:OP1	11:1P:132:LYS:NZ	2.32	0.59
51:1t:14:LYS:HA	51:1t:17:ARG:HE	1.68	0.59
1:2A:637:A:OP1	11:2P:133:SER:OG	2.21	0.59
1:2A:1266:G:O5'	18:2W:15:ARG:NH2	2.35	0.59
1:2A:1324:G:O2'	1:2A:1326:U:OP2	2.18	0.59
1:2A:1700:A:N6	32:2a:1475:G:OP1	2.36	0.59
1:2A:2532:G:HO2'	1:2A:2657:A:H61	1.51	0.59
3:2D:75:ILE:HG21	3:2D:99:ASP:HB2	1.85	0.59
32:2a:1402:4OC:HM22	32:2a:1403:C:H5'	1.85	0.59
1:1A:1506:C:H2'	1:1A:1507:A:H8	1.67	0.59
32:1a:92:C:H2'	32:1a:93:G:H8	1.67	0.59
32:1a:748:C:H4'	32:1a:749:C:O5'	2.02	0.59
32:1a:974:A:OP2	45:1n:29:ARG:NH2	2.36	0.59
1:2A:857:C:OP2	22:20:77:ARG:NH2	2.35	0.59
1:2A:959:A:N3	1:2A:2457:U:O2'	2.35	0.59
1:2A:2744:G:N2	7:2H:143:GLN:OE1	2.34	0.59
1:2A:2857:G:N2	1:2A:2860:A:OP2	2.36	0.59
32:2a:1224:G:N2	32:2a:1363:C:N3	2.43	0.59
33:2b:16:HIS:HB3	33:2b:210:SER:HB2	1.84	0.59
50:2s:38:SER:HB2	50:2s:71:LEU:HD22	1.84	0.59
1:1A:1568:G:H5'	3:1D:60:ARG:HA	1.84	0.58
32:1a:201:C:H42	32:1a:216:G:H1	1.51	0.58
33:1b:158:LEU:HG	33:1b:182:ILE:HD11	1.83	0.58
6:2G:37:VAL:HG22	6:2G:159:VAL:HG12	1.85	0.58
8:2I:5:LEU:HD11	8:2I:19:VAL:HG22	1.85	0.58
27:25:56:LYS:NZ	27:25:58:LEU:O	2.36	0.58
32:2a:888:G:O2'	32:2a:909:A:N6	2.36	0.58
32:2a:1224:G:N1	32:2a:1363:C:N4	2.51	0.58
1:1A:686:G:O5'	29:17:11:LYS:NZ	2.36	0.58
6:1G:45:GLU:OE2	60:1G:301:HOH:O	2.17	0.58
30:18:33:ASN:HA	30:18:36:LYS:HD2	1.85	0.58
32:2a:957:U:O2'	32:2a:959:A:N7	2.31	0.58
12:1Q:1:MET:HE1	12:1Q:45:GLN:HG3	1.85	0.58
32:1a:78:G:C2	32:1a:91:C:N3	2.72	0.58
41:1j:62:HIS:HB3	45:1n:59:ALA:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:1o:55:GLY:HA2	46:1o:58:MET:HE3	1.85	0.58
1:2A:1777:U:H2'	1:2A:1778:U:H6	1.68	0.58
16:2U:27:LEU:HD22	16:2U:31:SER:HB2	1.85	0.58
51:2t:16:HIS:O	51:2t:19:SER:OG	2.17	0.58
1:1A:54:G:O6	60:1A:4623:HOH:O	2.16	0.58
1:1A:2140:C:H42	1:1A:2150:U:H3	1.49	0.58
1:1A:2547:U:O2	10:1O:23:ARG:NH2	2.36	0.58
32:1a:1458:G:OP1	51:1t:35:THR:OG1	2.21	0.58
1:2A:1226:A:OP1	17:2V:84:LYS:NZ	2.21	0.58
1:2A:2151:G:H2'	1:2A:2152:G:H8	1.67	0.58
15:2T:30:VAL:HG22	15:2T:86:ILE:HG12	1.84	0.58
32:2a:909:A:N3	32:2a:1413:A:O2'	2.31	0.58
32:2a:1272:G:N2	32:2a:1273:G:H1'	2.17	0.58
1:1A:61:G:H5'	24:12:50:ILE:HG21	1.84	0.58
1:1A:2756:U:H5''	31:19:19:ARG:HG2	1.86	0.58
19:1X:50:LYS:HG2	19:1X:84:ALA:HB2	1.85	0.58
32:1a:158:G:H2'	32:1a:159:G:C8	2.39	0.58
32:1a:1328:C:OP1	52:1u:21:TYR:OH	2.20	0.58
1:2A:108:U:H2'	1:2A:109:G:C8	2.39	0.58
1:2A:1141:U:OP2	9:2N:63:THR:OG1	2.22	0.58
32:2a:37:U:H2'	32:2a:38:G:H8	1.68	0.58
54:2y:5:G:N1	54:2y:68:C:N4	2.41	0.58
1:1A:1173:G:O2'	1:1A:1174:A:O4'	2.22	0.58
32:1a:695:A:H2'	32:1a:696:A:C8	2.39	0.58
32:1a:976:G:OP2	32:1a:1358:U:O2'	2.19	0.58
32:1a:1030(B):C:H2'	32:1a:1030(C):G:H5'	1.84	0.58
33:1b:158:LEU:HD21	33:1b:180:LEU:HD13	1.84	0.58
35:1d:15:GLU:OE2	35:1d:66:ARG:NH1	2.36	0.58
54:1y:8:4SU:H4'	54:1y:48:C:H4'	1.84	0.58
1:2A:535:C:H2'	1:2A:536:A:C8	2.38	0.58
1:2A:740:U:OP2	60:2A:3903:HOH:O	2.16	0.58
7:2H:11:VAL:HG21	7:2H:50:VAL:HG23	1.84	0.58
32:2a:401:C:H2'	32:2a:402:G:C8	2.39	0.58
32:2a:1002:G:H1	32:2a:1038:C:H42	0.70	0.58
1:1A:27:G:N2	1:1A:512:G:H1'	2.18	0.58
1:1A:483:A:O2'	20:1Y:49:VAL:O	2.22	0.58
7:1H:20:ALA:HB3	7:1H:23:ARG:HG3	1.85	0.58
18:1W:1:MET:HE2	18:1W:62:HIS:HB3	1.85	0.58
32:1a:1077:G:N2	32:1a:1080:A:OP2	2.30	0.58
1:2A:1202:C:H42	1:2A:1243:G:H1	1.52	0.58
32:2a:1251:A:H2'	32:2a:1252:A:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:69:LEU:HB3	33:2b:162:ILE:HG22	1.84	0.58
55:2x:5:G:O6	55:2x:68:C:N3	2.37	0.58
1:1A:2364:C:OP1	22:10:55:ARG:NH1	2.36	0.58
38:1g:78:ARG:HH21	38:1g:79:ARG:HH11	1.51	0.58
1:2A:1507:A:O2'	1:2A:1508:A:O5'	2.21	0.58
1:2A:2160:G:H2'	1:2A:2161:C:H5''	1.86	0.58
1:2A:2524:G:O6	60:2A:6317:HOH:O	2.15	0.58
32:2a:673:G:H2'	32:2a:674:G:C8	2.38	0.58
32:2a:716:A:N3	42:2k:118:GLY:HA2	2.19	0.58
32:2a:920:U:H2'	32:2a:921:U:C6	2.38	0.58
35:2d:165:MET:SD	35:2d:168:ARG:NE	2.76	0.58
48:2q:6:LEU:HD23	48:2q:23:VAL:HG11	1.86	0.58
1:1A:1218:C:H42	1:1A:1231:G:H1	1.52	0.58
21:1Z:10:ARG:NH2	21:1Z:26:GLY:O	2.36	0.58
31:19:1:MET:HE2	31:19:33:LYS:HD2	1.86	0.58
32:1a:67:C:H2'	32:1a:68:G:C8	2.38	0.58
34:1c:138:VAL:HG13	34:1c:149:ALA:HB3	1.86	0.58
54:1y:40:G:H2'	54:1y:41:A:H8	1.67	0.58
1:2A:660:G:N2	11:2P:12:ALA:O	2.36	0.58
1:2A:1864:U:OP1	1:2A:2410:G:O2'	2.22	0.58
1:2A:2176:A:H2'	1:2A:2177:C:C6	2.39	0.58
2:2B:24:G:N7	2:2B:56:G:H2'	2.19	0.58
32:2a:148:G:H2'	32:2a:149:A:C8	2.39	0.58
32:2a:999:C:H42	32:2a:1042:G:H1	1.52	0.58
1:1A:2526:G:N3	31:19:1:MET:N	2.52	0.58
22:10:26:TYR:H	22:10:29:GLN:NE2	2.02	0.58
32:1a:134:A:H61	47:1p:25:ARG:NH1	2.01	0.58
32:1a:452:A:O2'	32:1a:453:A:OP2	2.22	0.58
33:1b:51:LEU:HD21	33:1b:201:ILE:HG23	1.86	0.58
47:1p:23:ASP:OD2	47:1p:25:ARG:NH2	2.37	0.58
8:2I:4:ILE:HG12	8:2I:18:VAL:HG22	1.86	0.58
15:2T:39:ARG:NH2	32:2a:345:C:OP2	2.37	0.58
32:2a:1057:G:O6	32:2a:1203:C:N3	2.36	0.58
36:2e:146:ALA:O	36:2e:150:ARG:HG2	2.04	0.58
54:2w:36:C:H2'	54:2w:37:6MZ:H8	1.86	0.58
1:1A:214:G:H21	1:1A:216:A:H1'	1.68	0.57
1:1A:1466:G:HO2'	1:1A:1546:C:HO2'	1.33	0.57
1:1A:2375:G:O2'	1:1A:2377:A:N7	2.36	0.57
32:1a:1266:G:N2	32:1a:1269:A:OP2	2.37	0.57
43:1l:113:ARG:NH2	43:1l:115:LYS:O	2.36	0.57
18:2W:10:VAL:HG12	18:2W:12:ILE:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:865:A:N3	32:2a:918:A:O2'	2.31	0.57
32:2a:1239:A:H4'	32:2a:1240:U:H5'	1.84	0.57
47:2p:18:ARG:HD3	47:2p:35:LYS:HD2	1.85	0.57
54:2y:51:C:N3	54:2y:63:G:O6	2.37	0.57
1:1A:1913:A:H4'	1:1A:1914:C:H5''	1.85	0.57
33:1b:119:GLU:OE2	33:1b:153:ARG:NH1	2.37	0.57
35:1d:155:LEU:HB3	35:1d:158:ILE:HG13	1.86	0.57
51:1t:9:ASN:O	51:1t:10:LEU:HB2	2.03	0.57
1:2A:586:A:H5'	5:2F:89:VAL:HG21	1.86	0.57
1:2A:1342:A:OP2	60:2A:6126:HOH:O	2.18	0.57
4:1E:56:PRO:HG3	4:1E:74:PRO:HG2	1.86	0.57
6:1G:47:LYS:HG3	6:1G:48:GLU:H	1.69	0.57
21:1Z:153:SER:HA	21:1Z:167:PRO:HB3	1.86	0.57
32:1a:78:G:N1	32:1a:91:C:C4	2.72	0.57
54:1y:37:6MZ:H2'	54:1y:38:A:C8	2.39	0.57
1:2A:2001:A:H2'	1:2A:2002:G:C8	2.39	0.57
1:2A:2140:C:N3	1:2A:2151:G:N2	2.43	0.57
32:2a:1342:C:H2'	32:2a:1343:G:H8	1.69	0.57
34:2c:6:HIS:CD2	34:2c:8:ILE:H	2.23	0.57
54:2y:61:C:H2'	54:2y:62:C:C6	2.39	0.57
32:1a:1060:C:H5''	41:1j:51:ARG:HG2	1.86	0.57
32:1a:1078:U:H1'	36:1e:130:ASN:HD21	1.69	0.57
39:1h:124:ALA:O	39:1h:128:GLY:N	2.38	0.57
1:2A:2110:G:H3'	1:2A:2111:C:H5'	1.85	0.57
3:2D:3:VAL:HG21	3:2D:203:ASN:HB2	1.86	0.57
33:2b:17:PHE:HB3	33:2b:44:LEU:HD21	1.85	0.57
1:1A:2000:G:O6	60:1A:6307:HOH:O	2.16	0.57
1:2A:805:G:H5''	11:2P:38:GLN:HG3	1.86	0.57
1:2A:2263:C:N4	22:20:15:ASP:OD1	2.37	0.57
11:2P:63:PRO:HG2	30:28:25:MET:HB2	1.86	0.57
32:2a:148:G:H2'	32:2a:149:A:H8	1.69	0.57
32:2a:1005:A:H5''	32:2a:1006:C:C5	2.39	0.57
5:1F:156:LEU:HD21	5:1F:163:VAL:HG12	1.86	0.57
35:1d:61:LYS:NZ	35:1d:72:GLU:OE1	2.30	0.57
1:2A:2238:G:OP2	60:2A:3905:HOH:O	2.18	0.57
35:2d:154:ASN:O	35:2d:159:ARG:NH2	2.36	0.57
6:1G:11:TYR:HA	6:1G:15:VAL:HB	1.86	0.57
9:1N:121:LYS:HD3	9:1N:130:HIS:CE1	2.40	0.57
10:1O:48:PRO:HB3	32:1a:1422:G:H5''	1.87	0.57
32:1a:811:C:O2'	32:1a:901:A:N1	2.34	0.57
32:1a:976:G:H5'	32:1a:1358:U:O2'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1434:A:H61	1:2A:1558:A:H62	1.52	0.57
1:2A:2129:C:N3	1:2A:2159:G:N2	2.44	0.57
4:2E:116:VAL:HG13	4:2E:122:PHE:HB2	1.85	0.57
6:2G:11:TYR:HB2	6:2G:176:LEU:HD21	1.86	0.57
32:2a:196:A:OP1	51:2t:68:LYS:NZ	2.37	0.57
32:2a:1142:G:H2'	32:2a:1143:G:O4'	2.05	0.57
33:2b:102:LEU:HD23	33:2b:182:ILE:HD12	1.85	0.57
60:1A:7030:HOH:O	27:15:17:ASP:OD2	2.18	0.57
32:1a:1412:C:H2'	32:1a:1413:A:C8	2.40	0.57
35:1d:79:PHE:O	35:1d:83:SER:OG	2.19	0.57
1:2A:1652:A:N6	13:2R:11:ASN:OD1	2.30	0.57
1:2A:2336:A:H61	22:20:43:THR:HG22	1.69	0.57
32:2a:742:G:OP2	46:2o:35:ARG:NH2	2.37	0.57
1:1A:2533:A:H2'	1:1A:2534:A:O4'	2.05	0.57
6:1G:138:GLN:HE22	6:1G:152:LEU:HA	1.70	0.57
32:1a:539:A:H2'	32:1a:540:G:C8	2.40	0.57
37:1f:69:GLU:OE1	37:1f:69:GLU:N	2.30	0.57
39:1h:10:LEU:HD22	39:1h:83:ILE:HD11	1.86	0.57
3:2D:26:LYS:HB3	3:2D:83:GLU:HG2	1.87	0.57
32:2a:662:G:H2'	32:2a:663:A:C8	2.40	0.57
33:2b:104:ASN:HB3	33:2b:108:ILE:HG13	1.86	0.57
42:2k:81:ASP:OD1	42:2k:107:SER:OG	2.22	0.57
45:2n:47:LEU:HD22	45:2n:52:GLN:HB2	1.85	0.57
1:1A:624:C:O2'	1:1A:657:U:OP1	2.21	0.57
2:1B:50:G:OP1	14:1S:63:THR:OG1	2.20	0.57
32:1a:613:C:H2'	32:1a:614:A:C8	2.40	0.57
32:1a:673:G:H2'	32:1a:674:G:C8	2.40	0.57
1:2A:2365:G:N7	30:28:39:LYS:NZ	2.51	0.57
33:2b:178:ARG:NH2	33:2b:196:LEU:O	2.37	0.57
5:1F:182:ASN:ND2	5:1F:185:ASP:OD2	2.30	0.56
16:1U:44:ASN:HD21	17:1V:75:PHE:HB3	1.70	0.56
32:1a:356:A:N3	32:1a:368:U:O2'	2.32	0.56
32:1a:444:C:H2'	32:1a:445:G:H8	1.69	0.56
32:1a:1118:C:OP1	40:1i:9:ARG:NH2	2.34	0.56
1:2A:1826:G:H4'	3:2D:242:ARG:NH2	2.20	0.56
7:2H:164:TYR:HB2	7:2H:167:GLU:HB2	1.87	0.56
10:2O:75:SER:OG	15:2T:74:ARG:NH1	2.38	0.56
33:2b:91:PRO:HG2	33:2b:155:LEU:HD13	1.86	0.56
38:2g:93:PRO:HA	38:2g:96:GLN:HB2	1.87	0.56
1:1A:1853:A:H2'	1:1A:1854:A:C8	2.40	0.56
60:1A:5317:HOH:O	54:1w:76:A:OP1	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1D:142:VAL:HG22	3:1D:193:VAL:HA	1.86	0.56
4:1E:105:THR:OG1	4:1E:199:ARG:NH2	2.38	0.56
32:1a:581:G:OP1	46:1o:65:ARG:NH1	2.38	0.56
32:1a:1277:C:O2'	32:1a:1279:A:H1'	2.06	0.56
40:1i:20:ARG:O	40:1i:60:ASP:N	2.38	0.56
48:1q:66:SER:O	48:1q:70:ARG:NH1	2.37	0.56
1:2A:117:G:OP2	1:2A:119:A:O2'	2.22	0.56
1:2A:817:C:O2'	1:2A:839:U:OP1	2.21	0.56
1:2A:1786:A:H1'	1:2A:1938:A:N6	2.20	0.56
28:26:9:LEU:HA	28:26:54:ILE:HB	1.87	0.56
32:2a:693:G:N2	54:2y:37:6MZ:H2	2.16	0.56
32:2a:1144:G:N2	32:2a:1146:A:H62	2.03	0.56
1:1A:1800:C:OP1	3:1D:264:LYS:NZ	2.34	0.56
1:1A:2183:C:H2'	1:1A:2184:G:C8	2.38	0.56
1:1A:2314:C:H5''	6:1G:38:VAL:HG21	1.88	0.56
9:1N:73:THR:HG23	9:1N:82:LEU:HD11	1.87	0.56
32:1a:1129:C:O2'	32:1a:1139:G:N7	2.31	0.56
32:1a:1356:G:H2'	32:1a:1357:A:C8	2.40	0.56
35:1d:119:GLN:HG2	35:1d:123:HIS:CD2	2.40	0.56
36:1e:78:HIS:CE1	36:1e:143:ARG:H	2.17	0.56
43:1l:83:VAL:HG23	43:1l:107:ALA:HB2	1.86	0.56
1:2A:1247:A:OP1	5:2F:95:ARG:NH2	2.39	0.56
1:2A:1309:G:HO2'	1:2A:1611:C:HO2'	1.53	0.56
1:2A:1309:G:O2'	1:2A:1611:C:O2'	2.21	0.56
1:2A:2111:C:N4	1:2A:2144:U:O2'	2.35	0.56
60:2A:4338:HOH:O	23:21:17:SER:OG	2.18	0.56
9:2N:20:GLY:HA2	9:2N:61:ARG:HG3	1.87	0.56
12:2Q:81:VAL:HB	22:20:7:LEU:HD21	1.86	0.56
32:2a:447:G:O6	32:2a:485:G:O2'	2.22	0.56
32:1a:266:G:H2'	32:1a:266:G:N3	2.20	0.56
32:1a:1381:U:H1'	38:1g:79:ARG:HG2	1.87	0.56
39:1h:83:ILE:HB	39:1h:137:VAL:HG13	1.88	0.56
1:2A:271(R):G:H2'	1:2A:271(S):G:H8	1.69	0.56
1:2A:889:C:O2'	1:2A:890:A:O4'	2.20	0.56
1:2A:1171:G:H22	1:2A:1178:C:H42	1.53	0.56
1:2A:2689:U:H4'	1:2A:2690:C:H5'	1.87	0.56
32:2a:1359:C:H1'	32:2a:1362:C:H41	1.69	0.56
54:2y:52:G:N2	54:2y:62:C:N3	2.44	0.56
32:1a:165:C:H2'	32:1a:166:G:C8	2.41	0.56
1:2A:386:G:O2'	60:2A:6309:HOH:O	2.17	0.56
1:2A:1165:U:H3	1:2A:1184:G:H1	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1754:C:H5	15:2T:96:ARG:HH22	1.53	0.56
2:2B:41:U:H5	6:2G:70:VAL:H	1.53	0.56
6:2G:37:VAL:O	6:2G:94:LEU:N	2.38	0.56
12:2Q:116:GLU:OE2	12:2Q:119:ARG:NH2	2.37	0.56
32:2a:130:A:N3	32:2a:263:A:O2'	2.31	0.56
32:2a:444:C:H2'	32:2a:445:G:C8	2.36	0.56
32:2a:564:C:O2'	39:2h:91:ARG:NH1	2.38	0.56
35:2d:94:LEU:HD13	35:2d:194:LEU:HD21	1.86	0.56
44:2m:58:GLU:O	44:2m:62:ASN:ND2	2.39	0.56
1:1A:527:C:OP1	60:1A:5440:HOH:O	2.18	0.56
1:1A:801:G:OP2	60:1A:4612:HOH:O	2.17	0.56
1:1A:2484:G:O2'	12:1Q:124:LYS:O	2.23	0.56
7:1H:86:GLU:OE2	7:1H:132:ARG:NH2	2.38	0.56
32:1a:107:G:N7	51:1t:15:ARG:NH2	2.52	0.56
32:1a:1305:G:H8	52:1u:5:ASP:HB2	1.69	0.56
37:1f:19:LEU:HD11	37:1f:59:TYR:CE1	2.41	0.56
54:1w:44:G:H3'	54:1w:45:G:H5''	1.88	0.56
1:2A:568:U:OP1	1:2A:945:A:N6	2.35	0.56
4:2E:167:VAL:HG22	4:2E:170:LEU:HD11	1.88	0.56
6:2G:179:PRO:HB2	26:24:42:PHE:HE2	1.69	0.56
14:2S:11:LYS:HG3	14:2S:91:PRO:HD3	1.86	0.56
19:2X:94:GLY:N	19:2X:95:LEU:HA	2.21	0.56
32:2a:41:G:H2'	32:2a:42:G:C8	2.41	0.56
32:1a:1124:G:H1	32:1a:1149:C:N4	2.03	0.56
34:1c:162:GLN:NE2	53:1v:24:C:O2'	2.39	0.56
1:2A:900:A:H2'	1:2A:901:A:H8	1.70	0.56
1:2A:1359:A:H2'	1:2A:1360:A:H5'	1.88	0.56
1:2A:1656:C:H5''	4:2E:136:ARG:HB2	1.88	0.56
1:2A:2317:C:N4	1:2A:2318:G:O6	2.39	0.56
32:2a:297:G:N2	32:2a:300:A:OP2	2.38	0.56
32:2a:1318:A:O2'	50:2s:37:ARG:HB2	2.06	0.56
32:2a:1356:G:N2	32:2a:1367:C:O2	2.38	0.56
51:2t:9:ASN:O	51:2t:10:LEU:HB2	2.05	0.56
1:1A:289:A:N6	1:1A:351:G:O2'	2.39	0.56
1:1A:2136:C:H42	1:1A:2155:G:H1	0.69	0.56
1:1A:2494:G:H2'	1:1A:2495:G:H8	1.71	0.56
8:1I:93:THR:HG22	8:1I:119:PRO:HB3	1.88	0.56
9:1N:20:GLY:HA2	9:1N:61:ARG:HG2	1.88	0.56
32:1a:78:G:N2	32:1a:91:C:C2	2.74	0.56
32:1a:656:C:O2	46:1o:28:GLN:NE2	2.37	0.56
35:1d:173:TRP:CD1	35:1d:173:TRP:H	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:1f:82:ARG:HB2	37:1f:85:VAL:HG23	1.87	0.56
1:2A:253:C:O2'	60:2A:5005:HOH:O	2.18	0.56
1:2A:643:A:N1	1:2A:2369:A:O2'	2.37	0.56
1:2A:1003:G:O2'	1:2A:1010:A:N1	2.37	0.56
1:2A:2498:C:OP2	60:2A:5622:HOH:O	2.18	0.56
1:2A:2802:G:H2'	1:2A:2803:C:O4'	2.05	0.56
22:20:14:ARG:NH2	60:20:207:HOH:O	2.39	0.56
32:2a:1097:C:O2'	32:2a:1169:A:N3	2.35	0.56
33:2b:162:ILE:HD11	33:2b:184:VAL:HG22	1.88	0.56
54:2w:13:C:H1'	54:2w:14:A:H5''	1.88	0.56
1:1A:2723:C:OP1	13:1R:3:HIS:ND1	2.32	0.56
2:1B:14:U:O3'	2:1B:108:U:O2'	2.22	0.56
20:1Y:11:ASP:OD1	20:1Y:11:ASP:N	2.38	0.56
40:1i:17:VAL:HG22	40:1i:63:ILE:HG12	1.87	0.56
44:1m:60:VAL:HG12	44:1m:66:LEU:HD11	1.88	0.56
1:2A:140:G:H1'	1:2A:141:A:H2	1.69	0.56
1:2A:1405:U:H2'	1:2A:1406:U:C6	2.41	0.56
1:2A:2050:C:H1'	4:2E:156:MET:HE2	1.88	0.56
5:2F:132:VAL:HG21	5:2F:163:VAL:HG22	1.87	0.56
38:2g:75:VAL:HG13	38:2g:145:ALA:HA	1.88	0.56
40:2i:69:GLY:O	40:2i:73:GLN:N	2.38	0.56
54:2y:10:G:H1	54:2y:25:C:N4	2.04	0.56
54:2y:12:U:O4	54:2y:23:A:N1	2.39	0.56
1:1A:1385:G:O2'	1:1A:1396:U:O2	2.23	0.56
1:1A:1800:C:OP2	3:1D:183:ARG:NH1	2.35	0.56
32:1a:1025:U:O2	32:1a:1036:G:O6	2.23	0.56
32:1a:1030:C:N3	32:1a:1031:G:C2	2.74	0.56
60:1a:3530:HOH:O	43:1l:34:ARG:NH1	2.38	0.56
46:1o:18:PHE:O	46:1o:20:GLY:N	2.35	0.56
54:1y:19:G:H5''	54:1y:57:G:H1	1.70	0.56
60:2A:4807:HOH:O	11:2P:44:GLY:O	2.18	0.56
51:2t:53:LEU:HD12	51:2t:100:ILE:HG13	1.87	0.56
54:2y:18:G:N2	54:2y:55:PSU:C4	2.74	0.56
1:1A:2022:U:O2'	1:1A:2617:C:H5'	2.05	0.55
23:11:23:LYS:HB3	23:11:29:GLY:HA3	1.88	0.55
32:1a:584:G:H5'	48:1q:91:ARG:HH22	1.71	0.55
33:1b:178:ARG:NH2	33:1b:196:LEU:O	2.38	0.55
40:1i:3:GLN:HE21	40:1i:20:ARG:HE	1.53	0.55
1:2A:27:G:O2'	1:2A:28:A:OP2	2.23	0.55
1:2A:171:G:H2'	1:2A:172:C:C6	2.40	0.55
1:2A:2822:G:O2'	1:2A:2824:C:OP2	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:952:U:H2'	32:2a:953:G:C8	2.41	0.55
1:1A:184:C:H2'	1:1A:185:U:C6	2.41	0.55
1:1A:1065:U:H1'	1:1A:1074:G:C2	2.41	0.55
15:1T:39:ARG:HH21	32:1a:345:C:H5''	1.70	0.55
17:1V:60:GLU:HB2	17:1V:97:LYS:HD3	1.88	0.55
51:1t:66:ALA:HB1	51:1t:71:THR:HB	1.87	0.55
54:1w:51:C:H42	54:1w:63:G:H1	1.54	0.55
1:2A:1921:G:H2'	1:2A:1922:G:H8	1.70	0.55
29:27:8:ASN:HB3	29:27:11:LYS:HB3	1.88	0.55
32:2a:661:G:H1	32:2a:744:C:H42	1.53	0.55
32:2a:1355:G:H2'	32:2a:1356:G:C8	2.41	0.55
35:2d:57:ARG:HB3	35:2d:206:PHE:HB2	1.87	0.55
1:1A:414:C:O2	1:1A:1864:U:O2'	2.24	0.55
1:1A:1090:U:C2	1:1A:1102:C:H1'	2.40	0.55
3:1D:37:LEU:HD13	3:1D:62:TYR:HB2	1.87	0.55
7:1H:56:SER:OG	7:1H:57:ASP:N	2.39	0.55
14:1S:52:SER:HB2	14:1S:55:ALA:H	1.70	0.55
32:1a:171:A:H2'	32:1a:172:A:H8	1.70	0.55
32:1a:1366:C:O2'	41:1j:60:ARG:NH1	2.33	0.55
1:2A:723:G:H2'	1:2A:724:U:O4'	2.05	0.55
1:2A:1300:U:H4'	1:2A:1301:A:H5'	1.86	0.55
32:2a:229:U:O2'	47:2p:23:ASP:OD2	2.25	0.55
55:2x:50:U:O2	55:2x:64:G:N2	2.29	0.55
54:2y:51:C:O2	54:2y:63:G:N1	2.39	0.55
1:1A:389:G:N1	11:1P:70:GLN:HG3	2.21	0.55
1:1A:2682:U:O2'	15:1T:58:ASN:ND2	2.40	0.55
37:1f:35:ALA:HB2	37:1f:67:MET:HE2	1.89	0.55
1:2A:80:G:O2'	1:2A:294:A:N1	2.30	0.55
1:2A:476:G:OP1	60:2A:5363:HOH:O	2.18	0.55
1:2A:862:G:O6	1:2A:916:G:N2	2.39	0.55
1:2A:923:C:H2'	1:2A:924:C:H6	1.72	0.55
1:2A:2836:U:H2'	1:2A:2837:G:C8	2.41	0.55
12:2Q:141:GLN:NE2	21:2Z:74:VAL:O	2.39	0.55
32:2a:923:A:O2'	32:2a:1399:C:OP2	2.20	0.55
32:2a:1027:C:C2	32:2a:1034:G:N1	2.66	0.55
1:1A:1634:A:OP2	60:1A:4797:HOH:O	2.18	0.55
1:1A:2156:G:H2'	1:1A:2157:G:C2	2.41	0.55
14:1S:14:VAL:O	14:1S:18:ILE:HG12	2.07	0.55
32:1a:946:A:O2'	32:1a:1333:A:N3	2.35	0.55
40:1i:61:ALA:HB1	40:1i:63:ILE:HD11	1.88	0.55
1:2A:1029:A:N1	1:2A:2465:C:O2'	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2103:C:N4	1:2A:2186:G:H1	2.03	0.55
1:2A:2870:C:H5''	13:2R:65:LEU:HD21	1.89	0.55
39:2h:114:THR:HG22	39:2h:131:GLY:HA3	1.87	0.55
44:2m:22:ILE:HD12	44:2m:25:ILE:HD12	1.88	0.55
1:1A:400:G:N7	60:1A:5807:HOH:O	2.33	0.55
1:1A:880:G:H2'	1:1A:881:G:C8	2.40	0.55
1:1A:1364:G:N7	23:11:3:LYS:HD2	2.21	0.55
1:1A:1796:U:H2'	1:1A:1797:C:C6	2.42	0.55
1:1A:2712:U:OP1	1:1A:2714:G:H4'	2.06	0.55
32:1a:110:C:O2'	47:1p:25:ARG:O	2.25	0.55
32:1a:501:C:OP1	43:1l:117:ARG:NH2	2.33	0.55
32:1a:584:G:H5'	48:1q:91:ARG:NH2	2.21	0.55
1:2A:1410:G:H2'	1:2A:1411:C:C6	2.41	0.55
1:2A:1579:A:H2'	1:2A:1580:A:C8	2.41	0.55
1:2A:1777:U:H2'	1:2A:1778:U:C6	2.42	0.55
4:2E:2:LYS:HG3	4:2E:96:PHE:HE1	1.71	0.55
4:2E:143:ASN:HD22	4:2E:147:PRO:HD3	1.72	0.55
23:21:83:GLU:OE1	23:21:83:GLU:N	2.39	0.55
32:2a:881:G:H2'	32:2a:882:C:O4'	2.07	0.55
41:2j:78:ASN:O	41:2j:80:LYS:N	2.40	0.55
49:2r:71:LYS:HA	49:2r:74:ARG:HD2	1.89	0.55
1:1A:666:G:H1'	30:18:4:MET:HE3	1.88	0.55
1:1A:2150:U:N3	1:1A:2151:G:O6	2.38	0.55
1:1A:2404:C:O3'	11:1P:77:ARG:NH2	2.40	0.55
6:1G:112:PRO:HG3	26:14:43:TYR:CE2	2.41	0.55
32:1a:390:C:H2'	32:1a:391:G:C8	2.42	0.55
32:1a:662:G:H2'	32:1a:663:A:C8	2.42	0.55
38:1g:47:CYS:HA	38:1g:50:ILE:HG22	1.89	0.55
1:2A:854:G:H2'	1:2A:855:G:C8	2.41	0.55
1:2A:2447:G:N2	1:2A:2450:A:OP2	2.40	0.55
2:2B:66:A:H61	2:2B:108:U:H3'	1.71	0.55
11:2P:50:ARG:HD3	30:28:7:HIS:CD2	2.42	0.55
19:2X:43:VAL:HG11	19:2X:81:VAL:HG11	1.89	0.55
32:2a:1151:A:O2'	32:2a:1152:A:O5'	2.23	0.55
32:2a:1342:C:H2'	32:2a:1343:G:C8	2.42	0.55
33:2b:93:VAL:HG21	33:2b:97:TRP:HD1	1.71	0.55
1:1A:2632:A:HO2'	1:1A:2811:G:HO2'	1.51	0.55
4:1E:47:VAL:HG11	4:1E:86:PRO:HD2	1.88	0.55
32:1a:96:U:H2'	32:1a:97:G:C8	2.41	0.55
32:1a:1499:A:OP2	60:1a:3703:HOH:O	2.18	0.55
1:2A:1012:U:C5	9:2N:28:THR:HG21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1671:U:N3	1:2A:1674:G:OP2	2.31	0.55
1:2A:2375:G:N2	1:2A:2378:A:OP2	2.33	0.55
32:2a:1183:A:O2'	32:2a:1184:G:OP1	2.23	0.55
1:1A:271(M):G:N2	8:1I:50:ARG:HH12	2.04	0.55
1:1A:1493:C:N4	1:1A:2206:G:O2'	2.39	0.55
7:1H:3:ARG:NH1	7:1H:5:GLY:H	2.04	0.55
11:1P:111:ARG:HH11	11:1P:128:HIS:CD2	2.24	0.55
12:1Q:51:ARG:HH22	54:1w:54:5MU:H5''	1.72	0.55
32:1a:838:G:H1	32:1a:848:C:H42	1.53	0.55
1:2A:864:G:H1'	1:2A:914:C:N4	2.21	0.55
1:2A:2137:C:O2'	1:2A:2138:C:OP2	2.23	0.55
1:2A:2342:C:O2'	1:2A:2374:C:OP1	2.25	0.55
32:2a:818:G:N2	32:2a:873:A:OP1	2.36	0.55
32:2a:1359:C:H1'	32:2a:1362:C:N4	2.22	0.55
33:2b:121:LEU:HD11	33:2b:130:ARG:CZ	2.37	0.55
1:1A:586:A:N1	1:1A:809:G:O2'	2.37	0.55
1:1A:787:U:H5''	1:1A:788:A:H5'	1.88	0.55
1:1A:1747(A):G:H2'	1:1A:1748:G:C8	2.42	0.55
3:1D:274:ARG:NH1	60:1D:402:HOH:O	2.39	0.55
55:1x:8:4SU:O2	55:1x:21:A:H2	1.89	0.55
1:2A:2815:C:H5'	27:25:29:THR:HG21	1.89	0.55
21:2Z:97:GLU:HB3	21:2Z:125:LEU:HD11	1.89	0.55
34:2c:138:VAL:HG13	34:2c:149:ALA:HB3	1.88	0.55
1:1A:1095:A:H2'	1:1A:1096:A:H8	1.72	0.54
32:1a:783:C:OP1	32:1a:1515:C:O2'	2.22	0.54
34:1c:52:LEU:HD21	34:1c:55:VAL:HG23	1.90	0.54
44:1m:86:CYS:HB2	50:1s:73:GLU:HB3	1.89	0.54
1:2A:1358:G:O2'	1:2A:1373:A:N6	2.39	0.54
1:2A:2012:G:OP1	18:2W:11:ARG:NH2	2.39	0.54
2:2B:38:C:H2'	2:2B:39:A:C8	2.40	0.54
32:2a:522:C:H2'	32:2a:523:A:O4'	2.06	0.54
39:2h:64:LYS:HG2	39:2h:79:VAL:HG21	1.89	0.54
40:2i:17:VAL:HG11	40:2i:81:ILE:HG22	1.89	0.54
48:2q:6:LEU:HD13	48:2q:71:PHE:HE2	1.72	0.54
54:2y:51:C:C2	54:2y:63:G:N1	2.75	0.54
1:1A:564:C:O2'	1:1A:1253:A:N1	2.35	0.54
1:1A:1062:G:H1	1:1A:1077:A:H61	1.54	0.54
1:1A:1769:G:O2'	1:1A:1958:C:OP1	2.20	0.54
10:1O:68:GLU:OE1	10:1O:78:ARG:NH1	2.37	0.54
11:1P:39:LYS:HG3	11:1P:45:LEU:HD11	1.90	0.54
32:1a:373:A:H2'	32:1a:374:A:H8	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:483:C:H3'	32:1a:484:G:H8	1.72	0.54
1:2A:900:A:O2'	1:2A:901:A:OP1	2.24	0.54
1:2A:918:A:N3	2:2B:80:U:O2'	2.38	0.54
1:2A:1158:C:N4	60:2A:5040:HOH:O	2.40	0.54
1:2A:1636:C:H2'	1:2A:1637:A:C8	2.42	0.54
1:2A:2343:C:O2'	1:2A:2373:G:O2'	2.26	0.54
1:2A:2735:G:H2'	1:2A:2736:G:H8	1.73	0.54
10:2O:63:VAL:HG23	10:2O:64:ARG:HG3	1.89	0.54
14:2S:12:PHE:O	14:2S:16:ASN:ND2	2.41	0.54
33:2b:16:HIS:CG	33:2b:17:PHE:N	2.75	0.54
26:14:26:SER:OG	26:14:27:THR:N	2.41	0.54
40:1i:50:LEU:HD13	40:1i:56:LEU:HA	1.90	0.54
1:2A:2030:A:H4'	1:2A:2031:A:C8	2.43	0.54
1:2A:2294:C:H42	1:2A:2338:G:H1	1.54	0.54
19:2X:12:VAL:HG22	19:2X:29:TRP:CE2	2.42	0.54
32:2a:67:C:H2'	32:2a:68:G:C8	2.42	0.54
54:2y:11:C:N3	54:2y:24:G:O6	2.40	0.54
1:1A:185:U:H2'	1:1A:186:G:H8	1.73	0.54
1:1A:278:A:H2'	1:1A:279:C:C6	2.43	0.54
1:1A:1364:G:OP1	23:11:2:SER:N	2.41	0.54
1:1A:2124:G:H1	1:1A:2174:C:N4	2.05	0.54
7:1H:121:ILE:HG13	7:1H:144:VAL:HG21	1.90	0.54
23:11:64:ALA:HA	23:11:67:ILE:HG13	1.89	0.54
32:1a:1126:U:O2	32:1a:1280:A:H2'	2.07	0.54
35:1d:12:CYS:HB2	59:1d:302:SF4:S2	2.48	0.54
1:2A:2035:G:O6	60:2A:4280:HOH:O	2.16	0.54
1:2A:2845:G:H2'	1:2A:2846:G:C8	2.37	0.54
32:2a:401:C:O2'	32:2a:621:A:N3	2.33	0.54
32:2a:757:U:O2'	32:2a:879:C:O2	2.24	0.54
32:2a:1318:A:OP1	50:2s:3:ARG:NH1	2.26	0.54
32:2a:1356:G:H2'	32:2a:1357:A:C8	2.42	0.54
1:1A:882:G:H4'	54:1w:19:G:C6	2.42	0.54
1:1A:1541:G:H3'	1:1A:1542:A:H2'	1.90	0.54
5:1F:107:LYS:HG3	5:1F:206:ILE:HA	1.90	0.54
7:1H:104:GLU:HG3	7:1H:114:VAL:HG22	1.89	0.54
32:1a:895:G:O6	60:1a:3852:HOH:O	2.17	0.54
37:1f:37:VAL:HA	37:1f:65:VAL:HG12	1.89	0.54
1:2A:514:A:N3	1:2A:581:C:O2'	2.36	0.54
1:2A:731:C:OP1	60:2A:6025:HOH:O	2.19	0.54
1:2A:1204:A:H2	1:2A:1241:A:H62	1.55	0.54
7:2H:45:VAL:HG12	7:2H:50:VAL:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2P:52:GLU:OE1	11:2P:55:ARG:NH1	2.40	0.54
12:2Q:20:ALA:HB2	21:2Z:79:ARG:HG2	1.89	0.54
32:2a:926:G:N2	53:2v:15:A:H5''	2.23	0.54
37:2f:50:TYR:CE2	49:2r:77:GLY:HA2	2.42	0.54
1:1A:1358:G:OP2	60:1A:6801:HOH:O	2.19	0.54
1:1A:1843:C:H5'	3:1D:253:GLN:OE1	2.06	0.54
1:2A:198:C:OP2	60:2A:4967:HOH:O	2.18	0.54
1:2A:2444:G:OP2	60:2A:4289:HOH:O	2.19	0.54
1:2A:2820:A:O2'	1:2A:2821:A:OP1	2.24	0.54
32:2a:6:G:O2'	32:2a:7:G:H5''	2.07	0.54
32:2a:56:U:H2'	32:2a:57:G:C8	2.42	0.54
32:2a:1147:C:H1'	40:2i:16:ARG:HH21	1.73	0.54
32:2a:1505:G:H4'	53:2v:13:A:H2	1.71	0.54
35:2d:111:ALA:HA	35:2d:116:GLN:HE21	1.73	0.54
41:2j:68:HIS:CD2	41:2j:68:HIS:H	2.24	0.54
4:1E:181:LEU:HD21	15:1T:6:LEU:HD12	1.90	0.54
32:1a:1030(D):A:H2'	32:1a:1031:G:H4'	1.90	0.54
39:1h:12:ARG:HD2	39:1h:26:VAL:HG12	1.90	0.54
40:1i:55:ALA:HA	40:1i:58:HIS:HD2	1.72	0.54
1:2A:251:A:C5	1:2A:252:G:H1'	2.43	0.54
1:2A:2033:A:O2'	1:2A:2035:G:OP2	2.26	0.54
13:2R:104:ARG:HG3	13:2R:111:LEU:HD11	1.90	0.54
32:2a:457:C:H2'	32:2a:458:C:C6	2.43	0.54
32:2a:1118:C:H1'	32:2a:1179:A:C5	2.43	0.54
35:2d:5:ILE:H	35:2d:115:ARG:HH22	1.56	0.54
44:2m:60:VAL:HG12	44:2m:66:LEU:HD11	1.89	0.54
1:1A:323:G:C8	5:1F:171:PRO:HG3	2.42	0.54
1:1A:582:G:H2'	1:1A:583:G:C8	2.43	0.54
1:1A:2134:A:OP1	1:1A:2156:G:N2	2.40	0.54
3:1D:17:THR:HG1	3:1D:205:VAL:H	1.55	0.54
38:1g:69:VAL:HG21	38:1g:104:LEU:HD11	1.89	0.54
1:2A:792:G:N3	1:2A:2072:G:O2'	2.39	0.54
32:2a:17:U:H2'	32:2a:18:C:C6	2.42	0.54
32:2a:147:G:H2'	32:2a:148:G:H8	1.72	0.54
32:2a:707:C:H2'	32:2a:708:C:H6	1.72	0.54
42:2k:54:ARG:NH1	54:2y:39:G:O2'	2.41	0.54
42:2k:99:GLN:HA	42:2k:105:VAL:HG21	1.88	0.54
50:2s:41:VAL:HG12	50:2s:44:MET:HG3	1.90	0.54
1:1A:684:G:OP1	29:17:16:HIS:ND1	2.38	0.54
1:1A:2436:G:O2'	60:1A:4103:HOH:O	2.18	0.54
16:1U:81:HIS:CE1	16:1U:85:LYS:HE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1X:2:LYS:NZ	19:1X:38:GLU:OE2	2.28	0.54
32:1a:1429:C:H2'	32:1a:1430:C:C6	2.42	0.54
34:1c:153:VAL:HG22	34:1c:198:VAL:HG22	1.90	0.54
35:1d:12:CYS:CB	59:1d:302:SF4:S2	2.94	0.54
1:2A:271(D):G:H1	1:2A:271(T):C:H42	1.55	0.54
1:2A:733:G:OP2	60:2A:4164:HOH:O	2.18	0.54
1:2A:1030:G:OP2	12:2Q:128:LYS:NZ	2.40	0.54
1:2A:1913:A:H4'	1:2A:1914:C:O5'	2.07	0.54
1:2A:2538:C:H2'	1:2A:2539:C:C6	2.43	0.54
1:2A:2637:U:OP1	4:2E:82:ARG:NH1	2.40	0.54
8:2I:31:LEU:HD21	8:2I:38:LEU:HD23	1.88	0.54
15:2T:23:ARG:N	15:2T:26:ASP:OD2	2.38	0.54
32:2a:1277:C:O2'	32:2a:1279:A:H1'	2.08	0.54
32:2a:1304:G:O2'	32:2a:1333:A:N6	2.40	0.54
1:1A:2134:A:O2'	1:1A:2135:A:OP1	2.21	0.54
3:1D:12:SER:HB3	3:1D:208:LYS:HB3	1.90	0.54
34:1c:6:HIS:CD2	34:1c:8:ILE:H	2.26	0.54
48:1q:58:GLU:O	48:1q:74:LEU:N	2.31	0.54
1:2A:359:A:H2'	1:2A:360:G:O4'	2.08	0.54
1:2A:577:G:O6	60:2A:4919:HOH:O	2.18	0.54
1:2A:2223:G:OP1	3:2D:172:TYR:OH	2.23	0.54
19:2X:4:ALA:HB1	19:2X:42:ALA:HA	1.89	0.54
32:2a:1062:U:H2'	32:2a:1063:C:C6	2.43	0.54
32:2a:1512:U:H2'	32:2a:1513:A:C8	2.43	0.54
1:1A:882:G:H1	1:1A:894:C:N4	2.06	0.53
32:1a:626:U:H2'	32:1a:627:G:C8	2.43	0.53
1:2A:1782:C:O2	1:2A:2608:G:O2'	2.20	0.53
14:2S:67:ARG:HG2	14:2S:71:ARG:HE	1.73	0.53
32:2a:1065:U:H3	32:2a:1109:C:H5''	1.72	0.53
1:1A:911:A:H2'	12:1Q:9:TYR:OH	2.08	0.53
1:1A:1164:G:H1	1:1A:1185:C:H42	1.55	0.53
1:1A:1747(A):G:H2'	1:1A:1748:G:H8	1.73	0.53
26:14:40:HIS:HB3	26:14:43:TYR:HD2	1.73	0.53
32:1a:636:U:H2'	32:1a:637:G:C8	2.41	0.53
33:1b:102:LEU:HB3	33:1b:180:LEU:HD12	1.90	0.53
39:1h:4:ASP:OD2	39:1h:85:ARG:NE	2.33	0.53
1:2A:776:G:N7	1:2A:793:A:O2'	2.38	0.53
1:2A:994:C:OP1	16:2U:53:ARG:NH2	2.41	0.53
1:2A:2137:C:N3	1:2A:2154:G:N2	2.44	0.53
60:2A:5441:HOH:O	22:20:2:ALA:N	2.41	0.53
6:2G:11:TYR:O	6:2G:16:ARG:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2P:95:VAL:HG13	11:2P:125:VAL:HA	1.90	0.53
42:2k:52:GLY:H	42:2k:55:LYS:HE3	1.72	0.53
54:2y:8:4SU:S4	54:2y:14:A:N7	2.82	0.53
1:1A:86:C:H4'	1:1A:104:U:H1'	1.90	0.53
1:1A:380:U:H2'	1:1A:381:G:H8	1.71	0.53
32:1a:7:G:O2'	36:1e:120:THR:O	2.26	0.53
54:1y:59:U:H3'	54:1y:60:C:H6	1.73	0.53
1:2A:1272:A:H3'	1:2A:1273:U:H5''	1.91	0.53
1:2A:2025:C:H2'	1:2A:2026:C:C6	2.44	0.53
1:2A:2218:U:N3	23:21:55:GLY:O	2.31	0.53
6:2G:165:THR:OG1	6:2G:167:GLU:OE1	2.21	0.53
31:29:16:VAL:HG22	31:29:25:VAL:HG22	1.90	0.53
32:2a:976:G:H5'	32:2a:1358:U:O2'	2.07	0.53
32:2a:1198:G:H2'	32:2a:1199:U:C6	2.44	0.53
32:2a:1345:U:O2	32:2a:1375:A:N6	2.40	0.53
47:2p:26:ARG:NH1	47:2p:31:LYS:HB3	2.24	0.53
1:1A:1025:G:C4	1:1A:1135:C:H1'	2.44	0.53
1:1A:1105:U:H2'	1:1A:1106:G:H8	1.74	0.53
1:1A:1165:U:H2'	1:1A:1166:C:C6	2.44	0.53
2:1B:87:G:N2	2:1B:90:A:OP2	2.36	0.53
8:1I:87:LYS:HE2	8:1I:121:LYS:HE3	1.89	0.53
32:1a:757:U:H2'	32:1a:758:G:O4'	2.08	0.53
32:1a:1187:G:H4'	40:1i:111:ARG:NH1	2.24	0.53
1:2A:1662:C:O2'	1:2A:2687:U:OP1	2.22	0.53
3:2D:108:PRO:HB3	3:2D:143:HIS:CE1	2.43	0.53
21:2Z:141:VAL:C	21:2Z:143:GLY:H	2.17	0.53
32:2a:1516:G:N2	32:2a:1519:MA6:OP2	2.41	0.53
34:2c:70:VAL:HG22	34:2c:72:LYS:H	1.73	0.53
42:2k:22:HIS:O	42:2k:29:ILE:N	2.32	0.53
42:2k:98:LEU:O	42:2k:101:SER:OG	2.24	0.53
1:1A:548:A:N6	17:1V:19:LYS:H	2.06	0.53
5:1F:101:LEU:O	5:1F:106:ARG:NH1	2.41	0.53
32:1a:1027:C:C4	32:1a:1034:G:C2	2.96	0.53
54:1y:4:U:H2'	54:1y:5:G:O4'	2.08	0.53
1:2A:363:G:H2'	1:2A:363(A):A:H8	1.74	0.53
1:2A:2105:C:H2'	1:2A:2106:G:H8	1.73	0.53
7:2H:159:GLU:HG3	7:2H:169:VAL:HG11	1.90	0.53
36:2e:83:GLU:HB3	36:2e:88:LYS:HG3	1.90	0.53
5:1F:116:ASP:OD1	5:1F:119:ARG:NH2	2.42	0.53
12:1Q:38:GLU:HA	12:1Q:99:PRO:HG3	1.90	0.53
22:10:46:LYS:NZ	22:10:75:LEU:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1062:U:H2'	32:1a:1063:C:C6	2.43	0.53
1:2A:659:C:H2'	1:2A:660:G:H8	1.72	0.53
1:2A:973:A:H8	1:2A:973:A:OP1	1.91	0.53
1:2A:1782:C:OP1	60:2A:6383:HOH:O	2.18	0.53
15:2T:118:ARG:HG2	32:2a:1442(A):G:C8	2.44	0.53
32:2a:352:C:O2	32:2a:355:C:N4	2.39	0.53
32:2a:862:C:H1'	32:2a:874:G:H5''	1.90	0.53
44:2m:80:ARG:HD2	50:2s:65:ASN:HB2	1.90	0.53
46:2o:4:THR:OG1	46:2o:7:GLU:OE2	2.26	0.53
54:2y:28:C:N3	54:2y:42:G:N2	2.57	0.53
1:1A:26:G:O2'	1:1A:514:A:N6	2.39	0.53
1:1A:31:C:OP1	60:1A:5563:HOH:O	2.19	0.53
1:1A:1058:G:H1	1:1A:1080:C:N4	2.06	0.53
4:1E:3:GLY:HA3	4:1E:81:ILE:HG21	1.90	0.53
18:1W:17:VAL:O	18:1W:20:VAL:N	2.41	0.53
32:1a:401:C:H2'	32:1a:402:G:C8	2.44	0.53
54:1y:71:C:H2'	54:1y:72:C:C6	2.43	0.53
1:2A:228:A:O2'	1:2A:229:A:O4'	2.27	0.53
1:2A:2206:G:H3'	1:2A:2207:G:C8	2.44	0.53
1:2A:2261:C:H1'	1:2A:2388:A:N3	2.23	0.53
1:2A:2848:G:H1'	1:2A:2867:G:N2	2.24	0.53
2:2B:103:G:N2	21:2Z:73:GLN:OE1	2.37	0.53
32:2a:56:U:H2'	32:2a:57:G:H8	1.74	0.53
32:2a:560:U:H4'	32:2a:561:U:O5'	2.08	0.53
1:1A:1587:A:H2'	1:1A:1588:C:C6	2.44	0.53
15:1T:65:LYS:HE2	15:1T:67:SER:HB2	1.91	0.53
17:1V:5:VAL:HG21	17:1V:35:LEU:HD23	1.91	0.53
32:1a:658:G:OP1	46:1o:8:LYS:NZ	2.41	0.53
32:1a:1068:G:H8	32:1a:1068:G:OP2	1.92	0.53
32:1a:1119:C:OP1	40:1i:83:ARG:NH1	2.41	0.53
51:1t:43:LEU:HD13	51:1t:51:GLU:HB3	1.90	0.53
1:2A:27:G:N2	1:2A:512:G:H1'	2.23	0.53
1:2A:535:C:H2'	1:2A:536:A:H8	1.72	0.53
1:2A:2105:C:H2'	1:2A:2106:G:C8	2.44	0.53
4:2E:168:MET:HE1	4:2E:202:LYS:HD2	1.91	0.53
21:2Z:76:LEU:HA	21:2Z:83:PRO:HA	1.91	0.53
32:2a:986:A:O2'	50:2s:55:LYS:O	2.27	0.53
32:2a:1163:C:N4	32:2a:1173:G:H1	2.05	0.53
32:2a:1165:C:N4	32:2a:1171:G:H1	2.07	0.53
42:2k:23:ALA:HA	42:2k:28:THR:HA	1.90	0.53
46:2o:33:THR:HG23	46:2o:63:ARG:HH11	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:442:G:H4'	5:1F:46:ARG:HG3	1.91	0.53
1:1A:2591:C:H2'	1:1A:2592:G:C8	2.43	0.53
3:1D:3:VAL:HG12	3:1D:17:THR:HB	1.91	0.53
15:1T:74:ARG:HG2	15:1T:76:PHE:CZ	2.44	0.53
32:1a:19:C:H2'	32:1a:20:U:H6	1.74	0.53
32:1a:1212:U:H5'	32:1a:1213:A:H5'	1.91	0.53
1:2A:144:C:H2'	1:2A:145:G:H8	1.74	0.53
1:2A:236:C:H2'	1:2A:237:C:C6	2.44	0.53
1:2A:524:U:H2'	1:2A:525:U:C6	2.44	0.53
1:2A:2242:G:OP1	60:2A:3906:HOH:O	2.19	0.53
1:2A:2671:A:H2'	1:2A:2672:G:O4'	2.09	0.53
6:2G:11:TYR:HA	6:2G:15:VAL:HB	1.91	0.53
8:2I:93:THR:H	8:2I:96:ASP:HB2	1.73	0.53
32:2a:636:U:H2'	32:2a:637:G:H8	1.73	0.53
34:2c:20:SER:HB3	34:2c:22:TRP:HE1	1.74	0.53
1:1A:1053:C:N3	1:1A:1106:G:N2	2.52	0.53
1:1A:2853:C:H2'	1:1A:2854:G:H8	1.74	0.53
32:1a:626:U:H2'	32:1a:627:G:H8	1.74	0.53
1:2A:658:C:H2'	1:2A:659:C:C6	2.44	0.53
1:2A:1246:A:O2'	5:2F:45:ARG:NH1	2.36	0.53
1:2A:1818:U:O2'	3:2D:154:LYS:O	2.13	0.53
1:2A:2152:G:C2	1:2A:2153:G:H1'	2.44	0.53
1:2A:2886:G:H2'	1:2A:2887:U:H6	1.72	0.53
22:20:65:GLY:HA3	22:20:83:PRO:HA	1.91	0.53
32:2a:1359:C:OP1	45:2n:22:THR:OG1	2.15	0.53
35:2d:173:TRP:CD1	35:2d:189:PRO:HG3	2.43	0.53
44:2m:78:ILE:HA	44:2m:81:LEU:HD12	1.91	0.53
1:1A:534:U:H2'	1:1A:535:C:C6	2.44	0.52
1:1A:956:G:H2'	1:1A:957:A:H2'	1.91	0.52
1:1A:1094:U:H2'	1:1A:1095:A:C8	2.44	0.52
1:1A:1750:G:O2'	1:1A:2860:A:N1	2.38	0.52
1:1A:2224:G:H4'	1:1A:2226:C:C2	2.45	0.52
1:1A:2751:G:H4'	7:1H:4:ILE:HD11	1.91	0.52
32:1a:299:G:H2'	32:1a:300:A:C8	2.44	0.52
38:1g:64:GLN:HE21	38:1g:68:ASN:HD21	1.56	0.52
1:2A:698:C:O2'	1:2A:734:A:N6	2.42	0.52
1:2A:708:C:H42	1:2A:723:G:H1	1.56	0.52
1:2A:947:G:H2'	1:2A:948:G:C8	2.44	0.52
1:2A:2291:U:H2'	1:2A:2292:C:C6	2.44	0.52
1:2A:2841:C:H2'	1:2A:2842:G:C8	2.44	0.52
32:2a:160:A:H61	32:2a:347:G:H1'	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:646:U:H2'	32:2a:647:C:C6	2.44	0.52
35:2d:32:ALA:O	35:2d:36:ARG:N	2.42	0.52
36:2e:79:GLU:OE1	36:2e:79:GLU:N	2.32	0.52
1:1A:832:G:OP1	60:1A:5587:HOH:O	2.19	0.52
60:1A:4987:HOH:O	30:18:30:ARG:NH1	2.41	0.52
2:1B:41:U:OP1	2:1B:43:C:N4	2.41	0.52
7:1H:3:ARG:NH1	7:1H:4:ILE:H	2.07	0.52
32:1a:395:C:N4	60:1a:3740:HOH:O	2.43	0.52
32:1a:769:G:OP2	32:1a:803:G:O2'	2.24	0.52
32:1a:971:G:N1	32:1a:1363(A):A:OP2	2.40	0.52
34:1c:3:ASN:OD1	34:1c:3:ASN:N	2.43	0.52
1:2A:8:A:H2'	1:2A:9:U:H6	1.74	0.52
1:2A:2114:A:H2	1:2A:2171:A:H61	1.56	0.52
1:2A:2781:A:H5''	1:2A:2782:G:H5'	1.90	0.52
6:2G:16:ARG:HB3	6:2G:17:PRO:HD3	1.91	0.52
13:2R:56:LYS:NZ	13:2R:90:ARG:O	2.42	0.52
32:2a:376:G:H5''	47:2p:5:ARG:HD2	1.92	0.52
32:2a:1060:C:OP1	45:2n:45:ARG:NH2	2.42	0.52
50:2s:51:VAL:HB	50:2s:75:ALA:HB2	1.92	0.52
1:1A:222:A:H5''	1:1A:421:U:OP1	2.09	0.52
1:1A:1174:A:H1'	1:1A:1175:U:H5''	1.89	0.52
32:1a:1435:G:H2'	32:1a:1436:U:C6	2.45	0.52
1:2A:2150:U:H2'	1:2A:2151:G:C8	2.42	0.52
1:2A:2470:G:O6	1:2A:2481:G:N2	2.42	0.52
1:2A:2611:U:C5	57:2A:3875:ERY:H312	2.44	0.52
15:2T:39:ARG:HH12	15:2T:41:ARG:HD3	1.74	0.52
21:2Z:18:LEU:HD23	21:2Z:25:PRO:HG3	1.90	0.52
22:20:38:VAL:HG11	22:20:45:PHE:HD2	1.73	0.52
32:2a:309:G:H2'	32:2a:310:G:H8	1.74	0.52
32:2a:509:A:N3	32:2a:543:C:O2'	2.35	0.52
32:2a:1251:A:O2'	32:2a:1369:C:O2'	2.28	0.52
1:1A:620:G:N3	1:1A:620:G:H5'	2.25	0.52
1:1A:2646:C:H2'	1:1A:2647:U:O4'	2.10	0.52
21:1Z:45:ASP:OD1	21:1Z:49:ARG:NE	2.40	0.52
54:1y:5:G:N2	54:1y:68:C:N3	2.49	0.52
1:2A:184:C:H1'	1:2A:217:G:H1'	1.90	0.52
1:2A:188:G:H5'	23:21:14:VAL:HG21	1.91	0.52
1:2A:1231:G:H2'	1:2A:1232:G:C8	2.44	0.52
1:2A:2693:A:H2'	1:2A:2694:G:C8	2.44	0.52
23:21:5:CYS:SG	23:21:8:SER:OG	2.61	0.52
32:2a:373:A:H2'	32:2a:374:A:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:250:G:OP2	30:18:13:ARG:NH2	2.39	0.52
1:1A:2125:G:H1'	1:1A:2173:A:H61	1.75	0.52
32:1a:973:G:H3'	32:1a:974:A:H5''	1.92	0.52
32:1a:1237:C:O2'	32:1a:1300:G:N2	2.38	0.52
39:1h:13:ILE:O	39:1h:17:THR:OG1	2.21	0.52
1:2A:1451:C:H4'	1:2A:1452:A:C8	2.44	0.52
3:2D:71:ASP:HB3	3:2D:103:ARG:HH12	1.74	0.52
4:2E:125:GLY:HA3	4:2E:134:ILE:HD12	1.91	0.52
6:2G:113:ARG:NH2	6:2G:139:LEU:O	2.39	0.52
9:2N:38:HIS:CD2	9:2N:39:ARG:HG3	2.44	0.52
32:2a:301:G:H2'	32:2a:302:G:C8	2.45	0.52
33:2b:175:ARG:O	33:2b:179:LYS:HB2	2.09	0.52
34:2c:55:VAL:HG22	34:2c:68:VAL:HG13	1.92	0.52
41:2j:51:ARG:O	45:2n:45:ARG:NH1	2.43	0.52
1:1A:603:A:N1	1:1A:625:G:O2'	2.42	0.52
2:1B:88:C:H2'	2:1B:89:G:O4'	2.09	0.52
28:16:6:ARG:NH1	28:16:26:ASN:HB2	2.25	0.52
41:1j:9:ARG:HG2	41:1j:69:ASN:HA	1.92	0.52
1:2A:1379:A:H4'	1:2A:1380:G:OP2	2.09	0.52
1:2A:2355:C:H1'	22:20:39:ARG:HH21	1.74	0.52
32:2a:70:G:H1	32:2a:99:U:H3	1.58	0.52
32:2a:254:G:OP1	48:2q:66:SER:OG	2.28	0.52
33:2b:28:PHE:HE2	33:2b:42:ILE:HG12	1.75	0.52
37:2f:6:VAL:HG13	37:2f:90:VAL:HG22	1.91	0.52
41:2j:69:ASN:O	41:2j:70:ARG:NH1	2.42	0.52
42:2k:31:THR:HG23	42:2k:42:TRP:HB3	1.91	0.52
2:1B:86:G:H1	2:1B:91:C:H42	1.57	0.52
3:1D:25:THR:HG21	3:1D:113:VAL:HG11	1.91	0.52
26:14:58:ARG:HD2	26:14:58:ARG:N	2.25	0.52
32:1a:62:U:O2'	32:1a:379:C:O2	2.27	0.52
32:1a:1202:G:H1'	45:1n:29:ARG:HD2	1.91	0.52
32:1a:1223:C:OP2	50:1s:78:ARG:NH2	2.42	0.52
33:1b:124:SER:HB3	33:1b:125:PRO:CD	2.40	0.52
34:1c:152:ILE:HB	34:1c:199:LYS:HB2	1.92	0.52
38:1g:153:HIS:CE1	42:1k:58:PRO:HD2	2.45	0.52
43:1l:54:LYS:HG2	43:1l:75:HIS:HD2	1.75	0.52
54:1w:65:C:H2'	54:1w:66:A:C8	2.44	0.52
1:2A:1116:C:H2'	1:2A:1117:G:C8	2.45	0.52
32:2a:707:C:H2'	32:2a:708:C:C6	2.44	0.52
47:2p:22:THR:HA	47:2p:33:ILE:HG13	1.92	0.52
48:2q:78:GLU:OE1	48:2q:81:ARG:NH1	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1009:A:OP2	9:1N:37:LYS:NZ	2.38	0.52
1:1A:1151:G:H5''	16:1U:81:HIS:CD2	2.44	0.52
1:1A:1266:G:O5'	18:1W:15:ARG:NH2	2.42	0.52
1:1A:2206:G:H5''	1:1A:2207:G:C5	2.44	0.52
3:1D:108:PRO:HB3	3:1D:143:HIS:CE1	2.45	0.52
24:12:28:LYS:HD2	24:12:53:LEU:HD21	1.92	0.52
32:1a:17:U:H2'	32:1a:18:C:C6	2.45	0.52
32:1a:998:G:N1	32:1a:1043:C:N4	2.34	0.52
32:1a:1286:A:H2	52:1u:18:TYR:HH	1.57	0.52
54:1w:46:7MG:H3'	54:1w:47:U:H5''	1.92	0.52
1:2A:1449:A:H2	1:2A:1529:G:H1'	1.74	0.52
2:2B:91:C:H5'	12:2Q:18:LYS:HA	1.91	0.52
5:2F:148:LEU:HD13	5:2F:154:VAL:HG21	1.91	0.52
12:2Q:68:ILE:HG22	12:2Q:101:ARG:HE	1.74	0.52
17:2V:76:LYS:HB2	17:2V:81:TYR:HB3	1.91	0.52
26:24:41:PRO:HG3	26:24:49:PHE:CZ	2.45	0.52
32:2a:636:U:H2'	32:2a:637:G:C8	2.45	0.52
32:2a:757:U:H2'	32:2a:758:G:O4'	2.09	0.52
32:2a:953:G:H5'	32:2a:965:A:N6	2.25	0.52
32:2a:954:G:H1	32:2a:1226:C:N4	2.08	0.52
32:2a:1359:C:H3'	45:2n:35:ARG:HH12	1.73	0.52
41:2j:6:ILE:HB	41:2j:72:VAL:HG23	1.92	0.52
1:1A:2552:2MU:O5'	1:1A:2552:2MU:H6	2.10	0.52
5:1F:184:TYR:CE2	5:1F:188:ARG:HD2	2.45	0.52
7:1H:96:ALA:HB1	7:1H:103:LEU:HD11	1.91	0.52
32:1a:19:C:H2'	32:1a:20:U:C6	2.45	0.52
32:1a:1145:C:H4'	32:1a:1146:A:H5'	1.91	0.52
1:2A:1593:G:H2'	1:2A:1594:G:C8	2.45	0.52
1:2A:2290:G:N2	1:2A:2373:G:O2'	2.42	0.52
1:2A:2577:A:H5'	27:25:3:LYS:HZ3	1.75	0.52
1:2A:2630:G:H1	1:2A:2788:C:H42	1.57	0.52
4:2E:1:MET:HE3	4:2E:199:ARG:HB3	1.91	0.52
6:2G:9:ARG:NE	6:2G:13:GLU:OE2	2.42	0.52
6:2G:150:ASP:OD1	6:2G:150:ASP:N	2.43	0.52
17:2V:7:THR:HG23	17:2V:12:TYR:HE2	1.75	0.52
32:2a:1009:G:N2	32:2a:1021:G:H1'	2.25	0.52
1:1A:234:C:H2'	1:1A:235:U:H6	1.74	0.52
1:1A:881:G:H1	1:1A:897:C:H42	1.57	0.52
1:1A:2488:A:N6	60:1A:4131:HOH:O	2.39	0.52
32:1a:1314:C:H2'	32:1a:1315:U:C6	2.45	0.52
32:1a:1441:G:O2'	32:1a:1442:G:N2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:1p:6:LEU:HB3	47:1p:17:TYR:HD1	1.75	0.52
1:2A:942:G:OP2	11:2P:39:LYS:NZ	2.31	0.52
1:2A:2126:A:N6	1:2A:2162:G:HO2'	2.07	0.52
1:2A:2624:G:N7	60:2A:6325:HOH:O	2.34	0.52
1:2A:2870:C:H2'	1:2A:2871:C:O4'	2.09	0.52
5:2F:116:ASP:OD2	11:2P:1:MET:N	2.26	0.52
6:2G:15:VAL:HA	6:2G:175:LEU:HD23	1.92	0.52
32:2a:21:G:H2'	32:2a:22:G:C8	2.45	0.52
32:2a:1279:A:OP2	41:2j:9:ARG:NH1	2.43	0.52
33:2b:115:LEU:HB2	33:2b:145:LEU:HD13	1.91	0.52
1:1A:27:G:H22	1:1A:512:G:H1'	1.75	0.51
1:1A:2306:C:O2	60:1G:301:HOH:O	2.18	0.51
1:1A:2710:C:H2'	1:1A:2711:A:C8	2.45	0.51
18:1W:13:SER:HB3	18:1W:16:LYS:HD2	1.92	0.51
25:13:7:LYS:HB2	25:13:34:GLU:HG3	1.93	0.51
32:1a:1179:A:H4'	40:1i:103:THR:HA	1.91	0.51
32:1a:1349:A:H5''	40:1i:121:ARG:HB2	1.91	0.51
35:1d:85:LYS:HG2	35:1d:86:LYS:H	1.75	0.51
40:1i:31:GLN:HE21	40:1i:36:TYR:HA	1.75	0.51
40:1i:49:PRO:HD2	40:1i:81:ILE:HD11	1.92	0.51
45:1n:23:ARG:NH1	45:1n:30:ALA:HB2	2.25	0.51
1:2A:322:A:OP2	5:2F:169:ASN:HB2	2.09	0.51
1:2A:2623:G:H2'	1:2A:2624:G:C8	2.44	0.51
2:2B:55:U:O3'	6:2G:27:ASN:ND2	2.36	0.51
8:2I:93:THR:HG22	8:2I:119:PRO:HB3	1.91	0.51
21:2Z:69:THR:HG22	21:2Z:90:VAL:HA	1.92	0.51
32:2a:876:G:O2'	39:2h:11:THR:OG1	2.28	0.51
54:2w:53:G:H1	54:2w:61:C:H42	1.57	0.51
1:1A:234:C:H2'	1:1A:235:U:C6	2.45	0.51
1:1A:671:C:N4	60:1A:5643:HOH:O	2.43	0.51
1:1A:1779:U:OP2	60:1A:6070:HOH:O	2.19	0.51
8:1I:40:THR:O	8:1I:44:LEU:HB2	2.11	0.51
24:12:9:GLN:HE22	24:12:56:GLN:HB3	1.76	0.51
32:1a:115:G:H4'	32:1a:116:A:O5'	2.09	0.51
32:1a:625:G:H2'	32:1a:626:U:C6	2.44	0.51
46:1o:26:GLU:OE2	46:1o:77:ARG:NE	2.39	0.51
1:2A:861:A:N3	2:2B:79:C:O2'	2.42	0.51
1:2A:1711:C:H2'	1:2A:1712:C:C6	2.45	0.51
32:2a:1026:G:H1	32:2a:1036:G:N2	2.09	0.51
38:2g:69:VAL:HG21	38:2g:104:LEU:HD11	1.91	0.51
50:2s:65:ASN:OD1	50:2s:65:ASN:N	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:271(H):G:H1	1:1A:271(P):C:H42	1.57	0.51
1:1A:1272:A:O2'	60:1A:4101:HOH:O	2.13	0.51
3:1D:206:LEU:O	3:1D:211:ARG:HD3	2.10	0.51
14:1S:35:ILE:HD13	14:1S:101:LEU:HD12	1.93	0.51
32:1a:1422:G:H1	32:1a:1478:C:H42	1.58	0.51
41:1j:38:ILE:HG13	41:1j:71:LEU:HB3	1.91	0.51
1:2A:2152:G:C4	1:2A:2153:G:H1'	2.46	0.51
1:2A:2689:U:P	1:2A:2719:G:H22	2.33	0.51
18:2W:58:ALA:HA	18:2W:62:HIS:HB2	1.91	0.51
21:2Z:48:PHE:HE1	21:2Z:71:VAL:HG11	1.75	0.51
32:2a:273:A:N7	60:2a:2191:HOH:O	2.34	0.51
32:2a:1327:C:H2'	32:2a:1328:C:H6	1.75	0.51
49:2r:58:LEU:HD11	49:2r:66:LEU:HD13	1.92	0.51
10:1O:68:GLU:H	10:1O:68:GLU:CD	2.18	0.51
32:1a:1442:G:H2'	32:1a:1442:G:N3	2.26	0.51
33:1b:134:GLU:O	33:1b:138:LEU:HG	2.10	0.51
54:1y:33:U:H6	54:1y:37:6MZ:H9C1	1.75	0.51
1:2A:839:U:H2'	1:2A:840:C:C6	2.46	0.51
1:2A:1037:G:H2'	1:2A:1038:C:O4'	2.10	0.51
21:2Z:99:TYR:HA	21:2Z:124:ILE:O	2.11	0.51
21:2Z:151:HIS:ND1	21:2Z:169:GLU:O	2.43	0.51
32:2a:390:C:H2'	32:2a:391:G:C8	2.46	0.51
32:2a:1315:U:H2'	32:2a:1316:G:O4'	2.09	0.51
33:2b:98:LEU:HD12	33:2b:101:MET:HE3	1.93	0.51
1:1A:247:G:H4'	1:1A:386:G:C5	2.46	0.51
1:1A:2153:G:H2'	1:1A:2154:G:C8	2.45	0.51
18:1W:46:PHE:O	18:1W:50:VAL:HG23	2.11	0.51
20:1Y:28:LYS:NZ	20:1Y:64:GLU:OE1	2.33	0.51
32:1a:1064:G:H4'	32:1a:1065:U:OP1	2.08	0.51
38:1g:22:LEU:HG	38:1g:62:PHE:HE2	1.75	0.51
39:1h:21:LYS:O	39:1h:65:TYR:OH	2.29	0.51
1:2A:599:G:H5'	11:2P:9:ASN:HD22	1.75	0.51
1:2A:1423:G:H2'	1:2A:1424:G:H8	1.76	0.51
1:2A:2378:A:H2'	14:2S:21:THR:HG21	1.91	0.51
2:2B:66:A:N6	2:2B:108:U:H3'	2.23	0.51
30:28:6:THR:HG22	30:28:63:PRO:HD2	1.92	0.51
32:2a:130:A:O2'	32:2a:131:C:O5'	2.27	0.51
1:1A:1095:A:H2'	1:1A:1096:A:C8	2.46	0.51
1:1A:1490:A:O2'	3:1D:99:ASP:OD1	2.28	0.51
1:1A:2464:C:OP2	60:1A:4104:HOH:O	2.19	0.51
32:1a:376:G:H2'	32:1a:377:G:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:892:A:O2'	32:1a:1415:G:H4'	2.10	0.51
32:1a:950:U:H3'	44:1m:102:ARG:HH12	1.76	0.51
42:1k:85:ARG:NH2	42:1k:111:ASP:OD2	2.39	0.51
54:1y:2:G:O6	54:1y:71:C:N3	2.43	0.51
1:2A:90:U:H1'	1:2A:92:A:C8	2.46	0.51
1:2A:1296:G:OP1	1:2A:2709:G:O2'	2.21	0.51
1:2A:1773:A:OP2	60:2A:4856:HOH:O	2.19	0.51
1:2A:2785:C:H1'	4:2E:66:HIS:CE1	2.46	0.51
2:2B:55:U:H2'	2:2B:56:G:O4'	2.10	0.51
5:2F:150:GLY:HA2	5:2F:172:TRP:CD2	2.45	0.51
32:2a:538:G:H5''	43:2l:114:LYS:HB2	1.93	0.51
32:2a:928:G:H2'	32:2a:929:G:H8	1.75	0.51
32:2a:1076:C:OP1	33:2b:179:LYS:NZ	2.39	0.51
33:2b:12:GLU:O	33:2b:15:VAL:HG22	2.10	0.51
33:2b:51:LEU:HD21	33:2b:201:ILE:HG23	1.92	0.51
1:1A:432:A:N6	60:1A:4756:HOH:O	2.38	0.51
1:1A:484:C:H2'	1:1A:485:C:C6	2.45	0.51
1:1A:1789:A:H5''	3:1D:220:HIS:O	2.10	0.51
1:1A:1799:G:N7	3:1D:179:SER:OG	2.43	0.51
5:1F:51:THR:HB	5:1F:88:VAL:HG11	1.92	0.51
7:1H:20:ALA:HB1	7:1H:21:PRO:HD2	1.93	0.51
21:1Z:11:GLU:O	21:1Z:36:LYS:NZ	2.30	0.51
32:1a:184:G:H2'	32:1a:185:A:C8	2.46	0.51
40:1i:26:VAL:HG13	40:1i:61:ALA:HB3	1.92	0.51
1:2A:662:G:H5''	11:2P:16:ARG:HG2	1.91	0.51
1:2A:1913:A:H4'	1:2A:1914:C:C5'	2.41	0.51
1:2A:2070:G:H2'	1:2A:2071:A:C8	2.45	0.51
1:2A:2652:C:H2'	1:2A:2653:U:O4'	2.11	0.51
3:2D:69:ARG:NH1	3:2D:128:GLY:O	2.37	0.51
3:2D:133:LEU:HA	3:2D:136:ILE:HD12	1.93	0.51
21:2Z:50:GLN:OE1	21:2Z:50:GLN:N	2.44	0.51
32:2a:241:C:H42	32:2a:285:G:H1	1.59	0.51
32:2a:406:G:O2'	35:2d:3:ARG:NH2	2.39	0.51
32:2a:862:C:H42	32:2a:867:G:H1	1.57	0.51
39:2h:10:LEU:HD22	39:2h:83:ILE:HD11	1.91	0.51
1:1A:862:G:H2'	1:1A:863:A:O4'	2.11	0.51
1:1A:1686:C:H2'	1:1A:1687:G:O4'	2.11	0.51
32:1a:601:C:H2'	32:1a:602:A:C8	2.46	0.51
39:1h:68:ARG:HA	39:1h:76:PRO:HG3	1.93	0.51
46:1o:82:ILE:O	46:1o:86:GLY:N	2.42	0.51
50:1s:63:THR:HG23	50:1s:66:MET:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:2H:154:PRO:HB3	7:2H:163:TYR:CZ	2.46	0.51
32:2a:489:C:H2'	32:2a:490:G:H8	1.76	0.51
32:2a:714:G:H2'	32:2a:715:A:C8	2.46	0.51
32:2a:1497:G:H1'	32:2a:1518:MA6:H2	1.93	0.51
54:2w:43:G:H2'	54:2w:44:G:C8	2.46	0.51
3:1D:260:ARG:NH1	3:1D:267:SER:OG	2.39	0.51
32:1a:160:A:H1'	32:1a:344:A:C4	2.46	0.51
32:1a:376:G:H2'	32:1a:377:G:C8	2.45	0.51
32:1a:1070:U:H2'	32:1a:1071:C:H6	1.76	0.51
32:1a:1095:U:P	32:1a:1108:G:H1	2.33	0.51
40:1i:49:PRO:HD3	40:1i:78:LYS:HG3	1.93	0.51
1:2A:840:C:OP2	1:2A:932:G:N2	2.40	0.51
1:2A:1170:G:O6	1:2A:1180:C:N4	2.44	0.51
1:2A:2227:A:OP1	3:2D:263:ARG:NH1	2.39	0.51
22:20:51:VAL:HG22	22:20:81:VAL:HG23	1.92	0.51
23:21:3:LYS:HB2	23:21:61:ARG:HH12	1.74	0.51
32:2a:923:A:N6	32:2a:1392:G:O6	2.44	0.51
32:2a:1007:C:O2	32:2a:1022:G:N1	2.41	0.51
33:2b:119:GLU:OE2	33:2b:153:ARG:NH1	2.43	0.51
37:2f:100:ASN:HD21	49:2r:23:LYS:HG2	1.75	0.51
44:2m:29:ARG:HB3	44:2m:64:TRP:CZ3	2.46	0.51
1:1A:1689:A:H2'	1:1A:1690:A:C8	2.46	0.51
1:1A:1971:A:C4	3:1D:241:PRO:HD3	2.46	0.51
1:1A:1972:A:H2'	1:1A:1973:G:H8	1.76	0.51
6:1G:179:PRO:HB2	26:14:42:PHE:HE2	1.76	0.51
14:1S:38:GLN:HE21	14:1S:47:THR:HG21	1.76	0.51
36:1e:105:VAL:HB	36:1e:106:PRO:HD3	1.92	0.51
36:1e:110:LEU:HD13	36:1e:118:ILE:HG21	1.92	0.51
48:1q:24:GLU:HG2	48:1q:39:SER:HB3	1.93	0.51
54:1y:7:U:O2'	54:1y:49:G:OP2	2.20	0.51
1:2A:403:U:H4'	1:2A:404:C:H5'	1.92	0.51
1:2A:2023:G:H5'	1:2A:2617:C:H4'	1.93	0.51
1:2A:2140:C:H2'	1:2A:2141:G:H5'	1.93	0.51
1:2A:2322:A:H3'	1:2A:2323:G:H8	1.76	0.51
4:2E:47:VAL:HG11	4:2E:86:PRO:HD2	1.93	0.51
7:2H:87:LEU:HD21	7:2H:145:ALA:HB1	1.92	0.51
15:2T:2:ASN:OD1	15:2T:5:ALA:N	2.39	0.51
32:2a:664:G:N2	32:2a:741:G:H1	2.09	0.51
32:2a:957:U:H2'	32:2a:959:A:OP2	2.11	0.51
32:2a:1327:C:H2'	32:2a:1328:C:C6	2.46	0.51
32:2a:1330:U:H2'	32:2a:1331:G:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1479:C:H2'	32:2a:1480:G:H8	1.75	0.51
35:2d:121:VAL:HG22	35:2d:126:ILE:HG13	1.92	0.51
39:2h:29:SER:HB3	39:2h:32:LYS:HG3	1.93	0.51
41:2j:65:LEU:HD13	45:2n:56:VAL:HG22	1.93	0.51
1:1A:548:A:H1'	1:1A:549:G:OP1	2.10	0.50
1:1A:1826:G:H4'	3:1D:242:ARG:CZ	2.40	0.50
3:1D:11:PRO:O	3:1D:14:ARG:HG3	2.12	0.50
10:1O:59:LYS:NZ	10:1O:89:ASN:OD1	2.44	0.50
21:1Z:28:MET:HE2	21:1Z:35:ARG:HB2	1.93	0.50
32:1a:45:U:OP1	32:1a:307:C:O2'	2.28	0.50
32:1a:271:C:H2'	32:1a:272:C:H6	1.75	0.50
32:1a:431:A:H2'	32:1a:432:A:O4'	2.11	0.50
32:1a:789:U:O2'	32:1a:791:G:N7	2.40	0.50
32:1a:859:A:H2'	32:1a:860:A:O4'	2.10	0.50
34:1c:18:TRP:O	34:1c:54:ARG:NH2	2.42	0.50
35:1d:60:GLU:HG3	35:1d:202:LEU:HD13	1.93	0.50
1:2A:1794:U:H2'	1:2A:1795:C:C6	2.47	0.50
1:2A:2126:A:H61	1:2A:2162:G:HO2'	1.55	0.50
7:2H:105:LEU:O	7:2H:113:VAL:N	2.41	0.50
32:2a:253:U:H2'	32:2a:254:G:H8	1.76	0.50
32:2a:1004:A:H5''	32:2a:1024:G:H22	1.76	0.50
32:2a:1052:U:O4	32:2a:1200:C:O2'	2.27	0.50
32:2a:1316:G:H5''	45:2n:17:LYS:HE2	1.93	0.50
32:2a:1427:U:H2'	32:2a:1428:A:C8	2.46	0.50
33:2b:117:GLU:O	33:2b:121:LEU:HB2	2.11	0.50
1:1A:1420:U:O2'	1:1A:1421:G:OP1	2.28	0.50
1:1A:2183:C:O2'	1:1A:2184:G:OP1	2.27	0.50
1:1A:2364:C:H2'	1:1A:2365:G:O4'	2.12	0.50
1:1A:2430:A:N3	1:1A:2430:A:H2'	2.25	0.50
44:1m:96:LEU:C	44:1m:110:ARG:HG2	2.36	0.50
50:1s:49:ILE:HD12	50:1s:71:LEU:HD11	1.92	0.50
55:1x:22:G:H2'	55:1x:23:C:C6	2.46	0.50
1:2A:171:G:H2'	1:2A:172:C:H6	1.76	0.50
1:2A:1512:U:H2'	1:2A:1513:C:C6	2.47	0.50
1:2A:1878:G:H2'	1:2A:1879:C:C6	2.46	0.50
1:2A:2143:C:H2'	1:2A:2144:U:O4'	2.10	0.50
18:2W:17:VAL:HG11	18:2W:103:ILE:HD11	1.93	0.50
32:2a:363:A:OP2	43:2l:34:ARG:NH1	2.44	0.50
1:1A:286:C:H2'	1:1A:287:C:C6	2.47	0.50
1:1A:668:G:H5'	1:1A:669:G:OP2	2.11	0.50
5:1F:172:TRP:CD1	5:1F:172:TRP:H	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1Q:12:GLN:H	12:1Q:73:PRO:HG2	1.75	0.50
32:1a:183:G:H21	32:1a:223:U:HO2'	1.55	0.50
32:1a:726:C:H2'	32:1a:727:G:C8	2.46	0.50
1:2A:1335:U:OP1	19:2X:65:ARG:NH1	2.43	0.50
1:2A:2089:U:H3	1:2A:2230:G:H1	1.59	0.50
2:2B:83:G:H1	2:2B:94:C:H42	1.58	0.50
5:2F:155:LEU:HB2	5:2F:189:THR:HG21	1.93	0.50
7:2H:154:PRO:HA	7:2H:160:LYS:O	2.10	0.50
15:2T:91:ARG:HH11	15:2T:120:ARG:HH12	1.60	0.50
24:22:35:LEU:HD11	24:22:49:LYS:HB2	1.92	0.50
26:24:26:SER:OG	26:24:27:THR:N	2.44	0.50
32:2a:174:C:H2'	32:2a:175:C:H6	1.77	0.50
32:2a:1292:U:H2'	32:2a:1293:G:O4'	2.11	0.50
41:2j:8:LEU:O	41:2j:70:ARG:HB2	2.11	0.50
1:1A:579:G:H2'	1:1A:580:C:C6	2.47	0.50
1:1A:686:G:N2	1:1A:788:A:H61	2.09	0.50
1:1A:2286:A:H4'	1:1A:2287:A:O4'	2.11	0.50
1:1A:2815:C:H5'	27:15:29:THR:HG21	1.92	0.50
1:1A:2841:C:H2'	1:1A:2842:G:H8	1.77	0.50
8:1I:116:LEU:HD21	8:1I:119:PRO:HA	1.93	0.50
17:1V:27:ALA:O	17:1V:64:HIS:NE2	2.42	0.50
32:1a:337:C:H2'	32:1a:338:A:C8	2.46	0.50
32:1a:412:A:C6	35:1d:35:ARG:HG3	2.46	0.50
1:2A:247:G:H4'	1:2A:386:G:C5	2.47	0.50
1:2A:661:C:H2'	1:2A:662:G:C8	2.46	0.50
1:2A:1580:A:H3'	1:2A:1581:G:H8	1.76	0.50
1:2A:2849:U:H4'	1:2A:2868:A:C2	2.46	0.50
60:2A:6365:HOH:O	4:2E:127:ASP:OD2	2.18	0.50
32:2a:321:A:H2	32:2a:332:G:H22	1.60	0.50
32:2a:975:A:N1	41:2j:48:THR:HB	2.26	0.50
54:2y:65:C:H2'	54:2y:66:A:C8	2.47	0.50
1:1A:380:U:H2'	1:1A:381:G:C8	2.46	0.50
15:1T:11:GLU:OE1	15:1T:57:PHE:HB3	2.11	0.50
32:1a:221:C:H2'	32:1a:222:U:H6	1.76	0.50
32:1a:947:G:O3'	44:1m:109:THR:OG1	2.29	0.50
32:1a:966:M2G:HM13	32:1a:967:5MC:H1'	1.93	0.50
32:1a:1397:C:P	36:1e:24:ARG:HH22	2.35	0.50
36:1e:92:LYS:HB3	36:1e:119:LEU:HB2	1.93	0.50
36:1e:118:ILE:HG12	36:1e:119:LEU:H	1.76	0.50
47:1p:22:THR:HA	47:1p:33:ILE:HG13	1.93	0.50
50:1s:41:VAL:HG22	50:1s:42:PRO:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:1s:50:ALA:HB1	50:1s:57:HIS:HB3	1.93	0.50
1:2A:1993:U:OP2	60:2A:6365:HOH:O	2.20	0.50
1:2A:2291:U:O2'	1:2A:2374:C:O2	2.28	0.50
5:2F:186:ILE:HG23	5:2F:192:LEU:HD12	1.93	0.50
32:2a:778:G:H21	42:2k:120:ARG:HB3	1.76	0.50
32:2a:978:A:N6	32:2a:1318:A:N7	2.59	0.50
32:2a:1135:U:H2'	32:2a:1137:C:C2	2.46	0.50
32:2a:1226:C:H4'	50:2s:80:TYR:CZ	2.47	0.50
35:2d:119:GLN:HG3	35:2d:123:HIS:CD2	2.46	0.50
36:2e:122:GLU:O	36:2e:126:ARG:NH1	2.45	0.50
37:2f:9:VAL:HB	37:2f:87:ARG:HB2	1.93	0.50
40:2i:127:LYS:O	40:2i:128:ARG:HG2	2.11	0.50
1:1A:1015:G:H1	1:1A:1147:C:H42	1.59	0.50
1:1A:2107:C:N4	1:1A:2182:G:H1	2.09	0.50
32:1a:362:G:O6	60:1a:3531:HOH:O	2.19	0.50
32:1a:539:A:H2'	32:1a:540:G:H8	1.76	0.50
32:1a:610:G:OP1	60:1a:3301:HOH:O	2.20	0.50
32:1a:1118:C:H1'	32:1a:1179:A:C5	2.46	0.50
32:1a:1242:C:H42	32:1a:1295:G:H1	1.58	0.50
39:1h:16:ALA:HA	39:1h:19:VAL:HG22	1.93	0.50
43:1l:77:LEU:HD22	43:1l:81:SER:HB3	1.92	0.50
1:2A:492:A:H2'	1:2A:493:G:O4'	2.11	0.50
1:2A:2319:G:H22	14:2S:3:ARG:HD2	1.77	0.50
4:2E:101:ARG:CZ	4:2E:171:GLU:HB2	2.41	0.50
9:2N:42:TRP:HA	9:2N:48:MET:SD	2.51	0.50
10:2O:104:ARG:NH2	15:2T:36:GLU:OE2	2.43	0.50
25:23:10:LYS:HB3	25:23:53:LEU:HA	1.93	0.50
32:2a:989:C:H42	32:2a:1216:G:H1	1.58	0.50
32:2a:1149:C:O2'	32:2a:1280:A:N1	2.31	0.50
37:2f:37:VAL:HG13	37:2f:65:VAL:HG12	1.92	0.50
43:2l:117:ARG:HG3	43:2l:122:THR:O	2.11	0.50
1:1A:252:G:OP1	11:1P:50:ARG:NH1	2.35	0.50
1:1A:278:A:O2'	1:1A:279:C:OP1	2.25	0.50
1:1A:597:U:H2'	1:1A:598:G:C8	2.46	0.50
1:1A:1653:G:N2	60:1A:4641:HOH:O	2.45	0.50
1:1A:1710:C:O2'	1:1A:2858:C:N3	2.45	0.50
1:1A:2053:G:H5'	4:1E:145:LYS:H	1.76	0.50
1:1A:2117:A:H61	1:1A:2172:U:H3	1.58	0.50
1:1A:2682:U:OP2	60:1A:4677:HOH:O	2.19	0.50
2:1B:2:C:H2'	2:1B:3:C:C6	2.46	0.50
8:1I:117:GLU:HG3	8:1I:118:LYS:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:42:TRP:CH2	9:1N:44:PRO:HB3	2.46	0.50
33:1b:68:ILE:HG12	33:1b:161:ALA:HB3	1.94	0.50
47:1p:14:ASN:HA	47:1p:42:ARG:NH2	2.27	0.50
1:2A:602:G:O2'	1:2A:655:A:N6	2.45	0.50
1:2A:2032:G:N7	60:2A:5735:HOH:O	2.35	0.50
8:2I:117:GLU:HG3	8:2I:118:LYS:H	1.76	0.50
16:2U:83:LEU:HG	16:2U:88:ILE:HB	1.93	0.50
17:2V:62:LEU:HD11	17:2V:95:LEU:HB2	1.93	0.50
34:2c:150:LYS:HG3	34:2c:169:ALA:HB2	1.93	0.50
40:2i:114:TYR:CE1	41:2j:59:SER:HA	2.47	0.50
1:1A:919:G:N2	1:1A:2269:A:OP2	2.44	0.50
1:1A:1999:C:OP1	1:1A:2723:C:O2'	2.26	0.50
32:1a:7:G:H5''	32:1a:298:A:O4'	2.12	0.50
41:1j:39:PRO:HA	41:1j:70:ARG:HD3	1.93	0.50
1:2A:183:C:O2'	1:2A:432:A:N3	2.40	0.50
1:2A:646:A:H2'	1:2A:647:G:O4'	2.12	0.50
19:2X:53:LYS:HB3	19:2X:82:GLN:HB3	1.92	0.50
20:2Y:44:ILE:HA	20:2Y:63:LYS:O	2.12	0.50
32:2a:603:U:H2'	32:2a:604:G:H8	1.77	0.50
32:2a:1060:C:H5''	41:2j:51:ARG:HG2	1.93	0.50
32:2a:1513:A:H2'	32:2a:1514:C:C6	2.47	0.50
34:2c:6:HIS:HB3	45:2n:49:HIS:ND1	2.27	0.50
40:2i:9:ARG:HG2	40:2i:14:VAL:HG12	1.94	0.50
41:2j:35:SER:HB3	41:2j:73:ASP:HB2	1.94	0.50
46:2o:33:THR:HG23	46:2o:63:ARG:NH1	2.27	0.50
50:2s:63:THR:HG23	50:2s:66:MET:HE3	1.94	0.50
1:1A:805:G:OP2	11:1P:41:ARG:HD2	2.11	0.50
1:1A:2154:G:C2	1:1A:2155:G:H1'	2.47	0.50
1:1A:2181:G:O2'	1:1A:2182:G:OP1	2.28	0.50
1:1A:2432:A:C5	23:11:33:LYS:HG2	2.47	0.50
36:1e:82:VAL:HG21	36:1e:138:ALA:HA	1.94	0.50
37:1f:10:LEU:HD13	37:1f:61:LEU:HD13	1.93	0.50
46:1o:74:ASP:HB3	46:1o:77:ARG:HB2	1.94	0.50
1:2A:2823:A:OP1	4:2E:113:PHE:HB2	2.11	0.50
22:20:32:ARG:H	22:20:35:ASN:ND2	2.10	0.50
32:2a:189(K):U:H2'	32:2a:189(L):G:C8	2.47	0.50
32:2a:317:G:OP1	32:2a:353:A:N6	2.34	0.50
32:2a:1411:C:H2'	32:2a:1412:C:C6	2.46	0.50
1:1A:858:U:O2	1:1A:2268:A:H2'	2.11	0.49
1:1A:2316:C:O2'	6:1G:128:ARG:NH2	2.45	0.49
2:1B:48:A:OP2	14:1S:30:ARG:NH2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:56:VAL:HB	26:14:60:GLN:HG3	1.93	0.49
32:1a:50:A:H1'	32:1a:52:G:C8	2.46	0.49
32:1a:225:C:H2'	32:1a:226:G:C8	2.47	0.49
32:1a:407:G:OP1	35:1d:115:ARG:NH2	2.44	0.49
34:1c:26:LYS:HA	45:1n:36:PHE:HE1	1.77	0.49
36:1e:35:GLY:HA3	36:1e:112:LEU:HB3	1.94	0.49
54:1y:15:G:H22	54:1y:48:C:H42	1.60	0.49
1:2A:511:U:O4	1:2A:512:G:N1	2.45	0.49
1:2A:882:G:H2'	1:2A:883:G:H8	1.77	0.49
1:2A:1183:G:H5''	25:23:30:ARG:HH22	1.76	0.49
1:2A:1351:C:O3'	1:2A:1571:A:O2'	2.29	0.49
1:2A:1791:A:H3'	1:2A:1792:G:H8	1.77	0.49
1:2A:2113:U:H3	1:2A:2170:A:N6	2.04	0.49
1:2A:2193:G:H2'	1:2A:2194:G:C8	2.47	0.49
3:2D:69:ARG:HD3	3:2D:130:ALA:HB2	1.93	0.49
3:2D:71:ASP:CG	3:2D:103:ARG:HH22	2.20	0.49
32:2a:266:G:H2'	32:2a:266:G:N3	2.27	0.49
32:2a:779:C:HO2'	42:2k:120:ARG:HH11	1.56	0.49
32:2a:1013:G:N2	32:2a:1016:A:OP2	2.39	0.49
32:2a:1129:C:H2'	32:2a:1139:G:O6	2.12	0.49
36:2e:12:LEU:HB3	36:2e:31:LEU:HB2	1.94	0.49
40:2i:105:ASP:OD1	40:2i:105:ASP:N	2.31	0.49
1:1A:826:U:H4'	11:1P:55:ARG:HB3	1.95	0.49
1:1A:2101:G:H1	1:1A:2188:C:H42	1.58	0.49
32:1a:413:G:N2	32:1a:428:G:H1'	2.27	0.49
32:1a:582:U:H2'	32:1a:583:A:C8	2.46	0.49
32:1a:865:A:H2	32:1a:918:A:H4'	1.76	0.49
39:1h:121:ASP:HB2	39:1h:125:ARG:HH12	1.76	0.49
44:1m:92:HIS:CD2	44:1m:110:ARG:HH22	2.29	0.49
47:1p:71:ARG:O	47:1p:75:ARG:N	2.29	0.49
1:2A:676:A:N1	1:2A:2069:G:O2'	2.39	0.49
1:2A:1557:C:OP2	1:2A:1558:A:O2'	2.29	0.49
1:2A:2125:G:H22	1:2A:2172:U:P	2.34	0.49
1:2A:2604:U:H2'	1:2A:2605:PSU:H6	1.77	0.49
4:2E:103:ASP:HB3	4:2E:168:MET:HG2	1.93	0.49
5:2F:172:TRP:H	5:2F:172:TRP:CD1	2.29	0.49
32:2a:31:G:H22	32:2a:48:C:P	2.35	0.49
32:2a:224:C:H2'	32:2a:225:C:H6	1.76	0.49
32:2a:814:A:H2'	32:2a:816:A:H5'	1.94	0.49
35:2d:3:ARG:HD3	35:2d:118:ARG:HE	1.76	0.49
54:2w:9:A:H2	54:2w:45:G:N1	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:373:U:O2'	1:1A:423:A:N3	2.34	0.49
1:1A:1108:U:H2'	1:1A:1109:C:O4'	2.13	0.49
1:1A:2390:U:P	30:18:35:GLN:HE22	2.35	0.49
25:13:6:VAL:HG13	25:13:54:VAL:HG21	1.94	0.49
32:1a:293:G:H5'	32:1a:610:G:C2	2.47	0.49
32:1a:486:U:H2'	32:1a:487:A:C8	2.42	0.49
32:1a:517:G:H22	32:1a:533:A:P	2.35	0.49
33:1b:115:LEU:HB2	33:1b:145:LEU:HD22	1.94	0.49
37:1f:9:VAL:HB	37:1f:87:ARG:HB2	1.94	0.49
38:1g:113:GLU:OE2	38:1g:122:HIS:ND1	2.43	0.49
50:1s:80:TYR:CZ	50:1s:82:GLY:HA2	2.47	0.49
1:2A:531:C:OP1	1:2A:561:G:N2	2.41	0.49
15:2T:105:LEU:HB2	15:2T:110:ILE:HG13	1.93	0.49
32:2a:176:C:H2'	32:2a:177:C:H6	1.77	0.49
32:2a:1169:A:H2'	32:2a:1170:A:O4'	2.12	0.49
38:2g:26:PHE:O	38:2g:30:ILE:HG13	2.12	0.49
38:2g:59:LEU:HG	38:2g:63:LYS:HE2	1.93	0.49
39:2h:113:SER:HB2	39:2h:134:ILE:HD11	1.95	0.49
1:1A:639:U:H2'	1:1A:640:C:C6	2.47	0.49
1:1A:895:U:H4'	1:1A:896:A:OP1	2.11	0.49
1:1A:1266:G:O4'	18:1W:15:ARG:NH2	2.44	0.49
7:1H:149:ARG:NH2	7:1H:167:GLU:OE2	2.45	0.49
20:1Y:6:HIS:H	20:1Y:6:HIS:CD2	2.30	0.49
32:1a:458:C:H2'	32:1a:460:G:O4'	2.12	0.49
32:1a:1017:G:H2'	32:1a:1018:C:C6	2.48	0.49
55:1x:10:G:N2	55:1x:26:G:H1'	2.27	0.49
1:2A:534:U:O2'	16:2U:49:HIS:ND1	2.33	0.49
1:2A:994:C:O2'	1:2A:996:A:OP1	2.26	0.49
1:2A:1614:A:P	1:2A:1614:A:H8	2.35	0.49
1:2A:1792:G:H5'	3:2D:205:VAL:HG13	1.94	0.49
1:2A:2059:A:O3'	5:2F:69:HIS:HA	2.12	0.49
8:2I:75:LEU:HD22	8:2I:105:HIS:CD2	2.48	0.49
9:2N:97:ARG:HA	9:2N:100:GLU:HB2	1.93	0.49
32:2a:406:G:H4'	35:2d:5:ILE:HD11	1.94	0.49
32:2a:430:A:OP1	35:2d:9:CYS:HB2	2.12	0.49
32:2a:1103:C:P	33:2b:96:ARG:HH22	2.35	0.49
33:2b:178:ARG:NH2	33:2b:198:ASP:OD1	2.46	0.49
53:2v:14:A:N7	54:2y:34:CM0:H7C1	2.26	0.49
1:1A:185:U:H2'	1:1A:186:G:C8	2.47	0.49
1:1A:1379:A:H4'	1:1A:1380:G:OP2	2.11	0.49
1:1A:2108:C:H2'	1:1A:2109:U:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2127:G:N1	1:1A:2161:C:N4	2.60	0.49
1:1A:2127:G:H1	1:1A:2161:C:N4	2.11	0.49
32:1a:860:A:H3'	32:1a:861:G:H8	1.78	0.49
32:1a:983:A:H5'	32:1a:984:C:OP2	2.13	0.49
32:1a:1150:U:H4'	41:1j:41:PRO:HG3	1.95	0.49
38:1g:90:GLU:CD	38:1g:90:GLU:H	2.21	0.49
41:1j:40:LEU:HB2	41:1j:69:ASN:HB2	1.94	0.49
55:1x:12:G:H2'	55:1x:13:C:O4'	2.12	0.49
1:2A:902:C:H2'	1:2A:903:C:C6	2.47	0.49
1:2A:2446:G:N2	1:2A:2449:U:O2	2.45	0.49
32:2a:110:C:O2'	47:2p:25:ARG:O	2.30	0.49
32:2a:769:G:H4'	32:2a:1513:A:H4'	1.95	0.49
32:2a:1094:G:O2'	32:2a:1108:G:N1	2.46	0.49
32:2a:1346:A:H61	32:2a:1374:A:H3'	1.77	0.49
34:2c:157:ILE:HD12	34:2c:164:ARG:HB3	1.93	0.49
37:2f:2:ARG:HH21	37:2f:69:GLU:HB2	1.78	0.49
1:1A:224:G:H2'	1:1A:225:A:O4'	2.12	0.49
1:1A:251:A:C5	1:1A:252:G:H1'	2.47	0.49
3:1D:87:ASN:HB2	3:1D:88:ARG:NH1	2.27	0.49
7:1H:38:SER:HB3	7:1H:41:MET:HG2	1.93	0.49
8:1I:70:GLU:O	8:1I:74:ASN:HB2	2.12	0.49
32:1a:1258:G:H1	32:1a:1277:C:H42	1.61	0.49
32:1a:1431:C:H2'	32:1a:1432:G:O4'	2.12	0.49
35:1d:108:LEU:HD12	35:1d:174:LEU:HD13	1.94	0.49
36:1e:78:HIS:CD2	39:1h:104:ARG:HD2	2.47	0.49
1:2A:108:U:H2'	1:2A:109:G:H8	1.78	0.49
1:2A:300:A:N3	1:2A:319:C:H1'	2.27	0.49
1:2A:955:C:OP2	12:2Q:14:ARG:HG3	2.11	0.49
1:2A:2748:A:H5'	7:2H:4:ILE:HD12	1.94	0.49
30:28:30:ARG:NH1	60:28:103:HOH:O	2.31	0.49
32:2a:627:G:H2'	32:2a:628:G:C8	2.48	0.49
32:2a:1412:C:H2'	32:2a:1413:A:C8	2.47	0.49
36:2e:83:GLU:HB3	36:2e:88:LYS:HA	1.93	0.49
39:2h:4:ASP:OD2	39:2h:85:ARG:NE	2.45	0.49
1:1A:761:A:N7	60:1A:4528:HOH:O	2.35	0.49
1:1A:2095:C:N4	1:1A:2194:G:H1	2.11	0.49
1:1A:2376:A:H2'	1:1A:2377:A:O4'	2.12	0.49
1:1A:2379:G:O2'	14:1S:17:ARG:NH1	2.43	0.49
1:1A:2635:C:H4'	4:1E:48:GLN:HE21	1.78	0.49
3:1D:34:VAL:HG12	3:1D:63:ARG:HG3	1.93	0.49
15:1T:30:VAL:HG13	15:1T:86:ILE:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:22:G:H2'	32:1a:23:C:C6	2.48	0.49
32:1a:183:G:N2	32:1a:223:U:HO2'	2.10	0.49
32:1a:736:C:H2'	32:1a:737:A:C8	2.47	0.49
35:1d:116:GLN:HE21	35:1d:157:LEU:HD21	1.77	0.49
36:1e:144:THR:OG1	36:1e:147:ASP:OD2	2.29	0.49
51:1t:47:GLY:HA2	51:1t:48:LYS:C	2.37	0.49
1:2A:385:C:O2'	1:2A:390:A:N1	2.41	0.49
1:2A:856:C:H2'	1:2A:857:C:C6	2.48	0.49
1:2A:1919:A:O2'	32:2a:1517:G:N3	2.42	0.49
2:2B:24:G:N3	2:2B:26:A:N6	2.60	0.49
8:2I:3:VAL:HA	8:2I:39:ALA:H	1.77	0.49
32:2a:1323:G:H2'	32:2a:1324:A:C8	2.47	0.49
35:2d:4:TYR:HD2	35:2d:115:ARG:HH12	1.60	0.49
37:2f:29:ALA:HA	37:2f:32:ASN:HD22	1.77	0.49
44:2m:3:ARG:HE	44:2m:9:ILE:H	1.60	0.49
54:2y:49:G:N1	54:2y:65:C:O2	2.29	0.49
1:1A:249:C:O2	30:18:12:LYS:NZ	2.34	0.49
1:1A:557:U:H2'	1:1A:558:G:C8	2.48	0.49
1:1A:2176:A:H2'	1:1A:2177:C:C6	2.48	0.49
1:1A:2646:C:OP2	1:1A:2732:G:O2'	2.25	0.49
4:1E:2:LYS:HG3	4:1E:200:GLU:HB2	1.93	0.49
40:1i:5:TYR:H	40:1i:87:GLN:NE2	2.10	0.49
40:1i:8:GLY:HA3	40:1i:76:ALA:O	2.13	0.49
41:1j:51:ARG:H	41:1j:60:ARG:HA	1.78	0.49
1:2A:783:A:O2'	1:2A:785:G:OP1	2.23	0.49
1:2A:851:U:H5'	25:23:49:LYS:HD2	1.95	0.49
1:2A:2632:A:O2'	1:2A:2811:G:O2'	2.10	0.49
19:2X:65:ARG:HG3	19:2X:70:LEU:HD23	1.93	0.49
32:2a:84:U:H4'	32:2a:89:C:C4	2.48	0.49
32:2a:190:U:H2'	32:2a:191:G:O4'	2.13	0.49
32:2a:554:C:H2'	32:2a:555:C:C6	2.47	0.49
32:2a:1067:A:O2'	32:2a:1068:G:OP2	2.22	0.49
39:2h:12:ARG:HD2	39:2h:26:VAL:HG12	1.94	0.49
39:2h:91:ARG:HD3	48:2q:32:TYR:O	2.12	0.49
54:2w:9:A:H2	54:2w:45:G:C6	2.31	0.49
1:1A:881:G:H1	1:1A:897:C:N4	2.09	0.49
5:1F:103:LYS:HA	5:1F:106:ARG:HG3	1.94	0.49
8:1I:99:GLU:HB3	8:1I:103:ARG:HH22	1.77	0.49
32:1a:689:C:H2'	32:1a:690:G:O4'	2.13	0.49
32:1a:1052:U:O4	32:1a:1200:C:O2'	2.27	0.49
32:1a:1198:G:OP1	60:1a:3594:HOH:O	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1e:91:LEU:HG	36:1e:118:ILE:HD11	1.93	0.49
39:1h:29:SER:HB3	39:1h:32:LYS:HG3	1.95	0.49
51:1t:60:GLU:HG3	51:1t:81:LYS:HD2	1.94	0.49
1:2A:118:A:N3	1:2A:178:G:H1'	2.28	0.49
1:2A:893:C:H2'	1:2A:894:C:C5	2.47	0.49
1:2A:1632:A:H8	1:2A:1632:A:O5'	1.96	0.49
1:2A:1668:A:O2'	1:2A:1674:G:N7	2.32	0.49
1:2A:1697:G:OP2	1:2A:1698:A:O2'	2.24	0.49
17:2V:55:ALA:HA	17:2V:101:GLY:HA2	1.95	0.49
32:2a:1161:C:H2'	32:2a:1162:C:C6	2.48	0.49
33:2b:74:LYS:NZ	33:2b:205:ASP:O	2.46	0.49
34:2c:112:SER:HB3	34:2c:115:LEU:HD22	1.94	0.49
45:2n:37:PHE:HD1	45:2n:39:LEU:HD12	1.78	0.49
1:1A:1783:A:H5'	1:1A:2608:G:H4'	1.94	0.49
1:1A:2001:A:H2'	1:1A:2002:G:C8	2.47	0.49
1:1A:2080:G:H2'	1:1A:2081:C:C6	2.48	0.49
1:1A:2870:C:OP1	13:1R:57:ARG:NH2	2.46	0.49
3:1D:242:ARG:N	3:1D:242:ARG:HD3	2.28	0.49
8:1I:75:LEU:HD22	8:1I:105:HIS:CD2	2.48	0.49
9:1N:35:ARG:HG2	9:1N:37:LYS:HG3	1.95	0.49
18:1W:73:ALA:HB3	18:1W:106:ILE:HD12	1.95	0.49
32:1a:370:C:O2	32:1a:482:A:O2'	2.29	0.49
32:1a:1179:A:H2'	32:1a:1180:A:O4'	2.13	0.49
34:1c:59:ARG:HH12	34:1c:97:LYS:HD2	1.77	0.49
44:1m:23:TYR:HB3	44:1m:67:GLU:HA	1.94	0.49
55:1x:50:U:H2'	55:1x:51:C:C6	2.47	0.49
1:2A:1325:G:OP1	1:2A:1647:G:O2'	2.27	0.49
1:2A:1824:G:N3	3:2D:254:THR:OG1	2.46	0.49
1:2A:2127:G:C6	1:2A:2161:C:C4	3.01	0.49
23:21:23:LYS:HE3	54:2y:74:C:H4'	1.95	0.49
32:2a:132:C:H4'	32:2a:262:A:H1'	1.94	0.49
32:2a:1320:C:H2'	32:2a:1321:C:O4'	2.13	0.49
1:1A:614(C):A:H4'	1:1A:615:G:OP1	2.13	0.48
1:1A:806:C:O2	1:1A:2444:G:O2'	2.30	0.48
1:1A:2353:G:N2	22:10:34:GLY:O	2.22	0.48
1:1A:2472:G:O2'	1:1A:2478:A:N6	2.40	0.48
3:1D:70:TRP:HB3	3:1D:190:TYR:CE2	2.48	0.48
19:1X:12:VAL:HB	19:1X:27:THR:HB	1.95	0.48
21:1Z:48:PHE:HE1	21:1Z:71:VAL:HG11	1.76	0.48
35:1d:57:ARG:HB3	35:1d:206:PHE:HB2	1.95	0.48
39:1h:91:ARG:HD3	48:1q:32:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:312:G:H4'	1:2A:331:A:N3	2.28	0.48
1:2A:1966:A:H2	1:2A:2592:G:N3	2.12	0.48
32:2a:939:G:H1	32:2a:1344:C:N4	2.10	0.48
44:2m:37:THR:O	44:2m:55:ARG:NH1	2.46	0.48
1:1A:764:A:N3	3:1D:213:ARG:NH1	2.60	0.48
1:1A:918:A:N3	2:1B:80:U:O2'	2.40	0.48
1:1A:1588:C:H2'	1:1A:1589:C:H6	1.78	0.48
1:1A:2166:G:N7	1:1A:2168:G:N2	2.61	0.48
60:1A:4277:HOH:O	17:1V:82:ARG:HB2	2.12	0.48
22:10:53:MET:HG3	22:10:59:LEU:HD23	1.94	0.48
32:1a:297:G:N2	32:1a:300:A:OP2	2.46	0.48
32:1a:782:A:H4'	32:1a:1514:C:O2'	2.13	0.48
32:1a:1510:U:H2'	32:1a:1511:G:C8	2.48	0.48
33:1b:93:VAL:HG21	33:1b:97:TRP:HD1	1.77	0.48
40:1i:112:LYS:HG3	40:1i:118:LYS:O	2.13	0.48
1:2A:299:A:N1	1:2A:322:A:O2'	2.40	0.48
1:2A:324:A:H2'	1:2A:325:G:O4'	2.13	0.48
5:2F:157:VAL:HB	5:2F:194:MET:HG2	1.96	0.48
24:22:65:ASN:ND2	24:22:69:ARG:HH12	2.11	0.48
32:2a:157:G:H2'	32:2a:158:G:H8	1.78	0.48
32:2a:977:A:H2'	32:2a:978:A:H5''	1.96	0.48
32:2a:1360:A:OP2	45:2n:35:ARG:NH2	2.31	0.48
38:2g:57:GLU:HG3	38:2g:59:LEU:H	1.79	0.48
1:1A:854:G:H1	1:1A:923:C:H42	1.61	0.48
1:1A:1041:C:H42	1:1A:1114:G:H1	1.59	0.48
6:1G:46:ALA:HB1	6:1G:50:ALA:O	2.13	0.48
26:14:57:GLU:O	26:14:60:GLN:N	2.38	0.48
32:1a:510:A:OP2	35:1d:49:ARG:NH1	2.45	0.48
33:1b:76:GLN:HG3	33:1b:206:ASP:O	2.13	0.48
36:1e:37:ARG:NH1	36:1e:111:GLU:O	2.47	0.48
51:1t:53:LEU:HB2	51:1t:100:ILE:HD11	1.94	0.48
1:2A:387:U:OP2	23:21:20:ARG:NH1	2.45	0.48
1:2A:705:A:H2'	1:2A:706:A:O4'	2.13	0.48
1:2A:1996:C:H4'	1:2A:1997:G:OP1	2.13	0.48
1:2A:2494:G:H2'	1:2A:2495:G:H8	1.78	0.48
23:21:51:VAL:HG11	23:21:74:VAL:HG21	1.96	0.48
23:21:76:ARG:NH2	23:21:97:LEU:HB3	2.28	0.48
32:2a:160:A:H2'	32:2a:161:A:C8	2.47	0.48
32:2a:201:C:N4	32:2a:216:G:H1	2.12	0.48
32:2a:666:G:H5'	32:2a:726:C:H1'	1.95	0.48
32:2a:939:G:H5'	38:2g:102:ARG:CZ	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1273:G:H3'	32:2a:1274:G:C8	2.49	0.48
32:2a:1286:A:C8	32:2a:1287:A:H4'	2.48	0.48
40:2i:77:ILE:O	40:2i:81:ILE:HG23	2.13	0.48
1:1A:910:A:N1	1:1A:2277:G:H1'	2.28	0.48
1:1A:2688:U:OP1	60:1A:4105:HOH:O	2.19	0.48
6:1G:32:PRO:HB3	6:1G:163:ALA:HB2	1.96	0.48
18:1W:48:ALA:O	18:1W:52:GLU:HG2	2.13	0.48
32:1a:444:C:H2'	32:1a:445:G:C8	2.48	0.48
32:1a:553:A:H2'	32:1a:554:C:C6	2.48	0.48
36:1e:77:PRO:HD2	36:1e:142:LEU:HD13	1.95	0.48
54:1y:44:G:H3'	54:1y:45:G:C8	2.46	0.48
1:2A:572:A:H61	1:2A:2029:G:H21	1.60	0.48
1:2A:796:C:H2'	1:2A:797:C:C6	2.49	0.48
1:2A:848:G:H2'	1:2A:849:A:C8	2.48	0.48
1:2A:2099:U:N3	1:2A:2190:G:N1	2.29	0.48
1:2A:2291:U:OP1	1:2A:2380:C:O2'	2.31	0.48
60:2A:4937:HOH:O	11:2P:36:LYS:O	2.20	0.48
3:2D:77:ALA:HB2	3:2D:97:TYR:CD1	2.47	0.48
21:2Z:154:ASP:OD1	21:2Z:154:ASP:N	2.46	0.48
32:2a:748:C:H4'	32:2a:749:C:O5'	2.13	0.48
32:2a:1240:U:OP2	38:2g:116:ALA:N	2.46	0.48
32:2a:1321:C:H4'	44:2m:87:TYR:CE2	2.49	0.48
32:2a:1376:U:H2'	32:2a:1377:A:C8	2.48	0.48
39:2h:51:VAL:HG21	39:2h:60:ARG:HB2	1.96	0.48
1:1A:579:G:N7	60:1A:6554:HOH:O	2.35	0.48
1:1A:2352:A:N6	1:1A:2365:G:O2'	2.46	0.48
1:1A:2432:A:C4	23:11:33:LYS:HG2	2.47	0.48
2:1B:13:A:O2'	2:1B:15:A:OP2	2.31	0.48
3:1D:118:VAL:HG22	3:1D:119:ALA:H	1.78	0.48
6:1G:129:GLY:O	6:1G:161:THR:OG1	2.31	0.48
32:1a:792:A:O2'	32:1a:794:A:N7	2.39	0.48
32:1a:1503:A:H1'	53:1v:13:A:H61	1.78	0.48
33:1b:167:PRO:O	33:1b:171:ALA:N	2.46	0.48
35:1d:78:LEU:HD23	35:1d:97:LEU:HD23	1.94	0.48
38:1g:98:SER:HA	38:1g:101:LEU:HD12	1.95	0.48
54:1y:8:4SU:O2	54:1y:8:4SU:H2'	2.12	0.48
54:1y:34:CM0:H2'	54:1y:35:A:C8	2.49	0.48
1:2A:652(B):A:H61	1:2A:655:A:H1'	1.78	0.48
1:2A:995:C:OP2	16:2U:54:LYS:NZ	2.44	0.48
4:2E:11:MET:HE2	4:2E:11:MET:HB3	1.77	0.48
7:2H:83:TYR:CZ	7:2H:138:LYS:HD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2P:138:LEU:HD23	11:2P:145:PRO:HB3	1.96	0.48
32:2a:37:U:H2'	32:2a:38:G:C8	2.48	0.48
32:2a:41:G:H2'	32:2a:42:G:H8	1.79	0.48
32:2a:715:A:H2'	32:2a:716:A:C8	2.48	0.48
32:2a:940:C:H2'	32:2a:941:G:C8	2.48	0.48
32:2a:946:A:O2'	32:2a:1333:A:N3	2.42	0.48
32:2a:1178:G:N2	32:2a:1180:A:H3'	2.29	0.48
32:2a:1376:U:P	38:2g:94:ARG:HH22	2.36	0.48
51:2t:50:GLU:HG3	51:2t:100:ILE:HD13	1.95	0.48
54:2y:36:C:N4	54:2y:37:6MZ:N7	2.60	0.48
1:1A:792:G:O2'	1:1A:2440:C:N3	2.39	0.48
1:1A:1069:A:H2'	1:1A:1073:A:N7	2.29	0.48
7:1H:35:VAL:HG11	7:1H:71:LEU:HB3	1.95	0.48
8:1I:6:LEU:HD11	8:1I:37:VAL:HG23	1.95	0.48
18:1W:57:ASN:HA	18:1W:61:ASN:HD22	1.79	0.48
32:1a:410:G:OP1	35:1d:30:LYS:NZ	2.26	0.48
32:1a:750:G:N3	46:1o:23:GLY:HA3	2.28	0.48
32:1a:1347:G:H5''	40:1i:107:ARG:HB3	1.96	0.48
32:1a:1441:G:H21	32:1a:1460:A:H62	1.61	0.48
36:1e:118:ILE:HG12	36:1e:119:LEU:N	2.28	0.48
54:1w:68:C:H2'	54:1w:69:A:H8	1.78	0.48
1:2A:1953:A:H1'	1:2A:2560:C:H1'	1.95	0.48
1:2A:2032:G:OP2	1:2A:2454:G:O2'	2.28	0.48
15:2T:109:GLU:HG2	15:2T:112:ARG:NH2	2.29	0.48
32:2a:369:C:H2'	32:2a:370:C:H6	1.78	0.48
32:2a:972:C:OP2	41:2j:57:LYS:NZ	2.38	0.48
32:2a:985:C:H2'	32:2a:986:A:C8	2.49	0.48
32:2a:1030(A):G:H21	32:2a:1030(C):G:H8	1.60	0.48
54:2y:59:U:H3'	54:2y:60:C:O2	2.14	0.48
1:1A:7:G:H5''	9:1N:121:LYS:HE3	1.95	0.48
1:1A:1021:A:O2'	1:1A:1123:C:OP1	2.21	0.48
1:1A:2744:G:N2	7:1H:143:GLN:OE1	2.46	0.48
1:1A:2784:C:H1'	4:1E:37:ARG:HH12	1.79	0.48
4:1E:167:VAL:HG22	4:1E:170:LEU:HD11	1.96	0.48
32:1a:184:G:H2'	32:1a:185:A:H8	1.79	0.48
32:1a:799:G:OP2	60:1a:3416:HOH:O	2.20	0.48
32:1a:974:A:H8	32:1a:974:A:OP1	1.96	0.48
32:1a:1264:C:H42	32:1a:1271:G:H1	1.62	0.48
36:1e:69:VAL:HG22	36:1e:71:LEU:HD12	1.95	0.48
7:2H:137:ASP:OD1	7:2H:138:LYS:N	2.46	0.48
20:2Y:47:LYS:NZ	20:2Y:48:ALA:O	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:77:ASP:OD2	21:2Z:80:ARG:NH1	2.36	0.48
32:2a:523:A:H61	43:2l:92:0TD:CG	2.25	0.48
39:2h:38:ILE:HG21	39:2h:111:ILE:HG12	1.95	0.48
49:2r:52:PRO:HB2	49:2r:54:ARG:HG2	1.96	0.48
1:1A:1754:C:OP1	15:1T:96:ARG:NH1	2.47	0.48
1:1A:2103:C:N3	1:1A:2186:G:N2	2.52	0.48
1:1A:2378:A:H4'	14:1S:23:ARG:NH1	2.29	0.48
11:1P:2:LYS:HG2	11:1P:4:SER:H	1.79	0.48
20:1Y:1:MET:HB3	20:1Y:2:ARG:H	1.51	0.48
22:10:70:GLN:OE1	22:10:80:HIS:NE2	2.46	0.48
24:12:65:ASN:O	24:12:69:ARG:NH1	2.47	0.48
41:1j:13:HIS:HB3	41:1j:68:HIS:NE2	2.29	0.48
1:2A:1243:G:O2'	11:2P:4:SER:O	2.31	0.48
1:2A:1487:G:H2'	1:2A:1488:G:H8	1.78	0.48
1:2A:2162:G:H2'	1:2A:2163:C:O4'	2.13	0.48
1:2A:2564:A:OP1	1:2A:2648:C:H4'	2.14	0.48
9:2N:4:TYR:CD2	16:2U:100:VAL:HG11	2.48	0.48
20:2Y:37:VAL:N	20:2Y:67:LEU:O	2.42	0.48
32:2a:134:A:H61	47:2p:25:ARG:NH1	2.11	0.48
32:2a:224:C:H2'	32:2a:225:C:C6	2.48	0.48
33:2b:80:ILE:HD13	33:2b:211:ILE:HG22	1.95	0.48
35:2d:64:LEU:HB2	35:2d:198:VAL:HG21	1.96	0.48
42:2k:27:ASN:OD1	42:2k:28:THR:N	2.40	0.48
1:1A:826:U:C4'	11:1P:55:ARG:HB3	2.44	0.48
1:1A:1426:G:O2'	1:1A:1572:A:N6	2.47	0.48
1:1A:2367:G:H2'	1:1A:2368:C:C6	2.49	0.48
3:1D:76:PRO:HB2	3:1D:116:GLN:NE2	2.29	0.48
3:1D:77:ALA:HA	3:1D:97:TYR:HA	1.95	0.48
32:1a:266:G:O2'	32:1a:267:C:OP2	2.26	0.48
48:1q:67:LYS:C	48:1q:69:LYS:H	2.19	0.48
1:2A:974:G:O2'	1:2A:975:C:OP1	2.26	0.48
1:2A:1190:G:OP1	11:2P:30:THR:OG1	2.29	0.48
1:2A:1514:U:H2'	1:2A:1515:G:C8	2.49	0.48
1:2A:2099:U:O2	1:2A:2190:G:N2	2.32	0.48
1:2A:2240:C:OP2	60:2A:6141:HOH:O	2.20	0.48
1:2A:2431:U:O2'	1:2A:2433:A:N7	2.42	0.48
1:2A:2645:G:H4'	1:2A:2732:G:O3'	2.13	0.48
1:2A:2651:C:H42	1:2A:2669:G:H1	1.59	0.48
3:2D:145:VAL:HG13	3:2D:191:ALA:HB2	1.96	0.48
6:2G:29:TRP:O	6:2G:33:ARG:NH1	2.39	0.48
10:2O:1:MET:HE3	10:2O:32:TYR:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:34:LEU:HB2	12:2Q:118:LEU:HD22	1.95	0.48
24:22:69:ARG:O	24:22:70:GLN:HG2	2.14	0.48
26:24:48:ARG:HG2	26:24:52:THR:HG23	1.95	0.48
32:2a:359:U:H2'	32:2a:360:A:C8	2.49	0.48
32:2a:1218:C:H2'	32:2a:1219:U:C6	2.48	0.48
1:1A:865:C:N3	1:1A:908:C:N4	2.62	0.48
1:1A:2058:A:H2	57:1A:4074:ERY:H311	1.79	0.48
2:1B:66:A:H61	2:1B:109:C:H5''	1.78	0.48
10:1O:86:ILE:HG22	10:1O:94:ARG:HD3	1.96	0.48
11:1P:59:LEU:HD23	30:18:13:ARG:HD2	1.95	0.48
18:1W:58:ALA:HB1	18:1W:64:MET:HB2	1.95	0.48
30:18:54:GLU:OE2	60:18:201:HOH:O	2.20	0.48
32:1a:128:G:O3'	48:1q:3:LYS:NZ	2.47	0.48
32:1a:137:C:H2'	32:1a:138:G:H8	1.79	0.48
32:1a:171:A:H2'	32:1a:172:A:C8	2.48	0.48
32:1a:193:C:H2'	32:1a:194:C:H6	1.79	0.48
32:1a:660:G:OP1	46:1o:5:LYS:HD3	2.14	0.48
32:1a:1009:G:O6	32:1a:1020:U:O2	2.32	0.48
32:1a:1030(B):C:H2'	32:1a:1030(B):C:O2	2.14	0.48
32:1a:1457:G:H2'	32:1a:1458:G:C8	2.49	0.48
1:2A:146:G:H2'	1:2A:147:U:C6	2.49	0.48
1:2A:484:C:H2'	1:2A:485:C:H6	1.78	0.48
1:2A:817:C:O2'	1:2A:839:U:H5''	2.14	0.48
1:2A:1009:A:OP2	9:2N:37:LYS:NZ	2.42	0.48
1:2A:2319:G:N2	14:2S:3:ARG:HD2	2.29	0.48
1:2A:2349:G:H1	1:2A:2368:C:N4	2.11	0.48
2:2B:75:G:N2	21:2Z:87:ASP:OD1	2.46	0.48
31:29:2:LYS:NZ	31:29:31:LYS:O	2.40	0.48
32:2a:20:U:H2'	32:2a:21:G:O4'	2.13	0.48
32:2a:509:A:O2'	32:2a:510:A:OP1	2.26	0.48
32:2a:554:C:H2'	32:2a:555:C:H6	1.78	0.48
32:2a:599:C:H5''	39:2h:96:GLY:HA2	1.94	0.48
32:2a:876:G:H4'	39:2h:14:ARG:HH22	1.79	0.48
32:2a:1000:U:H3	32:2a:1041:A:H61	1.61	0.48
32:2a:1071:C:H2'	32:2a:1072:G:H8	1.78	0.48
33:2b:87:ARG:NH1	33:2b:220:ASP:OD1	2.38	0.48
34:2c:119:ARG:O	34:2c:123:GLN:HB2	2.13	0.48
1:1A:873:G:H1	1:1A:904:C:H42	1.62	0.47
1:1A:1086:A:H3'	1:1A:1086:A:N3	2.29	0.47
1:1A:1518:U:H2'	1:1A:1519:G:O4'	2.14	0.47
1:1A:1693:U:H1'	3:1D:14:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1935:G:H1'	1:1A:1964:G:N2	2.29	0.47
11:1P:52:GLU:HG2	30:18:57:ARG:HH22	1.80	0.47
22:10:38:VAL:HB	22:10:59:LEU:HB2	1.96	0.47
32:1a:382:A:H2'	32:1a:383:A:C8	2.48	0.47
35:1d:116:GLN:NE2	35:1d:157:LEU:HD21	2.29	0.47
44:1m:73:GLU:O	44:1m:77:ASN:ND2	2.44	0.47
47:1p:26:ARG:NH1	47:1p:31:LYS:HB3	2.28	0.47
1:2A:140:G:N2	1:2A:1596:A:H4'	2.29	0.47
1:2A:1202:C:N3	1:2A:1243:G:N2	2.59	0.47
1:2A:1710:C:H5'	1:2A:2859:G:H1'	1.96	0.47
2:2B:32:C:H2'	2:2B:33:G:O4'	2.13	0.47
4:2E:12:THR:HG22	15:2T:58:ASN:HD21	1.79	0.47
4:2E:49:LEU:HD21	4:2E:91:VAL:HG21	1.96	0.47
15:2T:49:VAL:HG12	15:2T:63:VAL:HG22	1.96	0.47
18:2W:34:ASN:OD1	18:2W:37:ARG:NH2	2.47	0.47
32:2a:1077:G:N1	32:2a:1080:A:OP2	2.43	0.47
32:2a:1305:G:H5'	52:2u:4:GLY:HA3	1.95	0.47
38:2g:66:VAL:HG12	38:2g:70:LYS:HE3	1.95	0.47
50:2s:77:THR:O	50:2s:77:THR:OG1	2.30	0.47
54:2y:28:C:N4	54:2y:42:G:N1	2.61	0.47
1:1A:264:C:O2'	1:1A:265:A:H2'	2.13	0.47
1:1A:1152:C:H1'	16:1U:77:SER:HB3	1.96	0.47
1:1A:2096:U:H3	1:1A:2193:G:H1	1.63	0.47
1:1A:2347:C:OP1	28:16:38:LYS:NZ	2.46	0.47
5:1F:157:VAL:HG12	5:1F:198:ALA:HB1	1.96	0.47
16:1U:48:ALA:O	16:1U:52:ARG:HG3	2.14	0.47
25:13:19:GLN:O	25:13:23:LEU:HD12	2.12	0.47
32:1a:319:G:H2'	32:1a:320:C:O4'	2.14	0.47
32:1a:613:C:H2'	32:1a:614:A:H8	1.79	0.47
32:1a:1264:C:N4	32:1a:1271:G:H1	2.12	0.47
32:1a:1414:U:O4	60:1a:3836:HOH:O	2.20	0.47
47:1p:19:ILE:N	47:1p:37:GLY:O	2.43	0.47
51:1t:99:LEU:O	51:1t:100:ILE:HG23	2.14	0.47
55:1x:67:C:H2'	55:1x:68:C:C6	2.49	0.47
1:2A:97:C:OP1	24:22:2:LYS:NZ	2.47	0.47
1:2A:631:A:H2'	1:2A:632:A:O4'	2.13	0.47
1:2A:700:G:O2'	1:2A:1632:A:N3	2.36	0.47
1:2A:2151:G:H2'	1:2A:2152:G:C8	2.48	0.47
1:2A:2615:U:C2	27:25:7:PRO:HA	2.50	0.47
2:2B:11:C:H3'	2:2B:12:C:H6	1.78	0.47
4:2E:9:VAL:HG22	4:2E:25:VAL:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:24:15:ILE:HD12	26:24:21:VAL:HG22	1.94	0.47
34:2c:138:VAL:O	34:2c:142:MET:HG2	2.14	0.47
37:2f:69:GLU:CD	37:2f:69:GLU:H	2.22	0.47
44:2m:91:ARG:HG2	44:2m:96:LEU:HB2	1.96	0.47
1:1A:121:G:H4'	1:1A:149:A:H5'	1.96	0.47
1:1A:379:G:N2	23:11:42:GLN:OE1	2.38	0.47
1:1A:1030:G:OP2	12:1Q:128:LYS:NZ	2.47	0.47
1:1A:1740:G:H2'	1:1A:1741:A:C8	2.49	0.47
1:1A:2749:A:OP1	7:1H:3:ARG:NH1	2.48	0.47
32:1a:78:G:O2'	32:1a:79:G:H8	1.97	0.47
32:1a:266:G:H4'	32:1a:267:C:C5	2.49	0.47
32:1a:911:U:OP2	43:1l:97:ARG:NH2	2.47	0.47
32:1a:951:G:O2'	32:1a:970:C:O2'	2.31	0.47
32:1a:1178:G:O2'	32:1a:1180:A:N7	2.40	0.47
37:1f:10:LEU:HB2	37:1f:59:TYR:HB3	1.95	0.47
1:2A:271(U):G:H2'	1:2A:271(V):G:C8	2.49	0.47
1:2A:1603:A:OP1	60:2A:5399:HOH:O	2.19	0.47
1:2A:1983:C:H4'	1:2A:2606:C:H4'	1.95	0.47
1:2A:2106:G:H2'	1:2A:2107:C:O4'	2.13	0.47
1:2A:2532:G:HO2'	1:2A:2657:A:N6	2.11	0.47
6:2G:122:PRO:HB3	6:2G:170:ARG:NH1	2.29	0.47
10:2O:26:LYS:HD2	10:2O:37:ASP:CG	2.39	0.47
25:23:6:VAL:HG13	25:23:56:VAL:HG22	1.96	0.47
32:2a:72:C:H2'	32:2a:73:G:C8	2.50	0.47
32:2a:109:A:C6	32:2a:326:G:C6	3.03	0.47
32:2a:277:C:H5''	48:2q:68:ARG:NH2	2.29	0.47
32:2a:1305:G:N2	32:2a:1331:G:H1'	2.30	0.47
32:2a:1397:C:O4'	53:2v:23:U:N3	2.46	0.47
39:2h:44:PHE:HB3	39:2h:80:ILE:HD11	1.95	0.47
39:2h:83:ILE:HB	39:2h:137:VAL:HG13	1.96	0.47
50:2s:20:LEU:HA	50:2s:23:ASN:HD22	1.79	0.47
1:1A:479:A:N3	1:1A:481:G:H5''	2.29	0.47
1:1A:1342:A:O2'	1:1A:1344:G:OP2	2.32	0.47
1:1A:2875:C:H2'	1:1A:2876:G:O4'	2.13	0.47
6:1G:120:LEU:N	6:1G:179:PRO:O	2.45	0.47
30:18:23:VAL:CG2	30:18:47:LYS:HB3	2.43	0.47
32:1a:174:C:H2'	32:1a:175:C:C6	2.50	0.47
32:1a:376:G:H5''	47:1p:5:ARG:HD2	1.96	0.47
35:1d:98:GLU:OE1	35:1d:103:ASN:ND2	2.44	0.47
54:1w:31:C:N4	54:1w:39:G:H1	2.13	0.47
54:1w:35:A:H2'	54:1w:36:C:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:16:G:H2'	1:2A:17:G:H8	1.80	0.47
1:2A:240:G:O2'	1:2A:257:A:N6	2.38	0.47
1:2A:1313:U:H5''	60:2A:4383:HOH:O	2.13	0.47
1:2A:2439:A:H5'	1:2A:2439:A:H8	1.79	0.47
2:2B:31:C:H4'	6:2G:29:TRP:CH2	2.50	0.47
3:2D:218:ARG:HB3	3:2D:219:PRO:HD2	1.97	0.47
6:2G:54:GLU:HA	6:2G:57:ALA:HB3	1.95	0.47
22:20:54:GLY:O	22:20:57:PHE:N	2.47	0.47
30:28:26:LYS:HB2	30:28:44:LYS:O	2.15	0.47
32:2a:532:A:C2	32:2a:1055:A:H1'	2.49	0.47
32:2a:1058:G:H1	32:2a:1199:U:H3	1.62	0.47
37:2f:28:ARG:HG2	37:2f:32:ASN:HD21	1.80	0.47
38:2g:22:LEU:HD11	38:2g:101:LEU:HD21	1.96	0.47
1:1A:634:C:H2'	1:1A:635:C:C6	2.49	0.47
1:1A:1486:A:H2'	1:1A:1487:G:C8	2.50	0.47
2:1B:12:C:H2'	22:10:73:GLY:HA3	1.96	0.47
4:1E:14:ILE:HG13	4:1E:21:VAL:HG13	1.95	0.47
26:14:56:VAL:HG23	26:14:57:GLU:H	1.79	0.47
32:1a:977:A:H2'	32:1a:978:A:H5''	1.97	0.47
32:1a:1202:G:O4'	45:1n:29:ARG:NH1	2.46	0.47
43:1l:53:ARG:HB3	43:1l:69:TYR:HE1	1.79	0.47
54:1w:50:G:H1	54:1w:64:U:H3	1.61	0.47
1:2A:529:A:H62	1:2A:2041:U:H3	1.62	0.47
1:2A:686:G:N2	1:2A:788:A:H61	2.13	0.47
1:2A:1785:A:N6	60:2A:3953:HOH:O	2.47	0.47
1:2A:1803:A:O2'	3:2D:259:THR:HG21	2.14	0.47
1:2A:1916:A:N1	32:2a:1409:C:H5'	2.29	0.47
1:2A:2712:U:OP1	1:2A:2714:G:H4'	2.14	0.47
5:2F:32:LEU:O	5:2F:36:VAL:HG23	2.13	0.47
12:2Q:17:LEU:HB3	12:2Q:39:PRO:HB2	1.95	0.47
15:2T:27:THR:HB	15:2T:89:VAL:HG23	1.95	0.47
32:2a:921:U:O2	36:2e:19:MET:HB2	2.13	0.47
32:2a:1145:C:H4'	32:2a:1146:A:H5'	1.94	0.47
32:2a:1314:C:H2'	32:2a:1315:U:C6	2.50	0.47
35:2d:50:ARG:NH2	36:2e:9:LYS:HE3	2.29	0.47
55:2x:28:C:H2'	55:2x:29:G:H8	1.80	0.47
1:1A:141:A:N3	1:1A:1408:C:O2'	2.42	0.47
1:1A:793:A:OP2	1:1A:2071:A:O2'	2.32	0.47
1:1A:1614:A:P	1:1A:1614:A:H8	2.38	0.47
1:1A:2032:G:OP2	1:1A:2454:G:O2'	2.25	0.47
1:1A:2301:C:H2'	1:1A:2302:G:H8	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2584:U:H2'	1:1A:2585:U:H2'	1.95	0.47
8:1I:61:ARG:HD3	8:1I:61:ARG:HA	1.65	0.47
11:1P:124:LYS:HA	11:1P:144:GLU:HB3	1.97	0.47
27:15:55:ARG:HE	27:15:57:VAL:HG13	1.79	0.47
32:1a:1302:U:O4	44:1m:14:ARG:NH1	2.48	0.47
1:2A:196:A:N3	1:2A:196:A:H2'	2.30	0.47
3:2D:118:VAL:HG22	3:2D:119:ALA:H	1.79	0.47
10:2O:29:ASN:OD1	10:2O:29:ASN:N	2.47	0.47
15:2T:26:ASP:CG	15:2T:120:ARG:HH22	2.19	0.47
32:2a:735:C:H2'	32:2a:736:C:C6	2.49	0.47
40:2i:6:GLY:HA3	40:2i:80:GLY:O	2.15	0.47
54:2w:6:A:H61	54:2w:67:U:H3	1.62	0.47
1:1A:191:A:H2'	1:1A:192:C:C6	2.50	0.47
1:1A:242:G:O2'	1:1A:254:G:O6	2.29	0.47
1:1A:589:C:O3'	5:1F:95:ARG:NE	2.40	0.47
1:1A:1039:G:H1	1:1A:1116:C:H42	1.61	0.47
1:1A:1692:U:H2'	1:1A:1694:C:C5	2.50	0.47
1:1A:2564:A:C2	1:1A:2647:U:H4'	2.50	0.47
1:1A:2788:C:O2'	1:1A:2809:A:N3	2.40	0.47
14:1S:10:ARG:O	14:1S:14:VAL:HG13	2.15	0.47
18:1W:25:ARG:NH2	18:1W:74:ALA:O	2.40	0.47
26:14:16:CYS:HB2	26:14:36:CYS:HB3	1.95	0.47
32:1a:8:A:N6	35:1d:205:GLU:O	2.46	0.47
32:1a:582:U:H2'	32:1a:583:A:H8	1.79	0.47
32:1a:895:G:H2'	32:1a:896:C:C6	2.50	0.47
32:1a:1254:C:N3	32:1a:1283:G:N2	2.50	0.47
32:1a:1302:U:C6	44:1m:17:VAL:HG11	2.50	0.47
33:1b:84:GLU:OE1	33:1b:87:ARG:NH1	2.47	0.47
35:1d:114:ARG:HA	35:1d:117:ALA:HB3	1.96	0.47
54:1y:53:G:H1	54:1y:61:C:H42	1.63	0.47
1:2A:93:G:H2'	1:2A:94:C:C6	2.49	0.47
1:2A:245:G:O5'	11:2P:73:GLY:HA2	2.15	0.47
1:2A:372:G:N2	1:2A:400:G:H2'	2.30	0.47
1:2A:631:A:N3	1:2A:2415:G:O2'	2.44	0.47
1:2A:948:G:N1	1:2A:970:C:O2	2.48	0.47
1:2A:1179:C:H2'	1:2A:1180:C:C6	2.49	0.47
1:2A:1223:G:N2	1:2A:1225:G:H3'	2.29	0.47
1:2A:2364:C:H4'	22:20:56:ASP:OD1	2.14	0.47
1:2A:2420:C:P	30:28:33:ASN:H	2.37	0.47
1:2A:2735:G:H2'	1:2A:2736:G:C8	2.50	0.47
5:2F:37:VAL:HG22	5:2F:183:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:27:VAL:O	12:2Q:138:ASP:HB3	2.15	0.47
12:2Q:57:HIS:HD2	12:2Q:117:ALA:HB2	1.80	0.47
15:2T:16:ARG:HH11	15:2T:81:PRO:HA	1.80	0.47
15:2T:65:LYS:O	15:2T:72:VAL:N	2.40	0.47
21:2Z:61:LEU:HD22	21:2Z:65:GLN:HB2	1.97	0.47
30:28:28:GLY:O	30:28:36:LYS:NZ	2.48	0.47
32:2a:264:U:O2	48:2q:64:PRO:HG2	2.14	0.47
32:2a:457:C:H2'	32:2a:458:C:H6	1.80	0.47
32:2a:598:U:H2'	32:2a:599:C:C6	2.50	0.47
32:2a:690:G:H8	32:2a:690:G:O5'	1.97	0.47
32:2a:1033:G:H2'	32:2a:1034:G:H8	1.80	0.47
35:2d:76:ARG:O	35:2d:80:GLU:HG2	2.14	0.47
38:2g:136:LYS:O	38:2g:140:ASP:HB2	2.15	0.47
40:2i:92:TYR:HB3	40:2i:96:LEU:HD12	1.96	0.47
55:2x:3:C:H2'	55:2x:4:G:C8	2.49	0.47
1:1A:57:C:H2'	1:1A:58:G:O4'	2.14	0.47
1:1A:2080:G:H2'	1:1A:2081:C:H6	1.80	0.47
1:1A:2129:C:H42	1:1A:2159:G:H1	1.60	0.47
1:1A:2683:C:OP1	15:1T:53:ARG:NH2	2.44	0.47
7:1H:125:VAL:HG13	7:1H:131:VAL:HG22	1.97	0.47
8:1I:65:ALA:O	8:1I:69:LYS:N	2.42	0.47
14:1S:67:ARG:NH2	14:1S:103:GLU:OE1	2.31	0.47
14:1S:110:LEU:HD12	14:1S:110:LEU:HA	1.80	0.47
18:1W:69:LEU:HD13	18:1W:107:LEU:HD23	1.97	0.47
25:13:51:ALA:HA	25:13:54:VAL:HG12	1.97	0.47
32:1a:100:C:H2'	32:1a:101:A:C8	2.49	0.47
32:1a:382:A:H2'	32:1a:383:A:H8	1.80	0.47
32:1a:1008:C:N3	32:1a:1021:G:O6	2.48	0.47
32:1a:1070:U:H2'	32:1a:1071:C:C6	2.49	0.47
32:1a:1305:G:OP2	52:1u:2:GLY:N	2.48	0.47
1:2A:8:A:H2'	1:2A:9:U:C6	2.49	0.47
1:2A:17:G:HO2'	16:2U:25:TRP:CD1	2.32	0.47
1:2A:531:C:H4'	1:2A:532:A:H5''	1.96	0.47
1:2A:1149:G:H2'	1:2A:1150:C:C6	2.50	0.47
1:2A:2191:G:H2'	1:2A:2192:G:O4'	2.15	0.47
28:26:53:LYS:NZ	54:2y:1:G:OP1	2.38	0.47
32:2a:34:C:H2'	32:2a:35:G:C8	2.44	0.47
32:2a:392:G:H2'	32:2a:393:A:C8	2.50	0.47
32:2a:736:C:H4'	37:2f:91:VAL:HG22	1.96	0.47
32:2a:1338:G:H21	55:2x:41:C:H1'	1.80	0.47
55:2x:28:C:H2'	55:2x:29:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:493:G:H2'	1:1A:494:G:O4'	2.15	0.47
1:1A:1075:C:C2'	1:1A:1076:C:H5'	2.44	0.47
1:1A:1508:A:HO2'	1:1A:1509:C:P	2.37	0.47
1:1A:2012:G:OP1	18:1W:11:ARG:NH2	2.46	0.47
1:1A:2126:A:N7	1:1A:2163:C:H1'	2.30	0.47
3:1D:53:PHE:C	3:1D:218:ARG:HB2	2.39	0.47
23:11:2:SER:HB2	23:11:43:TYR:CD1	2.49	0.47
32:1a:1278:U:H5'	32:1a:1279:A:H5'	1.97	0.47
33:1b:28:PHE:CD1	33:1b:194:PRO:HG3	2.48	0.47
1:2A:580:C:H42	1:2A:1260:G:H1	1.63	0.47
1:2A:595:C:H42	1:2A:662:G:H1	1.63	0.47
1:2A:832:G:OP1	60:2A:4941:HOH:O	2.21	0.47
1:2A:989:G:OP2	25:23:11:SER:OG	2.28	0.47
1:2A:1713:U:H2'	1:2A:1714:G:H8	1.79	0.47
1:2A:2431:U:O4	60:2A:5180:HOH:O	2.18	0.47
1:2A:2472:G:H2'	1:2A:2475:C:H42	1.80	0.47
6:2G:96:ARG:O	6:2G:99:MET:HB3	2.14	0.47
12:2Q:31:ASP:OD1	12:2Q:134:ARG:NH1	2.35	0.47
18:2W:9:TYR:H	18:2W:102:HIS:CE1	2.33	0.47
20:2Y:9:LYS:HA	20:2Y:10:GLY:HA2	1.52	0.47
32:2a:1040:U:H2'	32:2a:1041:A:H8	1.80	0.47
32:2a:1242:C:H2'	32:2a:1243:C:O4'	2.15	0.47
33:2b:15:VAL:HG21	33:2b:213:LEU:HD13	1.96	0.47
36:2e:100:VAL:HG11	36:2e:107:ARG:HG3	1.97	0.47
41:2j:9:ARG:HG2	41:2j:69:ASN:HA	1.97	0.47
47:2p:14:ASN:HA	47:2p:42:ARG:NH2	2.30	0.47
51:2t:14:LYS:HA	51:2t:17:ARG:HH21	1.80	0.47
1:1A:1035:U:H2'	1:1A:1036:G:C8	2.50	0.47
1:1A:1799:G:O2'	3:1D:181:GLU:OE2	2.28	0.47
1:1A:2322:A:H2'	1:1A:2323:G:O4'	2.15	0.47
5:1F:187:VAL:HG12	11:1P:3:LEU:HD12	1.97	0.47
13:1R:118:GLU:H	13:1R:118:GLU:CD	2.23	0.47
21:1Z:76:LEU:HD12	21:1Z:83:PRO:HA	1.96	0.47
32:1a:598:U:H4'	39:1h:94:TYR:CG	2.50	0.47
32:1a:993:G:O2'	32:1a:994:A:N7	2.48	0.47
33:1b:21:ARG:HB2	33:1b:22:LYS:H	1.55	0.47
33:1b:63:MET:HG2	33:1b:225:ALA:HB1	1.96	0.47
46:1o:9:GLN:O	46:1o:13:GLN:N	2.38	0.47
1:2A:116:C:H2'	1:2A:117:G:O4'	2.15	0.47
1:2A:271(H):G:H2'	1:2A:271(I):G:C8	2.49	0.47
1:2A:1263:U:H1'	27:25:10:LYS:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2126:A:O2'	1:2A:2162:G:N2	2.48	0.47
1:2A:2600:A:N6	60:2A:4507:HOH:O	2.44	0.47
3:2D:177:LEU:HD12	3:2D:181:GLU:HB3	1.97	0.47
5:2F:187:VAL:HG12	11:2P:3:LEU:HD12	1.96	0.47
11:2P:128:HIS:NE2	11:2P:148:LEU:HD11	2.29	0.47
12:2Q:38:GLU:HG3	12:2Q:127:ILE:HG22	1.96	0.47
21:2Z:35:ARG:HD2	21:2Z:35:ARG:HA	1.73	0.47
25:23:26:LEU:O	25:23:35:ARG:HD3	2.15	0.47
32:2a:336:C:H2'	32:2a:337:C:C6	2.50	0.47
32:2a:601:C:H42	32:2a:637:G:H1	1.61	0.47
32:2a:743:U:H2'	32:2a:744:C:C6	2.49	0.47
32:2a:1176:A:H2'	32:2a:1177:G:H8	1.80	0.47
33:2b:188:ALA:HB1	33:2b:192:SER:HB2	1.97	0.47
34:2c:121:ALA:O	34:2c:124:ILE:HG12	2.15	0.47
35:2d:78:LEU:HD23	35:2d:96:LEU:HB3	1.98	0.47
35:2d:81:GLU:O	35:2d:85:LYS:HB2	2.15	0.47
37:2f:97:PHE:CE2	49:2r:62:GLU:HG2	2.49	0.47
47:2p:56:ALA:O	47:2p:60:LEU:HB2	2.14	0.47
48:2q:56:VAL:N	48:2q:78:GLU:O	2.48	0.47
1:1A:193:U:OP2	60:1A:4535:HOH:O	2.20	0.46
1:1A:751:A:H5'	18:1W:90:ARG:HA	1.97	0.46
1:1A:857:C:N4	1:1A:858:U:O4	2.48	0.46
1:1A:1066:U:N3	1:1A:1069:A:OP2	2.47	0.46
1:1A:1183:G:O2'	25:13:29:ARG:NH1	2.47	0.46
1:1A:1406:U:H2'	1:1A:1407:C:C6	2.50	0.46
1:1A:1417:C:H2'	1:1A:1418:G:O4'	2.15	0.46
19:1X:94:GLY:HA2	19:1X:95:LEU:C	2.40	0.46
32:1a:279:A:H4'	32:1a:280:C:H5''	1.97	0.46
32:1a:375:U:OP1	47:1p:69:THR:HG21	2.15	0.46
32:1a:836:G:OP1	49:1r:61:LYS:NZ	2.46	0.46
33:1b:178:ARG:HG3	39:1h:72:PRO:HA	1.97	0.46
42:1k:34:ASP:OD1	42:1k:38:ASN:N	2.47	0.46
53:1v:16:A:H2'	53:1v:17:U:O4'	2.15	0.46
1:2A:127:A:H5''	1:2A:128:C:O5'	2.15	0.46
1:2A:271(P):C:H2'	1:2A:271(Q):G:C8	2.50	0.46
1:2A:724:U:H2'	1:2A:725:G:O4'	2.15	0.46
1:2A:774:A:H2'	1:2A:774:A:N3	2.30	0.46
1:2A:1502:C:H2'	1:2A:1503:U:C6	2.48	0.46
1:2A:2110:G:H1	1:2A:2179:C:H42	1.61	0.46
1:2A:2461:C:H2'	1:2A:2462:U:C6	2.50	0.46
1:2A:2711:A:OP2	60:2A:4577:HOH:O	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:30:ILE:HG23	9:2N:52:VAL:HG11	1.98	0.46
13:2R:87:TYR:OH	13:2R:117:VAL:O	2.33	0.46
15:2T:122:ASP:O	15:2T:126:ALA:N	2.46	0.46
32:2a:533:A:O2'	32:2a:534:U:H5''	2.15	0.46
34:2c:31:HIS:O	34:2c:35:GLU:N	2.43	0.46
36:2e:129:ILE:HG22	36:2e:133:TYR:HE2	1.79	0.46
46:2o:5:LYS:H	46:2o:5:LYS:HD2	1.80	0.46
55:2x:8:4SU:H1'	55:2x:48:C:H1'	1.97	0.46
1:1A:784:A:C6	3:1D:229:VAL:HG11	2.50	0.46
1:1A:2375:G:N2	1:1A:2378:A:OP2	2.40	0.46
1:1A:2406:U:H2'	1:1A:2406:U:OP2	2.16	0.46
32:1a:377:G:H5'	47:1p:5:ARG:NH1	2.30	0.46
32:1a:501:C:H1'	32:1a:549:C:H1'	1.96	0.46
32:1a:1261:A:N6	32:1a:1274:G:O2'	2.49	0.46
37:1f:97:PHE:N	49:1r:30:ASP:OD1	2.48	0.46
1:2A:1520:G:H3'	1:2A:1523:U:H6	1.80	0.46
2:2B:78:A:H2'	2:2B:79:C:O4'	2.15	0.46
9:2N:103:VAL:HG11	9:2N:120:LEU:HD22	1.97	0.46
23:21:3:LYS:HB3	23:21:4:VAL:H	1.49	0.46
32:2a:254:G:H5''	48:2q:69:LYS:HD2	1.98	0.46
33:2b:178:ARG:HH21	33:2b:184:VAL:HB	1.80	0.46
51:2t:53:LEU:HB2	51:2t:100:ILE:HD11	1.96	0.46
55:2x:3:C:N3	55:2x:70:G:N2	2.56	0.46
1:1A:196:A:H2'	1:1A:196:A:N3	2.30	0.46
1:1A:272(J):C:H2'	1:1A:274:G:H8	1.81	0.46
1:1A:958:U:O2	2:1B:90:A:O2'	2.18	0.46
1:1A:1471:A:OP2	1:1A:1519:G:N1	2.35	0.46
1:1A:1628:G:H2'	1:1A:1629:U:C6	2.50	0.46
1:1A:2849:U:H4'	1:1A:2868:A:C2	2.51	0.46
3:1D:2:ALA:O	3:1D:20:ASP:HB3	2.15	0.46
5:1F:65:TRP:CZ2	5:1F:75:HIS:HD2	2.33	0.46
15:1T:22:PHE:HB3	15:1T:88:ILE:HD11	1.97	0.46
21:1Z:99:TYR:HA	21:1Z:124:ILE:O	2.15	0.46
32:1a:78:G:HO2'	32:1a:79:G:H8	1.62	0.46
32:1a:159:G:N2	32:1a:161:A:H3'	2.30	0.46
32:1a:690:G:C6	32:1a:691:G:C6	3.04	0.46
32:1a:1347:G:O2'	32:1a:1373:G:O6	2.28	0.46
32:1a:1366:C:H2'	32:1a:1367:C:C6	2.50	0.46
32:1a:1512:U:H2'	32:1a:1513:A:C8	2.51	0.46
36:1e:80:ILE:HG22	36:1e:91:LEU:HB2	1.97	0.46
48:1q:83:ASP:N	48:1q:83:ASP:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:731:C:H5''	60:2A:6025:HOH:O	2.15	0.46
1:2A:2156:G:H2'	1:2A:2157:G:C4	2.49	0.46
3:2D:67:PHE:HB3	3:2D:153:ALA:H	1.81	0.46
8:2I:83:ALA:HB2	8:2I:88:ILE:HG12	1.98	0.46
16:2U:76:TYR:CZ	16:2U:80:ILE:HG13	2.50	0.46
25:23:11:SER:HA	25:23:31:LEU:HD21	1.98	0.46
32:2a:559:A:H4'	32:2a:560:U:H3'	1.97	0.46
32:2a:1236:A:H2'	32:2a:1237:C:C6	2.50	0.46
54:2y:28:C:N4	54:2y:42:G:H1	2.14	0.46
1:1A:195:A:OP1	11:1P:46:LYS:NZ	2.43	0.46
1:1A:252:G:P	11:1P:50:ARG:HH12	2.37	0.46
1:1A:284:U:H2'	1:1A:285:C:H6	1.80	0.46
1:1A:450:G:OP2	60:1A:6867:HOH:O	2.21	0.46
1:1A:1188:U:H4'	17:1V:79:VAL:HG22	1.96	0.46
1:1A:1359:A:H2'	1:1A:1360:A:H5'	1.96	0.46
1:1A:2537:U:H2'	1:1A:2538:C:C6	2.51	0.46
1:1A:2698:U:H2'	1:1A:2699:C:C6	2.51	0.46
6:1G:16:ARG:NH2	6:1G:28:VAL:O	2.48	0.46
14:1S:27:SER:HA	14:1S:88:ASP:HB3	1.97	0.46
32:1a:1353:G:H2'	32:1a:1354:C:H6	1.80	0.46
38:1g:78:ARG:HD2	38:1g:156:TRP:HE3	1.80	0.46
1:2A:239:U:H2'	1:2A:240:G:O4'	2.15	0.46
1:2A:340:A:H2'	1:2A:341:G:O4'	2.15	0.46
1:2A:493:G:H2'	1:2A:494:G:O4'	2.14	0.46
1:2A:1196:C:H2'	1:2A:1197:G:H8	1.80	0.46
1:2A:1471:A:OP2	1:2A:1519:G:N2	2.49	0.46
1:2A:2320:A:N3	1:2A:2320:A:H2'	2.31	0.46
1:2A:2432:A:C8	23:21:33:LYS:HD3	2.51	0.46
15:2T:28:VAL:HG13	15:2T:86:ILE:HG23	1.97	0.46
17:2V:4:ILE:HD12	17:2V:39:LEU:HB3	1.97	0.46
25:23:5:LYS:O	25:23:56:VAL:HA	2.16	0.46
28:26:25:LYS:NZ	28:26:30:THR:O	2.43	0.46
32:2a:521:G:H4'	43:2I:73:GLU:HG2	1.98	0.46
32:2a:967:5MC:OP2	32:2a:969:A:H5'	2.15	0.46
32:2a:1353:G:H2'	32:2a:1354:C:C6	2.49	0.46
1:1A:1137:G:H2'	1:1A:1138:G:C8	2.50	0.46
1:1A:2689:U:OP2	1:1A:2719:G:N2	2.41	0.46
1:1A:2887:U:H2'	1:1A:2888:C:C6	2.51	0.46
6:1G:27:ASN:HB3	6:1G:30:GLU:HG3	1.98	0.46
8:1I:93:THR:O	8:1I:97:ILE:HG13	2.15	0.46
10:1O:29:ASN:OD1	10:1O:29:ASN:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1S:43:GLU:OE2	22:10:49:LYS:HE3	2.15	0.46
14:1S:93:LYS:O	14:1S:95:HIS:N	2.49	0.46
32:1a:119:A:H4'	32:1a:120:A:C8	2.50	0.46
32:1a:381:C:H2'	32:1a:382:A:O4'	2.15	0.46
35:1d:173:TRP:CE3	35:1d:174:LEU:HG	2.49	0.46
44:1m:92:HIS:CE1	44:1m:98:VAL:HG21	2.51	0.46
1:2A:1022:G:N2	1:2A:1023:U:O4	2.48	0.46
1:2A:1199:U:O2'	60:2A:4243:HOH:O	2.20	0.46
1:2A:2065:C:H4'	1:2A:2251:OMG:HM22	1.97	0.46
1:2A:2166:G:H5'	1:2A:2167:U:OP2	2.16	0.46
1:2A:2615:U:N1	27:25:7:PRO:HA	2.29	0.46
1:2A:2635:C:H5''	4:2E:78:LEU:O	2.15	0.46
3:2D:133:LEU:HB3	3:2D:173:VAL:HG21	1.97	0.46
16:2U:76:TYR:OH	16:2U:92:ARG:NE	2.39	0.46
22:20:69:PHE:CE1	22:20:79:VAL:HG22	2.51	0.46
23:21:2:SER:HB3	23:21:46:LEU:HD12	1.98	0.46
28:26:10:LEU:HD13	28:26:19:ARG:HD3	1.98	0.46
32:2a:235:C:H2'	32:2a:236:G:C8	2.51	0.46
32:2a:1064:G:O2'	32:2a:1190:G:N2	2.47	0.46
32:2a:1074:G:O2'	32:2a:1101:A:N1	2.43	0.46
32:2a:1148:U:H1'	40:2i:66:ARG:NH2	2.30	0.46
32:2a:1207:2MG:C2'	32:2a:1208:C:H5'	2.46	0.46
48:2q:45:HIS:H	48:2q:72:ARG:HA	1.81	0.46
1:1A:453:C:O2	1:1A:457:A:O2'	2.32	0.46
1:1A:1405:U:H2'	1:1A:1406:U:C6	2.51	0.46
1:1A:1721:G:H2'	1:1A:1722:A:H2'	1.98	0.46
2:1B:7:G:H1	2:1B:114:C:H42	1.64	0.46
6:1G:131:TYR:HB3	6:1G:159:VAL:CG2	2.46	0.46
11:1P:67:MET:HB2	11:1P:67:MET:HE3	1.73	0.46
19:1X:61:GLY:HA3	19:1X:73:ARG:O	2.15	0.46
21:1Z:166:SER:O	21:1Z:168:GLU:N	2.49	0.46
25:13:26:LEU:O	25:13:35:ARG:HD3	2.15	0.46
32:1a:584:G:H2'	32:1a:585:G:C8	2.50	0.46
32:1a:620:C:H2'	32:1a:621:A:O4'	2.16	0.46
32:1a:688:G:H5'	42:1k:46:GLY:C	2.40	0.46
32:1a:860:A:H3'	32:1a:861:G:C8	2.50	0.46
32:1a:1258:G:H2'	32:1a:1259:C:H6	1.80	0.46
43:1l:67:THR:OG1	43:1l:95:GLY:O	2.34	0.46
1:2A:954:G:O2'	1:2A:2274:A:N1	2.26	0.46
1:2A:1754:C:N3	1:2A:2716:U:O2'	2.46	0.46
1:2A:2384:G:OP2	22:20:55:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2D:4:LYS:HB3	3:2D:18:VAL:HG23	1.97	0.46
6:2G:17:PRO:HA	6:2G:20:ILE:HD12	1.98	0.46
7:2H:40:GLU:OE1	7:2H:61:HIS:NE2	2.47	0.46
21:2Z:146:ILE:HA	21:2Z:174:VAL:HG13	1.97	0.46
32:2a:407:G:H5''	35:2d:115:ARG:HB3	1.97	0.46
32:2a:742:G:P	46:2o:35:ARG:HH22	2.36	0.46
32:2a:833:U:H2'	32:2a:834:C:C6	2.50	0.46
32:2a:976:G:H5'	32:2a:1358:U:H1'	1.98	0.46
32:2a:1116:C:H2'	32:2a:1117:G:O4'	2.15	0.46
32:2a:1280:A:OP1	41:2j:69:ASN:ND2	2.49	0.46
32:2a:1302:U:OP2	44:2m:21:TYR:OH	2.17	0.46
54:2y:44:G:H3'	54:2y:45:G:C8	2.50	0.46
1:1A:359:A:H2'	1:1A:360:G:O4'	2.16	0.46
1:1A:894:C:H2'	1:1A:895:U:O4'	2.16	0.46
1:1A:1085:A:HO2'	1:1A:1104:C:HO2'	1.64	0.46
1:1A:2059:A:O2'	5:1F:69:HIS:HD2	1.99	0.46
32:1a:141:A:H2'	32:1a:142:G:H8	1.80	0.46
32:1a:309:G:H1'	32:1a:608:A:C2	2.50	0.46
32:1a:825:G:O2'	39:1h:12:ARG:NH2	2.49	0.46
32:1a:1429:C:H2'	32:1a:1430:C:H6	1.79	0.46
34:1c:11:ARG:NH2	34:1c:177:THR:O	2.48	0.46
45:1n:3:ARG:HD2	45:1n:3:ARG:HA	1.67	0.46
54:1y:50:G:O6	54:1y:64:U:O2	2.33	0.46
1:2A:192:C:O2'	1:2A:802:A:N3	2.45	0.46
1:2A:648:G:H2'	1:2A:649:G:C8	2.51	0.46
1:2A:928:G:H8	1:2A:928:G:O5'	1.97	0.46
1:2A:1005:C:H2'	1:2A:1006:C:C6	2.51	0.46
1:2A:1368:G:OP1	29:27:25:PRO:HG3	2.15	0.46
1:2A:1991:U:H2'	1:2A:1992:G:H5''	1.96	0.46
1:2A:2262:U:H2'	1:2A:2263:C:C6	2.50	0.46
1:2A:2291:U:H5''	1:2A:2380:C:O2'	2.15	0.46
3:2D:274:ARG:O	3:2D:275:LYS:HD2	2.16	0.46
13:2R:51:LEU:HD22	13:2R:66:VAL:HG13	1.98	0.46
13:2R:98:LEU:O	13:2R:113:LEU:HG	2.16	0.46
15:2T:66:VAL:HA	15:2T:71:GLY:HA2	1.98	0.46
32:2a:573:A:N3	32:2a:883:C:O2'	2.46	0.46
32:2a:1109:C:H2'	32:2a:1110:A:O4'	2.16	0.46
38:2g:78:ARG:HG2	38:2g:79:ARG:H	1.81	0.46
39:2h:96:GLY:H	39:2h:99:GLU:CD	2.24	0.46
40:2i:79:LEU:HD22	40:2i:104:ARG:HB3	1.97	0.46
55:2x:76:A:O2'	60:2x:201:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:448:U:H5'	60:1A:6875:HOH:O	2.15	0.46
1:1A:747:U:O2	1:1A:2014:A:H1'	2.15	0.46
1:1A:774:A:N3	1:1A:774:A:H2'	2.31	0.46
1:1A:2145:C:H3'	1:1A:2146:C:H5'	1.97	0.46
1:1A:2305:A:H5''	6:1G:134:GLY:HA3	1.97	0.46
1:1A:2441:C:OP2	1:1A:2586:C:O2'	2.34	0.46
1:1A:2801(A):A:H1'	1:1A:2895:U:H1'	1.98	0.46
3:1D:26:LYS:HB3	3:1D:83:GLU:HG2	1.98	0.46
12:1Q:14:ARG:HG2	12:1Q:41:TRP:HH2	1.81	0.46
14:1S:11:LYS:HG3	14:1S:91:PRO:HD3	1.96	0.46
32:1a:769:G:H4'	32:1a:1513:A:H4'	1.98	0.46
32:1a:985:C:H2'	32:1a:986:A:C8	2.51	0.46
32:1a:1436:U:H2'	32:1a:1437:C:O4'	2.16	0.46
39:1h:81:HIS:ND1	39:1h:138:TRP:OXT	2.48	0.46
39:1h:119:LEU:HB3	39:1h:123:GLU:HB2	1.97	0.46
50:1s:27:GLU:HB2	50:1s:28:LYS:HG2	1.98	0.46
51:1t:10:LEU:HG	51:1t:12:ALA:H	1.81	0.46
53:1v:20:U:H2'	53:1v:21:U:C6	2.50	0.46
1:2A:195:A:OP2	60:2A:4968:HOH:O	2.20	0.46
1:2A:903:C:H2'	1:2A:904:C:C6	2.51	0.46
1:2A:1025:G:C4	1:2A:1135:C:H1'	2.51	0.46
1:2A:1857:G:C6	1:2A:1858:G:N1	2.84	0.46
1:2A:1964:G:O2'	1:2A:1967:C:OP2	2.27	0.46
1:2A:2250:G:C8	1:2A:2496:C:H5''	2.51	0.46
1:2A:2538:C:H2'	1:2A:2539:C:H6	1.79	0.46
2:2B:43:C:H4'	6:2G:98:ARG:HH21	1.80	0.46
6:2G:100:TRP:O	6:2G:104:GLU:HB2	2.15	0.46
8:2I:56:LYS:O	8:2I:60:GLU:N	2.48	0.46
9:2N:22:THR:HB	9:2N:25:ARG:HB2	1.97	0.46
18:2W:86:LEU:HD22	18:2W:96:ILE:HD11	1.98	0.46
21:2Z:79:ARG:HD2	21:2Z:80:ARG:HH12	1.81	0.46
32:2a:774:G:H1	32:2a:805:C:H42	1.64	0.46
40:2i:8:GLY:HA3	40:2i:76:ALA:O	2.15	0.46
40:2i:16:ARG:HB2	40:2i:64:THR:HG22	1.97	0.46
41:2j:40:LEU:HB2	41:2j:69:ASN:HB2	1.96	0.46
44:2m:23:TYR:HB3	44:2m:67:GLU:HA	1.98	0.46
51:2t:47:GLY:HA2	51:2t:48:LYS:C	2.40	0.46
1:1A:312:G:H4'	1:1A:331:A:C2	2.51	0.46
1:1A:1210:A:H5''	1:1A:1212:G:O4'	2.15	0.46
1:1A:1711:C:H2'	1:1A:1712:C:H6	1.80	0.46
1:1A:2567:G:H2'	1:1A:2568:C:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:580:U:H2'	32:1a:581:G:O4'	2.16	0.46
32:1a:749:C:H2'	32:1a:750:G:H8	1.81	0.46
32:1a:985:C:H2'	32:1a:986:A:H8	1.81	0.46
32:1a:1154:G:H2'	32:1a:1155:G:H8	1.81	0.46
32:1a:1308:U:OP1	44:1m:98:VAL:N	2.33	0.46
32:1a:1503:A:H1'	53:1v:13:A:N6	2.31	0.46
1:2A:84:A:N1	1:2A:98:G:O2'	2.42	0.46
1:2A:249:C:O2	30:28:12:LYS:NZ	2.46	0.46
1:2A:579:G:H2'	1:2A:580:C:C6	2.50	0.46
1:2A:699:A:H2'	1:2A:700:G:O4'	2.16	0.46
1:2A:722:A:H2'	1:2A:723:G:C8	2.51	0.46
1:2A:918:A:C5	1:2A:919:G:H1'	2.51	0.46
1:2A:1263:U:C4	1:2A:1264:G:C6	3.04	0.46
1:2A:1464:C:H2'	1:2A:1465:G:C8	2.51	0.46
1:2A:1796:U:H2'	1:2A:1797:C:C6	2.51	0.46
1:2A:1847:A:H3'	1:2A:1848:A:H5'	1.97	0.46
1:2A:2685:G:OP2	15:2T:51:ARG:NH2	2.48	0.46
5:2F:136:THR:HA	5:2F:166:ALA:HB1	1.98	0.46
16:2U:19:LYS:HA	16:2U:22:LYS:HG3	1.97	0.46
31:29:7:VAL:HA	31:29:34:GLN:HE21	1.81	0.46
32:2a:147:G:H2'	32:2a:148:G:C8	2.51	0.46
32:2a:417:C:H2'	32:2a:418:C:H6	1.81	0.46
32:2a:487:A:H2'	32:2a:488:C:O4'	2.15	0.46
32:2a:822:C:H2'	32:2a:823:G:C8	2.50	0.46
32:2a:1442:G:H2'	32:2a:1442:G:N3	2.29	0.46
1:1A:748:G:C8	18:1W:89:ALA:HB1	2.51	0.46
1:1A:800:A:H8	1:1A:800:A:OP1	1.99	0.46
1:1A:1114:G:H2'	1:1A:1115:G:C8	2.51	0.46
1:1A:2680:C:H5'	4:1E:189:PRO:HA	1.98	0.46
18:1W:10:VAL:HG12	18:1W:12:ILE:HG22	1.98	0.46
32:1a:509:A:H2'	32:1a:510:A:C8	2.51	0.46
32:1a:1027:C:H5	32:1a:1028:C:C2	2.34	0.46
32:1a:1279:A:H5''	32:1a:1280:A:OP1	2.15	0.46
32:1a:1422:G:H2'	32:1a:1423:G:C8	2.51	0.46
33:1b:12:GLU:C	33:1b:14:GLY:H	2.23	0.46
42:1k:81:ASP:N	42:1k:81:ASP:OD1	2.49	0.46
1:2A:478:A:N1	1:2A:500:G:H4'	2.31	0.46
1:2A:829:A:N7	1:2A:2248:C:H5'	2.31	0.46
1:2A:2330:G:H2'	1:2A:2331:G:O4'	2.15	0.46
1:2A:2881:C:H2'	1:2A:2882:A:O4'	2.15	0.46
3:2D:60:ARG:NH1	3:2D:86:PRO:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:114:ARG:O	9:2N:118:LYS:HG3	2.16	0.46
10:2O:75:SER:OG	10:2O:76:ALA:N	2.49	0.46
15:2T:39:ARG:NH1	15:2T:41:ARG:HB3	2.31	0.46
20:2Y:35:TYR:CE2	20:2Y:69:ALA:HB3	2.51	0.46
32:2a:201:C:H42	32:2a:216:G:H1	1.62	0.46
32:2a:1381:U:O2'	38:2g:79:ARG:HD3	2.16	0.46
33:2b:61:LEU:HD23	33:2b:68:ILE:HD11	1.98	0.46
37:2f:53:ALA:HB3	37:2f:86:ARG:NH1	2.31	0.46
37:2f:91:VAL:HG11	49:2r:72:ARG:NH1	2.31	0.46
40:2i:13:ALA:HB2	40:2i:68:GLY:HA3	1.98	0.46
1:1A:1588:C:H2'	1:1A:1589:C:C6	2.51	0.45
1:1A:1667:G:O2'	1:1A:1991:U:O4	2.23	0.45
1:1A:1753:G:H5''	15:1T:95:ARG:HD3	1.98	0.45
4:1E:174:ASP:OD1	4:1E:175:VAL:N	2.49	0.45
7:1H:83:TYR:CE2	7:1H:138:LYS:HB2	2.51	0.45
15:1T:11:GLU:O	15:1T:15:VAL:HG23	2.16	0.45
17:1V:14:VAL:HB	17:1V:96:ILE:HG13	1.97	0.45
21:1Z:52:SER:OG	21:1Z:53:ILE:N	2.48	0.45
28:16:26:ASN:HB3	28:16:29:ASN:HB2	1.98	0.45
30:18:63:PRO:HG2	30:18:64:TYR:CE2	2.51	0.45
32:1a:1151:A:O2'	32:1a:1152:A:H8	1.99	0.45
33:1b:16:HIS:HB2	33:1b:204:ASN:CB	2.45	0.45
34:1c:124:ILE:HG22	34:1c:130:VAL:HG22	1.99	0.45
37:1f:67:MET:HE1	37:1f:75:LEU:HD23	1.97	0.45
46:1o:5:LYS:O	46:1o:9:GLN:HG2	2.16	0.45
1:2A:621:A:OP2	11:2P:108:LYS:NZ	2.42	0.45
1:2A:1410:G:H2'	1:2A:1411:C:H6	1.79	0.45
1:2A:2155:G:N7	1:2A:2156:G:H1'	2.31	0.45
26:24:58:ARG:HE	50:2s:69:HIS:CE1	2.34	0.45
32:2a:84:U:H4'	32:2a:89:C:N4	2.30	0.45
32:2a:876:G:OP1	39:2h:14:ARG:NH2	2.49	0.45
32:2a:972:C:O2'	41:2j:55:LYS:O	2.32	0.45
32:2a:1405:G:H2'	32:2a:1406:U:C6	2.50	0.45
32:2a:1426:C:N3	32:2a:1474:G:N2	2.51	0.45
33:2b:31:TYR:O	33:2b:43:ASP:N	2.45	0.45
36:2e:33:VAL:HG13	36:2e:112:LEU:HD12	1.98	0.45
38:2g:77:SER:OG	54:2y:32:C:H4'	2.16	0.45
44:2m:117:VAL:HG22	44:2m:118:ALA:H	1.81	0.45
54:2y:70:C:H2'	54:2y:71:C:H5'	1.97	0.45
1:1A:828:U:H4'	1:1A:831:G:N1	2.31	0.45
1:1A:1899:G:N3	1:1A:1899:G:H2'	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2377:A:H2'	1:1A:2378:A:C8	2.51	0.45
16:1U:79:PHE:HE1	16:1U:110:VAL:HA	1.82	0.45
20:1Y:13:VAL:HG12	20:1Y:74:PRO:HA	1.97	0.45
32:1a:158:G:H2'	32:1a:159:G:H8	1.79	0.45
32:1a:472:A:H5''	47:1p:80:PHE:HB3	1.97	0.45
32:1a:501:C:H2'	32:1a:502:G:H8	1.81	0.45
32:1a:1256:A:OP2	32:1a:1279:A:N6	2.49	0.45
32:1a:1347:G:N2	32:1a:1373:G:H2'	2.31	0.45
34:1c:130:VAL:O	34:1c:134:ILE:HG13	2.16	0.45
34:1c:150:LYS:HG3	34:1c:169:ALA:HB2	1.97	0.45
51:1t:87:LYS:O	51:1t:91:LEU:HG	2.16	0.45
1:2A:882:G:H1	1:2A:894:C:H42	1.63	0.45
1:2A:1127:A:H2'	1:2A:1128:A:H5''	1.97	0.45
1:2A:1218:C:N4	1:2A:1231:G:H1	2.08	0.45
1:2A:1444:G:N2	1:2A:1445(A):C:O2	2.49	0.45
1:2A:1514:U:H2'	1:2A:1515:G:H8	1.82	0.45
1:2A:2355:C:H4'	22:20:24:LYS:HG3	1.98	0.45
1:2A:2356:C:H2'	1:2A:2357:U:O4'	2.15	0.45
1:2A:2809:A:N6	1:2A:2891:G:H2'	2.30	0.45
1:2A:2819:G:H2'	1:2A:2821:A:N7	2.31	0.45
10:2O:115:VAL:HG13	10:2O:121:VAL:HG21	1.98	0.45
12:2Q:110:THR:HG23	12:2Q:113:GLN:OE1	2.16	0.45
32:2a:287:U:H2'	32:2a:288:A:C8	2.52	0.45
32:2a:971:G:OP1	32:2a:971:G:H3'	2.16	0.45
32:2a:1026:G:H1	32:2a:1036:G:H22	1.64	0.45
32:2a:1053:G:N2	32:2a:1058:G:O6	2.49	0.45
32:2a:1399:C:H4'	32:2a:1400:5MC:H3'	1.98	0.45
33:2b:50:GLU:O	33:2b:54:THR:OG1	2.27	0.45
35:2d:50:ARG:HH22	36:2e:9:LYS:HE3	1.80	0.45
37:2f:62:TRP:CD1	49:2r:35:ARG:HD3	2.51	0.45
38:2g:46:ALA:HB1	38:2g:121:ALA:HB2	1.98	0.45
38:2g:126:ASP:HB3	38:2g:131:LYS:HB2	1.98	0.45
48:2q:6:LEU:HB3	48:2q:23:VAL:HG11	1.98	0.45
55:2x:52:G:H1	55:2x:62:C:N4	2.13	0.45
1:1A:875:G:N2	1:1A:902:C:N3	2.47	0.45
1:1A:1042:G:N2	1:1A:1113:U:O2	2.41	0.45
1:1A:1153:C:H2'	1:1A:1154:G:O4'	2.15	0.45
1:1A:1429:G:H2'	1:1A:1430:C:C6	2.51	0.45
1:1A:2889:C:H2'	1:1A:2891:G:O4'	2.16	0.45
12:1Q:7:MET:HE2	12:1Q:7:MET:HB3	1.78	0.45
26:14:40:HIS:CD2	26:14:41:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1226:C:O2'	44:1m:103:THR:O	2.33	0.45
32:1a:1320:C:H2'	32:1a:1321:C:O4'	2.16	0.45
1:2A:27:G:H22	1:2A:512:G:H1'	1.81	0.45
1:2A:190:A:N3	1:2A:679:C:O2'	2.47	0.45
1:2A:243:U:OP1	30:28:6:THR:OG1	2.26	0.45
1:2A:651:G:H4'	30:28:18:ALA:HB3	1.99	0.45
1:2A:2070:G:H2'	1:2A:2071:A:H8	1.80	0.45
1:2A:2593:U:H2'	1:2A:2594:C:C6	2.50	0.45
8:2I:84:GLY:C	8:2I:86:THR:H	2.24	0.45
32:2a:1138:G:C6	32:2a:1140:C:H1'	2.51	0.45
32:2a:1201:A:H4'	32:2a:1202:G:O5'	2.17	0.45
32:2a:1316:G:N7	50:2s:7:LYS:HE3	2.32	0.45
34:2c:55:VAL:HG13	34:2c:68:VAL:HG22	1.97	0.45
40:2i:50:LEU:HD13	40:2i:56:LEU:HG	1.98	0.45
41:2j:44:VAL:HG22	41:2j:66:ARG:HG2	1.98	0.45
54:2y:65:C:H2'	54:2y:66:A:H8	1.81	0.45
1:1A:111:A:O3'	24:12:65:ASN:ND2	2.49	0.45
1:1A:244:A:H4'	11:1P:74:GLU:HB2	1.99	0.45
1:1A:503:A:H4'	1:1A:504:U:H5''	1.98	0.45
1:1A:2031:A:C6	1:1A:2498:C:H1'	2.51	0.45
1:1A:2053:G:C5'	4:1E:145:LYS:H	2.29	0.45
1:1A:2161:C:O2'	1:1A:2162:G:OP2	2.26	0.45
4:1E:26:ILE:O	4:1E:182:LEU:N	2.46	0.45
32:1a:403:C:H4'	35:1d:122:ARG:CZ	2.47	0.45
32:1a:473:G:H2'	32:1a:474:G:H8	1.81	0.45
32:1a:621:A:H2'	32:1a:622:A:C8	2.52	0.45
32:1a:953:G:H2'	32:1a:954:G:O4'	2.16	0.45
32:1a:977:A:O2'	32:1a:979:C:OP2	2.30	0.45
32:1a:1391:U:H2'	32:1a:1392:G:H8	1.78	0.45
47:1p:69:THR:O	47:1p:73:LEU:HG	2.17	0.45
51:1t:53:LEU:HD12	51:1t:100:ILE:HG13	1.98	0.45
1:2A:174:C:H2'	1:2A:175:G:H8	1.82	0.45
1:2A:1015:G:H2'	1:2A:1016:G:C8	2.44	0.45
1:2A:1590:U:H2'	1:2A:1591:G:C8	2.52	0.45
1:2A:1630:G:N2	1:2A:1636:C:O2	2.40	0.45
1:2A:1952:A:OP1	10:2O:42:SER:OG	2.34	0.45
1:2A:2537:U:H2'	1:2A:2538:C:C6	2.52	0.45
1:2A:2691:C:HO2'	1:2A:2871:C:HO2'	1.64	0.45
1:2A:2831:G:O2'	1:2A:2884:U:OP1	2.31	0.45
6:2G:7:LEU:HB2	6:2G:104:GLU:HG3	1.99	0.45
8:2I:48:GLU:HB3	8:2I:52:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2O:36:GLY:HA2	10:2O:106:LEU:HD23	1.99	0.45
16:2U:28:ARG:NH1	16:2U:38:THR:OG1	2.45	0.45
17:2V:72:VAL:HG13	17:2V:85:LYS:HB3	1.98	0.45
20:2Y:12:THR:HA	20:2Y:26:LYS:HA	1.98	0.45
25:23:4:LEU:N	25:23:37:LEU:O	2.46	0.45
32:2a:165:C:H2'	32:2a:166:G:C8	2.51	0.45
32:2a:1001(A):G:H3'	32:2a:1002:G:O4'	2.17	0.45
32:2a:1105:A:H2'	32:2a:1106:G:H8	1.81	0.45
33:2b:67:THR:HG21	33:2b:155:LEU:HD13	1.97	0.45
35:2d:112:VAL:H	35:2d:116:GLN:NE2	2.13	0.45
55:2x:47:U:H3'	55:2x:48:C:C5'	2.46	0.45
1:1A:2292:C:H2'	1:1A:2293:C:C6	2.51	0.45
1:1A:2627:G:O2'	1:1A:2781:A:N1	2.32	0.45
1:1A:2832:U:O4	1:1A:2883:A:H5''	2.16	0.45
5:1F:143:ALA:HB1	5:1F:148:LEU:HB2	1.99	0.45
32:1a:40:C:H2'	32:1a:41:G:H8	1.82	0.45
32:1a:584:G:H2'	32:1a:585:G:H8	1.82	0.45
32:1a:952:U:H2'	32:1a:953:G:C8	2.51	0.45
32:1a:960:U:H4'	32:1a:961:U:H5'	1.98	0.45
32:1a:1209:C:O2'	32:1a:1214:C:N4	2.47	0.45
32:1a:1456:G:H1'	51:1t:39:LYS:HE3	1.99	0.45
34:1c:5:ILE:HG12	34:1c:6:HIS:N	2.31	0.45
35:1d:93:PHE:O	35:1d:97:LEU:HG	2.16	0.45
36:1e:48:ALA:HB3	36:1e:54:ALA:HB2	1.98	0.45
36:1e:72:GLN:O	36:1e:75:THR:HG22	2.15	0.45
1:2A:581:C:H2'	1:2A:582:G:C8	2.51	0.45
1:2A:984:A:H5''	1:2A:985:C:H5	1.82	0.45
1:2A:1257:C:H4'	5:2F:83:PHE:CD1	2.52	0.45
1:2A:1266:G:O2'	1:2A:2012:G:O6	2.24	0.45
1:2A:1278:A:OP1	13:2R:36:THR:HG22	2.16	0.45
1:2A:2361:A:H5'	30:28:27:THR:OG1	2.17	0.45
57:2A:3875:ERY:H71	57:2A:3875:ERY:H4	1.92	0.45
2:2B:50:G:OP1	14:2S:63:THR:OG1	2.23	0.45
12:2Q:21:THR:O	21:2Z:78:LYS:HD2	2.17	0.45
32:2a:580:U:H2'	32:2a:581:G:O4'	2.17	0.45
32:2a:861:G:H2'	32:2a:862:C:C6	2.52	0.45
32:2a:875:C:H1'	39:2h:15:ASN:OD1	2.17	0.45
32:2a:977:A:H1'	32:2a:982:U:O4	2.15	0.45
32:2a:986:A:N3	50:2s:52:TYR:OH	2.47	0.45
32:2a:1049:U:C6	32:2a:1201:A:H5'	2.52	0.45
32:2a:1224:G:N2	32:2a:1363:C:C2	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:134:GLU:O	33:2b:138:LEU:HG	2.15	0.45
35:2d:50:ARG:NH1	35:2d:51:PRO:O	2.50	0.45
48:2q:40:LYS:HD3	48:2q:42:TYR:OH	2.16	0.45
48:2q:43:LEU:HD23	48:2q:43:LEU:HA	1.82	0.45
49:2r:44:LEU:HD11	49:2r:79:LEU:HD13	1.97	0.45
1:1A:271(E):U:H2'	1:1A:271(F):C:C6	2.51	0.45
1:1A:673:C:H5''	5:1F:81:PRO:HD2	1.99	0.45
1:1A:863:A:H2'	1:1A:864:G:C8	2.51	0.45
1:1A:947:G:H2'	1:1A:948:G:C8	2.52	0.45
1:1A:1024:G:C6	1:1A:1025:G:C6	3.05	0.45
1:1A:1684:C:H2'	1:1A:1685:C:C6	2.52	0.45
1:1A:2532:G:O2'	1:1A:2657:A:N1	2.45	0.45
4:1E:143:ASN:HD22	4:1E:147:PRO:HD3	1.80	0.45
6:1G:32:PRO:HB2	6:1G:172:LEU:HD22	1.97	0.45
10:1O:35:VAL:HG21	10:1O:69:ILE:HD13	1.97	0.45
12:1Q:30:GLY:HA2	12:1Q:107:ALA:HB2	1.98	0.45
21:1Z:41:LEU:HD11	21:1Z:83:PRO:HG2	1.99	0.45
25:13:5:LYS:NZ	25:13:34:GLU:OE2	2.46	0.45
32:1a:59:A:H3'	32:1a:331:G:H22	1.82	0.45
32:1a:429:U:H2'	35:1d:25:ARG:HH21	1.80	0.45
32:1a:663:A:H61	32:1a:742:G:H1	1.64	0.45
32:1a:865:A:C2	32:1a:918:A:H4'	2.52	0.45
32:1a:1104:G:H4'	33:1b:111:ARG:NH2	2.32	0.45
32:1a:1327:C:H2'	32:1a:1328:C:C6	2.51	0.45
41:1j:57:LYS:HE2	41:1j:60:ARG:NH2	2.31	0.45
45:1n:23:ARG:HD2	45:1n:28:GLY:O	2.15	0.45
54:1y:72:C:H2'	54:1y:73:A:O4'	2.16	0.45
1:2A:479:A:N3	1:2A:481:G:H5''	2.32	0.45
1:2A:1013:C:H2'	1:2A:1014:U:C6	2.52	0.45
1:2A:1363:C:O2'	1:2A:1809:A:N3	2.47	0.45
1:2A:1429:G:H2'	1:2A:1430:C:C6	2.51	0.45
1:2A:2207:G:H3'	1:2A:2208:A:H5''	1.98	0.45
1:2A:2369:A:H2'	1:2A:2370:G:C8	2.51	0.45
1:2A:2404:C:H1'	11:2P:67:MET:HE1	1.98	0.45
14:2S:67:ARG:HD2	14:2S:71:ARG:HH21	1.82	0.45
22:20:51:VAL:HG21	22:20:79:VAL:O	2.16	0.45
27:25:57:VAL:HG12	27:25:58:LEU:HD13	1.97	0.45
29:27:26:GLY:O	29:27:30:VAL:HG23	2.16	0.45
31:29:10:ILE:HD12	31:29:32:HIS:HA	1.98	0.45
32:2a:403:C:OP1	35:2d:137:SER:OG	2.34	0.45
32:2a:590:C:H2'	32:2a:591:U:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:719:C:O2'	49:2r:49:LYS:HB3	2.16	0.45
32:2a:892:A:H2'	32:2a:893:C:C6	2.52	0.45
33:2b:78:GLN:NE2	33:2b:95:GLN:HG3	2.29	0.45
39:2h:104:ARG:HB2	39:2h:108:GLY:H	1.81	0.45
42:2k:43:SER:HA	42:2k:47:VAL:HG21	1.99	0.45
54:2w:37:6MZ:H9	54:2w:38:A:C6	2.52	0.45
55:2x:66:C:H2'	55:2x:67:C:O4'	2.16	0.45
1:1A:796:C:H2'	1:1A:797:C:C6	2.51	0.45
1:1A:918:A:H5''	2:1B:98:G:O2'	2.17	0.45
1:1A:2494:G:O2'	12:1Q:80:GLU:HA	2.17	0.45
6:1G:126:ASP:CG	6:1G:130:ASN:HB2	2.42	0.45
28:16:18:ARG:HD2	28:16:42:TRP:CD1	2.51	0.45
32:1a:516:PSU:O2'	32:1a:519:C:N3	2.48	0.45
43:1l:114:LYS:HE3	43:1l:125:PRO:HG2	1.99	0.45
43:1l:117:ARG:HB3	43:1l:122:THR:HB	1.99	0.45
1:2A:336:C:H2'	1:2A:337:C:C6	2.52	0.45
1:2A:923:C:H2'	1:2A:924:C:C6	2.50	0.45
1:2A:2093:G:H2'	1:2A:2094:G:H8	1.82	0.45
2:2B:59:A:H2'	2:2B:60:C:O4'	2.17	0.45
7:2H:3:ARG:HG2	7:2H:6:ARG:HG2	1.99	0.45
32:2a:157:G:H2'	32:2a:158:G:C8	2.52	0.45
32:2a:792:A:O2'	32:2a:794:A:N7	2.50	0.45
32:2a:1014:A:H2'	32:2a:1015:A:C8	2.52	0.45
32:2a:1347:G:H22	32:2a:1374:A:P	2.40	0.45
32:2a:1431:C:H2'	32:2a:1432:G:O4'	2.16	0.45
47:2p:17:TYR:O	47:2p:39:TYR:N	2.50	0.45
1:1A:303:U:H2'	1:1A:304:G:H8	1.82	0.45
1:1A:1812:A:O2'	3:1D:45:ASN:N	2.48	0.45
1:1A:2029:G:N1	1:1A:2033:A:OP1	2.47	0.45
1:1A:2223:G:OP1	3:1D:172:TYR:OH	2.32	0.45
1:1A:2473:U:O2	1:1A:2473:U:H2'	2.16	0.45
1:1A:2684:U:H3	1:1A:2725:A:H61	1.63	0.45
1:1A:2869:G:H2'	1:1A:2870:C:O4'	2.16	0.45
5:1F:11:VAL:HB	5:1F:18:ARG:HB3	1.98	0.45
7:1H:44:VAL:N	7:1H:51:ARG:O	2.36	0.45
7:1H:101:ARG:NH1	7:1H:117:PRO:HG2	2.31	0.45
32:1a:134:A:H61	47:1p:25:ARG:HH12	1.63	0.45
32:1a:189(K):U:H2'	32:1a:189(L):G:C8	2.52	0.45
32:1a:424:G:H2'	32:1a:425:G:H8	1.82	0.45
32:1a:791:G:N2	32:1a:1497:G:O3'	2.50	0.45
32:1a:794:A:H2'	32:1a:795:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:936:C:H2'	32:1a:937:A:O4'	2.16	0.45
32:1a:1004:A:H5'	32:1a:1024:G:H22	1.82	0.45
32:1a:1201:A:H4'	32:1a:1202:G:O5'	2.17	0.45
32:1a:1270:C:H2'	32:1a:1271:G:H8	1.81	0.45
32:1a:1315:U:H2'	32:1a:1316:G:O4'	2.17	0.45
32:1a:1328:C:H2'	32:1a:1329:A:O4'	2.17	0.45
32:1a:1372:U:H2'	32:1a:1373:G:O4'	2.16	0.45
34:1c:156:ARG:NE	34:1c:160:ALA:O	2.50	0.45
35:1d:61:LYS:HD3	35:1d:206:PHE:CE2	2.52	0.45
44:1m:58:GLU:O	44:1m:62:ASN:ND2	2.49	0.45
54:1y:52:G:C6	54:1y:63:G:C6	3.05	0.45
1:2A:370:G:H4'	1:2A:371:A:OP2	2.14	0.45
1:2A:832:G:H5'	11:2P:45:LEU:HD22	1.98	0.45
1:2A:882:G:H1	1:2A:894:C:N4	2.14	0.45
1:2A:1327:C:O2'	13:2R:105:ARG:NH1	2.48	0.45
1:2A:1686:C:H2'	1:2A:1687:G:O4'	2.17	0.45
1:2A:2365:G:O6	30:28:39:LYS:HD2	2.16	0.45
1:2A:2430:A:H5'	1:2A:2431:U:OP2	2.17	0.45
1:2A:2638:G:OP1	4:2E:82:ARG:NH2	2.49	0.45
8:2I:14:ASP:O	8:2I:17:GLN:HG2	2.17	0.45
13:2R:97:VAL:HG22	13:2R:114:VAL:HG13	1.99	0.45
19:2X:5:TYR:CE2	24:22:30:ARG:HB2	2.52	0.45
21:2Z:30:ASN:O	21:2Z:32:HIS:N	2.50	0.45
28:26:5:VAL:O	28:26:27:LYS:HG2	2.17	0.45
32:2a:232:G:O2'	32:2a:263:A:N1	2.48	0.45
32:2a:340:U:H2'	32:2a:341:C:C6	2.52	0.45
32:2a:999:C:N4	32:2a:1042:G:H1	2.14	0.45
32:2a:1065:U:H1'	32:2a:1066:C:OP2	2.17	0.45
46:2o:36:ILE:HG23	46:2o:56:LEU:HD11	1.98	0.45
1:1A:55:G:O2'	1:1A:127:A:N1	2.39	0.45
1:1A:250:G:C6	1:1A:251:A:C6	3.05	0.45
1:1A:329:G:O6	20:1Y:19:LYS:N	2.46	0.45
1:1A:565:C:H5''	17:1V:80:GLN:HE22	1.80	0.45
1:1A:776:G:N2	1:1A:2241:A:OP1	2.50	0.45
1:1A:1593:G:H2'	1:1A:1594:G:H8	1.82	0.45
1:1A:1992:G:H5'	1:1A:1994:C:H41	1.81	0.45
1:1A:2135:A:N6	1:1A:2156:G:O2'	2.50	0.45
5:1F:200:GLU:HG3	5:1F:204:ASN:HD21	1.81	0.45
6:1G:43:LEU:HD12	6:1G:43:LEU:HA	1.81	0.45
7:1H:3:ARG:HH11	7:1H:4:ILE:H	1.62	0.45
10:1O:115:VAL:HG13	10:1O:121:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1Y:17:SER:OG	20:1Y:71:LYS:NZ	2.36	0.45
28:16:8:LYS:HD3	30:18:34:TRP:CE3	2.52	0.45
32:1a:863:U:O2'	32:1a:865:A:N7	2.34	0.45
32:1a:1009:G:C6	32:1a:1020:U:O2	2.70	0.45
33:1b:80:ILE:HD11	33:1b:212:GLN:HA	1.99	0.45
35:1d:26:CYS:HA	35:1d:31:CYS:SG	2.57	0.45
44:1m:17:VAL:O	44:1m:20:THR:OG1	2.35	0.45
54:1y:10:G:H1	54:1y:25:C:H42	1.64	0.45
1:2A:330:A:H2	1:2A:1210:A:H2'	1.81	0.45
1:2A:1896:G:H2'	1:2A:1897:G:H8	1.82	0.45
1:2A:2123:G:H1	1:2A:2175:C:N4	2.15	0.45
1:2A:2375:G:O2'	1:2A:2377:A:N7	2.39	0.45
3:2D:142:VAL:N	3:2D:163:ALA:O	2.43	0.45
9:2N:28:THR:HG22	9:2N:29:LYS:HG3	1.99	0.45
15:2T:11:GLU:O	15:2T:15:VAL:HG23	2.17	0.45
32:2a:153:C:H2'	32:2a:154:C:C6	2.52	0.45
32:2a:277:C:OP1	48:2q:41:LYS:HE3	2.17	0.45
32:2a:375:U:OP1	47:2p:69:THR:HG21	2.17	0.45
32:2a:1030(A):G:N2	32:2a:1030(C):G:H3'	2.31	0.45
32:2a:1165:C:N3	32:2a:1171:G:N2	2.64	0.45
34:2c:123:GLN:O	34:2c:128:PHE:HB2	2.17	0.45
34:2c:141:VAL:HA	34:2c:144:SER:HB2	1.98	0.45
52:2u:9:ARG:O	52:2u:13:ILE:HG13	2.16	0.45
1:1A:190:A:N3	1:1A:679:C:O2'	2.41	0.45
1:1A:232:G:N2	1:1A:420:C:OP1	2.43	0.45
1:1A:573:G:O2'	1:1A:574:C:H3'	2.16	0.45
1:1A:657:U:H2'	1:1A:658:C:C6	2.52	0.45
1:1A:746:A:O2'	1:1A:2611:U:O2'	2.21	0.45
1:1A:817:C:H2'	1:1A:818:G:O4'	2.16	0.45
1:1A:1179:C:H2'	1:1A:1180:C:C6	2.52	0.45
1:1A:1926:U:O2'	1:1A:1928:A:N7	2.28	0.45
1:1A:2018:G:H2'	1:1A:2019:A:C8	2.51	0.45
1:1A:2079:U:O3'	23:11:35:THR:OG1	2.33	0.45
4:1E:29:GLY:HA3	60:1E:401:HOH:O	2.16	0.45
10:1O:97:ARG:NH1	32:1a:339:C:OP2	2.50	0.45
23:11:89:GLU:O	23:11:93:GLU:HG2	2.17	0.45
32:1a:236:G:H5''	48:1q:42:TYR:OH	2.16	0.45
32:1a:911:U:H2'	32:1a:912:C:C6	2.52	0.45
38:1g:46:ALA:HB1	38:1g:121:ALA:HB2	1.98	0.45
44:1m:37:THR:HG21	44:1m:56:LEU:HA	1.99	0.45
44:1m:82:MET:HE2	44:1m:92:HIS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1248:G:C2	16:2U:3:ARG:HD2	2.52	0.45
1:2A:2134:A:H2'	1:2A:2134:A:N3	2.32	0.45
1:2A:2137:C:C2	1:2A:2154:G:N2	2.79	0.45
1:2A:2540:C:O2'	1:2A:2740:A:N3	2.47	0.45
1:2A:2602:A:N6	60:2A:3929:HOH:O	2.29	0.45
1:2A:2698:U:H2'	1:2A:2699:C:C6	2.52	0.45
5:2F:7:TYR:O	5:2F:21:ALA:HA	2.17	0.45
15:2T:127:ALA:C	15:2T:129:ARG:N	2.75	0.45
23:21:76:ARG:HH22	23:21:97:LEU:HB3	1.80	0.45
32:2a:986:A:H2'	32:2a:987:G:O4'	2.17	0.45
32:2a:1179:A:H2'	32:2a:1180:A:O4'	2.17	0.45
40:2i:100:GLY:O	40:2i:103:THR:HG22	2.16	0.45
41:2j:8:LEU:HD12	41:2j:16:LEU:HG	1.99	0.45
43:2l:10:LEU:HB3	48:2q:32:TYR:CE2	2.52	0.45
46:2o:29:VAL:HG13	46:2o:63:ARG:HG3	1.99	0.45
54:2y:34:CM0:H2'	54:2y:35:A:C8	2.52	0.45
54:2y:72:C:H2'	54:2y:73:A:O4'	2.17	0.45
1:1A:1292:U:H2'	1:1A:1293:C:C6	2.52	0.44
1:1A:2142:C:H2'	1:1A:2143:C:C6	2.52	0.44
7:1H:154:PRO:HB3	7:1H:163:TYR:CZ	2.52	0.44
9:1N:67:LEU:O	9:1N:88:GLU:HG3	2.17	0.44
23:11:35:THR:OG1	23:11:35:THR:O	2.35	0.44
30:18:52:LYS:HB3	30:18:52:LYS:HE2	1.76	0.44
32:1a:9:G:H2'	32:1a:10:A:H8	1.82	0.44
32:1a:191:G:N3	51:1t:103:GLY:HA2	2.32	0.44
32:1a:1514:C:H2'	32:1a:1515:C:C6	2.52	0.44
33:1b:19:HIS:NE2	33:1b:20:GLU:HG3	2.32	0.44
1:2A:606:U:H4'	1:2A:658:C:H4'	1.98	0.44
1:2A:619:G:H3'	1:2A:620:G:N2	2.32	0.44
1:2A:624:C:OP1	60:2A:4313:HOH:O	2.20	0.44
1:2A:729:G:OP1	3:2D:12:SER:HB2	2.17	0.44
1:2A:1508:A:H4'	1:2A:1509(A):A:C8	2.52	0.44
1:2A:1526:G:C6	1:2A:1527:G:C2	3.05	0.44
1:2A:2823:A:OP1	4:2E:159:HIS:NE2	2.48	0.44
4:2E:54:GLN:NE2	4:2E:76:ARG:HD3	2.32	0.44
8:2I:41:GLU:HA	8:2I:44:LEU:HB3	1.99	0.44
9:2N:71:ILE:HG21	9:2N:84:LYS:HB3	1.99	0.44
11:2P:87:ASP:O	11:2P:90:ARG:NH1	2.51	0.44
12:2Q:19:GLY:HA2	21:2Z:79:ARG:HH12	1.82	0.44
21:2Z:141:VAL:O	21:2Z:143:GLY:N	2.50	0.44
24:22:35:LEU:HD23	24:22:35:LEU:HA	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:909:A:H2'	32:2a:910:C:O4'	2.17	0.44
32:2a:928:G:H2'	32:2a:929:G:C8	2.52	0.44
34:2c:73:PRO:HB3	34:2c:103:VAL:HG11	1.99	0.44
37:2f:97:PHE:HE2	49:2r:62:GLU:HG2	1.81	0.44
40:2i:20:ARG:O	40:2i:60:ASP:N	2.47	0.44
40:2i:21:PRO:HA	40:2i:59:PHE:HA	1.99	0.44
42:2k:24:SER:OG	42:2k:25:TYR:N	2.49	0.44
44:2m:4:ILE:O	44:2m:6:GLY:N	2.51	0.44
1:1A:399:G:OP2	60:1A:5806:HOH:O	2.21	0.44
1:1A:721:C:H2'	1:1A:722:A:C8	2.52	0.44
1:1A:2061:G:H2'	1:1A:2501:C:O2'	2.17	0.44
12:1Q:104:PHE:HE2	12:1Q:125:LEU:HD11	1.82	0.44
23:11:73:LEU:HD23	23:11:73:LEU:HA	1.86	0.44
25:13:15:TYR:CZ	25:13:53:LEU:HD21	2.52	0.44
32:1a:438:G:H4'	35:1d:123:HIS:CE1	2.53	0.44
32:1a:1305:G:C8	52:1u:5:ASP:HB2	2.50	0.44
33:1b:16:HIS:HB2	33:1b:204:ASN:HB3	1.98	0.44
51:1t:42:GLN:HE21	51:1t:46:GLU:HG3	1.83	0.44
1:2A:598:G:H2'	1:2A:599:G:O4'	2.16	0.44
1:2A:1798:U:H5'	3:2D:259:THR:HG22	1.99	0.44
2:2B:17:C:H2'	2:2B:18:G:O4'	2.17	0.44
2:2B:26:A:H2'	2:2B:27:C:C6	2.52	0.44
6:2G:179:PRO:HB2	26:24:42:PHE:CE2	2.52	0.44
14:2S:24:LEU:HB2	14:2S:85:VAL:HG23	2.00	0.44
32:2a:8:A:N6	35:2d:205:GLU:O	2.51	0.44
32:2a:179:A:H2'	32:2a:180:U:C6	2.52	0.44
32:2a:373:A:H2'	32:2a:374:A:C8	2.51	0.44
32:2a:560:U:H5'	32:2a:566:G:N2	2.32	0.44
32:2a:659:U:H2'	32:2a:660:G:O4'	2.17	0.44
33:2b:97:TRP:CH2	33:2b:173:ALA:HA	2.52	0.44
34:2c:17:ASP:OD1	34:2c:18:TRP:N	2.42	0.44
46:2o:39:LEU:HD23	46:2o:39:LEU:HA	1.76	0.44
51:2t:66:ALA:HB1	51:2t:71:THR:HB	1.98	0.44
1:1A:483:A:O3'	20:1Y:50:ARG:HA	2.18	0.44
1:1A:529:A:H62	1:1A:2041:U:H3	1.63	0.44
1:1A:848:G:O6	1:1A:928:G:H2'	2.17	0.44
1:1A:1594:G:H2'	1:1A:1595:G:O4'	2.17	0.44
1:1A:1936:A:OP1	1:1A:1937:A:H5'	2.16	0.44
1:1A:2482:G:O3'	54:1w:64:U:H4'	2.18	0.44
1:1A:2839:G:H5'	13:1R:46:GLY:HA2	1.98	0.44
60:1A:4397:HOH:O	29:17:29:LYS:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1H:56:SER:HB3	7:1H:61:HIS:ND1	2.33	0.44
26:14:54:GLY:O	26:14:56:VAL:HA	2.17	0.44
32:1a:113:G:H1'	32:1a:354:G:H5'	2.00	0.44
32:1a:448:A:O5'	32:1a:485:G:N2	2.50	0.44
32:1a:976:G:OP1	45:1n:32:SER:N	2.47	0.44
32:1a:988:G:H1	32:1a:1217:C:N4	2.14	0.44
32:1a:1386:G:H2'	32:1a:1387:G:C8	2.49	0.44
32:1a:1489:G:H2'	32:1a:1490:C:O4'	2.18	0.44
32:1a:1511:G:H2'	32:1a:1512:U:O4'	2.18	0.44
35:1d:20:TYR:HA	35:1d:26:CYS:SG	2.57	0.44
1:2A:195:A:H61	1:2A:198:C:H3'	1.82	0.44
1:2A:224:G:H2'	1:2A:225:A:O4'	2.18	0.44
1:2A:379:G:N2	23:21:42:GLN:OE1	2.42	0.44
1:2A:807:U:O2'	1:2A:2060:A:N1	2.43	0.44
1:2A:839:U:H2'	1:2A:840:C:H6	1.81	0.44
1:2A:1485:G:H2'	1:2A:1486:A:C8	2.53	0.44
1:2A:1899:G:H2'	1:2A:1899:G:N3	2.33	0.44
1:2A:1998:G:H4'	1:2A:2724:C:O2'	2.17	0.44
1:2A:2101:G:H1	1:2A:2188:C:H42	1.65	0.44
1:2A:2318:G:H21	14:2S:3:ARG:HG3	1.83	0.44
2:2B:83:G:H4'	25:23:52:HIS:CG	2.52	0.44
8:2I:7:GLU:HG3	8:2I:8:PRO:HD2	1.98	0.44
9:2N:103:VAL:O	9:2N:107:LEU:HG	2.18	0.44
21:2Z:40:ASP:OD2	21:2Z:43:GLU:N	2.26	0.44
30:28:26:LYS:HD2	30:28:48:PHE:CD2	2.53	0.44
32:2a:16:A:N3	32:2a:1080:A:O2'	2.44	0.44
32:2a:76:C:H42	32:2a:93:G:H1	1.65	0.44
32:2a:160:A:H1'	32:2a:344:A:C8	2.52	0.44
32:2a:191:G:H2'	32:2a:192:U:O4'	2.16	0.44
32:2a:736:C:O2'	37:2f:90:VAL:O	2.27	0.44
32:2a:1301:U:O2'	32:2a:1302:U:H5'	2.17	0.44
42:2k:82:VAL:HB	42:2k:108:ILE:HG12	1.99	0.44
45:2n:6:LEU:O	45:2n:10:ALA:N	2.50	0.44
45:2n:32:SER:O	45:2n:40:CYS:HA	2.18	0.44
51:2t:23:ARG:HH11	51:2t:24:LEU:HG	1.81	0.44
57:1A:4074:ERY:H321	57:1A:4074:ERY:H8	1.66	0.44
4:1E:121:ASN:ND2	60:1E:410:HOH:O	2.45	0.44
14:1S:87:PHE:HB2	14:1S:112:PHE:CD1	2.53	0.44
32:1a:719:C:O2'	49:1r:50:ILE:O	2.27	0.44
33:1b:21:ARG:HB3	33:1b:39:ILE:HA	2.00	0.44
33:1b:193:ASP:OD1	33:1b:196:LEU:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:1i:9:ARG:HG2	40:1i:14:VAL:HA	2.00	0.44
1:2A:652(T):C:H2'	1:2A:652(U):G:C8	2.53	0.44
1:2A:1028:A:N6	1:2A:1125:G:H2'	2.32	0.44
1:2A:1188:U:H4'	17:2V:79:VAL:HG22	1.99	0.44
1:2A:1463:C:H2'	1:2A:1464:C:C6	2.53	0.44
1:2A:2129:C:N4	1:2A:2159:G:N1	2.49	0.44
1:2A:2166:G:H3'	1:2A:2167:U:H5''	2.00	0.44
5:2F:65:TRP:CZ2	5:2F:75:HIS:HD2	2.35	0.44
32:2a:114:U:H2'	32:2a:115:G:C8	2.51	0.44
32:2a:413:G:N2	32:2a:428:G:H1'	2.32	0.44
32:2a:991:U:C5	32:2a:1212:U:H1'	2.52	0.44
32:2a:1258:G:H2'	32:2a:1259:C:C6	2.53	0.44
35:2d:59:ARG:HA	35:2d:59:ARG:HD3	1.61	0.44
35:2d:150:GLU:H	35:2d:150:GLU:CD	2.25	0.44
46:2o:81:LEU:HG	46:2o:85:LEU:HD12	1.99	0.44
54:2w:21:A:N6	54:2w:46:7MG:C4	2.85	0.44
1:1A:483:A:H5''	20:1Y:50:ARG:HG2	2.00	0.44
1:1A:714:U:O2'	1:1A:716:A:N7	2.42	0.44
1:1A:1060:U:C2	1:1A:1062:G:H1'	2.52	0.44
1:1A:1087:G:H2'	1:1A:1089:G:C8	2.53	0.44
1:1A:1373:A:H2'	1:1A:1374:G:O4'	2.17	0.44
1:1A:1878:G:C2	1:1A:1879:C:C2	3.05	0.44
1:1A:2058:A:N7	60:1A:4833:HOH:O	2.36	0.44
1:1A:2130:U:H2'	1:1A:2158:A:N1	2.32	0.44
1:1A:2305:A:H2'	1:1A:2306:C:O4'	2.17	0.44
1:1A:2330:G:H2'	1:1A:2331:G:O4'	2.17	0.44
1:1A:2853:C:H2'	1:1A:2854:G:C8	2.52	0.44
32:1a:1460:A:H2'	32:1a:1461:G:O4'	2.16	0.44
40:1i:69:GLY:O	40:1i:73:GLN:HG3	2.18	0.44
41:1j:8:LEU:HD12	41:1j:70:ARG:HB2	1.99	0.44
1:2A:491:G:O6	18:2W:49:LYS:NZ	2.50	0.44
1:2A:750:A:OP1	1:2A:1615:C:N4	2.44	0.44
1:2A:896:A:H1'	54:2w:56:C:H5'	1.98	0.44
1:2A:2141:G:N2	1:2A:2151:G:H1'	2.33	0.44
1:2A:2245:U:H5''	1:2A:2246:G:H5'	1.98	0.44
1:2A:2364:C:H2'	1:2A:2365:G:O4'	2.18	0.44
1:2A:2646:C:H2'	1:2A:2647:U:O4'	2.18	0.44
4:2E:31:CYS:HB2	4:2E:91:VAL:HB	2.00	0.44
5:2F:129:PHE:HB2	5:2F:132:VAL:HG22	1.99	0.44
5:2F:148:LEU:HB3	5:2F:172:TRP:HZ3	1.81	0.44
6:2G:125:PHE:HB3	6:2G:166:ASP:OD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:123:TYR:CE2	9:2N:129:PRO:HD2	2.52	0.44
14:2S:105:ALA:O	14:2S:110:LEU:HB2	2.18	0.44
16:2U:91:ASP:O	16:2U:95:LEU:HB2	2.17	0.44
17:2V:52:VAL:HG13	17:2V:55:ALA:HB3	1.98	0.44
19:2X:2:LYS:NZ	19:2X:38:GLU:OE2	2.35	0.44
21:2Z:70:LEU:HA	21:2Z:70:LEU:HD23	1.86	0.44
32:2a:157:G:H1	32:2a:164:U:H3	1.65	0.44
32:2a:728:A:H2'	32:2a:729:A:C8	2.52	0.44
32:2a:1032:G:H2'	32:2a:1033:G:O4'	2.18	0.44
32:2a:1072:G:H2'	32:2a:1073:U:C6	2.52	0.44
34:2c:3:ASN:OD1	34:2c:4:LYS:N	2.50	0.44
54:2y:33:U:O2'	54:2y:35:A:N7	2.42	0.44
1:1A:225:A:N6	1:1A:419:C:O2'	2.51	0.44
1:1A:1239:G:H2'	1:1A:1240:U:O4'	2.18	0.44
1:1A:1801:G:OP2	3:1D:154:LYS:NZ	2.47	0.44
1:1A:2787:C:H2'	1:1A:2788:C:H6	1.82	0.44
6:1G:179:PRO:HG3	26:14:43:TYR:OH	2.17	0.44
7:1H:80:SER:OG	7:1H:81:GLU:N	2.50	0.44
13:1R:97:VAL:HG22	13:1R:114:VAL:HG13	2.00	0.44
26:14:59:PHE:CD2	50:1s:64:GLU:HB3	2.53	0.44
32:1a:881:G:H2'	32:1a:882:C:O4'	2.18	0.44
32:1a:1020:U:O2	32:1a:1020:U:H2'	2.16	0.44
32:1a:1151:A:O2'	32:1a:1152:A:O5'	2.35	0.44
32:1a:1437:C:H2'	32:1a:1438:G:C8	2.52	0.44
33:1b:97:TRP:CZ2	33:1b:102:LEU:HD13	2.50	0.44
36:1e:142:LEU:O	36:1e:143:ARG:NH1	2.40	0.44
39:1h:103:VAL:HB	39:1h:108:GLY:C	2.43	0.44
43:1l:32:PHE:HB3	43:1l:84:LEU:HD11	1.99	0.44
54:1y:40:G:H2'	54:1y:41:A:C8	2.50	0.44
1:2A:29:U:H2'	1:2A:30:G:C8	2.53	0.44
1:2A:407:G:H2'	1:2A:408:G:C8	2.52	0.44
1:2A:652(A):A:H2'	1:2A:652(A):A:N3	2.31	0.44
1:2A:1541:G:OP2	1:2A:1542:A:O2'	2.31	0.44
1:2A:1798:U:H5'	3:2D:259:THR:CG2	2.47	0.44
1:2A:2019:A:N7	27:25:9:LYS:HE2	2.33	0.44
1:2A:2026:C:H42	1:2A:2037:G:H1	1.66	0.44
1:2A:2392:A:OP2	1:2A:2422:A:N6	2.51	0.44
2:2B:9:G:OP1	14:2S:25:ARG:NH1	2.51	0.44
6:2G:79:ASN:OD1	6:2G:79:ASN:N	2.50	0.44
6:2G:103:LEU:HA	6:2G:106:LEU:HB3	2.00	0.44
7:2H:87:LEU:N	7:2H:131:VAL:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2Q:1:MET:HE3	12:2Q:1:MET:HB2	1.80	0.44
18:2W:3:ALA:HB2	18:2W:62:HIS:HD2	1.83	0.44
21:2Z:31:ARG:NH1	21:2Z:94:GLU:OE2	2.50	0.44
32:2a:598:U:H4'	39:2h:94:TYR:CG	2.53	0.44
32:2a:664:G:OP1	49:2r:64:ARG:NE	2.36	0.44
32:2a:1014:A:H1'	50:2s:34:TRP:HB2	1.99	0.44
34:2c:26:LYS:HA	45:2n:36:PHE:HE1	1.83	0.44
44:2m:3:ARG:HE	44:2m:9:ILE:N	2.16	0.44
55:2x:3:C:H2'	55:2x:4:G:H8	1.83	0.44
55:2x:7:G:N2	55:2x:67:C:O2	2.51	0.44
1:1A:613:G:O2'	1:1A:614(C):A:N1	2.43	0.44
1:1A:1371:G:H2'	1:1A:1372:U:H5	1.82	0.44
1:1A:1740:G:H2'	1:1A:1741:A:H8	1.82	0.44
1:1A:2367:G:H2'	1:1A:2368:C:H6	1.82	0.44
1:1A:2588:G:OP1	60:1A:5392:HOH:O	2.21	0.44
1:1A:2667:C:H1'	7:1H:109:PHE:CD1	2.53	0.44
1:1A:2695:C:H2'	1:1A:2696:U:C6	2.52	0.44
3:1D:35:LYS:HB2	3:1D:36:PRO:HD2	1.99	0.44
21:1Z:137:ILE:HA	21:1Z:156:LYS:HE2	1.99	0.44
26:14:58:ARG:HG2	50:1s:65:ASN:O	2.18	0.44
28:16:9:LEU:HA	28:16:54:ILE:HB	2.00	0.44
32:1a:8:A:H5'	36:1e:101:ILE:HG22	2.00	0.44
32:1a:72:C:H2'	32:1a:73:G:C8	2.53	0.44
32:1a:405:U:OP2	35:1d:3:ARG:NH1	2.51	0.44
32:1a:517:G:N1	32:1a:533:A:OP1	2.38	0.44
32:1a:582:U:C2	32:1a:760:G:C6	3.06	0.44
32:1a:976:G:N2	32:1a:1363:C:OP2	2.30	0.44
32:1a:1030(C):G:H2'	32:1a:1030(D):A:C8	2.52	0.44
48:1q:43:LEU:HD12	48:1q:68:ARG:HE	1.81	0.44
54:1w:23:A:H3'	54:1w:24:G:H8	1.82	0.44
55:1x:2:G:O6	55:1x:71:C:N3	2.50	0.44
1:2A:882:G:H2'	1:2A:883:G:C8	2.53	0.44
1:2A:1023:U:O2'	1:2A:1122:G:H5'	2.17	0.44
1:2A:1223:G:O6	17:2V:69:LYS:NZ	2.51	0.44
1:2A:1265:A:H61	1:2A:2013:A:H5''	1.83	0.44
1:2A:2495:G:H5''	12:2Q:82:ARG:HG2	2.00	0.44
1:2A:2839:G:O2'	13:2R:49:ASP:OD2	2.32	0.44
6:2G:47:LYS:HG3	6:2G:48:GLU:H	1.82	0.44
7:2H:20:ALA:HB1	7:2H:21:PRO:HD2	2.00	0.44
26:24:33:VAL:HG12	26:24:34:GLU:H	1.83	0.44
32:2a:710:G:H2'	32:2a:711:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1104:G:H4'	33:2b:111:ARG:NH2	2.32	0.44
1:1A:238:C:H2'	1:1A:239:U:O4'	2.17	0.44
1:1A:571:A:O2'	17:1V:78:LYS:HE2	2.18	0.44
1:1A:1064:C:N3	1:1A:1074:G:O6	2.50	0.44
1:1A:1141:U:OP2	9:1N:63:THR:OG1	2.34	0.44
1:1A:2236:C:H2'	1:1A:2237:G:O4'	2.17	0.44
60:1A:6766:HOH:O	13:1R:11:ASN:ND2	2.51	0.44
6:1G:77:ILE:HG22	6:1G:80:PHE:H	1.83	0.44
12:1Q:3:MET:HE3	12:1Q:3:MET:HB2	1.92	0.44
20:1Y:18:GLY:O	20:1Y:21:LYS:NZ	2.43	0.44
24:12:4:SER:HA	24:12:7:ARG:CZ	2.48	0.44
32:1a:922:G:H4'	36:1e:20:GLN:HA	1.99	0.44
49:1r:34:TYR:CE1	49:1r:35:ARG:HG3	2.53	0.44
1:2A:211:A:H2'	1:2A:212:G:O4'	2.17	0.44
1:2A:570:G:H2'	1:2A:2030:A:C5	2.52	0.44
1:2A:875:G:H2'	1:2A:876:C:O4'	2.18	0.44
1:2A:892:G:C5	1:2A:893:C:H1'	2.52	0.44
1:2A:1604:C:O2'	1:2A:1610:A:N1	2.41	0.44
1:2A:2516:G:C6	1:2A:2517:C:C4	3.06	0.44
1:2A:2542:A:H4'	1:2A:2543:G:C8	2.52	0.44
7:2H:137:ASP:HB3	7:2H:140:LYS:HB2	2.00	0.44
14:2S:16:ASN:HA	14:2S:19:LYS:HD2	1.99	0.44
20:2Y:37:VAL:O	20:2Y:67:LEU:N	2.39	0.44
32:2a:65:U:H1'	32:2a:66:G:OP2	2.18	0.44
32:2a:335:C:O2'	32:2a:1433:A:N3	2.43	0.44
32:2a:438:G:H4'	35:2d:123:HIS:ND1	2.33	0.44
32:2a:1427:U:H2'	32:2a:1428:A:H8	1.82	0.44
35:2d:58:LEU:O	35:2d:62:GLN:HG2	2.17	0.44
51:2t:72:LEU:HD23	51:2t:72:LEU:HA	1.75	0.44
1:1A:303:U:H2'	1:1A:304:G:C8	2.53	0.44
1:1A:750:A:OP1	1:1A:1615:C:N4	2.46	0.44
1:1A:827:U:O2'	1:1A:2068:U:C2	2.64	0.44
1:1A:1002:G:H2'	1:1A:1003:G:O4'	2.18	0.44
1:1A:2803:C:H2'	1:1A:2804:C:C6	2.53	0.44
4:1E:12:THR:HG22	4:1E:13:ARG:H	1.82	0.44
4:1E:96:PHE:O	4:1E:175:VAL:HG11	2.18	0.44
10:1O:24:VAL:HG13	10:1O:33:ALA:HB2	1.98	0.44
11:1P:50:ARG:HH21	30:18:7:HIS:HD2	1.66	0.44
16:1U:74:LEU:HD23	16:1U:114:LYS:HE3	1.99	0.44
18:1W:14:PRO:HB3	18:1W:76:VAL:HG12	2.00	0.44
32:1a:924:C:O2'	32:1a:1502:A:N1	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:986:A:H1'	50:1s:54:GLY:O	2.18	0.44
33:1b:154:LEU:HD12	33:1b:154:LEU:H	1.83	0.44
54:1y:64:U:H2'	54:1y:65:C:C6	2.53	0.44
54:1y:70:C:C2'	54:1y:71:C:H5'	2.47	0.44
1:2A:96:G:H4'	24:22:48:HIS:CD2	2.53	0.44
1:2A:186:G:H2'	1:2A:187:G:H8	1.82	0.44
1:2A:317:G:C2	1:2A:318:C:C2	3.06	0.44
1:2A:568:U:H5'	1:2A:945:A:C6	2.53	0.44
1:2A:1274:A:N3	1:2A:1297:C:H1'	2.33	0.44
1:2A:1683:C:O2'	60:2A:3910:HOH:O	2.21	0.44
1:2A:2154:G:C2	1:2A:2155:G:C5	3.06	0.44
1:2A:2345:G:N3	1:2A:2381:C:H2'	2.33	0.44
1:2A:2441:C:OP2	1:2A:2586:C:O2'	2.25	0.44
1:2A:2552:2MU:H6	1:2A:2552:2MU:O5'	2.18	0.44
1:2A:2751:G:O2'	1:2A:2752:C:O4'	2.34	0.44
7:2H:106:THR:HG22	7:2H:112:PRO:HB3	1.99	0.44
15:2T:107:ASP:OD2	15:2T:111:ARG:NH1	2.40	0.44
32:2a:67:C:H2'	32:2a:68:G:H8	1.83	0.44
32:2a:1012:U:H2'	32:2a:1013:G:C8	2.53	0.44
32:2a:1241:G:H2'	32:2a:1242:C:C6	2.53	0.44
33:2b:7:VAL:HG12	33:2b:8:LYS:H	1.83	0.44
41:2j:55:LYS:HG3	41:2j:56:HIS:CD2	2.52	0.44
44:2m:92:HIS:NE2	44:2m:98:VAL:HG21	2.33	0.44
54:2y:8:4SU:H2'	54:2y:46:7MG:N2	2.33	0.44
1:1A:686:G:H21	1:1A:788:A:H61	1.65	0.43
14:1S:25:ARG:O	14:1S:39:ILE:HA	2.18	0.43
21:1Z:104:PHE:CE2	21:1Z:119:GLU:HG2	2.53	0.43
32:1a:23:C:OP2	32:1a:561:U:N3	2.46	0.43
32:1a:50:A:H8	32:1a:50:A:OP1	2.01	0.43
32:1a:137:C:H2'	32:1a:138:G:C8	2.53	0.43
32:1a:189(I):G:H2'	32:1a:189(J):G:H5''	2.00	0.43
32:1a:721:G:H4'	32:1a:722:A:O4'	2.18	0.43
35:1d:109:GLY:HA3	35:1d:165:MET:HG3	2.00	0.43
37:1f:100:ASN:HB2	49:1r:28:GLU:HA	2.00	0.43
42:1k:59:TYR:CZ	42:1k:63:LEU:HD11	2.53	0.43
55:1x:23:C:H2'	55:1x:24:U:H6	1.83	0.43
1:2A:637:A:H2'	11:2P:117:GLU:OE1	2.18	0.43
1:2A:822:U:H2'	1:2A:823:G:H8	1.83	0.43
1:2A:948:G:H21	1:2A:985:C:P	2.40	0.43
1:2A:1914:C:H2'	1:2A:1915:5MU:C6	2.53	0.43
1:2A:2298:A:N6	1:2A:2318:G:C8	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2425:A:H4'	1:2A:2426:A:H5''	2.00	0.43
1:2A:2847:U:O4	1:2A:2848:G:N1	2.51	0.43
3:2D:3:VAL:HG12	3:2D:17:THR:HB	2.00	0.43
7:2H:117:PRO:HD3	7:2H:123:PHE:CD2	2.53	0.43
15:2T:63:VAL:O	15:2T:73:GLU:HA	2.18	0.43
21:2Z:124:ILE:HD13	21:2Z:163:LEU:HD11	2.00	0.43
30:28:50:LEU:HD23	30:28:50:LEU:HA	1.83	0.43
32:2a:283:C:H2'	32:2a:284:G:O4'	2.18	0.43
32:2a:1071:C:H5''	36:2e:49:PRO:HG3	1.99	0.43
32:2a:1420:C:H42	32:2a:1480:G:H1	1.66	0.43
54:2y:6:A:H62	54:2y:65:C:N4	2.15	0.43
1:1A:239:U:H2'	1:1A:240:G:O4'	2.19	0.43
1:1A:2699:C:H2'	1:1A:2700:C:O4'	2.19	0.43
6:1G:121:ASN:O	6:1G:131:TYR:OH	2.23	0.43
32:1a:147:G:H1	32:1a:175:C:H42	1.66	0.43
32:1a:753:A:OP1	46:1o:69:TYR:OH	2.21	0.43
32:1a:953:G:H5'	32:1a:965:A:H61	1.83	0.43
32:1a:1118:C:P	40:1i:9:ARG:HH21	2.41	0.43
33:1b:115:LEU:HD13	33:1b:145:LEU:HB3	2.00	0.43
37:1f:73:ASN:HD22	37:1f:73:ASN:HA	1.67	0.43
1:2A:1131:G:O6	1:2A:2040:C:H1'	2.18	0.43
1:2A:2136:C:O2'	1:2A:2137:C:O5'	2.36	0.43
1:2A:2262:U:H5	22:20:16:SER:HB3	1.83	0.43
1:2A:2809:A:H62	1:2A:2891:G:H2'	1.82	0.43
5:2F:40:GLN:OE1	5:2F:183:VAL:HG22	2.18	0.43
14:2S:14:VAL:O	14:2S:18:ILE:HG12	2.18	0.43
17:2V:59:ALA:HA	17:2V:97:LYS:HG2	1.99	0.43
21:2Z:72:ARG:HA	21:2Z:72:ARG:HD3	1.79	0.43
26:24:60:GLN:HA	26:24:62:ARG:HH12	1.84	0.43
32:2a:625:G:H4'	47:2p:16:HIS:CD2	2.54	0.43
39:2h:2:LEU:HD11	39:2h:8:ASP:HB2	2.00	0.43
39:2h:25:ASP:OD1	39:2h:25:ASP:N	2.51	0.43
43:2l:92:OTD:H4	43:2l:92:OTD:H8	1.77	0.43
45:2n:37:PHE:HZ	45:2n:56:VAL:HG21	1.83	0.43
54:2w:75:C:H2'	54:2w:76:A:C4	2.53	0.43
1:1A:301:G:OP2	20:1Y:84:ARG:NH2	2.48	0.43
1:1A:389:G:C6	11:1P:70:GLN:HG3	2.53	0.43
1:1A:879:G:H8	1:1A:879:G:O5'	2.01	0.43
1:1A:1031:G:H21	31:19:36:GLN:HE22	1.66	0.43
1:1A:2086:U:H2'	1:1A:2087:G:C8	2.53	0.43
1:1A:2271:G:OP1	22:10:18:ALA:HB1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2317:C:H2'	1:1A:2318:G:O4'	2.18	0.43
1:1A:2788:C:OP1	4:1E:61:ARG:NH2	2.49	0.43
1:1A:2881:C:H2'	1:1A:2882:A:C8	2.54	0.43
1:1A:2893:G:OP2	1:1A:2893:G:H8	2.00	0.43
2:1B:28:C:H2'	2:1B:29:A:O4'	2.18	0.43
13:1R:25:ALA:O	13:1R:29:LEU:HB2	2.19	0.43
21:1Z:28:MET:HE1	21:1Z:61:LEU:HD21	2.00	0.43
23:11:15:ALA:HB3	23:11:40:ARG:HD3	2.00	0.43
32:1a:15:G:OP1	32:1a:1396:A:O2'	2.32	0.43
32:1a:679:C:H2'	32:1a:680:C:C6	2.53	0.43
32:1a:1518:MA6:H93	32:1a:1519:MA6:H92	2.00	0.43
34:1c:87:LEU:O	34:1c:91:LEU:N	2.49	0.43
39:1h:114:THR:HG22	39:1h:131:GLY:HA3	2.00	0.43
45:1n:4:LYS:HA	45:1n:7:ILE:HG22	2.00	0.43
50:1s:31:ILE:O	50:1s:50:ALA:N	2.45	0.43
54:1w:26:A:H61	54:1w:44:G:H1	1.66	0.43
1:2A:664:C:H2'	1:2A:665:C:H6	1.83	0.43
1:2A:855:G:H2'	1:2A:856:C:C6	2.53	0.43
1:2A:1270:C:O2'	1:2A:1648:C:OP2	2.30	0.43
1:2A:1430:C:H2'	1:2A:1431:U:C6	2.53	0.43
1:2A:1507:A:O2'	1:2A:1508:A:O4'	2.34	0.43
1:2A:1851:U:H2'	1:2A:1852:C:O4'	2.19	0.43
1:2A:1877:A:H5'	1:2A:1878:G:OP2	2.18	0.43
1:2A:1981:A:OP1	60:2A:4182:HOH:O	2.21	0.43
2:2B:39:A:O2'	2:2B:40:U:H5'	2.18	0.43
6:2G:47:LYS:HB2	6:2G:86:MET:HE2	1.99	0.43
12:2Q:36:ALA:HA	12:2Q:129:THR:HG22	2.01	0.43
20:2Y:7:VAL:HG21	20:2Y:72:VAL:HG12	2.00	0.43
26:24:48:ARG:HD3	26:24:48:ARG:HA	1.68	0.43
32:2a:50:A:H1'	32:2a:52:G:C8	2.53	0.43
32:2a:620:C:H5''	60:2a:2015:HOH:O	2.17	0.43
32:2a:1272:G:C2	32:2a:1273:G:H1'	2.53	0.43
33:2b:219:VAL:HG22	33:2b:222:ILE:HD12	1.99	0.43
34:2c:83:ARG:O	34:2c:87:LEU:HB2	2.18	0.43
36:2e:113:ALA:HB3	36:2e:115:VAL:HG23	1.99	0.43
39:2h:53:VAL:HB	39:2h:58:TYR:CD2	2.53	0.43
41:2j:16:LEU:HD12	41:2j:94:VAL:HG22	2.00	0.43
48:2q:94:ASN:O	48:2q:98:LEU:HD13	2.17	0.43
1:1A:392:C:H5''	1:1A:409:C:H5''	1.99	0.43
1:1A:628:G:H5''	30:18:18:ALA:HB2	1.99	0.43
1:1A:992:C:OP1	16:1U:47:TYR:OH	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:1339:G:H5''	19:1X:16:LYS:HD3	2.01	0.43
1:1A:1923:U:H2'	1:1A:1924:C:C6	2.53	0.43
1:1A:1942:5MC:OP2	1:1A:1943:U:O2'	2.30	0.43
1:1A:2540:C:H2'	1:1A:2541:A:O4'	2.18	0.43
1:1A:2787:C:H1'	4:1E:62:PRO:HG3	2.01	0.43
3:1D:26:LYS:HE2	3:1D:28:GLU:O	2.18	0.43
5:1F:53:THR:HG23	5:1F:55:GLY:H	1.84	0.43
24:12:35:LEU:HD12	24:12:53:LEU:HD12	2.00	0.43
32:1a:40:C:H2'	32:1a:41:G:C8	2.53	0.43
32:1a:93:G:H2'	32:1a:96:U:O4'	2.17	0.43
32:1a:699:C:N4	60:1a:3802:HOH:O	2.51	0.43
32:1a:1035:A:C4	32:1a:1036:G:N2	2.87	0.43
32:1a:1367:C:H5''	40:1i:114:TYR:HA	2.01	0.43
32:1a:1402:4OC:HM22	32:1a:1403:C:H5'	1.98	0.43
1:2A:1192:G:OP2	11:2P:17:LYS:NZ	2.30	0.43
1:2A:1524:G:N2	1:2A:1525:G:H1'	2.34	0.43
1:2A:2049:G:N7	60:2A:6073:HOH:O	2.36	0.43
1:2A:2051:A:OP1	4:2E:137:HIS:ND1	2.41	0.43
1:2A:2127:G:C2	1:2A:2161:C:C2	3.07	0.43
1:2A:2152:G:N3	1:2A:2153:G:H1'	2.33	0.43
9:2N:34:LEU:HD21	9:2N:120:LEU:HB2	2.01	0.43
21:2Z:155:LEU:HB3	21:2Z:156:LYS:H	1.50	0.43
32:2a:1118:C:H1'	32:2a:1179:A:C4	2.53	0.43
1:1A:24:G:O2'	18:1W:78:GLU:O	2.27	0.43
1:1A:124:G:OP1	1:1A:1376:C:O2'	2.17	0.43
1:1A:152:G:H2'	1:1A:153:C:C6	2.53	0.43
1:1A:1126:A:H4'	1:1A:1127:A:O5'	2.17	0.43
1:1A:1495:A:H2'	1:1A:1496:A:C8	2.53	0.43
1:1A:2359:C:H2'	1:1A:2360:A:O4'	2.18	0.43
1:1A:2698:U:O4	60:1A:4684:HOH:O	2.19	0.43
1:1A:2848:G:C8	15:1T:97:ALA:HB2	2.53	0.43
32:1a:555:C:H2'	32:1a:556:C:C6	2.53	0.43
32:1a:696:A:H2'	32:1a:697:U:O4'	2.18	0.43
32:1a:1272:G:C2	32:1a:1273:G:H1'	2.54	0.43
33:1b:164:VAL:HB	33:1b:186:ALA:HB2	2.01	0.43
1:2A:389:G:O6	11:2P:70:GLN:HB2	2.18	0.43
1:2A:644:A:H4'	1:2A:645:C:C5	2.54	0.43
1:2A:861:A:N6	1:2A:916:G:O2'	2.51	0.43
1:2A:2687:U:H2'	1:2A:2688:U:O4'	2.18	0.43
6:2G:116:ASP:OD2	44:2m:68:GLY:HA3	2.19	0.43
7:2H:98:LEU:HA	7:2H:103:LEU:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2O:15:GLY:O	10:2O:47:ILE:HG12	2.18	0.43
14:2S:87:PHE:CZ	14:2S:102:ALA:HB2	2.53	0.43
21:2Z:48:PHE:CE1	21:2Z:71:VAL:HG11	2.53	0.43
22:20:36:ILE:HD13	22:20:58:THR:HG21	2.01	0.43
34:2c:181:ASN:O	34:2c:204:LEU:N	2.47	0.43
44:2m:91:ARG:HD3	44:2m:97:PRO:O	2.18	0.43
45:2n:37:PHE:HE1	45:2n:53:LEU:HD22	1.84	0.43
45:2n:43:CYS:HA	45:2n:46:GLU:HB2	2.00	0.43
47:2p:67:THR:H	47:2p:70:ALA:HB3	1.83	0.43
49:2r:21:LYS:HD3	49:2r:21:LYS:HA	1.86	0.43
51:2t:89:ARG:O	51:2t:93:GLU:HG2	2.18	0.43
53:2v:22:U:C4	53:2v:23:U:H5	2.36	0.43
54:2y:27:C:H2'	54:2y:28:C:C6	2.54	0.43
1:1A:414:C:H2'	1:1A:415:A:C8	2.53	0.43
1:1A:2078:C:C4	1:1A:2079:U:C4	3.06	0.43
2:1B:74:U:H2'	2:1B:75:G:O4'	2.18	0.43
7:1H:3:ARG:HH22	7:1H:66:GLY:N	2.17	0.43
11:1P:111:ARG:HH11	11:1P:128:HIS:HD2	1.65	0.43
20:1Y:30:VAL:HG22	20:1Y:37:VAL:HG12	2.00	0.43
21:1Z:155:LEU:HD12	21:1Z:155:LEU:HA	1.76	0.43
32:1a:153:C:N4	32:1a:168:G:H1	2.09	0.43
32:1a:204:U:H4'	32:1a:216:G:O5'	2.19	0.43
32:1a:1001(A):G:H2'	32:1a:1002:G:O4'	2.18	0.43
32:1a:1118:C:H2'	32:1a:1119:C:C6	2.53	0.43
32:1a:1123:A:H2	41:1j:39:PRO:HD2	1.83	0.43
32:1a:1151:A:O3'	41:1j:70:ARG:NH2	2.48	0.43
32:1a:1190:G:H4'	34:1c:176:HIS:HE1	1.83	0.43
32:1a:1221:G:OP1	32:1a:1320:C:N4	2.50	0.43
33:1b:19:HIS:CG	33:1b:20:GLU:N	2.86	0.43
35:1d:162:LEU:O	35:1d:166:LYS:HG3	2.18	0.43
55:1x:75:C:H5''	55:1x:76:A:OP2	2.17	0.43
1:2A:195:A:H5''	11:2P:46:LYS:HZ1	1.82	0.43
1:2A:468:G:H5''	5:2F:60:SER:HB3	2.00	0.43
1:2A:674:G:H1'	5:2F:74:ARG:NE	2.33	0.43
1:2A:784:A:OP2	60:2A:6227:HOH:O	2.21	0.43
1:2A:902:C:H2'	1:2A:903:C:H6	1.83	0.43
1:2A:1791:A:H5'	1:2A:1792:G:OP2	2.18	0.43
1:2A:2379:G:O2'	14:2S:17:ARG:NH1	2.26	0.43
2:2B:33:G:C2	2:2B:50:G:C2	3.07	0.43
5:2F:178:PRO:HB3	5:2F:198:ALA:HA	2.00	0.43
16:2U:58:ARG:HA	16:2U:61:TRP:CE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:2U:76:TYR:HH	16:2U:92:ARG:HE	1.63	0.43
32:2a:555:C:H2'	32:2a:556:C:C6	2.53	0.43
32:2a:1010:G:H2'	32:2a:1011:G:H8	1.82	0.43
32:2a:1078:U:H1'	36:2e:130:ASN:HD21	1.83	0.43
32:2a:1139:G:N2	32:2a:1142:G:O6	2.46	0.43
33:2b:174:VAL:HG22	33:2b:184:VAL:HG11	1.99	0.43
1:1A:733:G:N7	60:1A:4528:HOH:O	2.37	0.43
1:1A:1047:G:H2'	1:1A:1110:G:H1	1.84	0.43
1:1A:1337:G:H2'	1:1A:1338:G:O4'	2.18	0.43
1:1A:1843:C:H2'	1:1A:1844:C:C6	2.54	0.43
1:1A:1993:U:H4'	4:1E:128:SER:HB3	2.01	0.43
1:1A:2224:G:OP1	3:1D:268:ARG:NE	2.51	0.43
1:1A:2379:G:O2'	14:1S:17:ARG:NH2	2.50	0.43
1:1A:2838:G:OP1	60:1A:6351:HOH:O	2.22	0.43
20:1Y:39:VAL:HB	20:1Y:42:VAL:HB	2.01	0.43
32:1a:141:A:H2'	32:1a:142:G:C8	2.52	0.43
32:1a:430:A:OP2	35:1d:8:VAL:HG12	2.17	0.43
32:1a:432:A:H3'	32:1a:433:C:C6	2.54	0.43
32:1a:672:U:H2'	32:1a:673:G:C8	2.54	0.43
32:1a:678:U:O2	32:1a:777:A:H4'	2.18	0.43
32:1a:741:G:H2'	32:1a:742:G:H8	1.82	0.43
32:1a:921:U:O2	36:1e:19:MET:HB2	2.19	0.43
32:1a:1106:G:H2'	32:1a:1107:C:C6	2.53	0.43
32:1a:1229:A:O2'	55:1x:30:G:OP1	2.34	0.43
51:1t:62:LEU:HD23	51:1t:62:LEU:HA	1.82	0.43
1:2A:971:C:H2'	1:2A:972:G:O4'	2.19	0.43
1:2A:1693:U:O2'	3:2D:14:ARG:NH2	2.52	0.43
1:2A:2012:G:P	18:2W:11:ARG:HH22	2.42	0.43
1:2A:2286:A:OP1	28:26:29:ASN:ND2	2.52	0.43
1:2A:2513:G:N2	4:2E:143:ASN:OD1	2.52	0.43
13:2R:22:ARG:NE	13:2R:69:ASP:OD1	2.52	0.43
13:2R:96:ARG:NH2	13:2R:117:VAL:HG13	2.34	0.43
15:2T:96:ARG:HD3	15:2T:96:ARG:HA	1.64	0.43
32:2a:411:A:C6	32:2a:429:U:C4	3.07	0.43
32:2a:543:C:OP2	35:2d:10:ARG:NH2	2.52	0.43
32:2a:629:G:H2'	32:2a:630:G:O4'	2.18	0.43
32:2a:710:G:H2'	32:2a:711:G:H8	1.83	0.43
32:2a:1053:G:N7	32:2a:1200:C:H5''	2.33	0.43
32:2a:1150:U:O4	32:2a:1151:A:N6	2.51	0.43
32:2a:1330:U:H4'	44:2m:23:TYR:CE1	2.54	0.43
33:2b:189:ASP:HB2	33:2b:190:THR:H	1.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:2d:193:ASP:N	35:2d:193:ASP:OD1	2.49	0.43
36:2e:72:GLN:O	36:2e:75:THR:HG22	2.19	0.43
42:2k:33:THR:HA	42:2k:39:PRO:HA	2.00	0.43
54:2w:74:C:N4	54:2w:75:C:O2	2.52	0.43
1:1A:593:G:C6	1:1A:594:U:C4	3.07	0.43
1:1A:721:C:H2'	1:1A:722:A:H8	1.83	0.43
1:1A:880:G:H8	1:1A:880:G:OP2	2.01	0.43
1:1A:1372:U:H2'	1:1A:1373:A:O4'	2.19	0.43
1:1A:2356:C:H2'	1:1A:2357:U:O4'	2.19	0.43
1:1A:2406:U:OP1	60:1A:4860:HOH:O	2.21	0.43
1:1A:2532:G:N2	1:1A:2663:G:O2'	2.52	0.43
2:1B:41:U:P	2:1B:43:C:H41	2.42	0.43
10:1O:97:ARG:NE	10:1O:99:PHE:HE1	2.17	0.43
17:1V:25:LEU:HD11	17:1V:94:LEU:HD11	2.01	0.43
32:1a:10:A:H2'	32:1a:11:G:C8	2.54	0.43
32:1a:424:G:H2'	32:1a:425:G:C8	2.54	0.43
32:1a:649:G:H2'	32:1a:650:G:H8	1.83	0.43
32:1a:1427:U:H2'	32:1a:1428:A:C8	2.53	0.43
36:1e:31:LEU:HD23	36:1e:31:LEU:HA	1.78	0.43
39:1h:81:HIS:N	39:1h:138:TRP:O	2.52	0.43
55:1x:66:C:H2'	55:1x:67:C:O4'	2.18	0.43
1:2A:2494:G:OP1	22:20:3:HIS:N	2.44	0.43
6:2G:68:PRO:HA	6:2G:92:VAL:HB	2.00	0.43
6:2G:173:LEU:HB3	6:2G:178:PHE:CD2	2.53	0.43
13:2R:64:ARG:O	13:2R:68:ARG:HG3	2.18	0.43
20:2Y:8:LYS:HD2	20:2Y:97:ARG:NH1	2.34	0.43
22:20:19:LYS:HA	22:20:19:LYS:HD3	1.91	0.43
32:2a:32:A:H1'	32:2a:48:C:H41	1.83	0.43
32:2a:744:C:H2'	32:2a:745:C:C6	2.53	0.43
32:2a:1004:A:N3	32:2a:1038:C:C2	2.87	0.43
38:2g:15:ASP:OD1	38:2g:19:GLY:N	2.52	0.43
39:2h:4:ASP:HB3	39:2h:7:ALA:HB3	2.00	0.43
40:2i:4:TYR:HB2	40:2i:19:LEU:HB2	2.01	0.43
42:2k:62:GLN:O	42:2k:66:LEU:HG	2.19	0.43
42:2k:109:VAL:HG23	49:2r:84:LYS:HB3	2.01	0.43
54:2y:36:C:O5'	54:2y:36:C:H6	2.02	0.43
1:1A:191:A:O2'	1:1A:678:C:O2	2.36	0.43
1:1A:581:C:OP1	16:1U:33:ARG:HG3	2.19	0.43
1:1A:1753:G:H5''	15:1T:95:ARG:CD	2.48	0.43
1:1A:1799:G:C2	3:1D:155:LEU:HD12	2.54	0.43
1:1A:1804:C:OP1	3:1D:259:THR:OG1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2390:U:O2'	1:1A:2391:G:H5'	2.19	0.43
1:1A:2771:C:H2'	1:1A:2772:C:C6	2.54	0.43
2:1B:48:A:H2'	2:1B:49:C:C6	2.54	0.43
5:1F:102:PRO:O	5:1F:106:ARG:HG2	2.19	0.43
5:1F:135:LYS:HB2	5:1F:138:GLU:CD	2.44	0.43
6:1G:15:VAL:HG13	6:1G:175:LEU:HB3	2.01	0.43
8:1I:62:LYS:O	8:1I:66:GLU:HG2	2.19	0.43
12:1Q:136:ALA:HB1	21:1Z:52:SER:HB2	2.01	0.43
25:13:30:ARG:H	25:13:30:ARG:HD3	1.84	0.43
26:14:15:ILE:O	26:14:33:VAL:N	2.36	0.43
26:14:57:GLU:HB3	26:14:58:ARG:H	1.55	0.43
32:1a:735:C:H2'	32:1a:736:C:C6	2.54	0.43
32:1a:949:A:N6	32:1a:1231:G:O6	2.52	0.43
32:1a:1034:G:N2	32:1a:1035:A:H1'	2.33	0.43
32:1a:1187:G:N3	45:1n:60:SER:OG	2.51	0.43
33:1b:16:HIS:CG	33:1b:17:PHE:N	2.87	0.43
33:1b:24:TRP:CD1	33:1b:24:TRP:H	2.36	0.43
38:1g:107:ALA:O	38:1g:111:ARG:HG2	2.18	0.43
1:2A:1191:G:H2'	1:2A:1192:G:H8	1.84	0.43
1:2A:1259:G:H2'	1:2A:1260:G:C8	2.53	0.43
1:2A:2271:G:H2'	1:2A:2272:U:C6	2.53	0.43
1:2A:2418:A:H2'	1:2A:2419:U:C6	2.54	0.43
1:2A:2512:C:H42	1:2A:2574:G:H1	1.67	0.43
6:2G:145:THR:OG1	6:2G:146:TYR:N	2.50	0.43
8:2I:124:GLY:H	8:2I:144:VAL:HG23	1.84	0.43
9:2N:34:LEU:O	9:2N:49:GLY:HA3	2.18	0.43
12:2Q:16:ARG:HG3	12:2Q:18:LYS:HG3	2.00	0.43
14:2S:95:HIS:CG	14:2S:96:GLY:H	2.37	0.43
23:21:50:ARG:NH1	23:21:57:GLU:OE2	2.52	0.43
32:2a:45:U:H2'	32:2a:46:G:C8	2.53	0.43
32:2a:189(D):C:H2'	32:2a:189(E):U:O4'	2.18	0.43
32:2a:1273:G:H3'	32:2a:1274:G:H8	1.84	0.43
33:2b:133:LYS:HB2	33:2b:133:LYS:HE3	1.84	0.43
36:2e:78:HIS:HE1	36:2e:143:ARG:H	1.67	0.43
48:2q:54:GLY:O	48:2q:81:ARG:N	2.51	0.43
52:2u:5:ASP:O	52:2u:11:GLY:HA3	2.19	0.43
54:2w:54:5MU:H2'	54:2w:55:PSU:C6	2.53	0.43
1:1A:876:C:H2'	1:1A:877:U:O4'	2.18	0.43
1:1A:1174:A:H1'	1:1A:1175:U:C5'	2.48	0.43
1:1A:1570:A:H2'	1:1A:1571:A:C8	2.53	0.43
1:1A:1939:5MU:OP1	1:1A:2604:U:O2'	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:2336:A:H61	22:10:43:THR:CG2	2.31	0.43
6:1G:20:ILE:H	6:1G:20:ILE:HG13	1.62	0.43
6:1G:170:ARG:NE	6:1G:174:GLU:OE2	2.52	0.43
7:1H:43:VAL:HA	7:1H:52:VAL:HG22	2.01	0.43
14:1S:61:ASN:HD22	14:1S:64:GLU:HG3	1.84	0.43
18:1W:19:LEU:HB3	27:15:25:LEU:HD11	2.01	0.43
18:1W:20:VAL:HG11	18:1W:44:ALA:HA	2.01	0.43
24:12:32:LEU:O	24:12:36:ARG:HG3	2.19	0.43
31:19:25:VAL:HB	31:19:34:GLN:HG2	2.01	0.43
32:1a:719:C:H1'	49:1r:49:LYS:HB3	2.00	0.43
32:1a:947:G:H2'	32:1a:948:C:C6	2.53	0.43
37:1f:45:LEU:HD12	37:1f:59:TYR:HD1	1.83	0.43
42:1k:15:ALA:HA	42:1k:76:GLY:O	2.18	0.43
50:1s:3:ARG:NE	50:1s:8:GLY:O	2.45	0.43
1:2A:275:G:H2'	1:2A:276:A:O4'	2.18	0.43
1:2A:399:G:H5''	1:2A:400:G:OP2	2.19	0.43
1:2A:566:U:P	17:2V:80:GLN:HE21	2.42	0.43
1:2A:715:G:H2'	1:2A:716:A:C8	2.53	0.43
1:2A:1458:C:H4'	1:2A:1459:G:O4'	2.19	0.43
1:2A:1707:G:H2'	1:2A:1708:C:C6	2.54	0.43
5:2F:102:PRO:HB2	5:2F:105:VAL:HG23	2.00	0.43
10:2O:63:VAL:HG11	10:2O:85:VAL:HG23	1.99	0.43
12:2Q:45:GLN:OE1	12:2Q:45:GLN:N	2.49	0.43
15:2T:20:PRO:HG2	15:2T:88:ILE:HD11	2.00	0.43
20:2Y:1:MET:HB2	20:2Y:2:ARG:H	1.55	0.43
20:2Y:38:ILE:HG12	20:2Y:66:PRO:HA	2.00	0.43
21:2Z:77:ASP:N	21:2Z:82:ARG:O	2.47	0.43
22:20:48:GLY:HA3	22:20:80:HIS:ND1	2.34	0.43
32:2a:489:C:H2'	32:2a:490:G:C8	2.54	0.43
32:2a:540:G:H2'	32:2a:541:G:C8	2.53	0.43
32:2a:540:G:H2'	32:2a:541:G:H8	1.84	0.43
32:2a:954:G:H2'	32:2a:955:U:C6	2.53	0.43
32:2a:1305:G:H5'	52:2u:4:GLY:CA	2.49	0.43
32:2a:1328:C:O2'	44:2m:29:ARG:NE	2.41	0.43
36:2e:78:HIS:CD2	39:2h:104:ARG:HD2	2.54	0.43
36:2e:78:HIS:ND1	39:2h:107:LEU:HD12	2.34	0.43
37:2f:4:TYR:HA	37:2f:92:LYS:HA	2.01	0.43
38:2g:97:GLN:O	38:2g:101:LEU:HG	2.18	0.43
40:2i:128:ARG:HD2	55:2x:32:5MC:OP2	2.19	0.43
44:2m:123:ALA:HB2	54:2w:39:G:H1'	2.00	0.43
46:2o:34:LEU:O	46:2o:38:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:2o:71:GLN:HB2	46:2o:78:TYR:CD1	2.54	0.43
54:2y:35:A:O5'	54:2y:35:A:H8	2.02	0.43
1:1A:1754:C:H2'	1:1A:1755:A:O4'	2.19	0.42
1:1A:2037:G:N7	60:1A:5453:HOH:O	2.36	0.42
1:1A:2147:G:H2'	1:1A:2148:G:O4'	2.18	0.42
1:1A:2466:C:C2	1:1A:2485:G:C2	3.07	0.42
1:1A:2696:U:H2'	1:1A:2697:G:C8	2.54	0.42
3:1D:62:TYR:HA	3:1D:87:ASN:OD1	2.19	0.42
7:1H:11:VAL:HG21	7:1H:50:VAL:HG23	2.01	0.42
8:1I:97:ILE:O	8:1I:101:LEU:HB2	2.19	0.42
10:1O:10:VAL:HG13	10:1O:17:ARG:C	2.44	0.42
11:1P:138:LEU:HD23	11:1P:145:PRO:HB3	2.00	0.42
12:1Q:17:LEU:HB3	12:1Q:39:PRO:HB2	2.01	0.42
12:1Q:137:TYR:O	12:1Q:141:GLN:HG2	2.19	0.42
28:16:33:LYS:HD3	28:16:51:GLU:OE2	2.19	0.42
32:1a:848:C:H2'	32:1a:849:C:C6	2.54	0.42
33:1b:12:GLU:O	33:1b:15:VAL:HG22	2.19	0.42
33:1b:162:ILE:O	33:1b:185:ILE:HG12	2.19	0.42
35:1d:108:LEU:HD21	35:1d:183:GLY:HA3	2.00	0.42
41:1j:13:HIS:HB3	41:1j:68:HIS:CD2	2.54	0.42
43:1l:33:ARG:HG2	43:1l:60:LEU:HD23	2.01	0.42
54:1y:19:G:C6	54:1y:56:C:N4	2.87	0.42
1:2A:139:G:H2'	1:2A:140:G:N7	2.33	0.42
1:2A:353:G:H2'	1:2A:354:G:C8	2.54	0.42
1:2A:1683:C:H2'	1:2A:1684:C:C6	2.54	0.42
1:2A:2540:C:H2'	1:2A:2541:A:O4'	2.19	0.42
1:2A:2544:G:H2'	1:2A:2545:G:H8	1.84	0.42
1:2A:2649:U:H3	1:2A:2671:A:H61	1.67	0.42
1:2A:2792:G:H2'	1:2A:2792:G:N3	2.34	0.42
1:2A:2815:C:H2'	1:2A:2816:C:C6	2.53	0.42
18:2W:88:ARG:HD2	18:2W:88:ARG:HA	1.64	0.42
32:2a:25:C:H5'	32:2a:524:G:H1'	2.01	0.42
32:2a:1048:G:H1	32:2a:1209:C:H42	1.67	0.42
35:2d:79:PHE:O	35:2d:83:SER:OG	2.36	0.42
38:2g:89:MET:SD	38:2g:155:ARG:HB2	2.59	0.42
39:2h:6:ILE:HD12	39:2h:35:ILE:HD12	2.01	0.42
47:2p:4:ILE:O	47:2p:66:PRO:HA	2.19	0.42
1:1A:652(D):C:H2'	1:1A:652(E):G:O4'	2.19	0.42
1:1A:2871:C:N4	60:1A:6156:HOH:O	2.52	0.42
2:1B:105:A:OP1	21:1Z:72:ARG:NH1	2.51	0.42
3:1D:87:ASN:HB2	3:1D:88:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:53:THR:CG2	5:1F:55:GLY:H	2.32	0.42
18:1W:32:ALA:HA	18:1W:35:ILE:HD12	2.01	0.42
23:11:18:ILE:HG12	23:11:37:ILE:HG12	2.01	0.42
28:16:39:TYR:HB2	28:16:46:HIS:CE1	2.54	0.42
32:1a:225:C:H2'	32:1a:226:G:H8	1.84	0.42
32:1a:256:U:H2'	32:1a:257:G:O4'	2.19	0.42
32:1a:676:A:H2'	32:1a:677:U:C6	2.54	0.42
32:1a:1106:G:H2'	32:1a:1107:C:H6	1.83	0.42
33:1b:98:LEU:O	33:1b:101:MET:HG3	2.19	0.42
38:1g:46:ALA:O	38:1g:50:ILE:N	2.47	0.42
39:1h:16:ALA:HB1	39:1h:21:LYS:HB2	2.01	0.42
49:1r:50:ILE:HG13	49:1r:74:ARG:HH22	1.84	0.42
54:1y:2:G:N1	54:1y:71:C:O2	2.48	0.42
1:2A:966:G:H2'	1:2A:967:C:C6	2.55	0.42
1:2A:1265:A:OP1	60:2A:6163:HOH:O	2.22	0.42
1:2A:1311:G:N2	1:2A:1312:U:O4	2.43	0.42
1:2A:2452:C:H5''	60:2A:5443:HOH:O	2.19	0.42
2:2B:11:C:H3'	2:2B:12:C:C6	2.54	0.42
2:2B:48:A:OP2	14:2S:30:ARG:NH2	2.52	0.42
2:2B:87:G:N2	2:2B:90:A:OP2	2.51	0.42
14:2S:3:ARG:HD2	14:2S:3:ARG:HA	1.81	0.42
32:2a:135:C:O2	47:2p:1:MET:HB3	2.18	0.42
32:2a:582:U:H5''	46:2o:64:ARG:HH12	1.84	0.42
35:2d:20:TYR:HD1	35:2d:26:CYS:HB3	1.84	0.42
37:2f:81:ILE:HD12	37:2f:81:ILE:HA	1.89	0.42
40:2i:81:ILE:O	40:2i:85:LEU:HG	2.19	0.42
54:2y:28:C:H2'	54:2y:29:U:O4'	2.19	0.42
1:1A:1051:G:H2'	1:1A:1052:C:O4'	2.19	0.42
1:1A:1653:G:C6	13:1R:9:LYS:HB2	2.55	0.42
1:1A:2202:C:O2	3:1D:151:LYS:NZ	2.46	0.42
1:1A:2285:C:H2'	1:1A:2286:A:H5''	2.01	0.42
1:1A:2633:G:H2'	1:1A:2634:G:O4'	2.19	0.42
5:1F:65:TRP:HZ2	5:1F:75:HIS:HD2	1.67	0.42
8:1I:12:LEU:HD23	8:1I:12:LEU:HA	1.76	0.42
32:1a:380:G:N2	32:1a:382:A:H3'	2.34	0.42
32:1a:401:C:H2'	32:1a:402:G:H8	1.85	0.42
32:1a:741:G:H2'	32:1a:742:G:C8	2.55	0.42
32:1a:1128:C:N3	32:1a:1144:G:N2	2.60	0.42
32:1a:1327:C:H2'	32:1a:1328:C:H6	1.84	0.42
33:1b:97:TRP:CH2	33:1b:173:ALA:HA	2.54	0.42
33:1b:166:ASP:HB3	33:1b:169:LYS:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:1k:19:ALA:HB3	42:1k:82:VAL:HA	2.00	0.42
47:1p:74:LEU:HG	47:1p:79:VAL:HG21	2.01	0.42
54:1y:19:G:C2	54:1y:56:C:N3	2.86	0.42
1:2A:329:G:H8	1:2A:329:G:OP1	2.02	0.42
1:2A:900:A:HO2'	1:2A:901:A:P	2.40	0.42
1:2A:922:U:H2'	1:2A:923:C:C6	2.54	0.42
1:2A:1528(A):A:H2'	1:2A:1529:G:O4'	2.20	0.42
1:2A:1651:G:H2'	1:2A:1652:A:O4'	2.19	0.42
3:2D:19:ALA:HB2	3:2D:204:ILE:HD11	2.00	0.42
7:2H:149:ARG:NH2	7:2H:154:PRO:HG2	2.34	0.42
11:2P:70:GLN:O	11:2P:73:GLY:N	2.44	0.42
25:23:7:LYS:HE2	25:23:34:GLU:CD	2.44	0.42
32:2a:976:G:C8	32:2a:1358:U:C2	3.08	0.42
32:2a:1106:G:H2'	32:2a:1107:C:C6	2.55	0.42
32:2a:1124:G:N7	32:2a:1145:C:O2'	2.52	0.42
32:2a:1395:C:H5'	32:2a:1402:4OC:O2'	2.19	0.42
1:1A:62:C:O2	1:1A:93:G:N2	2.40	0.42
1:1A:760:G:H2'	1:1A:761:A:O4'	2.20	0.42
1:1A:1651:G:H4'	13:1R:39:PRO:HG2	2.02	0.42
1:1A:1721:G:H8	1:1A:1721:G:O5'	2.03	0.42
1:1A:1992:G:H8	1:1A:1992:G:H2'	1.73	0.42
1:1A:2206:G:OP2	1:1A:2206:G:H4'	2.20	0.42
1:1A:2647:U:H2'	1:1A:2648:C:C6	2.54	0.42
1:1A:2719:G:N2	1:1A:2872:G:H1	2.17	0.42
2:1B:11:C:P	22:10:72:ARG:HH21	2.43	0.42
3:1D:218:ARG:HB3	3:1D:219:PRO:HD2	1.99	0.42
6:1G:43:LEU:HB3	6:1G:44:GLY:H	1.51	0.42
20:1Y:35:TYR:CE2	20:1Y:69:ALA:HB3	2.54	0.42
28:16:47:THR:O	28:16:49:HIS:ND1	2.47	0.42
32:1a:452:A:H4'	47:1p:72:ARG:CZ	2.49	0.42
32:1a:491:G:H2'	32:1a:492:G:O4'	2.20	0.42
32:1a:576:G:O6	32:1a:880:C:O2'	2.25	0.42
32:1a:1168:A:C6	32:1a:1169:A:C6	3.07	0.42
32:1a:1176:A:H2'	32:1a:1177:G:C8	2.54	0.42
32:1a:1203:C:H2'	32:1a:1204:A:H8	1.85	0.42
39:1h:41:ARG:NH2	39:1h:123:GLU:OE2	2.53	0.42
45:1n:27:CYS:SG	45:1n:29:ARG:HG3	2.60	0.42
47:1p:6:LEU:HB3	47:1p:17:TYR:CD1	2.54	0.42
54:1y:63:G:C6	54:1y:64:U:O2	2.72	0.42
54:1y:68:C:H2'	54:1y:69:A:C8	2.54	0.42
1:2A:271(U):G:H2'	1:2A:271(V):G:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:478:A:N6	1:2A:480:A:N1	2.68	0.42
1:2A:817:C:H2'	1:2A:818:G:O4'	2.19	0.42
1:2A:1366:A:OP1	23:21:3:LYS:NZ	2.51	0.42
1:2A:1400:G:H2'	1:2A:1401:G:C8	2.54	0.42
2:2B:90:A:C5	2:2B:91:C:H1'	2.55	0.42
5:2F:176:LEU:HD23	5:2F:176:LEU:HA	1.84	0.42
6:2G:47:LYS:H	6:2G:47:LYS:HG2	1.68	0.42
8:2I:54:GLN:HA	8:2I:57:ARG:NH2	2.34	0.42
21:2Z:48:PHE:CE1	21:2Z:52:SER:HA	2.55	0.42
26:24:40:HIS:O	26:24:44:THR:HG22	2.19	0.42
28:26:43:CYS:HB3	28:26:45:LYS:HG2	2.01	0.42
32:2a:399:G:H2'	32:2a:400:C:C6	2.54	0.42
32:2a:741:G:H4'	46:2o:55:GLY:HA3	2.02	0.42
32:2a:755:G:H2'	32:2a:756:C:C6	2.54	0.42
32:2a:926:G:H22	53:2v:15:A:H5''	1.84	0.42
32:2a:961:U:OP2	32:2a:1223:C:O2'	2.21	0.42
32:2a:1002:G:H2'	32:2a:1003:G:O4'	2.20	0.42
32:2a:1123:A:C2	41:2j:39:PRO:HD2	2.53	0.42
32:2a:1228:C:H5'	44:2m:108:ARG:NH2	2.31	0.42
32:2a:1236:A:O2'	32:2a:1304:G:H4'	2.19	0.42
33:2b:50:GLU:HB3	33:2b:200:ILE:O	2.19	0.42
46:2o:55:GLY:HA2	46:2o:58:MET:HE2	2.01	0.42
47:2p:52:ASP:OD2	47:2p:55:ARG:HG2	2.19	0.42
48:2q:63:ARG:O	48:2q:65:ILE:HD12	2.20	0.42
48:2q:70:ARG:C	48:2q:71:PHE:HD1	2.27	0.42
55:2x:36:U:H2'	55:2x:37:A:C8	2.53	0.42
54:2y:8:4SU:HN3	54:2y:14:A:H62	1.66	0.42
1:1A:620:G:OP2	1:1A:620:G:N2	2.37	0.42
1:1A:2406:U:H2'	1:1A:2406:U:H6	1.67	0.42
1:1A:2408:U:H2'	1:1A:2409:G:C8	2.55	0.42
5:1F:158:THR:OG1	5:1F:195:ASP:OD2	2.30	0.42
6:1G:148:MET:HE2	6:1G:148:MET:HB3	1.85	0.42
32:1a:71:C:H2'	32:1a:72:C:O4'	2.19	0.42
32:1a:392:G:H2'	32:1a:393:A:C8	2.54	0.42
32:1a:1004:A:H5'	32:1a:1024:G:N2	2.35	0.42
42:1k:18:ARG:HD2	42:1k:34:ASP:O	2.20	0.42
1:2A:240:G:H3'	1:2A:241:A:H2'	2.01	0.42
1:2A:500:G:N2	1:2A:502:A:H3'	2.35	0.42
1:2A:1202:C:N4	1:2A:1243:G:H1	2.18	0.42
1:2A:1448:G:H4'	1:2A:1542:A:OP1	2.19	0.42
1:2A:2022:U:O2'	1:2A:2617:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2273:A:H2'	1:2A:2274:A:H8	1.85	0.42
1:2A:2611:U:C4	27:25:3:LYS:HG2	2.54	0.42
1:2A:2837:G:N7	60:2A:4783:HOH:O	2.50	0.42
5:2F:150:GLY:HA2	5:2F:172:TRP:CE3	2.54	0.42
6:2G:8:LYS:HE2	6:2G:8:LYS:HB3	1.91	0.42
6:2G:125:PHE:HB3	6:2G:166:ASP:CG	2.44	0.42
8:2I:79:ILE:O	8:2I:144:VAL:HA	2.19	0.42
21:2Z:166:SER:O	21:2Z:169:GLU:HB2	2.19	0.42
32:2a:302:G:N3	32:2a:556:C:H4'	2.34	0.42
32:2a:373:A:N1	32:2a:391:G:O2'	2.48	0.42
32:2a:434:U:H2'	32:2a:435:C:C6	2.54	0.42
32:2a:946:A:H2'	32:2a:947:G:C8	2.54	0.42
32:2a:1202:G:H21	45:2n:27:CYS:HB3	1.85	0.42
32:2a:1417:G:C6	32:2a:1482:G:C6	3.07	0.42
32:2a:1518:MA6:H93	32:2a:1519:MA6:H92	2.00	0.42
1:1A:269:U:H1'	1:1A:424:G:N2	2.35	0.42
1:1A:705:A:C2	1:1A:727:A:H1'	2.55	0.42
1:1A:1438:U:O2	1:1A:1555:G:N2	2.52	0.42
1:1A:1810:A:H2'	1:1A:1811:G:O4'	2.20	0.42
1:1A:2262:U:H5	22:10:16:SER:HB3	1.84	0.42
1:1A:2437:U:H2'	1:1A:2438:U:C6	2.55	0.42
1:1A:2483:C:O2	12:1Q:124:LYS:HE3	2.19	0.42
1:1A:2679:A:H4'	4:1E:165:VAL:HG11	2.01	0.42
7:1H:13:LYS:HA	7:1H:14:GLY:HA2	1.66	0.42
20:1Y:9:LYS:HA	20:1Y:10:GLY:HA2	1.69	0.42
21:1Z:9:TYR:OH	21:1Z:61:LEU:HD23	2.19	0.42
26:14:63:TYR:N	26:14:63:TYR:CD1	2.88	0.42
30:18:26:LYS:HD3	30:18:48:PHE:HB3	2.02	0.42
32:1a:392:G:H2'	32:1a:393:A:H8	1.84	0.42
32:1a:701:C:O2	32:1a:703:G:N1	2.52	0.42
32:1a:1148:U:H5''	40:1i:7:THR:HG21	2.01	0.42
32:1a:1168:A:H2'	32:1a:1169:A:C8	2.55	0.42
34:1c:63:ASN:OD1	34:1c:63:ASN:N	2.53	0.42
46:1o:60:VAL:O	46:1o:64:ARG:HB2	2.18	0.42
1:2A:455:C:N3	1:2A:472:A:H2'	2.34	0.42
1:2A:1310:G:OP2	29:27:9:ARG:NE	2.30	0.42
4:2E:52:LEU:HB2	4:2E:76:ARG:HB2	2.01	0.42
6:2G:148:MET:HE2	6:2G:148:MET:HB3	1.94	0.42
6:2G:179:PRO:HG3	26:24:43:TYR:OH	2.19	0.42
10:2O:2:ILE:HB	10:2O:33:ALA:HB3	2.02	0.42
11:2P:8:PRO:HB2	11:2P:12:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2X:61:GLY:N	19:2X:75:ASP:OD1	2.49	0.42
20:2Y:14:LEU:HD22	20:2Y:82:PRO:HG3	2.01	0.42
23:21:56:GLN:HG3	23:21:90:ILE:HD12	2.02	0.42
32:2a:176:C:OP1	51:2t:29:LYS:NZ	2.30	0.42
32:2a:189(K):U:H2'	32:2a:189(L):G:H8	1.85	0.42
32:2a:1005:A:H62	32:2a:1023:G:N2	2.17	0.42
32:2a:1098:C:H2'	32:2a:1099:G:O4'	2.19	0.42
32:2a:1176:A:H2'	32:2a:1177:G:C8	2.54	0.42
33:2b:97:TRP:HZ3	33:2b:172:ILE:HG22	1.84	0.42
34:2c:180:ALA:HB1	34:2c:203:PHE:CE1	2.50	0.42
39:2h:109:ILE:HG12	39:2h:137:VAL:HG23	2.02	0.42
42:2k:34:ASP:HB3	42:2k:40:ILE:HD11	2.02	0.42
1:1A:27:G:C2	1:1A:512:G:N3	2.88	0.42
1:1A:414:C:H4'	1:1A:1879:C:O2	2.18	0.42
1:1A:700:G:O2'	1:1A:1632:A:N3	2.49	0.42
1:1A:700:G:H2'	1:1A:701:G:O4'	2.20	0.42
1:1A:1223:G:N2	1:1A:1226:A:OP2	2.35	0.42
1:1A:2065:C:H2'	1:1A:2066:C:C6	2.55	0.42
2:1B:91:C:H5'	12:1Q:18:LYS:HA	2.01	0.42
12:1Q:68:ILE:HD13	12:1Q:103:MET:HE3	2.01	0.42
15:1T:93:ARG:NH2	15:1T:95:ARG:HH21	2.18	0.42
18:1W:68:ARG:HH11	18:1W:111:HIS:HA	1.85	0.42
20:1Y:82:PRO:O	20:1Y:101:LYS:HE2	2.19	0.42
25:13:3:ARG:HD3	25:13:60:GLU:OE2	2.20	0.42
32:1a:255:G:H2'	32:1a:256:U:C6	2.54	0.42
32:1a:454:C:H3'	32:1a:455:C:C6	2.55	0.42
32:1a:1086:U:H3	32:1a:1099:G:N2	2.13	0.42
33:1b:174:VAL:HG13	33:1b:184:VAL:HG11	2.00	0.42
35:1d:79:PHE:HE1	35:1d:204:ILE:HD13	1.84	0.42
43:1l:54:LYS:HD2	43:1l:54:LYS:N	2.35	0.42
44:1m:25:ILE:HD11	44:1m:60:VAL:HG11	2.01	0.42
1:2A:315:G:H2'	1:2A:316:C:C6	2.55	0.42
1:2A:845:G:OP2	1:2A:845:G:N2	2.30	0.42
1:2A:1791:A:H3'	1:2A:1792:G:C8	2.53	0.42
1:2A:2552:2MU:H2'	1:2A:2554:U:H5''	2.02	0.42
1:2A:2745:C:O2'	7:2H:143:GLN:N	2.53	0.42
4:2E:5:LEU:HD21	4:2E:79:ARG:HB2	2.02	0.42
5:2F:57:VAL:HG13	5:2F:59:TYR:H	1.83	0.42
6:2G:38:VAL:HG22	6:2G:93:THR:HG23	2.01	0.42
9:2N:99:LEU:O	9:2N:103:VAL:HG23	2.20	0.42
32:2a:376:G:O3'	47:2p:5:ARG:NH1	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:745:C:H2'	32:2a:746:A:C8	2.55	0.42
32:2a:935:A:N1	32:2a:1380:U:O4	2.53	0.42
32:2a:1095:U:H2'	32:2a:1096:C:O4'	2.19	0.42
33:2b:24:TRP:CE2	33:2b:26:PRO:HG3	2.55	0.42
38:2g:100:ALA:O	38:2g:104:LEU:HD13	2.19	0.42
38:2g:144:MET:HE1	54:2y:31:C:H1'	2.01	0.42
47:2p:51:VAL:HG12	47:2p:53:VAL:N	2.32	0.42
1:1A:324:A:H2'	1:1A:325:G:O4'	2.20	0.42
1:1A:443:A:H5''	1:1A:444:C:OP1	2.19	0.42
1:1A:840:C:H2'	1:1A:841:A:C8	2.55	0.42
1:1A:887:A:H1'	1:1A:889:C:OP2	2.20	0.42
1:1A:1297:C:O2'	1:1A:1302:A:N1	2.40	0.42
1:1A:1999:C:H5''	1:1A:2723:C:O2'	2.19	0.42
1:1A:2819:G:N7	60:1A:6720:HOH:O	2.37	0.42
1:1A:2848:G:H1'	1:1A:2867:G:N2	2.34	0.42
14:1S:39:ILE:HD11	14:1S:110:LEU:HD21	2.02	0.42
15:1T:29:ARG:HG3	15:1T:46:GLU:HB2	2.02	0.42
20:1Y:20:TYR:CE2	20:1Y:43:ASN:HA	2.54	0.42
32:1a:1202:G:H2'	32:1a:1203:C:O4'	2.20	0.42
32:1a:1333:A:H3'	32:1a:1334:G:H8	1.84	0.42
32:1a:1352:C:OP1	52:1u:3:LYS:NZ	2.38	0.42
38:1g:45:ASP:O	38:1g:49:ILE:HG13	2.20	0.42
51:1t:47:GLY:N	51:1t:48:LYS:HB2	2.35	0.42
52:1u:22:ARG:O	52:1u:22:ARG:HG3	2.19	0.42
1:2A:64:A:O3'	19:2X:71:GLY:HA3	2.20	0.42
1:2A:676:A:H1'	1:2A:2443:C:H1'	2.01	0.42
1:2A:977:G:C6	1:2A:987:G:C6	3.08	0.42
1:2A:1206:G:H8	1:2A:1206:G:O5'	2.02	0.42
1:2A:1316:U:H2'	1:2A:1317:A:C8	2.55	0.42
1:2A:2494:G:C4	1:2A:2495:G:C8	3.08	0.42
4:2E:103:ASP:OD2	4:2E:168:MET:HE2	2.19	0.42
5:2F:184:TYR:CE2	5:2F:188:ARG:HD2	2.54	0.42
7:2H:12:PRO:HD2	7:2H:15:VAL:HG11	2.01	0.42
11:2P:59:LEU:HD11	30:28:10:ALA:HA	2.02	0.42
12:2Q:37:LEU:HD21	12:2Q:130:LYS:HG2	2.01	0.42
12:2Q:57:HIS:NE2	12:2Q:116:GLU:HB3	2.35	0.42
15:2T:22:PHE:CE1	15:2T:49:VAL:HG11	2.55	0.42
30:28:30:ARG:O	60:28:105:HOH:O	2.22	0.42
32:2a:583:A:H2'	32:2a:584:G:O4'	2.20	0.42
32:2a:583:A:N6	32:2a:758:G:O2'	2.53	0.42
32:2a:1397:C:OP2	53:2v:23:U:O2'	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2b:185:ILE:HB	33:2b:199:TYR:HB2	2.01	0.42
37:2f:25:ILE:H	37:2f:25:ILE:HG13	1.67	0.42
42:2k:21:ILE:HD12	42:2k:84:VAL:HG22	2.01	0.42
43:2l:89:ARG:NH2	43:2l:91:LYS:HA	2.34	0.42
50:2s:22:LEU:HD22	50:2s:27:GLU:HA	2.01	0.42
50:2s:61:TYR:CE2	50:2s:63:THR:HG22	2.54	0.42
52:2u:7:ARG:HG2	52:2u:21:TYR:CE2	2.55	0.42
1:1A:35:G:H2'	1:1A:36:G:O4'	2.20	0.42
1:1A:922:U:H2'	1:1A:923:C:C6	2.55	0.42
1:1A:1031:G:N2	31:19:36:GLN:HE22	2.16	0.42
1:1A:1144:G:C6	1:1A:1145:C:C4	3.08	0.42
1:1A:1394:U:H4'	1:1A:1603:A:H4'	2.02	0.42
1:1A:1798:U:H5'	3:1D:259:THR:CG2	2.50	0.42
1:1A:1816:G:O6	3:1D:35:LYS:NZ	2.46	0.42
1:1A:2134:A:OP2	1:1A:2157:G:N2	2.48	0.42
4:1E:182:LEU:HD21	4:1E:198:VAL:HG11	2.02	0.42
7:1H:26:VAL:O	7:1H:79:VAL:HG11	2.20	0.42
9:1N:42:TRP:HA	9:1N:48:MET:SD	2.60	0.42
10:1O:79:PHE:CD1	15:1T:72:VAL:HG22	2.54	0.42
13:1R:111:LEU:HD12	13:1R:111:LEU:HA	1.91	0.42
14:1S:35:ILE:H	14:1S:53:SER:HG	1.65	0.42
19:1X:29:TRP:CE3	19:1X:78:LYS:HB3	2.55	0.42
26:14:62:ARG:HD3	26:14:62:ARG:HA	1.88	0.42
32:1a:123:C:OP1	32:1a:311:C:O2'	2.38	0.42
32:1a:521:G:O5'	43:1l:73:GLU:HG2	2.20	0.42
32:1a:684:A:N6	60:1a:3680:HOH:O	2.52	0.42
32:1a:779:C:H5''	42:1k:122:LYS:HG3	2.01	0.42
37:1f:97:PHE:HB3	49:1r:32:ARG:HG3	2.01	0.42
38:1g:65:ALA:O	38:1g:69:VAL:HG23	2.20	0.42
40:1i:116:LYS:HB3	40:1i:121:ARG:O	2.20	0.42
55:1x:33:U:N3	55:1x:36:U:OP2	2.50	0.42
1:2A:700:G:H2'	1:2A:701:G:O4'	2.19	0.42
1:2A:992:C:OP1	16:2U:47:TYR:OH	2.26	0.42
1:2A:1183:G:H2'	1:2A:1184:G:H8	1.85	0.42
1:2A:1231:G:H2'	1:2A:1232:G:H8	1.82	0.42
1:2A:1451:C:H42	1:2A:1459:G:H1	1.67	0.42
1:2A:2014:A:N1	60:2A:3935:HOH:O	2.36	0.42
4:2E:52:LEU:HA	4:2E:53:PRO:HD3	1.95	0.42
4:2E:119:ARG:HG2	4:2E:120:TRP:CD1	2.55	0.42
7:2H:97:ARG:O	7:2H:103:LEU:HD12	2.20	0.42
13:2R:96:ARG:NE	27:25:55:ARG:HH22	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2Y:20:TYR:CE2	20:2Y:43:ASN:HA	2.55	0.42
31:29:11:CYS:N	31:29:14:CYS:SG	2.90	0.42
32:2a:6:G:H4'	32:2a:298:A:H4'	2.02	0.42
32:2a:193:C:H2'	32:2a:194:C:C6	2.55	0.42
32:2a:750:G:N2	46:2o:28:GLN:HE21	2.16	0.42
32:2a:1052:U:O2'	32:2a:1055:A:OP2	2.23	0.42
35:2d:155:LEU:HA	35:2d:155:LEU:HD23	1.85	0.42
47:2p:71:ARG:O	47:2p:75:ARG:N	2.40	0.42
1:1A:11:G:H2'	1:1A:12:U:O4'	2.20	0.42
1:1A:253:C:H2'	1:1A:254:G:O4'	2.19	0.42
1:1A:784:A:N6	3:1D:229:VAL:HG11	2.35	0.42
1:1A:1286:A:C6	1:1A:1329:U:C2	3.08	0.42
1:1A:2767:C:H2'	1:1A:2768:C:H6	1.85	0.42
5:1F:203:GLN:H	5:1F:203:GLN:HG2	1.61	0.42
8:1I:75:LEU:HD13	8:1I:105:HIS:CE1	2.55	0.42
24:12:35:LEU:HB3	24:12:50:ILE:HD13	2.02	0.42
32:1a:62:U:O2'	32:1a:379:C:H1'	2.20	0.42
32:1a:1302:U:OP2	44:1m:21:TYR:OH	2.14	0.42
33:1b:166:ASP:O	33:1b:170:GLU:N	2.48	0.42
38:1g:78:ARG:HD2	38:1g:156:TRP:CE3	2.55	0.42
41:1j:5:ARG:NH1	41:1j:73:ASP:OD2	2.53	0.42
44:1m:108:ARG:HD3	44:1m:108:ARG:HA	1.77	0.42
48:1q:17:LYS:HB3	48:1q:45:HIS:CE1	2.55	0.42
54:1y:19:G:N1	54:1y:56:C:C4	2.88	0.42
1:2A:83:G:H1	1:2A:102:G:HO2'	1.65	0.42
1:2A:569:U:O4'	1:2A:946:G:O2'	2.30	0.42
1:2A:599:G:H4'	5:2F:31:HIS:HD2	1.85	0.42
1:2A:833:U:O3'	30:28:57:ARG:NH1	2.53	0.42
1:2A:1287:A:C5	1:2A:1288:U:C4	3.08	0.42
1:2A:1364:G:H4'	1:2A:1808:U:H3	1.85	0.42
1:2A:1516:C:H2'	1:2A:1517:G:C8	2.55	0.42
1:2A:1689:A:H62	1:2A:1698:A:H2	1.67	0.42
1:2A:1916:A:H2'	1:2A:1917:PSU:O4'	2.19	0.42
1:2A:2406:U:C4	11:2P:72:PRO:HD2	2.55	0.42
1:2A:2563:U:H1'	1:2A:2566:A:N6	2.35	0.42
1:2A:2712(A):A:H5''	1:2A:2713:A:OP2	2.19	0.42
1:2A:2851:A:O2'	13:2R:64:ARG:NH2	2.53	0.42
6:2G:170:ARG:NH2	6:2G:182:LYS:O	2.52	0.42
7:2H:103:LEU:HD21	7:2H:105:LEU:HD21	2.02	0.42
7:2H:126:PRO:HG2	7:2H:130:ARG:NH1	2.35	0.42
17:2V:38:LEU:HD23	17:2V:50:PRO:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2Z:96:VAL:HG12	21:2Z:128:VAL:O	2.20	0.42
24:22:12:GLU:O	24:22:16:LEU:HG	2.20	0.42
30:28:29:LYS:HB2	30:28:29:LYS:HE3	1.87	0.42
32:2a:253:U:H2'	32:2a:254:G:C8	2.54	0.42
32:2a:405:U:H5''	32:2a:495:A:C2	2.54	0.42
32:2a:524:G:H2'	32:2a:525:C:C6	2.55	0.42
32:2a:858:G:H8	32:2a:858:G:OP2	2.03	0.42
32:2a:952:U:O2'	32:2a:965:A:N6	2.53	0.42
32:2a:1353:G:C2	32:2a:1370:G:C2	3.08	0.42
32:2a:1390:U:H2'	32:2a:1391:U:C6	2.55	0.42
36:2e:68:GLU:HG3	36:2e:70:PRO:HD3	2.02	0.42
36:2e:93:PRO:HG2	39:2h:105:ARG:CZ	2.50	0.42
55:2x:5:G:C2	55:2x:69:C:C2	3.07	0.42
1:1A:994:C:C5	16:1U:54:LYS:HE3	2.55	0.41
1:1A:1059:G:H2'	1:1A:1060:U:C5	2.54	0.41
1:1A:1062:G:P	1:1A:1070:A:HO2'	2.43	0.41
1:1A:1827:C:O2'	1:1A:1970:A:N3	2.46	0.41
1:1A:2147:G:H3'	1:1A:2147:G:N3	2.35	0.41
1:1A:2157:G:H4'	1:1A:2158:A:OP1	2.20	0.41
1:1A:2585:U:O4	54:1w:76:A:O2'	2.38	0.41
1:1A:2756:U:OP2	31:19:19:ARG:HD3	2.19	0.41
2:1B:31:C:H4'	6:1G:29:TRP:CH2	2.54	0.41
2:1B:86:G:H1	2:1B:91:C:N4	2.17	0.41
11:1P:93:GLY:H	11:1P:123:LEU:HD22	1.85	0.41
15:1T:127:ALA:C	15:1T:129:ARG:N	2.71	0.41
21:1Z:18:LEU:HD12	21:1Z:18:LEU:HA	1.88	0.41
21:1Z:75:ASN:O	21:1Z:84:GLU:N	2.38	0.41
22:10:27:GLU:HG3	22:10:68:GLU:HA	2.01	0.41
27:15:42:PRO:HB2	27:15:43:HIS:ND1	2.34	0.41
32:1a:327:A:H1'	32:1a:329:A:O4'	2.20	0.41
32:1a:405:U:O2'	32:1a:498:U:H5'	2.20	0.41
32:1a:741:G:H2'	32:1a:742:G:O4'	2.20	0.41
32:1a:980:C:H1'	45:1n:19:ARG:HA	2.02	0.41
32:1a:1240:U:H3	38:1g:30:ILE:HG22	1.85	0.41
32:1a:1261:A:H3'	32:1a:1262:C:H6	1.83	0.41
32:1a:1524:C:H2'	32:1a:1525:G:C8	2.55	0.41
33:1b:185:ILE:HG22	33:1b:199:TYR:HB2	2.02	0.41
35:1d:118:ARG:HG3	35:1d:136:PRO:HB3	2.02	0.41
35:1d:148:VAL:HG11	35:1d:158:ILE:HD13	2.02	0.41
36:1e:28:PHE:CD1	36:1e:51:VAL:HG22	2.55	0.41
38:1g:16:LEU:HD22	40:1i:42:ARG:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:1w:2:G:N1	54:1w:71:C:O2	2.31	0.41
55:1x:59:A:C2'	55:1x:60:U:H5'	2.50	0.41
1:2A:2875:C:H2'	1:2A:2876:G:O4'	2.19	0.41
3:2D:70:TRP:HB3	3:2D:190:TYR:CE2	2.54	0.41
3:2D:258:LYS:HE2	3:2D:273:ARG:CZ	2.50	0.41
7:2H:13:LYS:HA	7:2H:14:GLY:HA2	1.77	0.41
8:2I:133:HIS:ND1	8:2I:134:PRO:O	2.52	0.41
10:2O:48:PRO:CB	32:2a:1422:G:H5''	2.48	0.41
11:2P:97:PRO:HD3	11:2P:126:VAL:O	2.20	0.41
18:2W:57:ASN:HA	18:2W:61:ASN:HD22	1.85	0.41
21:2Z:45:ASP:O	21:2Z:49:ARG:HG3	2.19	0.41
23:21:8:SER:HB3	23:21:66:HIS:CD2	2.55	0.41
32:2a:22:G:H2'	32:2a:23:C:C6	2.55	0.41
32:2a:671:G:H2'	32:2a:672:U:O4'	2.20	0.41
32:2a:741:G:H2'	32:2a:742:G:O4'	2.19	0.41
32:2a:921:U:H2'	32:2a:922:G:O4'	2.20	0.41
32:2a:996:A:H3'	32:2a:997:U:H5''	2.01	0.41
32:2a:1007:C:N3	32:2a:1022:G:C6	2.88	0.41
32:2a:1286:A:H2	52:2u:18:TYR:OH	2.03	0.41
34:2c:57:ILE:HD13	34:2c:66:VAL:HA	2.00	0.41
43:2l:53:ARG:HG3	43:2l:93:LEU:HD21	2.02	0.41
45:2n:3:ARG:O	45:2n:7:ILE:HG22	2.20	0.41
49:2r:61:LYS:O	49:2r:65:ILE:HG12	2.20	0.41
1:1A:590:A:H2'	1:1A:591:C:O4'	2.20	0.41
1:1A:1047:G:H2'	1:1A:1110:G:H22	1.85	0.41
1:1A:1168:G:H2'	1:1A:1169:G:H8	1.85	0.41
1:1A:1504:C:H2'	1:1A:1505:C:C6	2.55	0.41
1:1A:2202:C:H2'	1:1A:2203:U:O4'	2.20	0.41
2:1B:16:G:C6	2:1B:69:G:C2	3.08	0.41
3:1D:142:VAL:CG1	3:1D:191:ALA:HB1	2.51	0.41
3:1D:183:ARG:HG3	3:1D:270:ILE:HG12	2.01	0.41
10:1O:70:LYS:HE2	10:1O:70:LYS:HB3	1.76	0.41
32:1a:67:C:H2'	32:1a:68:G:H8	1.84	0.41
32:1a:976:G:O4'	32:1a:1363(A):A:N6	2.53	0.41
32:1a:1049:U:H4'	32:1a:1050:G:H5''	2.02	0.41
32:1a:1250:A:H61	32:1a:1354:C:H1'	1.85	0.41
37:1f:89:MET:SD	49:1r:76:LEU:HD11	2.60	0.41
38:1g:89:MET:SD	38:1g:155:ARG:HB2	2.61	0.41
41:1j:16:LEU:HD22	41:1j:68:HIS:HB2	2.02	0.41
44:1m:117:VAL:HG22	44:1m:118:ALA:H	1.86	0.41
1:2A:262:A:H2'	1:2A:263:C:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:300:A:P	20:2Y:86:ARG:HH21	2.43	0.41
1:2A:720:C:H2'	1:2A:721:C:C6	2.55	0.41
1:2A:740:U:H2'	1:2A:741:G:C8	2.55	0.41
1:2A:918:A:C2	2:2B:81:G:H5'	2.54	0.41
2:2B:26:A:H2'	2:2B:27:C:H6	1.85	0.41
6:2G:5:VAL:HG22	6:2G:8:LYS:HB2	2.01	0.41
6:2G:120:LEU:HD12	6:2G:178:PHE:HB3	2.02	0.41
32:2a:357:G:OP1	32:2a:367:U:H5''	2.20	0.41
32:2a:734:G:O2'	49:2r:71:LYS:HD3	2.20	0.41
32:2a:939:G:N2	32:2a:1344:C:N3	2.68	0.41
32:2a:993:G:N3	32:2a:993:G:H2'	2.35	0.41
32:2a:1165:C:H2'	32:2a:1166:G:O4'	2.19	0.41
37:2f:70:ASP:OD1	37:2f:71:ARG:N	2.53	0.41
37:2f:82:ARG:HB2	37:2f:85:VAL:HG23	2.02	0.41
1:1A:129:C:H2'	1:1A:130:C:C6	2.55	0.41
1:1A:185:U:H4'	1:1A:218:A:H4'	2.02	0.41
1:1A:813:U:H2'	1:1A:814:C:C6	2.55	0.41
1:1A:1448:G:H5''	1:1A:1542:A:OP1	2.20	0.41
1:1A:2312:U:H5'	6:1G:88:ILE:HD11	2.01	0.41
2:1B:38:C:O2'	14:1S:93:LYS:NZ	2.49	0.41
3:1D:134:ARG:HG3	3:1D:135:PHE:CD2	2.55	0.41
4:1E:117:MET:HE2	4:1E:117:MET:HB3	1.93	0.41
11:1P:137:LYS:HB2	11:1P:137:LYS:HE3	1.85	0.41
20:1Y:90:LEU:O	20:1Y:93:GLY:N	2.47	0.41
32:1a:166:G:H2'	32:1a:167:G:H8	1.84	0.41
32:1a:283:C:H2'	32:1a:284:G:O4'	2.19	0.41
32:1a:568:G:O2'	32:1a:574:A:N1	2.43	0.41
32:1a:583:A:H2'	32:1a:584:G:O4'	2.21	0.41
32:1a:1090:U:H2'	32:1a:1091:U:C6	2.55	0.41
32:1a:1154:G:H2'	32:1a:1155:G:C8	2.55	0.41
32:1a:1332:A:H2'	32:1a:1333:A:C8	2.56	0.41
37:1f:23:LYS:HA	37:1f:26:ILE:HD12	2.01	0.41
38:1g:25:ALA:O	38:1g:29:LYS:HG2	2.20	0.41
44:1m:4:ILE:HG23	44:1m:22:ILE:HD11	2.03	0.41
47:1p:1:MET:N	47:1p:1:MET:HE2	2.35	0.41
50:1s:80:TYR:C	50:1s:82:GLY:H	2.28	0.41
52:1u:12:LYS:HB3	52:1u:22:ARG:HG2	2.02	0.41
54:1y:63:G:H2'	54:1y:64:U:O4'	2.19	0.41
1:2A:628:G:H5''	30:28:18:ALA:HB2	2.02	0.41
1:2A:1028:A:H2'	1:2A:1029:A:C8	2.55	0.41
1:2A:1167:U:O2	1:2A:1183:G:N2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1406:U:H2'	1:2A:1407:C:C6	2.55	0.41
1:2A:1792:G:O2'	1:2A:1830:C:OP1	2.35	0.41
1:2A:2164:C:H5''	1:2A:2165:G:OP2	2.19	0.41
1:2A:2432:A:C6	1:2A:2433:A:C6	3.08	0.41
5:2F:180:GLY:O	5:2F:182:ASN:ND2	2.51	0.41
17:2V:29:PRO:HA	17:2V:61:VAL:HG13	2.01	0.41
26:24:14:ILE:HB	26:24:22:ILE:HB	2.02	0.41
32:2a:12:U:H3	32:2a:22:G:H1	1.66	0.41
32:2a:800:G:H8	32:2a:800:G:O5'	2.03	0.41
32:2a:1315:U:O2'	32:2a:1360:A:N3	2.41	0.41
32:2a:1376:U:OP1	38:2g:98:SER:HB3	2.20	0.41
35:2d:158:ILE:HG22	35:2d:162:LEU:HD12	2.02	0.41
35:2d:204:ILE:H	35:2d:204:ILE:HG12	1.72	0.41
38:2g:2:ALA:HB1	38:2g:5:ARG:O	2.20	0.41
38:2g:111:ARG:HB2	38:2g:119:ARG:HD2	2.03	0.41
40:2i:50:LEU:HD13	40:2i:56:LEU:HA	2.03	0.41
46:2o:61:GLY:O	46:2o:65:ARG:NH1	2.53	0.41
49:2r:36:ASN:O	49:2r:40:LEU:HG	2.19	0.41
51:2t:99:LEU:O	51:2t:100:ILE:HG23	2.21	0.41
54:2w:53:G:H1	54:2w:61:C:N4	2.17	0.41
1:1A:45:C:OP2	1:1A:215:G:H5''	2.19	0.41
1:1A:218:A:H2	1:1A:235:U:H4'	1.80	0.41
1:1A:1071:G:H2'	1:1A:1072:C:C6	2.55	0.41
1:1A:2507:C:H2'	1:1A:2508:G:O4'	2.20	0.41
1:1A:2510:C:H2'	1:1A:2511:U:O4'	2.20	0.41
4:1E:11:MET:HE2	4:1E:11:MET:HB3	1.93	0.41
6:1G:16:ARG:HB3	6:1G:17:PRO:HD3	2.02	0.41
19:1X:60:ARG:HH22	29:17:47:ARG:NH1	2.18	0.41
26:14:40:HIS:HB3	26:14:43:TYR:CD2	2.55	0.41
32:1a:258:G:H1	32:1a:268:C:H42	1.68	0.41
32:1a:270:A:H2'	32:1a:271:C:C6	2.55	0.41
32:1a:426:G:OP1	35:1d:36:ARG:NH1	2.51	0.41
32:1a:536:C:H2'	32:1a:537:G:C8	2.54	0.41
32:1a:719:C:O2'	49:1r:49:LYS:HB3	2.20	0.41
32:1a:862:C:H1'	32:1a:874:G:H4'	2.01	0.41
32:1a:1027:C:N3	32:1a:1034:G:C2	2.88	0.41
32:1a:1144:G:H21	32:1a:1146:A:H62	1.68	0.41
34:1c:162:GLN:HG2	53:1v:24:C:O3'	2.19	0.41
37:1f:1:MET:HG2	37:1f:68:PRO:HA	2.02	0.41
48:1q:61:GLU:HA	48:1q:71:PHE:CD1	2.56	0.41
51:1t:48:LYS:HA	51:1t:48:LYS:HD3	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:1w:41:A:H2'	54:1w:42:G:O4'	2.20	0.41
1:2A:57:C:H2'	1:2A:58:G:O4'	2.20	0.41
1:2A:251:A:P	30:28:7:HIS:HE2	2.39	0.41
1:2A:652(U):G:H2'	1:2A:652(V):C:O4'	2.20	0.41
1:2A:659:C:H2'	1:2A:660:G:C8	2.53	0.41
1:2A:2133:G:C4	1:2A:2157:G:C2	3.08	0.41
1:2A:2199:A:H3'	1:2A:2200:C:C6	2.55	0.41
1:2A:2424:C:O2	1:2A:2429:G:O2'	2.36	0.41
1:2A:2727:G:O2'	10:2O:70:LYS:NZ	2.53	0.41
1:2A:2875:C:O2'	15:2T:2:ASN:ND2	2.53	0.41
9:2N:43:THR:HG22	9:2N:44:PRO:HD2	2.03	0.41
12:2Q:85:LYS:HG2	22:20:7:LEU:CB	2.48	0.41
20:2Y:3:VAL:HB	20:2Y:32:PRO:HB3	2.02	0.41
32:2a:137:C:H2'	32:2a:138:G:C8	2.56	0.41
32:2a:1129:C:H2'	32:2a:1139:G:C6	2.55	0.41
32:2a:1226:C:N4	44:2m:104:ARG:HG2	2.27	0.41
32:2a:1284:C:H3'	32:2a:1285:A:H8	1.83	0.41
33:2b:101:MET:HA	33:2b:108:ILE:HG21	2.02	0.41
34:2c:34:LEU:HD11	34:2c:38:ARG:NH2	2.35	0.41
37:2f:30:LEU:HB3	37:2f:35:ALA:HB3	2.02	0.41
54:2y:68:C:C4	54:2y:69:A:C8	3.09	0.41
1:1A:1200:C:H2'	1:1A:1201:C:C6	2.54	0.41
1:1A:2375:G:N2	1:1A:2377:A:H3'	2.36	0.41
2:1B:24:G:N7	2:1B:56:G:H2'	2.36	0.41
3:1D:123:ALA:HB3	3:1D:131:LEU:HG	2.01	0.41
5:1F:140:LEU:HD11	5:1F:170:LEU:HD11	2.02	0.41
6:1G:80:PHE:HB2	6:1G:82:LEU:HB2	2.01	0.41
15:1T:92:GLY:C	15:1T:117:ASP:HB2	2.46	0.41
25:13:59:VAL:O	25:13:60:GLU:HG2	2.20	0.41
30:18:63:PRO:HG2	30:18:64:TYR:CD2	2.56	0.41
32:1a:430:A:OP1	35:1d:9:CYS:HB2	2.20	0.41
32:1a:986:A:N3	50:1s:52:TYR:OH	2.52	0.41
32:1a:1028:C:H2'	32:1a:1029:C:O4'	2.20	0.41
32:1a:1136:U:H5''	32:1a:1137:C:C2	2.56	0.41
32:1a:1287:A:H2	32:1a:1353:G:N3	2.18	0.41
33:1b:33:TYR:HB2	33:1b:43:ASP:HB2	2.02	0.41
34:1c:5:ILE:HG12	34:1c:6:HIS:H	1.84	0.41
34:1c:152:ILE:O	34:1c:198:VAL:HA	2.20	0.41
44:1m:76:ALA:HA	44:1m:79:LYS:HB3	2.01	0.41
1:2A:94(A):G:O3'	24:22:45:SER:OG	2.39	0.41
1:2A:132:G:H2'	1:2A:133:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:321:G:H4'	5:2F:165:ARG:O	2.19	0.41
1:2A:668:G:H5'	1:2A:669:G:OP2	2.20	0.41
1:2A:686:G:C2	29:27:11:LYS:HE3	2.55	0.41
1:2A:1035:U:H2'	1:2A:1036:G:C8	2.56	0.41
1:2A:1361:G:H2'	1:2A:1362:C:C6	2.56	0.41
1:2A:1423:G:H2'	1:2A:1424:G:C8	2.54	0.41
1:2A:1651:G:H5'	13:2R:39:PRO:HG2	2.01	0.41
1:2A:2169:A:H2'	1:2A:2170:A:C8	2.55	0.41
1:2A:2556:C:H2'	1:2A:2557:G:O4'	2.21	0.41
1:2A:2734:A:H62	1:2A:2770:G:H21	1.67	0.41
2:2B:12:C:H2'	22:20:73:GLY:HA3	2.03	0.41
10:2O:19:ILE:HG22	10:2O:43:VAL:HA	2.01	0.41
13:2R:96:ARG:CZ	27:25:55:ARG:HH22	2.32	0.41
15:2T:57:PHE:HA	15:2T:79:HIS:CD2	2.56	0.41
16:2U:44:ASN:HD21	17:2V:75:PHE:H	1.69	0.41
32:2a:895:G:H2'	32:2a:896:C:C6	2.55	0.41
32:2a:1286:A:H8	32:2a:1287:A:H4'	1.83	0.41
32:2a:1405:G:H2'	32:2a:1406:U:H6	1.85	0.41
32:2a:1435:G:H2'	32:2a:1436:U:C6	2.56	0.41
34:2c:148:GLY:HA3	34:2c:203:PHE:HB3	2.03	0.41
39:2h:45:ILE:HD12	39:2h:61:VAL:HG13	2.02	0.41
48:2q:43:LEU:HB3	48:2q:69:LYS:HG2	2.01	0.41
54:2w:64:U:H2'	54:2w:65:C:O4'	2.21	0.41
1:1A:444:C:H4'	5:1F:49:ALA:HB2	2.02	0.41
1:1A:820:A:H1'	1:1A:943:U:H1'	2.01	0.41
1:1A:848:G:H2'	1:1A:849:A:C8	2.56	0.41
1:1A:994:C:P	16:1U:54:LYS:HZ1	2.43	0.41
1:1A:1062:G:C5	1:1A:1088:A:H2'	2.56	0.41
1:1A:1083:U:H2'	1:1A:1085:A:OP2	2.21	0.41
1:1A:1641:A:H2'	1:1A:1642:G:O4'	2.20	0.41
1:1A:1826:G:H2'	1:1A:1827:C:O4'	2.20	0.41
1:1A:1866:C:H2'	1:1A:1876:A:O4'	2.20	0.41
1:1A:2243:U:H2'	1:1A:2244:U:C6	2.56	0.41
1:1A:2245:U:O2'	1:1A:2436:G:OP2	2.36	0.41
1:1A:2432:A:H2'	1:1A:2433:A:C8	2.55	0.41
1:1A:2675:A:H5'	10:1O:29:ASN:O	2.21	0.41
6:1G:11:TYR:HB2	6:1G:176:LEU:HD21	2.03	0.41
26:14:40:HIS:O	26:14:44:THR:HG22	2.20	0.41
31:19:8:LYS:O	31:19:34:GLN:NE2	2.54	0.41
32:1a:43:C:H2'	32:1a:44:G:O4'	2.21	0.41
32:1a:1103:C:H5'	33:1b:98:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:1a:1173:G:H2'	32:1a:1174:G:O4'	2.21	0.41
32:1a:1288:A:H2'	32:1a:1289:A:C8	2.55	0.41
36:1e:143:ARG:NE	39:1h:77:GLU:OE2	2.39	0.41
41:1j:40:LEU:HB2	41:1j:69:ASN:CB	2.51	0.41
46:1o:5:LYS:H	46:1o:5:LYS:HG3	1.67	0.41
51:1t:68:LYS:HB3	51:1t:68:LYS:HE3	1.97	0.41
1:2A:144:C:H2'	1:2A:145:G:C8	2.55	0.41
1:2A:197:A:H62	1:2A:2430:A:H2'	1.85	0.41
1:2A:250:G:C6	1:2A:251:A:C6	3.09	0.41
1:2A:443:A:C5	5:2F:45:ARG:HD2	2.55	0.41
1:2A:686:G:H8	29:27:6:GLN:O	2.03	0.41
1:2A:779:U:OP1	3:2D:49:ILE:HG13	2.21	0.41
1:2A:1996:C:N4	10:2O:32:TYR:OH	2.54	0.41
1:2A:2502:G:H5''	1:2A:2503:2MA:H5''	2.01	0.41
1:2A:2851:A:O3'	13:2R:64:ARG:NH2	2.52	0.41
7:2H:4:ILE:O	7:2H:69:ARG:HD2	2.21	0.41
14:2S:20:ARG:HA	14:2S:20:ARG:HD2	1.85	0.41
32:2a:287:U:H2'	32:2a:288:A:H8	1.86	0.41
32:2a:325:A:H2'	32:2a:326:G:O4'	2.19	0.41
32:2a:567:G:C2	32:2a:568:G:H1'	2.56	0.41
32:2a:1148:U:H1'	40:2i:66:ARG:HH22	1.85	0.41
34:2c:131:ARG:NH2	36:2e:50:GLU:HG3	2.35	0.41
35:2d:170:VAL:HG13	35:2d:174:LEU:HB2	2.01	0.41
36:2e:31:LEU:HD23	36:2e:31:LEU:HA	1.96	0.41
36:2e:143:ARG:HE	39:2h:77:GLU:CD	2.27	0.41
54:2y:9:A:O2'	54:2y:11:C:N4	2.34	0.41
1:1A:302:C:P	20:1Y:73:ARG:HH22	2.44	0.41
1:1A:511:U:O4	1:1A:512:G:N1	2.54	0.41
1:1A:557:U:H2'	1:1A:558:G:H8	1.84	0.41
1:1A:630:G:N2	1:1A:632:A:H3'	2.36	0.41
1:1A:1114:G:H2'	1:1A:1115:G:H8	1.85	0.41
1:1A:1268:A:C2	1:1A:2013:A:C4	3.08	0.41
1:1A:1658:C:H2'	1:1A:1659:U:C6	2.55	0.41
1:1A:1694:C:H4'	1:1A:1695:G:O5'	2.21	0.41
1:1A:1792:G:O2'	1:1A:1830:C:OP1	2.38	0.41
1:1A:2155:G:H3'	1:1A:2156:G:C8	2.55	0.41
1:1A:2389:G:H5''	1:1A:2390:U:O4'	2.21	0.41
1:1A:2730:C:H2'	1:1A:2731:G:H8	1.86	0.41
13:1R:57:ARG:HG2	13:1R:59:ASP:OD1	2.21	0.41
21:1Z:130:PRO:HA	21:1Z:133:ILE:HG13	2.03	0.41
25:13:6:VAL:HG12	25:13:28:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:13:35:ARG:HG2	25:13:37:LEU:HD21	2.03	0.41
32:1a:488:C:H2'	32:1a:489:C:H6	1.86	0.41
32:1a:763:G:H2'	32:1a:764:C:C6	2.54	0.41
32:1a:1280:A:O2'	32:1a:1281:U:H5'	2.20	0.41
53:1v:20:U:C4	53:1v:21:U:C4	3.08	0.41
54:1y:19:G:H1	54:1y:56:C:N4	2.19	0.41
1:2A:1469:A:H2'	1:2A:1470:G:O4'	2.20	0.41
1:2A:1794:U:H2'	1:2A:1795:C:H6	1.84	0.41
1:2A:1965:C:OP1	1:2A:1966:A:O2'	2.30	0.41
1:2A:2149:G:C6	1:2A:2150:U:C2	3.08	0.41
1:2A:2370:G:C6	1:2A:2371:G:C6	3.09	0.41
1:2A:2674:G:H2'	1:2A:2675:A:C8	2.55	0.41
1:2A:2751:G:H8	7:2H:2:SER:HA	1.85	0.41
57:2A:3875:ERY:H10	57:2A:3875:ERY:H353	1.82	0.41
2:2B:40:U:O2'	2:2B:43:C:OP2	2.28	0.41
6:2G:63:ILE:HD13	6:2G:141:PHE:CD2	2.55	0.41
7:2H:74:ASN:ND2	7:2H:138:LYS:HD3	2.36	0.41
7:2H:140:LYS:HB2	7:2H:140:LYS:HE3	1.90	0.41
10:2O:25:LEU:HD23	10:2O:25:LEU:HA	1.68	0.41
15:2T:39:ARG:HH12	15:2T:41:ARG:HB3	1.86	0.41
15:2T:53:ARG:HH11	15:2T:60:THR:HG23	1.84	0.41
23:21:35:THR:OG1	23:21:35:THR:O	2.37	0.41
28:26:8:LYS:HD3	30:28:34:TRP:CD2	2.55	0.41
28:26:26:ASN:HB3	28:26:29:ASN:HB2	2.02	0.41
32:2a:107:G:H2'	32:2a:108:G:O4'	2.21	0.41
32:2a:356:A:N3	32:2a:368:U:O2'	2.45	0.41
32:2a:1104:G:H4'	33:2b:111:ARG:CZ	2.51	0.41
32:2a:1318:A:H1'	50:2s:37:ARG:HD2	2.03	0.41
37:2f:75:LEU:O	37:2f:79:LEU:HG	2.20	0.41
54:2y:58:A:H1'	54:2y:60:C:N3	2.35	0.41
54:2y:60:C:H2'	54:2y:61:C:H5	1.85	0.41
1:1A:436:C:H2'	1:1A:437:G:H8	1.85	0.41
1:1A:524:U:H2'	1:1A:525:U:C6	2.56	0.41
1:1A:631:A:H1'	11:1P:66:GLY:HA2	2.02	0.41
1:1A:637:A:H4'	1:1A:638:G:O5'	2.21	0.41
1:1A:686:G:H8	29:17:6:GLN:O	2.03	0.41
1:1A:995:C:OP2	16:1U:54:LYS:NZ	2.48	0.41
1:1A:1153:C:OP2	60:1A:5427:HOH:O	2.22	0.41
1:1A:2291:U:H2'	1:1A:2292:C:C6	2.56	0.41
3:1D:82:ILE:HD11	3:1D:111:LEU:HD23	2.02	0.41
3:1D:83:GLU:OE1	3:1D:104:TYR:OH	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1O:9:GLU:O	10:1O:83:ALA:HA	2.20	0.41
12:1Q:47:ILE:HG12	12:1Q:68:ILE:HD11	2.02	0.41
19:1X:25:LYS:HA	19:1X:81:VAL:O	2.20	0.41
29:17:12:ARG:NH2	29:17:44:PRO:HB3	2.36	0.41
32:1a:59:A:H1'	32:1a:354:G:N2	2.36	0.41
32:1a:250:A:H4'	32:1a:251:G:O5'	2.21	0.41
32:1a:410:G:N1	32:1a:429:U:O2	2.54	0.41
32:1a:1084:G:C5	32:1a:1085:U:C4	3.09	0.41
35:1d:120:LEU:HD23	35:1d:120:LEU:HA	1.85	0.41
44:1m:65:LYS:HB3	44:1m:65:LYS:HE2	1.73	0.41
45:1n:4:LYS:O	45:1n:8:GLU:HB2	2.21	0.41
50:1s:40:ILE:HB	50:1s:67:VAL:O	2.20	0.41
1:2A:174:C:H2'	1:2A:175:G:C8	2.56	0.41
1:2A:265:A:H1'	1:2A:266:G:O4'	2.21	0.41
1:2A:656:G:H2'	1:2A:657:U:O4'	2.21	0.41
1:2A:754:C:H2'	1:2A:755:C:C6	2.55	0.41
1:2A:1027:A:C6	1:2A:1126:A:C4	3.08	0.41
1:2A:1123:C:H1'	31:29:18:ARG:HH21	1.86	0.41
1:2A:1361:G:H2'	1:2A:1362:C:H6	1.84	0.41
1:2A:2103:C:O2	1:2A:2187:G:N2	2.53	0.41
1:2A:2188:C:H5'	1:2A:2189:U:OP2	2.21	0.41
1:2A:2872:G:O2'	1:2A:2873:A:H5'	2.21	0.41
5:2F:181:LEU:HD22	5:2F:194:MET:HE1	2.02	0.41
10:2O:104:ARG:N	10:2O:122:LEU:O	2.52	0.41
11:2P:89:ALA:O	11:2P:121:LYS:NZ	2.54	0.41
12:2Q:4:PRO:HG3	12:2Q:69:PHE:HE2	1.86	0.41
12:2Q:25:ASP:HB3	21:2Z:78:LYS:HD3	2.02	0.41
32:2a:152:A:OP2	32:2a:153:C:N4	2.52	0.41
32:2a:174:C:H2'	32:2a:175:C:C6	2.56	0.41
32:2a:618:C:O2	32:2a:622:A:N6	2.54	0.41
32:2a:951:G:H1'	32:2a:970:C:O2'	2.20	0.41
32:2a:1309:G:H2'	32:2a:1310:G:O4'	2.21	0.41
35:2d:38:TYR:CE1	35:2d:45:GLN:HG3	2.55	0.41
42:2k:86:GLY:O	42:2k:91:ARG:HD3	2.20	0.41
43:2l:24:VAL:HB	43:2l:27:LEU:HD22	2.01	0.41
54:2y:71:C:H2'	54:2y:72:C:O4'	2.20	0.41
1:1A:271(Z):C:H1'	1:1A:272(C):G:H1'	2.02	0.41
1:1A:330:A:HO2'	1:1A:331:A:H8	1.67	0.41
1:1A:443:A:C5	5:1F:45:ARG:HD2	2.55	0.41
1:1A:663:G:H2'	1:1A:664:C:O4'	2.20	0.41
1:1A:754:C:H2'	1:1A:755:C:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:992:C:OP1	17:1V:74:LYS:NZ	2.41	0.41
1:1A:1889:A:H2'	1:1A:1890:A:O4'	2.21	0.41
1:1A:2251:OMG:HM23	1:1A:2251:OMG:H1'	1.85	0.41
1:1A:2334:G:H5'	14:1S:9:ARG:HG2	2.02	0.41
1:1A:2424:C:C2	1:1A:2429:G:H1'	2.56	0.41
1:1A:2478:A:H2'	1:1A:2479:G:O4'	2.21	0.41
57:1A:4074:ERY:H312	57:1A:4074:ERY:H2	1.75	0.41
2:1B:2:C:H2'	2:1B:3:C:H6	1.84	0.41
2:1B:68:C:H2'	2:1B:69:G:O4'	2.21	0.41
5:1F:182:ASN:HD21	5:1F:185:ASP:CG	2.26	0.41
10:1O:11:ALA:HB1	10:1O:99:PHE:O	2.21	0.41
10:1O:20:MET:HE2	10:1O:20:MET:HB3	1.96	0.41
12:1Q:10:ARG:HG2	12:1Q:11:LYS:HG3	2.03	0.41
12:1Q:59:ARG:C	12:1Q:61:GLY:H	2.29	0.41
16:1U:58:ARG:HA	16:1U:61:TRP:CE3	2.56	0.41
17:1V:52:VAL:HG13	17:1V:55:ALA:HB3	2.03	0.41
21:1Z:75:ASN:OD1	21:1Z:75:ASN:N	2.53	0.41
21:1Z:166:SER:C	21:1Z:168:GLU:H	2.29	0.41
24:12:52:ASP:O	24:12:56:GLN:HG3	2.21	0.41
32:1a:107:G:H2'	32:1a:108:G:O4'	2.21	0.41
32:1a:245:C:C2	32:1a:284:G:C2	3.09	0.41
32:1a:678:U:H1'	32:1a:777:A:O3'	2.21	0.41
32:1a:764:C:H2'	32:1a:765:G:O4'	2.20	0.41
32:1a:890:G:O2'	32:1a:906:G:O6	2.29	0.41
32:1a:995:C:H1'	45:1n:4:LYS:HE2	2.03	0.41
32:1a:1034:G:H2'	32:1a:1035:A:O4'	2.21	0.41
32:1a:1109:C:H2'	32:1a:1110:A:O4'	2.21	0.41
32:1a:1238:A:C2	32:1a:1303:C:H4'	2.56	0.41
32:1a:1284:C:H3'	32:1a:1285:A:C8	2.56	0.41
32:1a:1298:C:H4'	32:1a:1299:A:O4'	2.21	0.41
32:1a:1329:A:H5''	44:1m:26:GLY:N	2.33	0.41
36:1e:83:GLU:HB3	36:1e:88:LYS:HB2	2.02	0.41
38:1g:100:ALA:O	38:1g:104:LEU:HD13	2.21	0.41
38:1g:151:TYR:HB3	38:1g:154:TYR:CD2	2.48	0.41
40:1i:32:ASP:O	40:1i:36:TYR:N	2.50	0.41
43:1l:5:PRO:HD2	43:1l:15:ARG:HH22	1.85	0.41
45:1n:27:CYS:SG	45:1n:28:GLY:N	2.94	0.41
50:1s:14:HIS:HE1	50:1s:35:SER:OG	2.04	0.41
54:1w:51:C:N4	54:1w:63:G:H1	2.18	0.41
54:1w:53:G:H1	54:1w:61:C:H42	1.69	0.41
1:2A:446:G:H5''	1:2A:449:A:H1'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:482:A:N6	1:2A:506:G:O2'	2.54	0.41
1:2A:586:A:N1	1:2A:809:G:O2'	2.47	0.41
1:2A:599:G:H5'	11:2P:9:ASN:ND2	2.36	0.41
1:2A:822:U:H2'	1:2A:823:G:C8	2.56	0.41
1:2A:840:C:H2'	1:2A:841:A:H8	1.85	0.41
1:2A:978:G:H1	1:2A:985:C:N4	2.18	0.41
1:2A:1664:A:C8	1:2A:1664:A:OP2	2.73	0.41
1:2A:1800:C:OP2	3:2D:183:ARG:NH2	2.51	0.41
1:2A:2169:A:O2'	54:2y:56:C:OP1	2.33	0.41
1:2A:2233:U:H2'	1:2A:2234:G:C8	2.56	0.41
1:2A:2282:G:H4'	1:2A:2389:G:O2'	2.21	0.41
3:2D:182:LEU:HD23	3:2D:182:LEU:HA	1.90	0.41
4:2E:64:LYS:HA	4:2E:67:PHE:HD2	1.86	0.41
4:2E:119:ARG:HG2	4:2E:120:TRP:NE1	2.35	0.41
7:2H:154:PRO:HB3	7:2H:163:TYR:CE1	2.56	0.41
9:2N:12:ARG:NH2	9:2N:50:ASP:OD2	2.54	0.41
12:2Q:26:TYR:O	12:2Q:67:ARG:NH1	2.49	0.41
14:2S:106:ARG:HG3	14:2S:112:PHE:CZ	2.56	0.41
19:2X:64:LYS:HD3	19:2X:64:LYS:HA	1.69	0.41
22:20:23:VAL:HG22	22:20:38:VAL:HG22	2.02	0.41
22:20:56:ASP:OD2	22:20:58:THR:OG1	2.35	0.41
32:2a:8:A:N6	35:2d:209:ARG:HB2	2.36	0.41
32:2a:136:C:H42	32:2a:227:G:H1	1.66	0.41
32:2a:336:C:H2'	32:2a:337:C:H6	1.84	0.41
32:2a:384:G:H2'	32:2a:385:C:C6	2.55	0.41
32:2a:392:G:H2'	32:2a:393:A:H8	1.86	0.41
32:2a:432:A:H3'	32:2a:433:C:H6	1.86	0.41
32:2a:493:G:H8	32:2a:493:G:O5'	2.04	0.41
32:2a:668:G:H2'	32:2a:669:U:C6	2.56	0.41
32:2a:838:G:H1	32:2a:848:C:N4	2.10	0.41
32:2a:868:C:H2'	32:2a:869:G:O4'	2.21	0.41
32:2a:1159:U:O2'	32:2a:1160:G:OP2	2.30	0.41
32:2a:1162:C:H2'	32:2a:1163:C:C6	2.56	0.41
32:2a:1166:G:N2	32:2a:1169:A:O5'	2.53	0.41
32:2a:1305:G:H8	52:2u:5:ASP:HB2	1.86	0.41
33:2b:58:ILE:O	33:2b:62:ALA:N	2.45	0.41
34:2c:20:SER:HB3	34:2c:22:TRP:NE1	2.36	0.41
35:2d:22:LYS:O	35:2d:113:SER:HB3	2.20	0.41
35:2d:180:GLY:O	35:2d:181:MET:HB2	2.21	0.41
36:2e:20:GLN:NE2	36:2e:25:ARG:HD2	2.35	0.41
36:2e:77:PRO:HG2	36:2e:142:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:2e:89:ILE:HD12	36:2e:89:ILE:HA	1.93	0.41
37:2f:50:TYR:CZ	49:2r:77:GLY:HA2	2.56	0.41
37:2f:76:ALA:O	37:2f:80:ARG:HG3	2.21	0.41
38:2g:57:GLU:O	38:2g:61:VAL:HG23	2.21	0.41
39:2h:20:TYR:HA	39:2h:65:TYR:CE1	2.56	0.41
39:2h:135:CYS:SG	39:2h:137:VAL:HG22	2.61	0.41
42:2k:20:TYR:CZ	42:2k:83:ILE:HD13	2.55	0.41
44:2m:108:ARG:HD3	44:2m:108:ARG:HA	1.81	0.41
55:2x:2:G:N3	55:2x:2:G:H2'	2.35	0.41
1:1A:207:A:H2'	1:1A:208:C:O4'	2.20	0.41
1:1A:588:U:H2'	1:1A:589:C:C6	2.56	0.41
1:1A:742:G:H4'	1:1A:1676:A:H5'	2.03	0.41
1:1A:1011:G:OP2	16:1U:66:ASN:ND2	2.38	0.41
1:1A:1027:A:C2	1:1A:2488:A:H5'	2.56	0.41
1:1A:1674:G:H1'	1:1A:1676:A:N6	2.35	0.41
1:1A:1791:A:OP2	1:1A:1791:A:H8	2.04	0.41
1:1A:2252:G:H2'	1:1A:2253:G:O4'	2.21	0.41
1:1A:2811:G:N2	1:1A:2891:G:H1'	2.36	0.41
8:1I:26:ALA:HA	8:1I:30:LEU:HB2	2.01	0.41
10:1O:26:LYS:HB3	10:1O:26:LYS:HE2	1.94	0.41
12:1Q:39:PRO:HA	12:1Q:97:VAL:O	2.20	0.41
14:1S:106:ARG:NE	14:1S:112:PHE:OXT	2.41	0.41
32:1a:377:G:H5'	47:1p:5:ARG:HH12	1.85	0.41
32:1a:999:C:H2'	32:1a:1000:U:O4'	2.21	0.41
32:1a:1015:A:H8	32:1a:1015:A:O5'	2.04	0.41
32:1a:1218:C:H2'	32:1a:1219:U:C6	2.56	0.41
32:1a:1379:G:O6	38:1g:2:ALA:N	2.54	0.41
44:1m:3:ARG:HB2	44:1m:57:ARG:HH21	1.86	0.41
51:1t:50:GLU:O	51:1t:100:ILE:HD11	2.21	0.41
1:2A:458:G:O2'	1:2A:469:G:O6	2.25	0.41
1:2A:1430:C:H2'	1:2A:1431:U:H6	1.84	0.41
1:2A:1860:G:O6	1:2A:1883:G:N2	2.54	0.41
1:2A:1913:A:H4'	1:2A:1914:C:H5''	2.02	0.41
1:2A:2393:A:O3'	11:2P:63:PRO:HA	2.21	0.41
1:2A:2448:A:OP1	60:2A:5975:HOH:O	2.22	0.41
1:2A:2528:U:H2'	1:2A:2530:A:H5''	2.02	0.41
1:2A:2883:A:H5''	1:2A:2884:U:H5'	2.02	0.41
1:2A:2886:G:H2'	1:2A:2887:U:C6	2.54	0.41
3:2D:159:ALA:HB1	3:2D:198:ASN:O	2.21	0.41
10:2O:3:GLN:HG3	10:2O:4:PRO:O	2.21	0.41
12:2Q:87:LYS:HG3	12:2Q:88:GLY:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2T:108:ARG:HH12	15:2T:112:ARG:NH1	2.19	0.41
32:2a:881:G:OP2	43:2l:9:GLN:NE2	2.37	0.41
32:2a:1030(A):G:N2	32:2a:1030(C):G:H8	2.17	0.41
32:2a:1268:A:N3	32:2a:1326:C:O2'	2.54	0.41
32:2a:1323:G:O2'	32:2a:1362:C:O2'	2.21	0.41
50:2s:41:VAL:HG22	50:2s:42:PRO:HD2	2.03	0.41
1:1A:37:C:H2'	1:1A:38:A:C8	2.55	0.40
1:1A:540:C:H2'	1:1A:541:C:C6	2.56	0.40
1:1A:875:G:H1	1:1A:902:C:N4	2.06	0.40
1:1A:1230:C:H2'	1:1A:1231:G:C8	2.56	0.40
1:1A:1364:G:C8	23:11:3:LYS:HD2	2.57	0.40
1:1A:1405:U:H2'	1:1A:1406:U:H6	1.86	0.40
1:1A:2505:G:O6	1:1A:2576:G:H2'	2.21	0.40
1:1A:2512:C:H2'	1:1A:2513:G:O4'	2.21	0.40
1:1A:2529:G:H5''	1:1A:2530:A:H5''	2.03	0.40
1:1A:2687:U:H2'	1:1A:2688:U:O4'	2.22	0.40
2:1B:21:G:H2'	2:1B:22:U:O4'	2.21	0.40
4:1E:179:GLU:HB2	4:1E:181:LEU:HD22	2.03	0.40
5:1F:164:ARG:HD2	5:1F:175:THR:HG23	2.03	0.40
6:1G:29:TRP:O	6:1G:33:ARG:NH1	2.52	0.40
11:1P:126:VAL:HG12	11:1P:148:LEU:HD23	2.01	0.40
14:1S:84:GLN:HA	14:1S:111:GLU:HB2	2.02	0.40
21:1Z:52:SER:OG	21:1Z:54:HIS:ND1	2.54	0.40
32:1a:16:A:O2'	36:1e:16:THR:HB	2.20	0.40
32:1a:60:A:N1	32:1a:107:G:O2'	2.52	0.40
32:1a:405:U:H5''	32:1a:495:A:H2	1.86	0.40
32:1a:1496:C:H2'	32:1a:1497:G:O4'	2.21	0.40
36:1e:87:SER:HB3	36:1e:131:ILE:HD13	2.03	0.40
36:1e:127:ASN:O	36:1e:131:ILE:HG12	2.21	0.40
38:1g:16:LEU:HD21	40:1i:45:ALA:HB2	2.02	0.40
38:1g:95:ARG:NE	38:1g:99:LEU:HD11	2.36	0.40
40:1i:29:ASN:ND2	40:1i:65:VAL:O	2.38	0.40
41:1j:13:HIS:HB3	41:1j:68:HIS:CE1	2.55	0.40
45:1n:26:ARG:HD3	45:1n:43:CYS:SG	2.61	0.40
51:1t:13:LEU:HD12	51:1t:14:LYS:N	2.35	0.40
52:1u:6:ARG:HH21	52:1u:15:ARG:CZ	2.34	0.40
1:2A:800:A:OP1	1:2A:800:A:H8	2.04	0.40
1:2A:1932:A:H2'	1:2A:1933:G:O4'	2.21	0.40
4:2E:117:MET:SD	4:2E:136:ARG:HA	2.62	0.40
5:2F:54:ARG:NH2	5:2F:77:ASP:OD1	2.54	0.40
14:2S:25:ARG:CG	14:2S:40:ILE:HB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:21:23:LYS:HB3	23:21:29:GLY:HA3	2.03	0.40
32:2a:163:C:H2'	32:2a:164:U:C6	2.56	0.40
32:2a:608:A:H3'	32:2a:609:A:H8	1.85	0.40
32:2a:1127:G:N2	32:2a:1145:C:N3	2.59	0.40
33:2b:19:HIS:CG	33:2b:20:GLU:N	2.88	0.40
34:2c:181:ASN:HB3	34:2c:204:LEU:HB2	2.02	0.40
36:2e:115:VAL:HG11	36:2e:118:ILE:HD12	2.02	0.40
54:2w:68:C:H2'	54:2w:69:A:C8	2.56	0.40
1:1A:182:A:N3	1:1A:433:C:O2'	2.45	0.40
1:1A:816:C:H2'	1:1A:817:C:C6	2.56	0.40
1:1A:1006:C:C2	1:1A:1138:G:N2	2.89	0.40
1:1A:1786:A:H1'	1:1A:1938:A:N6	2.36	0.40
1:1A:1825:A:H2'	1:1A:1826:G:C8	2.56	0.40
1:1A:2046:G:O5'	27:15:19:ARG:HA	2.21	0.40
1:1A:2418:A:H2'	1:1A:2419:U:C6	2.56	0.40
1:1A:2470:G:P	12:1Q:56:ARG:HH21	2.44	0.40
2:1B:78:A:C2	2:1B:100:A:C4	3.10	0.40
3:1D:65:ILE:HB	3:1D:67:PHE:CE2	2.56	0.40
5:1F:29:ASN:ND2	5:1F:32:LEU:HB2	2.36	0.40
6:1G:4:ASP:OD1	6:1G:9:ARG:HD2	2.20	0.40
9:1N:13:TRP:CE2	9:1N:133:GLN:HG2	2.56	0.40
20:1Y:68:HIS:HB3	20:1Y:71:LYS:HG3	2.03	0.40
21:1Z:54:HIS:CG	21:1Z:101:PRO:HG3	2.56	0.40
26:14:61:ARG:HG3	26:14:62:ARG:N	2.36	0.40
30:18:52:LYS:N	30:18:53:PRO:HD2	2.37	0.40
32:1a:262:A:C6	32:1a:263:A:C6	3.09	0.40
32:1a:483:C:H3'	32:1a:484:G:C8	2.55	0.40
32:1a:600:C:OP1	39:1h:97:VAL:HG12	2.22	0.40
32:1a:778:G:H1'	42:1k:119:CYS:HB3	2.02	0.40
32:1a:1074:G:O2'	32:1a:1101:A:N1	2.51	0.40
32:1a:1080:A:H5''	32:1a:1081:G:OP2	2.21	0.40
33:1b:101:MET:HA	33:1b:108:ILE:HG21	2.02	0.40
35:1d:3:ARG:O	35:1d:5:ILE:HG22	2.22	0.40
39:1h:56:LYS:HB2	39:1h:58:TYR:HE2	1.86	0.40
44:1m:14:ARG:HG3	44:1m:44:ARG:NH1	2.35	0.40
44:1m:65:LYS:O	44:1m:70:LEU:HD12	2.22	0.40
50:1s:77:THR:O	50:1s:77:THR:OG1	2.40	0.40
54:1w:37:6MZ:H2'	54:1w:38:A:O4'	2.21	0.40
1:2A:19:C:H2'	1:2A:20:C:H6	1.85	0.40
1:2A:133:C:H42	1:2A:146:G:H1	1.69	0.40
1:2A:817:C:C2	1:2A:818:G:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:1159:U:H2'	1:2A:1160:G:H8	1.86	0.40
1:2A:1196:C:H2'	1:2A:1197:G:C8	2.56	0.40
1:2A:1637:A:H4'	1:2A:2711:A:O2'	2.22	0.40
1:2A:2023:G:H2'	1:2A:2024:G:H8	1.87	0.40
1:2A:2353:G:O2'	22:20:33:ALA:O	2.27	0.40
1:2A:2591:C:OP1	3:2D:239:ARG:HD2	2.22	0.40
4:2E:13:ARG:HB3	4:2E:22:PRO:HA	2.02	0.40
7:2H:18:GLU:HB3	7:2H:25:LYS:HB2	2.02	0.40
7:2H:33:LEU:HD21	7:2H:136:ILE:HG13	2.03	0.40
12:2Q:43:THR:HA	12:2Q:94:VAL:HG12	2.02	0.40
14:2S:10:ARG:HG2	14:2S:91:PRO:HA	2.03	0.40
16:2U:5:LYS:HG3	16:2U:7:GLY:H	1.86	0.40
17:2V:10:LYS:HE2	17:2V:10:LYS:HB2	1.91	0.40
20:2Y:1:MET:HB2	20:2Y:1:MET:HE3	1.94	0.40
32:2a:586:C:O3'	39:2h:89:PRO:HB3	2.20	0.40
32:2a:691:G:O2'	32:2a:797:C:H4'	2.21	0.40
32:2a:1265:G:C6	32:2a:1266:G:C5	3.09	0.40
32:2a:1313:U:H2'	32:2a:1314:C:H6	1.85	0.40
32:2a:1410:G:H2'	32:2a:1411:C:H6	1.87	0.40
34:2c:164:ARG:HD2	34:2c:166:GLU:HG3	2.03	0.40
35:2d:121:VAL:O	35:2d:134:ASP:HA	2.21	0.40
36:2e:105:VAL:HG21	36:2e:128:PRO:HB3	2.03	0.40
39:2h:78:GLN:O	39:2h:81:HIS:NE2	2.54	0.40
40:2i:17:VAL:HG22	40:2i:63:ILE:HG12	2.04	0.40
44:2m:16:ASP:HB3	44:2m:34:LEU:HD11	2.03	0.40
50:2s:52:TYR:HB2	50:2s:57:HIS:CE1	2.56	0.40
51:2t:29:LYS:HB2	51:2t:71:THR:HG21	2.03	0.40
55:2x:22:G:H2'	55:2x:23:C:C6	2.56	0.40
1:1A:863:A:H2'	1:1A:864:G:H8	1.86	0.40
1:1A:1062:G:O5'	1:1A:1070:A:O2'	2.31	0.40
1:1A:2171:A:O2'	1:1A:2172:U:H5''	2.21	0.40
1:1A:2561:A:H2'	1:1A:2562:U:O4'	2.22	0.40
1:1A:2565:A:H5''	1:1A:2566:A:OP2	2.22	0.40
2:1B:43:C:OP1	26:14:6:HIS:NE2	2.54	0.40
3:1D:72:LYS:HD3	3:1D:97:TYR:CE1	2.57	0.40
4:1E:34:VAL:HG23	4:1E:48:GLN:HB3	2.02	0.40
55:1x:8:4SU:H1'	55:1x:48:C:O2	2.20	0.40
55:1x:22:G:H2'	55:1x:23:C:H6	1.85	0.40
1:2A:71:A:H5''	1:2A:73:A:C8	2.56	0.40
1:2A:383:U:H2'	1:2A:385:C:H5	1.85	0.40
1:2A:729:G:O2'	1:2A:763:G:H4'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:765:G:H2'	1:2A:766:C:C6	2.55	0.40
1:2A:956:G:OP2	12:2Q:14:ARG:NH1	2.54	0.40
1:2A:1759:A:H1'	1:2A:2711:A:C2	2.57	0.40
1:2A:2638:G:P	4:2E:82:ARG:HH22	2.44	0.40
4:2E:15:PHE:CD2	15:2T:81:PRO:HD3	2.56	0.40
5:2F:178:PRO:HB2	5:2F:201:VAL:HG21	2.03	0.40
26:24:28:LYS:HA	26:24:29:PRO:HD3	1.96	0.40
32:2a:1184:G:OP1	32:2a:1184:G:H3'	2.21	0.40
32:2a:1186:G:H2'	32:2a:1187:G:O4'	2.21	0.40
32:2a:1345:U:OP1	40:2i:120:ARG:HD3	2.21	0.40
32:2a:1403:C:H2'	32:2a:1404:5MC:CM5	2.52	0.40
36:2e:41:VAL:O	36:2e:66:MET:HA	2.21	0.40
39:2h:14:ARG:HD3	39:2h:83:ILE:O	2.21	0.40
55:2x:11:A:N6	55:2x:12:G:O6	2.55	0.40
55:2x:44:A:H2'	55:2x:45:G:O4'	2.21	0.40
54:2y:46:7MG:H82	54:2y:46:7MG:H2'	1.91	0.40
1:1A:1105:U:H2'	1:1A:1106:G:C8	2.55	0.40
1:1A:1186:G:H2'	1:1A:1187:G:O4'	2.21	0.40
1:1A:1427:A:H4'	1:1A:1428:C:O4'	2.22	0.40
1:1A:1778:U:H2'	1:1A:1784:A:N6	2.37	0.40
1:1A:1919:A:O2'	32:1a:1517:G:N3	2.51	0.40
1:1A:1932:A:H2'	1:1A:1933:G:O4'	2.22	0.40
1:1A:2179:C:H2'	1:1A:2180:U:C6	2.56	0.40
1:1A:2264:C:H2'	1:1A:2265:U:O4'	2.22	0.40
1:1A:2639:A:H2'	1:1A:2640:G:O4'	2.21	0.40
2:1B:45:A:C6	2:1B:46:A:C5	3.10	0.40
8:1I:8:PRO:HD3	8:1I:15:VAL:HB	2.04	0.40
17:1V:57:VAL:HG22	17:1V:99:ILE:HG12	2.02	0.40
32:1a:22:G:H2'	32:1a:23:C:H6	1.85	0.40
32:1a:166:G:H2'	32:1a:167:G:C8	2.57	0.40
32:1a:194:C:H2'	32:1a:195:A:H5''	2.02	0.40
32:1a:292:G:C5	32:1a:293:G:H1'	2.57	0.40
32:1a:1015:A:H2'	32:1a:1016:A:O4'	2.21	0.40
32:1a:1228:C:P	44:1m:108:ARG:HH12	2.45	0.40
33:1b:158:LEU:HA	33:1b:159:PRO:HD3	1.92	0.40
39:1h:132:GLU:O	39:1h:134:ILE:HG13	2.21	0.40
42:1k:96:ARG:HA	42:1k:99:GLN:OE1	2.21	0.40
54:1w:45:G:HO2'	54:1w:46:7MG:P	2.41	0.40
54:1y:53:G:H3'	54:1y:54:5MU:H73	2.02	0.40
1:2A:74:A:H4'	1:2A:75:G:O5'	2.22	0.40
1:2A:1826:G:H4'	3:2D:242:ARG:HH21	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:2H:71:LEU:HA	7:2H:71:LEU:HD12	1.81	0.40
15:2T:8:LYS:HE3	15:2T:8:LYS:HB3	1.95	0.40
21:2Z:36:LYS:HB2	21:2Z:36:LYS:HE3	1.85	0.40
30:28:58:ILE:HA	30:28:61:LEU:HD12	2.03	0.40
32:2a:559:A:H4'	32:2a:560:U:H5''	2.04	0.40
32:2a:605:U:H2'	32:2a:606:G:O4'	2.22	0.40
32:2a:1221:G:H4'	50:2s:53:ASN:O	2.21	0.40
32:2a:1265:G:C4	32:2a:1271:G:N2	2.88	0.40
32:2a:1323:G:H4'	32:2a:1363:C:C2	2.56	0.40
32:2a:1410:G:H2'	32:2a:1411:C:C6	2.57	0.40
33:2b:28:PHE:CD1	33:2b:194:PRO:HG3	2.40	0.40
33:2b:218:ALA:O	33:2b:222:ILE:HG13	2.22	0.40
36:2e:90:VAL:O	36:2e:91:LEU:HD12	2.22	0.40
37:2f:3:ARG:HG2	37:2f:66:GLU:HB2	2.04	0.40
43:2l:37:CYS:HB2	43:2l:81:SER:HB2	2.02	0.40
1:1A:194:G:C2	1:1A:202:U:H1'	2.56	0.40
1:1A:476:G:N1	1:1A:479:A:OP2	2.54	0.40
1:1A:738:G:C6	1:1A:739:G:C2	3.09	0.40
1:1A:1310:G:OP2	29:17:9:ARG:NE	2.50	0.40
1:1A:1665:A:H4'	10:1O:67:LYS:HB2	2.02	0.40
1:1A:2279:G:N7	22:10:14:ARG:NH1	2.70	0.40
3:1D:261:LYS:HZ1	3:1D:263:ARG:HB2	1.87	0.40
5:1F:178:PRO:HB2	5:1F:201:VAL:HG21	2.04	0.40
17:1V:43:GLU:OE1	17:1V:43:GLU:N	2.48	0.40
32:1a:627:G:O2'	32:1a:628:G:H5'	2.21	0.40
32:1a:689:C:OP1	42:1k:27:ASN:ND2	2.44	0.40
32:1a:1410:G:H2'	32:1a:1411:C:C6	2.56	0.40
33:1b:76:GLN:CD	33:1b:76:GLN:H	2.29	0.40
36:1e:33:VAL:HG13	36:1e:112:LEU:HD12	2.04	0.40
54:1w:54:5MU:C2	54:1w:58:A:N7	2.89	0.40
1:2A:142:A:N3	1:2A:1408:C:H1'	2.36	0.40
1:2A:142(A):C:O2	19:2X:37:THR:HG21	2.21	0.40
1:2A:348:G:H2'	1:2A:349:G:C8	2.57	0.40
1:2A:531:C:P	1:2A:561:G:H22	2.44	0.40
1:2A:587:C:H4'	1:2A:588:U:C6	2.57	0.40
1:2A:999:U:H5''	1:2A:1154:G:O6	2.21	0.40
1:2A:1372:U:H2'	1:2A:1373:A:O4'	2.21	0.40
1:2A:1839:G:C8	1:2A:1927:A:H1'	2.55	0.40
1:2A:2074:U:H2'	1:2A:2075:U:C6	2.57	0.40
1:2A:2572:A:N7	4:2E:145:LYS:HB2	2.37	0.40
1:2A:2623:G:H21	27:25:22:HIS:HE1	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:2778:A:H4'	1:2A:2779:U:OP2	2.22	0.40
1:2A:2820:A:HO2'	1:2A:2821:A:P	2.40	0.40
10:2O:101:PRO:HD3	15:2T:68:TYR:HB2	2.04	0.40
10:2O:120:GLU:HG3	32:2a:346:G:OP2	2.21	0.40
13:2R:12:ARG:O	13:2R:17:ARG:NH1	2.55	0.40
22:20:24:LYS:N	22:20:37:LEU:O	2.36	0.40
23:21:8:SER:HB3	23:21:66:HIS:NE2	2.37	0.40
32:2a:439:A:H2'	32:2a:441:A:O4'	2.21	0.40
32:2a:560:U:H6	32:2a:560:U:H2'	1.71	0.40
32:2a:1077:G:N2	32:2a:1079:G:H3'	2.36	0.40
33:2b:134:GLU:HA	33:2b:137:ARG:HG2	2.03	0.40
36:2e:144:THR:H	36:2e:147:ASP:HB2	1.86	0.40
41:2j:61:GLU:HG3	45:2n:58:LYS:NZ	2.35	0.40
54:2y:11:C:H2'	54:2y:12:U:H6	1.87	0.40
54:2y:42:G:H2'	54:2y:43:G:C8	2.56	0.40

There are no symmetry-related clashes.

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	
3	1D	273/276 (99%)	256 (94%)	16 (6%)	1 (0%)	30	48
3	2D	273/276 (99%)	256 (94%)	17 (6%)	0	100	100
4	1E	202/206 (98%)	188 (93%)	13 (6%)	1 (0%)	24	42
4	2E	202/206 (98%)	190 (94%)	10 (5%)	2 (1%)	12	25
5	1F	201/210 (96%)	196 (98%)	3 (2%)	2 (1%)	12	25
5	2F	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	24	42
6	1G	179/182 (98%)	166 (93%)	11 (6%)	2 (1%)	11	24
6	2G	179/182 (98%)	159 (89%)	18 (10%)	2 (1%)	11	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	1H	172/180 (96%)	163 (95%)	8 (5%)	1 (1%)	21	38
7	2H	172/180 (96%)	158 (92%)	11 (6%)	3 (2%)	7	16
8	1I	144/148 (97%)	130 (90%)	13 (9%)	1 (1%)	18	35
8	2I	144/148 (97%)	131 (91%)	12 (8%)	1 (1%)	18	35
9	1N	138/140 (99%)	132 (96%)	6 (4%)	0	100	100
9	2N	138/140 (99%)	133 (96%)	5 (4%)	0	100	100
10	1O	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
10	2O	120/122 (98%)	108 (90%)	12 (10%)	0	100	100
11	1P	147/150 (98%)	143 (97%)	4 (3%)	0	100	100
11	2P	147/150 (98%)	138 (94%)	9 (6%)	0	100	100
12	1Q	139/141 (99%)	130 (94%)	9 (6%)	0	100	100
12	2Q	139/141 (99%)	133 (96%)	6 (4%)	0	100	100
13	1R	116/118 (98%)	108 (93%)	8 (7%)	0	100	100
13	2R	116/118 (98%)	110 (95%)	6 (5%)	0	100	100
14	1S	108/112 (96%)	102 (94%)	5 (5%)	1 (1%)	14	28
14	2S	108/112 (96%)	101 (94%)	6 (6%)	1 (1%)	14	28
15	1T	129/146 (88%)	122 (95%)	6 (5%)	1 (1%)	16	31
15	2T	129/146 (88%)	120 (93%)	9 (7%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	112 (98%)	2 (2%)	0	100	100
17	1V	99/101 (98%)	91 (92%)	7 (7%)	1 (1%)	12	25
17	2V	99/101 (98%)	92 (93%)	5 (5%)	2 (2%)	6	13
18	1W	110/113 (97%)	105 (96%)	4 (4%)	1 (1%)	14	28
18	2W	110/113 (97%)	106 (96%)	4 (4%)	0	100	100
19	1X	93/96 (97%)	89 (96%)	4 (4%)	0	100	100
19	2X	93/96 (97%)	90 (97%)	3 (3%)	0	100	100
20	1Y	105/110 (96%)	97 (92%)	8 (8%)	0	100	100
20	2Y	105/110 (96%)	99 (94%)	5 (5%)	1 (1%)	12	25
21	1Z	148/206 (72%)	135 (91%)	12 (8%)	1 (1%)	18	35
21	2Z	156/206 (76%)	131 (84%)	22 (14%)	3 (2%)	6	14
22	10	81/85 (95%)	79 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	20	81/85 (95%)	75 (93%)	6 (7%)	0	100	100
23	11	95/98 (97%)	92 (97%)	2 (2%)	1 (1%)	11	24
23	21	95/98 (97%)	94 (99%)	1 (1%)	0	100	100
24	12	68/72 (94%)	66 (97%)	2 (3%)	0	100	100
24	22	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
25	13	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
25	23	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
26	14	67/71 (94%)	48 (72%)	15 (22%)	4 (6%)	1	2
26	24	67/71 (94%)	51 (76%)	13 (19%)	3 (4%)	2	3
27	15	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
27	25	57/60 (95%)	52 (91%)	5 (9%)	0	100	100
28	16	51/54 (94%)	47 (92%)	4 (8%)	0	100	100
28	26	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
29	17	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
29	27	46/49 (94%)	46 (100%)	0	0	100	100
30	18	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
30	28	62/65 (95%)	60 (97%)	2 (3%)	0	100	100
31	19	35/37 (95%)	32 (91%)	3 (9%)	0	100	100
31	29	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
33	1b	229/256 (90%)	195 (85%)	28 (12%)	6 (3%)	4	9
33	2b	229/256 (90%)	199 (87%)	24 (10%)	6 (3%)	4	9
34	1c	204/239 (85%)	189 (93%)	14 (7%)	1 (0%)	24	42
34	2c	204/239 (85%)	185 (91%)	18 (9%)	1 (0%)	24	42
35	1d	206/209 (99%)	193 (94%)	13 (6%)	0	100	100
35	2d	206/209 (99%)	195 (95%)	10 (5%)	1 (0%)	24	42
36	1e	146/162 (90%)	129 (88%)	14 (10%)	3 (2%)	5	13
36	2e	146/162 (90%)	134 (92%)	10 (7%)	2 (1%)	9	19
37	1f	98/101 (97%)	93 (95%)	5 (5%)	0	100	100
37	2f	98/101 (97%)	90 (92%)	8 (8%)	0	100	100
38	1g	153/156 (98%)	137 (90%)	13 (8%)	3 (2%)	6	13
38	2g	153/156 (98%)	142 (93%)	8 (5%)	3 (2%)	6	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	1h	135/138 (98%)	131 (97%)	4 (3%)	0	100	100
39	2h	135/138 (98%)	130 (96%)	5 (4%)	0	100	100
40	1i	125/128 (98%)	111 (89%)	14 (11%)	0	100	100
40	2i	125/128 (98%)	115 (92%)	9 (7%)	1 (1%)	16	31
41	1j	95/105 (90%)	83 (87%)	8 (8%)	4 (4%)	2	3
41	2j	94/105 (90%)	81 (86%)	8 (8%)	5 (5%)	1	2
42	1k	112/129 (87%)	106 (95%)	5 (4%)	1 (1%)	14	28
42	2k	112/129 (87%)	102 (91%)	8 (7%)	2 (2%)	6	15
43	1l	119/132 (90%)	113 (95%)	6 (5%)	0	100	100
43	2l	119/132 (90%)	114 (96%)	5 (4%)	0	100	100
44	1m	121/126 (96%)	113 (93%)	7 (6%)	1 (1%)	16	31
44	2m	120/126 (95%)	107 (89%)	11 (9%)	2 (2%)	7	16
45	1n	58/61 (95%)	54 (93%)	4 (7%)	0	100	100
45	2n	58/61 (95%)	52 (90%)	6 (10%)	0	100	100
46	1o	86/89 (97%)	82 (95%)	3 (4%)	1 (1%)	10	22
46	2o	86/89 (97%)	81 (94%)	4 (5%)	1 (1%)	10	22
47	1p	80/88 (91%)	72 (90%)	8 (10%)	0	100	100
47	2p	80/88 (91%)	74 (92%)	6 (8%)	0	100	100
48	1q	97/105 (92%)	92 (95%)	4 (4%)	1 (1%)	12	25
48	2q	97/105 (92%)	92 (95%)	5 (5%)	0	100	100
49	1r	66/88 (75%)	62 (94%)	4 (6%)	0	100	100
49	2r	66/88 (75%)	66 (100%)	0	0	100	100
50	1s	81/93 (87%)	74 (91%)	6 (7%)	1 (1%)	10	22
50	2s	81/93 (87%)	73 (90%)	8 (10%)	0	100	100
51	1t	94/106 (89%)	86 (92%)	5 (5%)	3 (3%)	3	7
51	2t	94/106 (89%)	80 (85%)	7 (7%)	7 (7%)	1	1
52	1u	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
52	2u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
All	All	11370/12128 (94%)	10568 (93%)	709 (6%)	93 (1%)	16	31

All (93) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
7	1H	126	PRO
26	14	55	ARG
41	1j	56	HIS
5	2F	89	VAL
26	24	55	ARG
33	2b	125	PRO
44	2m	5	ALA
51	2t	100	ILE
14	1S	94	TYR
15	1T	128	GLU
26	14	58	ARG
33	1b	17	PHE
33	1b	21	ARG
33	1b	165	VAL
50	1s	81	ARG
6	2G	47	LYS
7	2H	126	PRO
14	2S	96	GLY
17	2V	100	ARG
21	2Z	31	ARG
33	2b	128	GLU
36	2e	85	GLY
38	2g	82	GLY
41	2j	75	ILE
41	2j	79	ARG
44	2m	104	ARG
51	2t	10	LEU
51	2t	96	GLY
6	1G	47	LYS
17	1V	53	GLU
18	1W	11	ARG
21	1Z	165	VAL
26	14	53	GLU
36	1e	86	ALA
41	1j	75	ILE
41	1j	78	ASN
48	1q	68	ARG
51	1t	100	ILE
17	2V	24	LYS
21	2Z	142	SER
33	2b	9	GLU
36	2e	77	PRO
41	2j	55	LYS

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Mol	Chain	Res	Type
4	1E	52	LEU
5	1F	130	ALA
23	11	3	LYS
26	14	64	GLY
33	1b	9	GLU
33	1b	20	GLU
36	1e	85	GLY
38	1g	4	ARG
4	2E	113	PHE
7	2H	12	PRO
7	2H	47	GLU
8	2I	39	ALA
20	2Y	106	LEU
33	2b	74	LYS
33	2b	124	SER
41	2j	29	ARG
41	2j	78	ASN
42	2k	54	ARG
51	2t	102	GLY
3	1D	200	ASP
6	1G	43	LEU
8	1I	11	ASN
33	1b	125	PRO
38	1g	114	ARG
41	1j	55	LYS
44	1m	67	GLU
51	1t	47	GLY
51	1t	96	GLY
21	2Z	79	ARG
26	24	47	GLN
38	2g	54	THR
40	2i	56	LEU
51	2t	9	ASN
51	2t	47	GLY
51	2t	68	LYS
4	2E	52	LEU
26	24	64	GLY
33	2b	189	ASP
34	2c	66	VAL
34	1c	66	VAL
36	1e	69	VAL
38	2g	80	VAL

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Mol	Chain	Res	Type
38	1g	80	VAL
46	2o	20	GLY
5	1F	89	VAL
42	1k	105	VAL
46	1o	20	GLY
6	2G	24	GLY
42	2k	49	GLY
35	2d	5	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	215/218 (99%)	204 (95%)	11 (5%)	21	43
3	2D	215/218 (99%)	206 (96%)	9 (4%)	26	51
4	1E	164/166 (99%)	149 (91%)	15 (9%)	9	19
4	2E	164/166 (99%)	149 (91%)	15 (9%)	9	19
5	1F	160/166 (96%)	141 (88%)	19 (12%)	5	10
5	2F	159/166 (96%)	143 (90%)	16 (10%)	7	15
6	1G	143/156 (92%)	134 (94%)	9 (6%)	16	34
6	2G	143/156 (92%)	132 (92%)	11 (8%)	12	25
7	1H	144/148 (97%)	131 (91%)	13 (9%)	9	19
7	2H	144/148 (97%)	139 (96%)	5 (4%)	32	57
8	1I	113/124 (91%)	101 (89%)	12 (11%)	6	13
8	2I	105/124 (85%)	96 (91%)	9 (9%)	10	21
9	1N	118/119 (99%)	109 (92%)	9 (8%)	12	26
9	2N	118/119 (99%)	106 (90%)	12 (10%)	7	15
10	1O	100/100 (100%)	95 (95%)	5 (5%)	22	44
10	2O	100/100 (100%)	96 (96%)	4 (4%)	28	53
11	1P	115/116 (99%)	107 (93%)	8 (7%)	14	29

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	2P	115/116 (99%)	108 (94%)	7 (6%)	17	35
12	1Q	111/111 (100%)	105 (95%)	6 (5%)	20	42
12	2Q	111/111 (100%)	107 (96%)	4 (4%)	31	56
13	1R	101/101 (100%)	91 (90%)	10 (10%)	7	16
13	2R	101/101 (100%)	94 (93%)	7 (7%)	14	30
14	1S	86/88 (98%)	80 (93%)	6 (7%)	14	29
14	2S	85/88 (97%)	79 (93%)	6 (7%)	13	28
15	1T	115/127 (91%)	106 (92%)	9 (8%)	11	25
15	2T	113/127 (89%)	108 (96%)	5 (4%)	25	49
16	1U	93/94 (99%)	88 (95%)	5 (5%)	20	42
16	2U	93/94 (99%)	90 (97%)	3 (3%)	34	59
17	1V	80/82 (98%)	71 (89%)	9 (11%)	5	11
17	2V	80/82 (98%)	77 (96%)	3 (4%)	29	54
18	1W	90/92 (98%)	85 (94%)	5 (6%)	19	40
18	2W	90/92 (98%)	87 (97%)	3 (3%)	33	58
19	1X	77/78 (99%)	74 (96%)	3 (4%)	28	54
19	2X	77/78 (99%)	73 (95%)	4 (5%)	21	43
20	1Y	85/91 (93%)	77 (91%)	8 (9%)	8	18
20	2Y	85/91 (93%)	79 (93%)	6 (7%)	13	28
21	1Z	135/179 (75%)	121 (90%)	14 (10%)	7	14
21	2Z	137/179 (76%)	130 (95%)	7 (5%)	21	43
22	10	65/67 (97%)	59 (91%)	6 (9%)	8	19
22	20	65/67 (97%)	63 (97%)	2 (3%)	35	60
23	11	80/83 (96%)	74 (92%)	6 (8%)	12	26
23	21	80/83 (96%)	75 (94%)	5 (6%)	16	34
24	12	65/67 (97%)	63 (97%)	2 (3%)	35	60
24	22	65/67 (97%)	65 (100%)	0	100	100
25	13	51/52 (98%)	50 (98%)	1 (2%)	48	71
25	23	50/52 (96%)	48 (96%)	2 (4%)	28	53
26	14	59/63 (94%)	55 (93%)	4 (7%)	14	30
26	24	53/63 (84%)	49 (92%)	4 (8%)	12	26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
27	15	50/52 (96%)	46 (92%)	4 (8%)	11	24
27	25	50/52 (96%)	46 (92%)	4 (8%)	11	24
28	16	51/52 (98%)	49 (96%)	2 (4%)	28	54
28	26	50/52 (96%)	45 (90%)	5 (10%)	7	16
29	17	41/42 (98%)	38 (93%)	3 (7%)	13	27
29	27	41/42 (98%)	37 (90%)	4 (10%)	7	16
30	18	54/55 (98%)	50 (93%)	4 (7%)	13	26
30	28	54/55 (98%)	47 (87%)	7 (13%)	4	7
31	19	34/34 (100%)	33 (97%)	1 (3%)	37	61
31	29	34/34 (100%)	33 (97%)	1 (3%)	37	61
33	1b	192/220 (87%)	180 (94%)	12 (6%)	16	34
33	2b	187/220 (85%)	169 (90%)	18 (10%)	8	17
34	1c	142/188 (76%)	129 (91%)	13 (9%)	8	19
34	2c	140/188 (74%)	131 (94%)	9 (6%)	16	33
35	1d	169/181 (93%)	154 (91%)	15 (9%)	9	20
35	2d	173/181 (96%)	163 (94%)	10 (6%)	18	38
36	1e	113/123 (92%)	102 (90%)	11 (10%)	8	17
36	2e	114/123 (93%)	107 (94%)	7 (6%)	17	35
37	1f	84/90 (93%)	80 (95%)	4 (5%)	23	46
37	2f	85/90 (94%)	81 (95%)	4 (5%)	23	47
38	1g	119/127 (94%)	112 (94%)	7 (6%)	18	37
38	2g	120/127 (94%)	113 (94%)	7 (6%)	18	38
39	1h	114/119 (96%)	106 (93%)	8 (7%)	14	29
39	2h	114/119 (96%)	106 (93%)	8 (7%)	14	29
40	1i	90/99 (91%)	84 (93%)	6 (7%)	15	31
40	2i	89/99 (90%)	85 (96%)	4 (4%)	24	48
41	1j	66/92 (72%)	59 (89%)	7 (11%)	6	13
41	2j	69/92 (75%)	65 (94%)	4 (6%)	18	38
42	1k	82/99 (83%)	76 (93%)	6 (7%)	13	27
42	2k	83/99 (84%)	77 (93%)	6 (7%)	13	28
43	1l	96/108 (89%)	89 (93%)	7 (7%)	13	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
43	2l	96/108 (89%)	91 (95%)	5 (5%)	21	43
44	1m	93/101 (92%)	88 (95%)	5 (5%)	20	42
44	2m	92/101 (91%)	87 (95%)	5 (5%)	20	42
45	1n	49/50 (98%)	44 (90%)	5 (10%)	7	15
45	2n	49/50 (98%)	43 (88%)	6 (12%)	5	9
46	1o	78/80 (98%)	76 (97%)	2 (3%)	40	65
46	2o	78/80 (98%)	73 (94%)	5 (6%)	16	33
47	1p	69/74 (93%)	65 (94%)	4 (6%)	18	38
47	2p	68/74 (92%)	62 (91%)	6 (9%)	9	20
48	1q	94/97 (97%)	90 (96%)	4 (4%)	26	50
48	2q	94/97 (97%)	90 (96%)	4 (4%)	26	50
49	1r	59/77 (77%)	57 (97%)	2 (3%)	32	58
49	2r	59/77 (77%)	54 (92%)	5 (8%)	10	22
50	1s	69/80 (86%)	60 (87%)	9 (13%)	4	7
50	2s	67/80 (84%)	60 (90%)	7 (10%)	7	14
51	1t	70/82 (85%)	70 (100%)	0	100	100
51	2t	70/82 (85%)	66 (94%)	4 (6%)	18	39
52	1u	18/22 (82%)	17 (94%)	1 (6%)	19	40
52	2u	18/22 (82%)	17 (94%)	1 (6%)	19	40
All	All	9303/10064 (92%)	8671 (93%)	632 (7%)	14	30

All (632) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	3	VAL
3	1D	10	THR
3	1D	61	LEU
3	1D	138	VAL
3	1D	142	VAL
3	1D	155	LEU
3	1D	193	VAL
3	1D	206	LEU
3	1D	221	VAL
3	1D	229	VAL
3	1D	242	ARG

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Mol	Chain	Res	Type
4	1E	2	LYS
4	1E	12	THR
4	1E	14	ILE
4	1E	21	VAL
4	1E	24	THR
4	1E	33	VAL
4	1E	34	VAL
4	1E	47	VAL
4	1E	81	ILE
4	1E	116	VAL
4	1E	128	SER
4	1E	134	ILE
4	1E	175	VAL
4	1E	181	LEU
4	1E	195	LEU
5	1F	33	LEU
5	1F	48	THR
5	1F	53	THR
5	1F	57	VAL
5	1F	64	ILE
5	1F	70	THR
5	1F	88	VAL
5	1F	93	LYS
5	1F	106	ARG
5	1F	140	LEU
5	1F	144	LYS
5	1F	168	ARG
5	1F	170	LEU
5	1F	175	THR
5	1F	183	VAL
5	1F	192	LEU
5	1F	197	ASP
5	1F	201	VAL
5	1F	203	GLN
6	1G	3	LEU
6	1G	27	ASN
6	1G	31	VAL
6	1G	43	LEU
6	1G	70	VAL
6	1G	82	LEU
6	1G	92	VAL
6	1G	145	THR

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Mol	Chain	Res	Type
6	1G	159	VAL
7	1H	7	LEU
7	1H	15	VAL
7	1H	42	ARG
7	1H	49	VAL
7	1H	70	THR
7	1H	71	LEU
7	1H	90	LYS
7	1H	122	THR
7	1H	124	GLU
7	1H	125	VAL
7	1H	129	THR
7	1H	134	SER
7	1H	149	ARG
8	1I	12	LEU
8	1I	15	VAL
8	1I	20	ASP
8	1I	38	LEU
8	1I	75	LEU
8	1I	78	THR
8	1I	86	THR
8	1I	92	VAL
8	1I	101	LEU
8	1I	123	LEU
8	1I	136	VAL
8	1I	140	LEU
9	1N	14	VAL
9	1N	28	THR
9	1N	46	VAL
9	1N	48	MET
9	1N	71	ILE
9	1N	87	LEU
9	1N	99	LEU
9	1N	138	LEU
9	1N	140	VAL
10	1O	10	VAL
10	1O	75	SER
10	1O	80	ASP
10	1O	94	ARG
10	1O	98	VAL
11	1P	3	LEU
11	1P	57	THR

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Mol	Chain	Res	Type
11	1P	65	ARG
11	1P	70	GLN
11	1P	83	VAL
11	1P	95	VAL
11	1P	125	VAL
11	1P	147	LEU
12	1Q	8	LYS
12	1Q	35	VAL
12	1Q	75	THR
12	1Q	109	VAL
12	1Q	128	LYS
12	1Q	138	ASP
13	1R	2	ARG
13	1R	28	LEU
13	1R	29	LEU
13	1R	36	THR
13	1R	44	LEU
13	1R	54	LEU
13	1R	65	LEU
13	1R	67	LEU
13	1R	111	LEU
13	1R	114	VAL
14	1S	3	ARG
14	1S	14	VAL
14	1S	21	THR
14	1S	46	VAL
14	1S	53	SER
14	1S	69	VAL
15	1T	6	LEU
15	1T	21	GLU
15	1T	28	VAL
15	1T	30	VAL
15	1T	49	VAL
15	1T	82	LEU
15	1T	89	VAL
15	1T	95	ARG
15	1T	96	ARG
16	1U	17	ILE
16	1U	77	SER
16	1U	78	THR
16	1U	83	LEU
16	1U	95	LEU

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Mol	Chain	Res	Type
17	1V	46	VAL
17	1V	51	VAL
17	1V	52	VAL
17	1V	57	VAL
17	1V	61	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	79	VAL
17	1V	82	ARG
18	1W	6	ILE
18	1W	17	VAL
18	1W	19	LEU
18	1W	96	ILE
18	1W	107	LEU
19	1X	27	THR
19	1X	50	LYS
19	1X	80	ILE
20	1Y	1	MET
20	1Y	7	VAL
20	1Y	11	ASP
20	1Y	12	THR
20	1Y	37	VAL
20	1Y	49	VAL
20	1Y	72	VAL
20	1Y	107	ASP
21	1Z	18	LEU
21	1Z	33	LEU
21	1Z	39	VAL
21	1Z	41	LEU
21	1Z	70	LEU
21	1Z	75	ASN
21	1Z	76	LEU
21	1Z	123	ASP
21	1Z	135	GLU
21	1Z	140	ASP
21	1Z	146	ILE
21	1Z	154	ASP
21	1Z	165	VAL
21	1Z	170	THR
22	10	10	THR
22	10	36	ILE
22	10	37	LEU

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Mol	Chain	Res	Type
22	10	39	ARG
22	10	43	THR
22	10	72	ARG
23	11	11	ARG
23	11	35	THR
23	11	38	SER
23	11	40	ARG
23	11	59	THR
23	11	95	LEU
24	12	3	LEU
24	12	7	ARG
25	13	34	GLU
26	14	27	THR
26	14	46	GLN
26	14	52	THR
26	14	58	ARG
27	15	6	VAL
27	15	16	ARG
27	15	29	THR
27	15	57	VAL
28	16	9	LEU
28	16	48	VAL
29	17	39	ARG
29	17	43	THR
29	17	46	VAL
30	18	14	VAL
30	18	32	LEU
30	18	52	LYS
30	18	59	LYS
31	19	6	SER
33	1b	21	ARG
33	1b	49	GLU
33	1b	67	THR
33	1b	87	ARG
33	1b	94	ASN
33	1b	108	ILE
33	1b	112	VAL
33	1b	117	GLU
33	1b	160	ASP
33	1b	168	THR
33	1b	170	GLU
33	1b	197	VAL

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Mol	Chain	Res	Type
34	1c	3	ASN
34	1c	5	ILE
34	1c	15	THR
34	1c	28	GLN
34	1c	36	ASP
34	1c	39	ILE
34	1c	49	SER
34	1c	57	ILE
34	1c	116	VAL
34	1c	152	ILE
34	1c	165	THR
34	1c	175	LEU
34	1c	206	GLU
35	1d	5	ILE
35	1d	26	CYS
35	1d	59	ARG
35	1d	71	SER
35	1d	76	ARG
35	1d	101	LEU
35	1d	107	ARG
35	1d	127	THR
35	1d	135	LEU
35	1d	137	SER
35	1d	139	ARG
35	1d	146	ILE
35	1d	155	LEU
35	1d	188	LEU
35	1d	194	LEU
36	1e	16	THR
36	1e	27	ARG
36	1e	31	LEU
36	1e	41	VAL
36	1e	47	LYS
36	1e	68	GLU
36	1e	75	THR
36	1e	83	GLU
36	1e	100	VAL
36	1e	118	ILE
36	1e	120	THR
37	1f	21	LEU
37	1f	43	LEU
37	1f	73	ASN

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Mol	Chain	Res	Type
37	1f	91	VAL
38	1g	20	ASP
38	1g	61	VAL
38	1g	75	VAL
38	1g	79	ARG
38	1g	91	VAL
38	1g	113	GLU
38	1g	141	VAL
39	1h	14	ARG
39	1h	17	THR
39	1h	79	VAL
39	1h	82	HIS
39	1h	83	ILE
39	1h	109	ILE
39	1h	133	LEU
39	1h	137	VAL
40	1i	27	THR
40	1i	56	LEU
40	1i	64	THR
40	1i	87	GLN
40	1i	108	VAL
40	1i	111	ARG
41	1j	8	LEU
41	1j	15	THR
41	1j	49	VAL
41	1j	81	THR
41	1j	94	VAL
41	1j	96	ILE
41	1j	98	ILE
42	1k	16	SER
42	1k	18	ARG
42	1k	48	ILE
42	1k	81	ASP
42	1k	114	VAL
42	1k	120	ARG
43	1l	39	VAL
43	1l	40	VAL
43	1l	44	THR
43	1l	52	LEU
43	1l	58	VAL
43	1l	85	ILE
43	1l	117	ARG

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Mol	Chain	Res	Type
44	1m	17	VAL
44	1m	43	THR
44	1m	86	CYS
44	1m	98	VAL
44	1m	109	THR
45	1n	18	VAL
45	1n	22	THR
45	1n	33	VAL
45	1n	44	LEU
45	1n	58	LYS
46	1o	39	LEU
46	1o	87	ILE
47	1p	1	MET
47	1p	2	VAL
47	1p	20	VAL
47	1p	67	THR
48	1q	9	VAL
48	1q	11	VAL
48	1q	36	ILE
48	1q	53	LEU
49	1r	31	LEU
49	1r	54	ARG
50	1s	12	ASP
50	1s	14	HIS
50	1s	30	LEU
50	1s	33	THR
50	1s	39	THR
50	1s	41	VAL
50	1s	48	THR
50	1s	66	MET
50	1s	77	THR
52	1u	17	THR
3	2D	10	THR
3	2D	115	GLN
3	2D	138	VAL
3	2D	142	VAL
3	2D	193	VAL
3	2D	200	ASP
3	2D	229	VAL
3	2D	242	ARG
3	2D	271	ILE
4	2E	9	VAL

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Mol	Chain	Res	Type
4	2E	12	THR
4	2E	21	VAL
4	2E	27	LEU
4	2E	38	THR
4	2E	45	THR
4	2E	55	ASN
4	2E	59	VAL
4	2E	76	ARG
4	2E	93	VAL
4	2E	116	VAL
4	2E	119	ARG
4	2E	134	ILE
4	2E	175	VAL
4	2E	195	LEU
5	2F	12	LEU
5	2F	24	LEU
5	2F	53	THR
5	2F	57	VAL
5	2F	70	THR
5	2F	78	ILE
5	2F	88	VAL
5	2F	106	ARG
5	2F	125	LEU
5	2F	153	SER
5	2F	158	THR
5	2F	170	LEU
5	2F	183	VAL
5	2F	191	ARG
5	2F	197	ASP
5	2F	201	VAL
6	2G	3	LEU
6	2G	5	VAL
6	2G	43	LEU
6	2G	79	ASN
6	2G	109	VAL
6	2G	130	ASN
6	2G	145	THR
6	2G	150	ASP
6	2G	152	LEU
6	2G	161	THR
6	2G	165	THR
7	2H	15	VAL

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Mol	Chain	Res	Type
7	2H	67	LEU
7	2H	105	LEU
7	2H	107	VAL
7	2H	134	SER
8	2I	15	VAL
8	2I	38	LEU
8	2I	42	SER
8	2I	77	LEU
8	2I	120	ILE
8	2I	123	LEU
8	2I	125	GLU
8	2I	127	VAL
8	2I	144	VAL
9	2N	28	THR
9	2N	32	THR
9	2N	34	LEU
9	2N	43	THR
9	2N	46	VAL
9	2N	55	VAL
9	2N	60	ILE
9	2N	73	THR
9	2N	112	LEU
9	2N	121	LYS
9	2N	127	ASP
9	2N	139	GLU
10	2O	9	GLU
10	2O	63	VAL
10	2O	89	ASN
10	2O	116	SER
11	2P	42	SER
11	2P	45	LEU
11	2P	75	ILE
11	2P	95	VAL
11	2P	99	LEU
11	2P	136	GLU
11	2P	148	LEU
12	2Q	75	THR
12	2Q	102	VAL
12	2Q	110	THR
12	2Q	139	GLU
13	2R	24	GLN
13	2R	29	LEU

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Mol	Chain	Res	Type
13	2R	35	THR
13	2R	44	LEU
13	2R	67	LEU
13	2R	86	ARG
13	2R	100	LEU
14	2S	4	LEU
14	2S	5	THR
14	2S	8	GLU
14	2S	48	LEU
14	2S	53	SER
14	2S	110	LEU
15	2T	10	VAL
15	2T	57	PHE
15	2T	67	SER
15	2T	74	ARG
15	2T	88	ILE
16	2U	17	ILE
16	2U	83	LEU
16	2U	114	LYS
17	2V	7	THR
17	2V	51	VAL
17	2V	79	VAL
18	2W	17	VAL
18	2W	23	LEU
18	2W	49	LYS
19	2X	50	LYS
19	2X	52	VAL
19	2X	70	LEU
19	2X	75	ASP
20	2Y	1	MET
20	2Y	8	LYS
20	2Y	72	VAL
20	2Y	90	LEU
20	2Y	99	CYS
20	2Y	107	ASP
21	2Z	24	LEU
21	2Z	123	ASP
21	2Z	124	ILE
21	2Z	141	VAL
21	2Z	154	ASP
21	2Z	170	THR
21	2Z	174	VAL

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Mol	Chain	Res	Type
22	20	53	MET
22	20	67	VAL
23	21	3	LYS
23	21	11	ARG
23	21	35	THR
23	21	74	VAL
23	21	80	LEU
25	23	31	LEU
25	23	54	VAL
26	24	3	GLU
26	24	26	SER
26	24	37	SER
26	24	52	THR
27	25	6	VAL
27	25	26	THR
27	25	40	LYS
27	25	58	LEU
28	26	9	LEU
28	26	14	THR
28	26	30	THR
28	26	32	ASN
28	26	47	THR
29	27	4	THR
29	27	41	ARG
29	27	43	THR
29	27	46	VAL
30	28	14	VAL
30	28	30	ARG
30	28	32	LEU
30	28	37	SER
30	28	49	VAL
30	28	57	ARG
30	28	62	LEU
31	29	10	ILE
33	2b	7	VAL
33	2b	22	LYS
33	2b	79	ASP
33	2b	94	ASN
33	2b	108	ILE
33	2b	112	VAL
33	2b	121	LEU
33	2b	124	SER

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Mol	Chain	Res	Type
33	2b	127	ILE
33	2b	136	VAL
33	2b	154	LEU
33	2b	158	LEU
33	2b	164	VAL
33	2b	185	ILE
33	2b	189	ASP
33	2b	192	SER
33	2b	209	ARG
33	2b	233	SER
34	2c	5	ILE
34	2c	47	LEU
34	2c	115	LEU
34	2c	144	SER
34	2c	154	SER
34	2c	173	VAL
34	2c	182	ILE
34	2c	193	TYR
34	2c	195	VAL
35	2d	9	CYS
35	2d	83	SER
35	2d	85	LYS
35	2d	108	LEU
35	2d	118	ARG
35	2d	119	GLN
35	2d	135	LEU
35	2d	170	VAL
35	2d	188	LEU
35	2d	194	LEU
36	2e	41	VAL
36	2e	55	VAL
36	2e	82	VAL
36	2e	87	SER
36	2e	111	GLU
36	2e	115	VAL
36	2e	120	THR
37	2f	37	VAL
37	2f	48	LEU
37	2f	61	LEU
37	2f	83	ASP
38	2g	10	ARG
38	2g	52	GLU

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Mol	Chain	Res	Type
38	2g	69	VAL
38	2g	75	VAL
38	2g	79	ARG
38	2g	90	GLU
38	2g	104	LEU
39	2h	3	THR
39	2h	23	SER
39	2h	63	LEU
39	2h	83	ILE
39	2h	109	ILE
39	2h	118	VAL
39	2h	135	CYS
39	2h	137	VAL
40	2i	65	VAL
40	2i	102	LEU
40	2i	105	ASP
40	2i	109	VAL
41	2j	56	HIS
41	2j	59	SER
41	2j	68	HIS
41	2j	89	ASP
42	2k	16	SER
42	2k	24	SER
42	2k	33	THR
42	2k	48	ILE
42	2k	109	VAL
42	2k	119	CYS
43	2l	27	LEU
43	2l	55	VAL
43	2l	67	THR
43	2l	113	ARG
43	2l	122	THR
44	2m	34	LEU
44	2m	47	ASP
44	2m	55	ARG
44	2m	77	ASN
44	2m	103	THR
45	2n	6	LEU
45	2n	15	LYS
45	2n	22	THR
45	2n	33	VAL
45	2n	44	LEU

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Mol	Chain	Res	Type
45	2n	49	HIS
46	2o	4	THR
46	2o	5	LYS
46	2o	21	ASP
46	2o	39	LEU
46	2o	65	ARG
47	2p	2	VAL
47	2p	20	VAL
47	2p	21	VAL
47	2p	44	THR
47	2p	62	VAL
47	2p	67	THR
48	2q	12	SER
48	2q	19	VAL
48	2q	65	ILE
48	2q	77	VAL
49	2r	31	LEU
49	2r	37	VAL
49	2r	54	ARG
49	2r	66	LEU
49	2r	76	LEU
50	2s	33	THR
50	2s	39	THR
50	2s	65	ASN
50	2s	66	MET
50	2s	71	LEU
50	2s	77	THR
50	2s	83	HIS
51	2t	24	LEU
51	2t	55	ILE
51	2t	71	THR
51	2t	99	LEU
52	2u	7	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (123) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	116	GLN
3	1D	143	HIS
3	1D	201	HIS
4	1E	121	ASN
5	1F	69	HIS

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Mol	Chain	Res	Type
5	1F	75	HIS
5	1F	204	ASN
6	1G	27	ASN
6	1G	40	ASN
6	1G	58	GLN
6	1G	79	ASN
8	1I	139	GLN
9	1N	69	GLN
9	1N	133	GLN
11	1P	27	HIS
12	1Q	123	HIS
13	1R	31	HIS
13	1R	71	GLN
14	1S	38	GLN
15	1T	58	ASN
16	1U	94	ASN
17	1V	80	GLN
18	1W	60	ASN
20	1Y	6	HIS
21	1Z	32	HIS
21	1Z	34	ASN
22	10	29	GLN
24	12	65	ASN
26	14	40	HIS
26	14	47	GLN
30	18	35	GLN
31	19	36	GLN
33	1b	40	HIS
33	1b	78	GLN
33	1b	94	ASN
33	1b	212	GLN
34	1c	110	ASN
34	1c	162	GLN
36	1e	78	HIS
36	1e	130	ASN
37	1f	7	ASN
37	1f	73	ASN
37	1f	100	ASN
38	1g	28	ASN
38	1g	64	GLN
38	1g	86	GLN
39	1h	78	GLN

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Mol	Chain	Res	Type
40	1i	3	GLN
40	1i	31	GLN
40	1i	58	HIS
40	1i	87	GLN
40	1i	117	HIS
40	1i	124	GLN
41	1j	21	GLN
44	1m	92	HIS
46	1o	46	HIS
46	1o	51	HIS
47	1p	13	HIS
47	1p	16	HIS
49	1r	36	ASN
50	1s	14	HIS
50	1s	23	ASN
50	1s	47	HIS
51	1t	75	ASN
3	2D	116	GLN
3	2D	166	GLN
4	2E	180	ASN
6	2G	58	GLN
8	2I	11	ASN
8	2I	104	GLN
8	2I	105	HIS
10	2O	89	ASN
12	2Q	89	ASN
12	2Q	123	HIS
13	2R	61	HIS
13	2R	71	GLN
16	2U	44	ASN
16	2U	71	GLN
16	2U	81	HIS
16	2U	94	ASN
17	2V	87	HIS
18	2W	60	ASN
18	2W	62	HIS
19	2X	31	HIS
21	2Z	32	HIS
22	20	29	GLN
22	20	35	ASN
24	22	65	ASN
25	23	32	GLN

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Mol	Chain	Res	Type
28	26	32	ASN
30	28	35	GLN
31	29	34	GLN
33	2b	212	GLN
34	2c	31	HIS
34	2c	104	GLN
34	2c	108	ASN
34	2c	162	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	119	GLN
35	2d	123	HIS
35	2d	125	HIS
36	2e	72	GLN
36	2e	78	HIS
36	2e	130	ASN
37	2f	32	ASN
37	2f	100	ASN
38	2g	122	HIS
40	2i	23	ASN
40	2i	34	ASN
40	2i	38	GLN
40	2i	73	GLN
40	2i	117	HIS
41	2j	21	GLN
44	2m	62	ASN
44	2m	77	ASN
46	2o	62	GLN
47	2p	16	HIS
48	2q	45	HIS
49	2r	63	GLN
50	2s	23	ASN
50	2s	69	HIS
51	2t	42	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2864/2915 (98%)	492 (17%)	23 (0%)
1	2A	2791/2915 (95%)	540 (19%)	19 (0%)
2	1B	119/121 (98%)	10 (8%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	2B	118/121 (97%)	33 (27%)	0
32	1a	1497/1521 (98%)	276 (18%)	0
32	2a	1501/1521 (98%)	321 (21%)	0
53	1v	12/27 (44%)	2 (16%)	0
53	2v	12/27 (44%)	4 (33%)	0
54	1w	70/76 (92%)	25 (35%)	0
54	1y	72/76 (94%)	25 (34%)	0
54	2w	70/76 (92%)	29 (41%)	0
54	2y	70/76 (92%)	33 (47%)	0
55	1x	75/77 (97%)	11 (14%)	0
55	2x	75/77 (97%)	15 (20%)	0
All	All	9346/9626 (97%)	1816 (19%)	42 (0%)

All (1816) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	10	G
1	1A	34	C
1	1A	45	C
1	1A	58	G
1	1A	59	U
1	1A	63	U
1	1A	71	A
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	92	A
1	1A	95	G
1	1A	118	A
1	1A	119	A
1	1A	120	U
1	1A	125	G
1	1A	177	G
1	1A	182	A
1	1A	184	C
1	1A	196	A
1	1A	199	A
1	1A	201	C
1	1A	205	G
1	1A	214	G
1	1A	216	A
1	1A	222	A

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Mol	Chain	Res	Type
1	1A	225	A
1	1A	228	A
1	1A	229	A
1	1A	230	U
1	1A	233	A
1	1A	248	G
1	1A	269	U
1	1A	271(E)	U
1	1A	271(G)	C
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(N)	U
1	1A	271(O)	C
1	1A	271(R)	G
1	1A	272(A)	U
1	1A	272(B)	G
1	1A	279	C
1	1A	311	A
1	1A	329	G
1	1A	330	A
1	1A	336	C
1	1A	342	G
1	1A	352	G
1	1A	363	G
1	1A	363(B)	G
1	1A	372	G
1	1A	386	G
1	1A	396	G
1	1A	404	C
1	1A	405	U
1	1A	411	G
1	1A	412	A
1	1A	418	G
1	1A	428	A
1	1A	433	C
1	1A	443	A
1	1A	444	C
1	1A	446	G
1	1A	448	U
1	1A	449	A
1	1A	457	A
1	1A	481	G

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Mol	Chain	Res	Type
1	1A	504	U
1	1A	505	A
1	1A	509	C
1	1A	528	A
1	1A	530	G
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	555	U
1	1A	563	G
1	1A	573	G
1	1A	575	A
1	1A	594	U
1	1A	603	A
1	1A	604	G
1	1A	607	U
1	1A	614(B)	G
1	1A	615	G
1	1A	616	G
1	1A	627	A
1	1A	637	A
1	1A	645	C
1	1A	646	A
1	1A	652(A)	A
1	1A	652(E)	G
1	1A	652(T)	C
1	1A	668	G
1	1A	669	G
1	1A	686	G
1	1A	702	G
1	1A	717	G
1	1A	728	G
1	1A	730	C
1	1A	757	U
1	1A	764	A
1	1A	775	G
1	1A	776	G
1	1A	782	A
1	1A	784	A
1	1A	785	G

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Mol	Chain	Res	Type
1	1A	789	A
1	1A	790	C
1	1A	792	G
1	1A	805	G
1	1A	812	C
1	1A	819	A
1	1A	825	C
1	1A	827	U
1	1A	828	U
1	1A	830	G
1	1A	855	G
1	1A	859	G
1	1A	866	A
1	1A	879	G
1	1A	880	G
1	1A	883	G
1	1A	884	C
1	1A	885	C
1	1A	887	A
1	1A	888	C
1	1A	889	C
1	1A	890	A
1	1A	894	C
1	1A	895	U
1	1A	896	A
1	1A	897	C
1	1A	907	U
1	1A	910	A
1	1A	911	A
1	1A	927	G
1	1A	931	G
1	1A	932	G
1	1A	934	G
1	1A	935	C
1	1A	945	A
1	1A	946	G
1	1A	953	A
1	1A	957	A
1	1A	959	A
1	1A	961	C
1	1A	967	C
1	1A	974	G

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Mol	Chain	Res	Type
1	1A	975	C
1	1A	975(A)	G
1	1A	983	A
1	1A	996	A
1	1A	1012	U
1	1A	1013	C
1	1A	1025	G
1	1A	1026	U
1	1A	1027	A
1	1A	1033	U
1	1A	1041	C
1	1A	1044	G
1	1A	1046	A
1	1A	1047	G
1	1A	1048	A
1	1A	1050	A
1	1A	1054	A
1	1A	1055	G
1	1A	1058	G
1	1A	1059	G
1	1A	1066	U
1	1A	1068	G
1	1A	1071	G
1	1A	1073	A
1	1A	1074	G
1	1A	1075	C
1	1A	1076	C
1	1A	1078	U
1	1A	1079	C
1	1A	1080	C
1	1A	1081	U
1	1A	1083	U
1	1A	1085	A
1	1A	1088	A
1	1A	1089	G
1	1A	1090	U
1	1A	1094	U
1	1A	1095	A
1	1A	1097	U
1	1A	1098	A
1	1A	1100	C
1	1A	1101	U

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Mol	Chain	Res	Type
1	1A	1103	A
1	1A	1107	G
1	1A	1111	A
1	1A	1112	G
1	1A	1127	A
1	1A	1128	A
1	1A	1130	U
1	1A	1135	C
1	1A	1136	G
1	1A	1156	A
1	1A	1170	G
1	1A	1171	G
1	1A	1173	G
1	1A	1174	A
1	1A	1175	U
1	1A	1176	G
1	1A	1177	A
1	1A	1178	C
1	1A	1202	C
1	1A	1211	U
1	1A	1218	C
1	1A	1236	G
1	1A	1241	A
1	1A	1252	G
1	1A	1253	A
1	1A	1256	G
1	1A	1267	U
1	1A	1271	G
1	1A	1272	A
1	1A	1273	U
1	1A	1300	U
1	1A	1301	A
1	1A	1318	C
1	1A	1352	U
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1384	A
1	1A	1385	G
1	1A	1416	G
1	1A	1417	C
1	1A	1420	U

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Mol	Chain	Res	Type
1	1A	1421	G
1	1A	1428	C
1	1A	1445	A
1	1A	1450	G
1	1A	1455	G
1	1A	1459	G
1	1A	1467	C
1	1A	1478	G
1	1A	1482	G
1	1A	1493	C
1	1A	1494	A
1	1A	1497	U
1	1A	1508	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1525	G
1	1A	1542	A
1	1A	1546	C
1	1A	1554	A
1	1A	1558	A
1	1A	1559	G
1	1A	1566	A
1	1A	1569	A
1	1A	1578	U
1	1A	1580	A
1	1A	1584	C
1	1A	1586	A
1	1A	1608	A
1	1A	1609	A
1	1A	1610	A
1	1A	1612	C
1	1A	1622	G
1	1A	1646	C
1	1A	1648	C
1	1A	1651	G
1	1A	1654	A
1	1A	1658	C
1	1A	1669	A
1	1A	1674	G
1	1A	1695	G
1	1A	1700	A
1	1A	1703	G

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Mol	Chain	Res	Type
1	1A	1746	G
1	1A	1756	G
1	1A	1762	A
1	1A	1763	G
1	1A	1764	G
1	1A	1773	A
1	1A	1780	A
1	1A	1781	C
1	1A	1782	C
1	1A	1786	A
1	1A	1791	A
1	1A	1800	C
1	1A	1801	G
1	1A	1811	G
1	1A	1812	A
1	1A	1816	G
1	1A	1847	A
1	1A	1848	A
1	1A	1858	G
1	1A	1861	G
1	1A	1877	A
1	1A	1878	G
1	1A	1889	A
1	1A	1898	U
1	1A	1900	A
1	1A	1906	G
1	1A	1915	5MU
1	1A	1919	A
1	1A	1927	A
1	1A	1929	G
1	1A	1930	G
1	1A	1938	A
1	1A	1955	U
1	1A	1963	U
1	1A	1967	C
1	1A	1970	A
1	1A	1971	A
1	1A	1972	A
1	1A	1992	G
1	1A	1993	U
1	1A	1994	C
1	1A	1997	G

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Mol	Chain	Res	Type
1	1A	2020	A
1	1A	2023	G
1	1A	2031	A
1	1A	2032	G
1	1A	2033	A
1	1A	2043	C
1	1A	2055	C
1	1A	2056	G
1	1A	2060	A
1	1A	2061	G
1	1A	2062	A
1	1A	2069	G
1	1A	2092	U
1	1A	2096	U
1	1A	2104	G
1	1A	2113	U
1	1A	2120	G
1	1A	2126	A
1	1A	2127	G
1	1A	2131	G
1	1A	2132	U
1	1A	2133	G
1	1A	2134	A
1	1A	2135	A
1	1A	2138	C
1	1A	2140	C
1	1A	2142	C
1	1A	2143	C
1	1A	2144	U
1	1A	2146	C
1	1A	2149	G
1	1A	2150	U
1	1A	2151	G
1	1A	2155	G
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2160	G
1	1A	2162	G
1	1A	2164	C
1	1A	2165	G
1	1A	2166	G

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Mol	Chain	Res	Type
1	1A	2167	U
1	1A	2171	A
1	1A	2172	U
1	1A	2174	C
1	1A	2175	C
1	1A	2181	G
1	1A	2182	G
1	1A	2183	C
1	1A	2184	G
1	1A	2189	U
1	1A	2198	A
1	1A	2206	G
1	1A	2207	G
1	1A	2208	A
1	1A	2218	U
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2267	A
1	1A	2268	A
1	1A	2269	A
1	1A	2273	A
1	1A	2279	G
1	1A	2280	G
1	1A	2283	C
1	1A	2286	A
1	1A	2287	A
1	1A	2289	G
1	1A	2305	A
1	1A	2306	C
1	1A	2307	G
1	1A	2308	G
1	1A	2314	C
1	1A	2320	A
1	1A	2322	A
1	1A	2325	G
1	1A	2334	G
1	1A	2335	A
1	1A	2336	A
1	1A	2347	C
1	1A	2350	C
1	1A	2358	G

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Mol	Chain	Res	Type
1	1A	2361	A
1	1A	2383	G
1	1A	2385	C
1	1A	2400	G
1	1A	2406	U
1	1A	2410	G
1	1A	2423	U
1	1A	2424	C
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2435	A
1	1A	2439	A
1	1A	2441	C
1	1A	2447	G
1	1A	2448	A
1	1A	2449	U
1	1A	2468	G
1	1A	2476	A
1	1A	2487	G
1	1A	2490	G
1	1A	2502	G
1	1A	2505	G
1	1A	2506	U
1	1A	2507	C
1	1A	2518	A
1	1A	2520	C
1	1A	2529	G
1	1A	2542	A
1	1A	2554	U
1	1A	2566	A
1	1A	2567	G
1	1A	2573	C
1	1A	2574	G
1	1A	2582	G
1	1A	2601	C
1	1A	2602	A
1	1A	2609	U
1	1A	2611	U
1	1A	2612	C
1	1A	2629	A
1	1A	2630	G

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Mol	Chain	Res	Type
1	1A	2632	A
1	1A	2654	A
1	1A	2663	G
1	1A	2689	U
1	1A	2691	C
1	1A	2702	U
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A
1	1A	2714	G
1	1A	2726	U
1	1A	2732	G
1	1A	2733	A
1	1A	2738	A
1	1A	2739	U
1	1A	2744	G
1	1A	2749	A
1	1A	2750	A
1	1A	2752	C
1	1A	2757	A
1	1A	2758	A
1	1A	2764	A
1	1A	2765	A
1	1A	2766	G
1	1A	2778	A
1	1A	2780	G
1	1A	2789	C
1	1A	2790	A
1	1A	2791	C
1	1A	2794	C
1	1A	2802	G
1	1A	2807	G
1	1A	2818	G
1	1A	2820	A
1	1A	2821	A
1	1A	2833	G
1	1A	2835	A
1	1A	2836	U
1	1A	2866	U
1	1A	2872	G
1	1A	2876	G
1	1A	2880	C

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Mol	Chain	Res	Type
1	1A	2892	A
1	1A	2893	G
1	1A	2894	G
1	1A	2897	U
2	1B	2	C
2	1B	15	A
2	1B	24	G
2	1B	42	C
2	1B	52	A
2	1B	56	G
2	1B	73	A
2	1B	85	G
2	1B	106	G
2	1B	110	G
32	1a	6	G
32	1a	9	G
32	1a	32	A
32	1a	39	G
32	1a	47	C
32	1a	48	C
32	1a	50	A
32	1a	51	A
32	1a	52	G
32	1a	61	G
32	1a	79	G
32	1a	91	C
32	1a	98	G
32	1a	101	A
32	1a	116	A
32	1a	121	C
32	1a	129	U
32	1a	131	C
32	1a	145	G
32	1a	174	C
32	1a	180	U
32	1a	181	G
32	1a	185	A
32	1a	189(F)	U
32	1a	189(G)	G
32	1a	189(H)	G
32	1a	189(J)	G
32	1a	195	A

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Mol	Chain	Res	Type
32	1a	197	A
32	1a	199	G
32	1a	201	C
32	1a	202	U
32	1a	203	U
32	1a	204	U
32	1a	216	G
32	1a	218	C
32	1a	220	G
32	1a	247	G
32	1a	251	G
32	1a	258	G
32	1a	266	G
32	1a	267	C
32	1a	289	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	336	C
32	1a	341	C
32	1a	342	C
32	1a	344	A
32	1a	345	C
32	1a	347	G
32	1a	349	A
32	1a	352	C
32	1a	353	A
32	1a	354	G
32	1a	363	A
32	1a	367	U
32	1a	372	C
32	1a	373	A
32	1a	384	G
32	1a	390	C
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	409	G
32	1a	412	A
32	1a	413	G
32	1a	421	U
32	1a	422	C

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Mol	Chain	Res	Type
32	1a	424	G
32	1a	429	U
32	1a	435	C
32	1a	439	A
32	1a	452	A
32	1a	453	A
32	1a	461	A
32	1a	470	C
32	1a	484	G
32	1a	485	G
32	1a	496	A
32	1a	498	U
32	1a	505	G
32	1a	509	A
32	1a	510	A
32	1a	511	C
32	1a	518	C
32	1a	522	C
32	1a	525	C
32	1a	531	U
32	1a	532	A
32	1a	543	C
32	1a	545	C
32	1a	547	A
32	1a	559	A
32	1a	561	U
32	1a	564	C
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	574	A
32	1a	576	G
32	1a	577	G
32	1a	596	C
32	1a	628	G
32	1a	630	G
32	1a	634	C
32	1a	653	A
32	1a	665	A
32	1a	666	G
32	1a	673	G
32	1a	687	A

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Mol	Chain	Res	Type
32	1a	688	G
32	1a	693	G
32	1a	694	A
32	1a	695	A
32	1a	702	A
32	1a	703	G
32	1a	721	G
32	1a	723	U
32	1a	724	G
32	1a	728	A
32	1a	731	G
32	1a	734	G
32	1a	747	C
32	1a	749	C
32	1a	755	G
32	1a	773	G
32	1a	774	G
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	802	A
32	1a	806	C
32	1a	816	A
32	1a	817	C
32	1a	827	U
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	859	A
32	1a	895	G
32	1a	902	G
32	1a	914	A
32	1a	916	G
32	1a	926	G
32	1a	927	G
32	1a	932	C
32	1a	934	C
32	1a	936	C
32	1a	939	G
32	1a	950	U

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Mol	Chain	Res	Type
32	1a	960	U
32	1a	961	U
32	1a	967	5MC
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A
32	1a	992	U
32	1a	993	G
32	1a	997	U
32	1a	999	C
32	1a	1000	U
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1009	G
32	1a	1020	U
32	1a	1022	G
32	1a	1024	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C
32	1a	1028	C
32	1a	1030	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1037	C
32	1a	1040	U
32	1a	1043	C
32	1a	1044	A
32	1a	1054	C
32	1a	1065	U
32	1a	1066	C
32	1a	1068	G
32	1a	1081	G
32	1a	1094	G
32	1a	1095	U
32	1a	1096	C

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Mol	Chain	Res	Type
32	1a	1101	A
32	1a	1108	G
32	1a	1118	C
32	1a	1121	U
32	1a	1123	A
32	1a	1125	U
32	1a	1136	U
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1140	C
32	1a	1146	A
32	1a	1152	A
32	1a	1154	G
32	1a	1157	A
32	1a	1159	U
32	1a	1179	A
32	1a	1182	G
32	1a	1183	A
32	1a	1184	G
32	1a	1196	U
32	1a	1197	G
32	1a	1202	G
32	1a	1212	U
32	1a	1213	A
32	1a	1214	C
32	1a	1220	G
32	1a	1227	A
32	1a	1238	A
32	1a	1253	G
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1270	C
32	1a	1273	G
32	1a	1275	A
32	1a	1276	G
32	1a	1279	A
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1294	G

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Mol	Chain	Res	Type
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U
32	1a	1305	G
32	1a	1319	A
32	1a	1322	C
32	1a	1338	G
32	1a	1340	A
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1363(A)	A
32	1a	1364	U
32	1a	1368	G
32	1a	1370	G
32	1a	1371	G
32	1a	1379	G
32	1a	1400	5MC
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1446	U
32	1a	1447	A
32	1a	1452	C
32	1a	1458	G
32	1a	1475	G
32	1a	1487	G
32	1a	1492	A
32	1a	1494	G
32	1a	1497	G
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
32	1a	1532	U
53	1v	13	A
53	1v	24	C
54	1w	2	G
54	1w	9	A

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Mol	Chain	Res	Type
54	1w	19	G
54	1w	24	G
54	1w	25	C
54	1w	29	U
54	1w	35	A
54	1w	36	C
54	1w	45	G
54	1w	46	7MG
54	1w	47	U
54	1w	48	C
54	1w	49	G
54	1w	50	G
54	1w	51	C
54	1w	56	C
54	1w	58	A
54	1w	59	U
54	1w	61	C
54	1w	62	C
54	1w	63	G
54	1w	66	A
54	1w	69	A
54	1w	70	C
54	1w	74	C
55	1x	9	G
55	1x	13	C
55	1x	18	G
55	1x	20	U
55	1x	21	A
55	1x	25	C
55	1x	47	U
55	1x	60	U
55	1x	61	C
55	1x	69	C
55	1x	76	A
54	1y	2	G
54	1y	3	G
54	1y	5	G
54	1y	6	A
54	1y	9	A
54	1y	13	C
54	1y	19	G
54	1y	20	G

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Mol	Chain	Res	Type
54	1y	21	A
54	1y	24	G
54	1y	25	C
54	1y	32	C
54	1y	33	U
54	1y	35	A
54	1y	40	G
54	1y	45	G
54	1y	46	7MG
54	1y	47	U
54	1y	48	C
54	1y	54	5MU
54	1y	60	C
54	1y	61	C
54	1y	64	U
54	1y	65	C
54	1y	71	C
1	2A	10	G
1	2A	11	G
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	63	U
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	79	G
1	2A	84	A
1	2A	90	U
1	2A	94	C
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	120	U
1	2A	123	G
1	2A	125	G
1	2A	128	C
1	2A	149	A
1	2A	154(A)	C
1	2A	157	U
1	2A	181	A

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Mol	Chain	Res	Type
1	2A	196	A
1	2A	199	A
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	221	A
1	2A	222	A
1	2A	225	A
1	2A	228	A
1	2A	229	A
1	2A	230	U
1	2A	232	G
1	2A	233	A
1	2A	236	C
1	2A	243	U
1	2A	248	G
1	2A	249	C
1	2A	250	G
1	2A	271(A)	A
1	2A	271(J)	C
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	271(O)	C
1	2A	272(A)	U
1	2A	272(B)	G
1	2A	272(J)	C
1	2A	277	C
1	2A	278	A
1	2A	290	G
1	2A	294	A
1	2A	300	A
1	2A	311	A
1	2A	312	G
1	2A	317	G
1	2A	324	A
1	2A	327	G
1	2A	329	G
1	2A	332	A
1	2A	352	G
1	2A	354	G

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Mol	Chain	Res	Type
1	2A	363(B)	G
1	2A	363(C)	G
1	2A	364	C
1	2A	371	A
1	2A	372	G
1	2A	386	G
1	2A	399	G
1	2A	405	U
1	2A	407	G
1	2A	411	G
1	2A	412	A
1	2A	428	A
1	2A	434	U
1	2A	435	C
1	2A	443	A
1	2A	444	C
1	2A	446	G
1	2A	454	A
1	2A	455	C
1	2A	456	C
1	2A	457	A
1	2A	462	C
1	2A	481	G
1	2A	494	G
1	2A	499	U
1	2A	505	A
1	2A	509	C
1	2A	521	G
1	2A	527	C
1	2A	528	A
1	2A	529	A
1	2A	531	C
1	2A	532	A
1	2A	533	G
1	2A	551	G
1	2A	554	U
1	2A	556	G
1	2A	563	G
1	2A	568	U
1	2A	573	G
1	2A	574	C
1	2A	575	A

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Mol	Chain	Res	Type
1	2A	586	A
1	2A	588	U
1	2A	592	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(A)	U
1	2A	614(B)	G
1	2A	614(C)	A
1	2A	615	G
1	2A	627	A
1	2A	634	C
1	2A	637	A
1	2A	640	C
1	2A	645	C
1	2A	646	A
1	2A	647	G
1	2A	651	G
1	2A	652(A)	A
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	652(U)	G
1	2A	653	A
1	2A	656	G
1	2A	668	G
1	2A	669	G
1	2A	684	G
1	2A	686	G
1	2A	698	C
1	2A	717	G
1	2A	726	G
1	2A	730	C
1	2A	747	U
1	2A	753	C
1	2A	771	G
1	2A	775	G
1	2A	776	G
1	2A	777	A
1	2A	779	U
1	2A	782	A
1	2A	784	A
1	2A	785	G

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Mol	Chain	Res	Type
1	2A	790	C
1	2A	792	G
1	2A	793	A
1	2A	805	G
1	2A	811	U
1	2A	812	C
1	2A	819	A
1	2A	822	U
1	2A	827	U
1	2A	828	U
1	2A	832	G
1	2A	848	G
1	2A	857	C
1	2A	859	G
1	2A	866	A
1	2A	869	G
1	2A	874	G
1	2A	878	A
1	2A	879	G
1	2A	880	G
1	2A	884	C
1	2A	886	C
1	2A	887	A
1	2A	888	C
1	2A	889	C
1	2A	890	A
1	2A	892	G
1	2A	893	C
1	2A	894	C
1	2A	895	U
1	2A	896	A
1	2A	898	C
1	2A	900	A
1	2A	901	A
1	2A	910	A
1	2A	915	C
1	2A	917	A
1	2A	932	G
1	2A	938	G
1	2A	941	A
1	2A	945	A
1	2A	946	G

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Mol	Chain	Res	Type
1	2A	953	A
1	2A	958	U
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	980	A
1	2A	983	A
1	2A	996	A
1	2A	997	G
1	2A	1003	G
1	2A	1010	A
1	2A	1012	U
1	2A	1013	C
1	2A	1017	G
1	2A	1022	G
1	2A	1025	G
1	2A	1033	U
1	2A	1038	C
1	2A	1041	C
1	2A	1042	G
1	2A	1043	C
1	2A	1114	G
1	2A	1116	C
1	2A	1117	G
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1142	U
1	2A	1143	A
1	2A	1151	G
1	2A	1155	A
1	2A	1167	U
1	2A	1169	G
1	2A	1171	G
1	2A	1179	C
1	2A	1210	A
1	2A	1211	U
1	2A	1212	G
1	2A	1229	G
1	2A	1236	G

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Mol	Chain	Res	Type
1	2A	1239	G
1	2A	1244	G
1	2A	1247	A
1	2A	1248	G
1	2A	1253	A
1	2A	1256	G
1	2A	1265	A
1	2A	1271	G
1	2A	1272	A
1	2A	1277	G
1	2A	1300	U
1	2A	1301	A
1	2A	1314	C
1	2A	1333	C
1	2A	1345	C
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1368	G
1	2A	1370	C
1	2A	1380	G
1	2A	1384	A
1	2A	1385	G
1	2A	1416	G
1	2A	1417	C
1	2A	1421	G
1	2A	1427	A
1	2A	1428	C
1	2A	1437	C
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G
1	2A	1451	C
1	2A	1455	G
1	2A	1460	A
1	2A	1461	G
1	2A	1463	C
1	2A	1467	C
1	2A	1471	A
1	2A	1482	G
1	2A	1490	A

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Mol	Chain	Res	Type
1	2A	1493	C
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1531	C
1	2A	1532	C
1	2A	1533	G
1	2A	1542	A
1	2A	1548	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1584	C
1	2A	1586	A
1	2A	1603	A
1	2A	1608	A
1	2A	1610	A
1	2A	1634	A
1	2A	1648	C
1	2A	1654	A
1	2A	1664	A
1	2A	1674	G
1	2A	1688	U
1	2A	1696	G
1	2A	1700	A
1	2A	1721	G
1	2A	1722	A
1	2A	1740	G
1	2A	1746	G
1	2A	1756	G
1	2A	1758	G
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1776	G
1	2A	1780	A
1	2A	1782	C
1	2A	1786	A
1	2A	1791	A
1	2A	1800	C

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Mol	Chain	Res	Type
1	2A	1801	G
1	2A	1808	U
1	2A	1811	G
1	2A	1812	A
1	2A	1816	G
1	2A	1847	A
1	2A	1848	A
1	2A	1877	A
1	2A	1878	G
1	2A	1893	C
1	2A	1895	C
1	2A	1900	A
1	2A	1906	G
1	2A	1913	A
1	2A	1914	C
1	2A	1919	A
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1937	A
1	2A	1938	A
1	2A	1955	U
1	2A	1960	A
1	2A	1963	U
1	2A	1965	C
1	2A	1967	C
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1984	G
1	2A	1992	G
1	2A	1993	U
1	2A	1996	C
1	2A	1997	G
1	2A	2020	A
1	2A	2023	G
1	2A	2031	A
1	2A	2032	G
1	2A	2033	A
1	2A	2036	C
1	2A	2043	C
1	2A	2049	G

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Mol	Chain	Res	Type
1	2A	2055	C
1	2A	2056	G
1	2A	2060	A
1	2A	2061	G
1	2A	2062	A
1	2A	2067	G
1	2A	2069	G
1	2A	2092	U
1	2A	2093	G
1	2A	2096	U
1	2A	2099	U
1	2A	2100	G
1	2A	2108	C
1	2A	2109	U
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2115	G
1	2A	2116	G
1	2A	2119	A
1	2A	2120	G
1	2A	2121	G
1	2A	2122	U
1	2A	2125	G
1	2A	2126	A
1	2A	2127	G
1	2A	2129	C
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G
1	2A	2134	A
1	2A	2135	A
1	2A	2137	C
1	2A	2138	C
1	2A	2140	C
1	2A	2142	C
1	2A	2146	C
1	2A	2150	U
1	2A	2153	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A

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Mol	Chain	Res	Type
1	2A	2161	C
1	2A	2162	G
1	2A	2164	C
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2169	A
1	2A	2171	A
1	2A	2172	U
1	2A	2173	A
1	2A	2178	C
1	2A	2188	C
1	2A	2189	U
1	2A	2192	G
1	2A	2206	G
1	2A	2207	G
1	2A	2208	A
1	2A	2218	U
1	2A	2225	A
1	2A	2238	G
1	2A	2239	G
1	2A	2249	U
1	2A	2263	C
1	2A	2275	C
1	2A	2279	G
1	2A	2283	C
1	2A	2287	A
1	2A	2302	G
1	2A	2303	G
1	2A	2305	A
1	2A	2308	G
1	2A	2309	A
1	2A	2312	U
1	2A	2317	C
1	2A	2320	A
1	2A	2322	A
1	2A	2325	G
1	2A	2329	G
1	2A	2334	G
1	2A	2336	A
1	2A	2343	C
1	2A	2346	A

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Mol	Chain	Res	Type
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2358	G
1	2A	2361	A
1	2A	2368	C
1	2A	2376	A
1	2A	2377	A
1	2A	2383	G
1	2A	2385	C
1	2A	2388	A
1	2A	2396	G
1	2A	2403	C
1	2A	2406	U
1	2A	2422	A
1	2A	2425	A
1	2A	2427	C
1	2A	2428	G
1	2A	2429	G
1	2A	2430	A
1	2A	2434	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2448	A
1	2A	2459	A
1	2A	2468	G
1	2A	2469	A
1	2A	2476	A
1	2A	2478	A
1	2A	2480	C
1	2A	2483	C
1	2A	2490	G
1	2A	2491	U
1	2A	2494	G
1	2A	2499	C
1	2A	2502	G
1	2A	2505	G
1	2A	2506	U
1	2A	2518	A
1	2A	2520	C
1	2A	2529	G

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Mol	Chain	Res	Type
1	2A	2530	A
1	2A	2549	G
1	2A	2554	U
1	2A	2555	U
1	2A	2566	A
1	2A	2567	G
1	2A	2572	A
1	2A	2582	G
1	2A	2602	A
1	2A	2611	U
1	2A	2612	C
1	2A	2629	A
1	2A	2630	G
1	2A	2634	G
1	2A	2638	G
1	2A	2646	C
1	2A	2662	A
1	2A	2663	G
1	2A	2689	U
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2718	G
1	2A	2726	U
1	2A	2733	A
1	2A	2739	U
1	2A	2748	A
1	2A	2751	G
1	2A	2759	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2779	U
1	2A	2804	C
1	2A	2807	G
1	2A	2811	G
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A

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Mol	Chain	Res	Type
1	2A	2835	A
1	2A	2839	G
1	2A	2872	G
1	2A	2876	G
1	2A	2879	C
1	2A	2883	A
1	2A	2886	G
1	2A	2892	A
1	2A	2894	G
1	2A	2895	U
1	2A	2897	U
2	2B	2	C
2	2B	4	C
2	2B	5	C
2	2B	7	G
2	2B	8	U
2	2B	9	G
2	2B	12	C
2	2B	13	A
2	2B	19	G
2	2B	20	C
2	2B	29	A
2	2B	32	C
2	2B	33	G
2	2B	35	U
2	2B	38	C
2	2B	42	C
2	2B	44	G
2	2B	53	A
2	2B	56	G
2	2B	63	G
2	2B	67	G
2	2B	69	G
2	2B	73	A
2	2B	75	G
2	2B	85	G
2	2B	88	C
2	2B	94	C
2	2B	108	U
2	2B	110	G
2	2B	114	C
2	2B	116	G

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Mol	Chain	Res	Type
2	2B	118	G
2	2B	119	G
32	2a	7	G
32	2a	8	A
32	2a	9	G
32	2a	13	U
32	2a	30	U
32	2a	32	A
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	51	A
32	2a	54	C
32	2a	66	G
32	2a	70	G
32	2a	73	G
32	2a	78	G
32	2a	80	G
32	2a	88	A
32	2a	89	C
32	2a	101	A
32	2a	116	A
32	2a	121	C
32	2a	131	C
32	2a	142	G
32	2a	144	G
32	2a	151	A
32	2a	159	G
32	2a	163	C
32	2a	174	C
32	2a	182	U
32	2a	195	A
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	247	G
32	2a	249	U
32	2a	250	A
32	2a	251	G
32	2a	266	G

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Mol	Chain	Res	Type
32	2a	267	C
32	2a	279	A
32	2a	281	G
32	2a	289	G
32	2a	299	G
32	2a	300	A
32	2a	306	G
32	2a	316	G
32	2a	318	G
32	2a	319	G
32	2a	321	A
32	2a	322	C
32	2a	328	C
32	2a	332	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	366	C
32	2a	367	U
32	2a	372	C
32	2a	373	A
32	2a	397	A
32	2a	398	C
32	2a	404	U
32	2a	406	G
32	2a	412	A
32	2a	415	A
32	2a	421	U
32	2a	423	G
32	2a	424	G
32	2a	427	U
32	2a	428	G
32	2a	429	U
32	2a	433	C
32	2a	439	A
32	2a	442	C
32	2a	443	C
32	2a	452	A
32	2a	470	C
32	2a	484	G
32	2a	485	G
32	2a	496	A

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Mol	Chain	Res	Type
32	2a	498	U
32	2a	505	G
32	2a	509	A
32	2a	510	A
32	2a	511	C
32	2a	513	C
32	2a	518	C
32	2a	521	G
32	2a	527	7MG
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	547	A
32	2a	559	A
32	2a	561	U
32	2a	562	C
32	2a	564	C
32	2a	565	U
32	2a	566	G
32	2a	572	A
32	2a	573	A
32	2a	576	G
32	2a	577	G
32	2a	581	G
32	2a	586	C
32	2a	596	C
32	2a	630	G
32	2a	650	G
32	2a	653	A
32	2a	657	G
32	2a	665	A
32	2a	671	G
32	2a	687	A
32	2a	688	G
32	2a	694	A
32	2a	695	A
32	2a	702	A
32	2a	703	G
32	2a	705	U
32	2a	721	G
32	2a	723	U
32	2a	724	G

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Mol	Chain	Res	Type
32	2a	729	A
32	2a	731	G
32	2a	742	G
32	2a	749	C
32	2a	755	G
32	2a	777	A
32	2a	787	A
32	2a	790	A
32	2a	793	U
32	2a	794	A
32	2a	796	C
32	2a	815	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	836	G
32	2a	838	G
32	2a	839	U
32	2a	840	C
32	2a	841	U
32	2a	853	G
32	2a	855	G
32	2a	859	A
32	2a	870	U
32	2a	872	A
32	2a	873	A
32	2a	876	G
32	2a	885	G
32	2a	899	C
32	2a	902	G
32	2a	914	A
32	2a	916	G
32	2a	927	G
32	2a	931	C
32	2a	932	C
32	2a	934	C
32	2a	935	A
32	2a	936	C
32	2a	942	G
32	2a	960	U
32	2a	961	U
32	2a	965	A

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Mol	Chain	Res	Type
32	2a	966	M2G
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	979	C
32	2a	982	U
32	2a	984	C
32	2a	989	C
32	2a	992	U
32	2a	993	G
32	2a	996	A
32	2a	997	U
32	2a	998	G
32	2a	999	C
32	2a	1001(A)	G
32	2a	1002	G
32	2a	1003	G
32	2a	1004	A
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1020	U
32	2a	1022	G
32	2a	1024	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1028	C
32	2a	1030	C
32	2a	1030(A)	G
32	2a	1030(C)	G
32	2a	1031	G
32	2a	1032	G
32	2a	1035	A
32	2a	1037	C
32	2a	1039	C
32	2a	1040	U

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Mol	Chain	Res	Type
32	2a	1042	G
32	2a	1046	A
32	2a	1053	G
32	2a	1055	A
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1076	C
32	2a	1077	G
32	2a	1081	G
32	2a	1085	U
32	2a	1087	G
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1112	C
32	2a	1117	G
32	2a	1118	C
32	2a	1122	U
32	2a	1125	U
32	2a	1129	C
32	2a	1130	A
32	2a	1134	G
32	2a	1136	U
32	2a	1137	C
32	2a	1138	G
32	2a	1139	G
32	2a	1140	C
32	2a	1146	A
32	2a	1152	A
32	2a	1157	A
32	2a	1159	U
32	2a	1160	G
32	2a	1172	C
32	2a	1173	G
32	2a	1175	G
32	2a	1181	G
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1201	A

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Mol	Chain	Res	Type
32	2a	1202	G
32	2a	1204	A
32	2a	1208	C
32	2a	1209	C
32	2a	1210	C
32	2a	1211	U
32	2a	1213	A
32	2a	1214	C
32	2a	1215	G
32	2a	1222	G
32	2a	1223	C
32	2a	1226	C
32	2a	1228	C
32	2a	1238	A
32	2a	1240	U
32	2a	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1261	A
32	2a	1262	C
32	2a	1270	C
32	2a	1273	G
32	2a	1275	A
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1287	A
32	2a	1294	G
32	2a	1299	A
32	2a	1302	U
32	2a	1303	C
32	2a	1305	G
32	2a	1306	A
32	2a	1313	U
32	2a	1320	C
32	2a	1322	C
32	2a	1323	G
32	2a	1336	C
32	2a	1338	G
32	2a	1346	A
32	2a	1347	G
32	2a	1350	A

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Mol	Chain	Res	Type
32	2a	1358	U
32	2a	1363	C
32	2a	1363(A)	A
32	2a	1368	G
32	2a	1388	C
32	2a	1394	A
32	2a	1397	C
32	2a	1402	4OC
32	2a	1406	U
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1447	A
32	2a	1452	C
32	2a	1456	G
32	2a	1492	A
32	2a	1499	A
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1507	A
32	2a	1508	G
32	2a	1517	G
32	2a	1519	MA6
32	2a	1520	G
32	2a	1529	G
32	2a	1530	G
32	2a	1531	A
32	2a	1532	U
53	2v	13	A
53	2v	14	A
53	2v	19	G
53	2v	24	C
54	2w	2	G
54	2w	3	G
54	2w	5	G
54	2w	8	4SU
54	2w	9	A
54	2w	10	G
54	2w	13	C
54	2w	14	A
54	2w	19	G

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Mol	Chain	Res	Type
54	2w	22	G
54	2w	29	U
54	2w	32	C
54	2w	47	U
54	2w	48	C
54	2w	49	G
54	2w	51	C
54	2w	55	PSU
54	2w	56	C
54	2w	58	A
54	2w	59	U
54	2w	60	C
54	2w	62	C
54	2w	65	C
54	2w	68	C
54	2w	69	A
54	2w	70	C
54	2w	73	A
54	2w	74	C
54	2w	75	C
55	2x	4	G
55	2x	9	G
55	2x	13	C
55	2x	19	G
55	2x	20	U
55	2x	21	A
55	2x	34	C
55	2x	47	U
55	2x	48	C
55	2x	56	C
55	2x	57	A
55	2x	61	C
55	2x	67	C
55	2x	68	C
55	2x	76	A
54	2y	2	G
54	2y	5	G
54	2y	6	A
54	2y	7	U
54	2y	8	4SU
54	2y	9	A
54	2y	13	C

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Mol	Chain	Res	Type
54	2y	15	G
54	2y	19	G
54	2y	24	G
54	2y	26	A
54	2y	30	C
54	2y	31	C
54	2y	32	C
54	2y	34	CM0
54	2y	35	A
54	2y	37	6MZ
54	2y	40	G
54	2y	41	A
54	2y	43	G
54	2y	45	G
54	2y	49	G
54	2y	51	C
54	2y	52	G
54	2y	53	G
54	2y	55	PSU
54	2y	57	G
54	2y	58	A
54	2y	59	U
54	2y	61	C
54	2y	69	A
54	2y	70	C
54	2y	73	A

All (42) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	266	G
1	1A	271(K)	U
1	1A	278	A
1	1A	362	U
1	1A	548	A
1	1A	827	U
1	1A	895	U
1	1A	1047	G
1	1A	1065	U
1	1A	1067	A
1	1A	1174	A
1	1A	1175	U

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Mol	Chain	Res	Type
1	1A	1176	G
1	1A	1210	A
1	1A	1420	U
1	1A	1442	G
1	1A	1508	A
1	1A	1653	G
1	1A	1992	G
1	1A	2134	A
1	1A	2181	G
1	1A	2183	C
1	1A	2756	U
1	2A	228	A
1	2A	266	G
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	614(B)	G
1	2A	752	A
1	2A	827	U
1	2A	856	C
1	2A	900	A
1	2A	1210	A
1	2A	1379	A
1	2A	1420	U
1	2A	1442	G
1	2A	1653	G
1	2A	1790	C
1	2A	1913	A
1	2A	1992	G
1	2A	2119	A

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	M2G	1a	966	32	24,27,28	1.30	3 (12%)	33,40,43	1.88	6 (18%)
54	CM0	1y	34	54	21,26,27	1.21	3 (14%)	26,37,40	2.05	4 (15%)
32	MA6	1a	1518	32	23,26,27	1.52	4 (17%)	33,38,41	2.34	14 (42%)
32	5MC	1a	1404	32	19,22,23	1.59	3 (15%)	26,32,35	1.12	2 (7%)
54	PSU	2y	55	54	18,21,22	1.34	2 (11%)	21,30,33	2.05	4 (19%)
54	PSU	1w	55	54	18,21,22	1.43	2 (11%)	21,30,33	2.12	4 (19%)
54	6MZ	1y	37	54	22,25,26	1.55	4 (18%)	29,36,39	2.23	10 (34%)
32	2MG	1a	1207	32,56	23,26,27	1.29	2 (8%)	33,38,41	2.08	6 (18%)
32	MA6	2a	1518	32	23,26,27	1.55	5 (21%)	33,38,41	2.26	14 (42%)
1	PSU	2A	2605	1	18,21,22	1.35	3 (16%)	21,30,33	1.98	4 (19%)
32	PSU	2a	516	32	18,21,22	1.35	2 (11%)	21,30,33	1.98	4 (19%)
55	5MU	2x	54	55	19,22,23	1.40	6 (31%)	27,32,35	2.03	6 (22%)
54	7MG	2y	46	54	23,26,27	1.42	3 (13%)	27,39,42	2.75	7 (25%)
54	7MG	1w	46	54	23,26,27	1.36	2 (8%)	27,39,42	2.63	7 (25%)
1	PSU	1A	2605	56,1	18,21,22	1.41	3 (16%)	21,30,33	1.98	4 (19%)
1	4OC	2A	1920	1	19,22,24	0.79	0	25,31,35	0.87	0
32	5MC	1a	1400	32	19,22,23	1.66	3 (15%)	26,32,35	1.10	2 (7%)
32	5MC	2a	967	32	19,22,23	1.75	3 (15%)	26,32,35	1.09	2 (7%)
54	CM0	1w	34	54	21,26,27	1.16	3 (14%)	26,37,40	1.78	4 (15%)
54	PSU	1y	55	54	18,21,22	1.35	2 (11%)	21,30,33	2.08	4 (19%)
1	OMG	1A	2251	56,55,1	23,26,27	1.21	3 (13%)	32,38,41	2.02	7 (21%)
1	OMG	2A	2251	56,55,1	23,26,27	1.20	3 (13%)	32,38,41	1.99	6 (18%)
32	M2G	2a	966	32	24,27,28	1.32	4 (16%)	33,40,43	1.86	6 (18%)
1	2MU	1A	2552	56,1	19,22,24	1.29	4 (21%)	25,31,36	1.85	5 (20%)
54	6MZ	2y	37	32,54	22,25,26	1.58	4 (18%)	29,36,39	2.20	9 (31%)
54	5MU	2y	54	54	19,22,23	1.35	5 (26%)	27,32,35	2.26	9 (33%)
32	4OC	2a	1402	32,56	20,23,24	0.79	0	25,32,35	0.91	0
55	PSU	2x	55	55	18,21,22	1.35	2 (11%)	21,30,33	1.99	4 (19%)
1	PSU	1A	1911	1	18,21,22	1.38	2 (11%)	21,30,33	2.04	3 (14%)
55	4SU	2x	8	55	18,21,22	2.04	5 (27%)	25,30,33	1.78	8 (32%)
54	4SU	2w	8	54	18,21,22	1.79	4 (22%)	25,30,33	2.35	5 (20%)
32	7MG	1a	527	32	23,26,27	1.36	4 (17%)	27,39,42	2.69	7 (25%)
54	5MU	1y	54	54	19,22,23	1.42	5 (26%)	27,32,35	2.17	7 (25%)
55	5MC	1x	32	55,56	19,22,23	1.70	3 (15%)	26,32,35	1.18	3 (11%)
32	2MG	2a	1207	32,56	23,26,27	1.24	4 (17%)	33,38,41	2.21	8 (24%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	5MC	1a	967	32	19,22,23	1.65	3 (15%)	26,32,35	1.13	3 (11%)
55	4SU	1x	8	55	18,21,22	2.09	6 (33%)	25,30,33	1.76	7 (28%)
1	5MC	2A	1962	56,1	19,22,23	1.64	3 (15%)	26,32,35	1.09	2 (7%)
54	CM0	2w	34	54	21,26,27	1.17	3 (14%)	26,37,40	1.81	4 (15%)
1	PSU	2A	1911	1	18,21,22	1.37	2 (11%)	21,30,33	1.98	3 (14%)
32	PSU	1a	516	32,56	18,21,22	1.38	2 (11%)	21,30,33	2.05	5 (23%)
32	MA6	1a	1519	32	23,26,27	1.57	5 (21%)	33,38,41	2.31	12 (36%)
1	5MU	2A	1939	56,1	19,22,23	1.42	6 (31%)	27,32,35	2.20	6 (22%)
32	MA6	2a	1519	32	23,26,27	1.56	4 (17%)	33,38,41	2.35	11 (33%)
54	6MZ	1w	37	54	22,25,26	1.56	4 (18%)	29,36,39	2.13	9 (31%)
32	UR3	1a	1498	32	19,22,23	0.97	0	26,32,35	1.77	2 (7%)
1	5MU	1A	1915	1	19,22,23	1.49	4 (21%)	27,32,35	2.01	7 (25%)
1	5MU	2A	1915	1	19,22,23	1.41	5 (26%)	27,32,35	2.04	7 (25%)
55	5MU	1x	54	55	19,22,23	1.41	4 (21%)	27,32,35	1.81	6 (22%)
1	5MC	2A	1942	1	19,22,23	1.65	3 (15%)	26,32,35	1.08	2 (7%)
43	0TD	1l	92	43	8,9,10	4.58	1 (12%)	6,11,13	9.02	3 (50%)
32	4OC	1a	1402	32	20,23,24	0.76	0	25,32,35	0.89	1 (4%)
32	UR3	2a	1498	32	19,22,23	1.07	2 (10%)	26,32,35	1.73	4 (15%)
54	CM0	2y	34	54	21,26,27	1.20	3 (14%)	26,37,40	1.82	4 (15%)
1	2MA	1A	2503	56,1	22,25,26	1.45	5 (22%)	32,37,40	2.21	9 (28%)
1	5MC	1A	1942	1	19,22,23	1.65	3 (15%)	26,32,35	1.18	3 (11%)
1	4OC	1A	1920	1	19,22,24	0.82	0	25,31,35	1.05	1 (4%)
32	5MC	2a	1400	32	19,22,23	1.81	3 (15%)	26,32,35	1.22	2 (7%)
55	PSU	1x	55	55	18,21,22	1.34	2 (11%)	21,30,33	2.07	4 (19%)
1	2MU	2A	2552	56,1	19,22,24	1.25	3 (15%)	25,31,36	1.90	6 (24%)
54	4SU	1y	8	54	18,21,22	1.93	4 (22%)	25,30,33	2.51	8 (32%)
32	5MC	2a	1404	32	19,22,23	1.55	3 (15%)	26,32,35	1.21	3 (11%)
54	6MZ	2w	37	54	22,25,26	1.52	4 (18%)	29,36,39	2.11	8 (27%)
54	4SU	1w	8	54	18,21,22	1.84	5 (27%)	25,30,33	2.16	5 (20%)
32	5MC	1a	1407	32	19,22,23	1.66	3 (15%)	26,32,35	1.12	2 (7%)
54	7MG	1y	46	54	23,26,27	1.32	3 (13%)	27,39,42	2.67	6 (22%)
1	PSU	1A	1917	1	18,21,22	1.37	2 (11%)	21,30,33	2.06	3 (14%)
1	2MA	2A	2503	1	22,25,26	1.50	5 (22%)	32,37,40	2.27	9 (28%)
54	7MG	2w	46	54	23,26,27	1.31	3 (13%)	27,39,42	2.53	6 (22%)
55	5MC	2x	32	55	19,22,23	1.73	3 (15%)	26,32,35	1.27	3 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	5MC	2a	1407	32,56	19,22,23	1.62	3 (15%)	26,32,35	1.11	2 (7%)
54	5MU	1w	54	54	19,22,23	1.35	5 (26%)	27,32,35	2.11	6 (22%)
54	5MU	2w	54	54	19,22,23	1.38	4 (21%)	27,32,35	1.92	6 (22%)
1	5MU	1A	1939	1	19,22,23	1.45	6 (31%)	27,32,35	2.13	5 (18%)
54	4SU	2y	8	54	18,21,22	1.86	4 (22%)	25,30,33	2.78	6 (24%)
32	7MG	2a	527	32,56	23,26,27	1.31	3 (13%)	27,39,42	2.64	7 (25%)
1	PSU	2A	1917	56,1	18,21,22	1.35	2 (11%)	21,30,33	2.04	4 (19%)
54	PSU	2w	55	54	18,21,22	1.39	2 (11%)	21,30,33	2.03	4 (19%)
1	5MC	1A	1962	56,1	19,22,23	1.62	3 (15%)	26,32,35	1.13	2 (7%)
43	0TD	2l	92	43	8,9,10	4.56	2 (25%)	6,11,13	2.30	3 (50%)

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
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3
54	CM0	1y	34	54	-	2/12/30/31	0/2/2/2
32	MA6	1a	1518	32	-	1/11/29/30	0/3/3/3
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	2/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
54	6MZ	1y	37	54	-	0/9/27/28	0/3/3/3
32	2MG	1a	1207	32,56	-	0/9/27/28	0/3/3/3
32	MA6	2a	1518	32	-	1/11/29/30	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
54	7MG	2y	46	54	-	1/7/37/38	0/3/3/3
54	7MG	1w	46	54	-	2/7/37/38	0/3/3/3
1	PSU	1A	2605	56,1	-	0/7/25/26	0/2/2/2
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	2/7/25/26	0/2/2/2
54	CM0	1w	34	54	-	7/12/30/31	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	56,55,1	-	0/9/27/28	0/3/3/3
1	OMG	2A	2251	56,55,1	-	0/9/27/28	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	M2G	2a	966	32	-	4/11/29/30	0/3/3/3
1	2MU	1A	2552	56,1	-	0/9/27/28	0/2/2/2
54	6MZ	2y	37	32,54	-	1/9/27/28	0/3/3/3
54	5MU	2y	54	54	-	2/7/25/26	0/2/2/2
32	4OC	2a	1402	32,56	-	2/9/29/30	0/2/2/2
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	55	-	1/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	1/7/25/26	0/2/2/2
32	7MG	1a	527	32	-	1/7/37/38	0/3/3/3
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
55	5MC	1x	32	55,56	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32,56	-	2/9/27/28	0/3/3/3
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	56,1	-	0/7/25/26	0/2/2/2
54	CM0	2w	34	54	-	5/12/30/31	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32,56	-	0/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/11/29/30	0/3/3/3
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	4/11/29/30	0/3/3/3
54	6MZ	1w	37	54	-	2/9/27/28	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	3/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	3/7/12/14	-
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
54	CM0	2y	34	54	-	4/12/30/31	0/2/2/2
1	2MA	1A	2503	56,1	-	1/7/25/26	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
1	4OC	1A	1920	1	-	0/9/27/30	0/2/2/2
32	5MC	2a	1400	32	-	5/7/25/26	0/2/2/2
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
1	2MU	2A	2552	56,1	-	0/9/27/28	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	4SU	1y	8	54	-	2/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	6MZ	2w	37	54	-	2/9/27/28	0/3/3/3
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
54	7MG	1y	46	54	-	5/7/37/38	0/3/3/3
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
1	2MA	2A	2503	1	-	2/7/25/26	0/3/3/3
54	7MG	2w	46	54	-	2/7/37/38	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32,56	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	1	-	0/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	2/7/25/26	0/2/2/2
32	7MG	2a	527	32,56	-	3/7/37/38	0/3/3/3
1	PSU	2A	1917	56,1	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	1/7/25/26	0/2/2/2
1	5MC	1A	1962	56,1	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	1/7/12/14	-

All (255) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.62	1.69	1.82
43	2l	92	0TD	CB-SB	-12.36	1.69	1.82
32	2a	1400	5MC	C5-C4	6.65	1.49	1.44
32	2a	967	5MC	C5-C4	6.39	1.49	1.44
55	2x	32	5MC	C5-C4	6.23	1.48	1.44
55	1x	32	5MC	C5-C4	6.10	1.48	1.44
32	1a	1407	5MC	C5-C4	6.02	1.48	1.44
1	2A	1942	5MC	C5-C4	5.97	1.48	1.44
32	1a	1400	5MC	C5-C4	5.97	1.48	1.44
1	2A	1962	5MC	C5-C4	5.96	1.48	1.44
1	1A	1942	5MC	C5-C4	5.95	1.48	1.44
32	1a	967	5MC	C5-C4	5.95	1.48	1.44
32	2a	1407	5MC	C5-C4	5.83	1.48	1.44
1	1A	1962	5MC	C5-C4	5.77	1.48	1.44
32	1a	1404	5MC	C5-C4	5.66	1.48	1.44
32	2a	1404	5MC	C5-C4	5.34	1.48	1.44
54	2y	8	4SU	C4-S4	-5.27	1.59	1.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	37	6MZ	C5-C4	5.01	1.48	1.39
54	1w	8	4SU	C4-S4	-4.94	1.59	1.68
54	1w	37	6MZ	C5-C4	4.92	1.47	1.39
55	1x	8	4SU	C4-S4	-4.92	1.60	1.68
32	2a	1519	MA6	C5-C4	4.90	1.47	1.39
54	1y	37	6MZ	C5-C4	4.87	1.47	1.39
32	2a	1518	MA6	C5-C4	4.86	1.47	1.39
54	2w	37	6MZ	C5-C4	4.83	1.47	1.39
54	1y	8	4SU	C4-S4	-4.81	1.60	1.68
54	2w	8	4SU	C4-S4	-4.81	1.60	1.68
32	1a	1518	MA6	C5-C4	4.75	1.47	1.39
32	1a	1519	MA6	C5-C4	4.69	1.47	1.39
55	2x	8	4SU	C4-S4	-4.69	1.60	1.68
1	2A	2503	2MA	C5-C4	4.45	1.47	1.39
55	2x	8	4SU	C4-N3	-4.44	1.33	1.37
55	1x	8	4SU	C4-N3	-4.35	1.33	1.37
1	1A	2503	2MA	C5-C4	4.35	1.46	1.39
54	1w	55	PSU	C6-C5	4.22	1.40	1.35
54	2w	55	PSU	C6-C5	3.93	1.39	1.35
55	2x	55	PSU	C6-C5	3.64	1.39	1.35
32	1a	516	PSU	C6-C5	3.54	1.39	1.35
1	1A	1911	PSU	C6-C5	3.54	1.39	1.35
54	1y	55	PSU	C6-C5	3.53	1.39	1.35
32	2a	516	PSU	C6-C5	3.52	1.39	1.35
54	2y	46	7MG	C5-C4	3.51	1.48	1.37
54	1y	8	4SU	C2-N1	3.50	1.43	1.38
54	1w	46	7MG	C4-N9	-3.50	1.33	1.37
1	2A	1911	PSU	C6-C5	3.50	1.39	1.35
54	1y	8	4SU	C4-N3	-3.46	1.34	1.37
54	1y	46	7MG	C5-C4	3.42	1.48	1.37
1	2A	1917	PSU	C6-C5	3.42	1.39	1.35
55	1x	55	PSU	C6-C5	3.39	1.39	1.35
1	2A	2605	PSU	C6-C5	3.35	1.39	1.35
32	1a	527	7MG	C5-C4	3.34	1.47	1.37
54	1w	8	4SU	C4-N3	-3.32	1.34	1.37
55	1x	8	4SU	C5-C4	-3.32	1.38	1.42
54	1w	46	7MG	C5-C4	3.27	1.47	1.37
1	1A	1917	PSU	C6-C5	3.26	1.38	1.35
32	2a	966	M2G	C5-C4	3.25	1.47	1.38
55	2x	8	4SU	C2-N3	-3.24	1.32	1.38
32	2a	527	7MG	C5-C4	3.23	1.47	1.37
54	2w	46	7MG	C5-C4	3.23	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1207	2MG	C5-C4	3.22	1.47	1.38
1	1A	2605	PSU	C6-C5	3.22	1.38	1.35
1	1A	1915	5MU	C2-N1	3.17	1.43	1.38
1	2A	2251	OMG	C5-C4	3.16	1.47	1.38
32	1a	1207	2MG	C5-C4	3.16	1.47	1.38
32	1a	966	M2G	C5-C4	3.13	1.47	1.38
54	2y	55	PSU	C6-C5	3.12	1.38	1.35
55	1x	8	4SU	C2-N3	-3.12	1.32	1.38
54	2y	8	4SU	C5-C4	-3.09	1.38	1.42
54	2y	37	6MZ	C5-C6	3.08	1.49	1.41
54	2w	46	7MG	C4-N9	-3.07	1.34	1.37
54	2w	8	4SU	C4-N3	-3.04	1.34	1.37
32	1a	1519	MA6	C5-C6	3.04	1.49	1.41
1	1A	2251	OMG	C5-C4	3.04	1.47	1.38
55	1x	32	5MC	C6-C5	3.03	1.39	1.34
1	1A	1915	5MU	C6-C5	2.98	1.39	1.34
32	2a	1400	5MC	C6-C5	2.97	1.39	1.34
32	2a	1519	MA6	C5-C6	2.97	1.49	1.41
55	1x	54	5MU	C6-C5	2.96	1.39	1.34
54	1y	37	6MZ	C5-C6	2.96	1.49	1.41
54	1w	37	6MZ	C5-C6	2.94	1.49	1.41
32	2a	527	7MG	C4-N9	-2.94	1.34	1.37
32	1a	1400	5MC	C6-C5	2.94	1.39	1.34
32	2a	966	M2G	C2-N2	2.93	1.40	1.35
55	2x	32	5MC	C6-C5	2.92	1.39	1.34
32	1a	1518	MA6	C5-C6	2.92	1.48	1.41
32	1a	966	M2G	C2-N2	2.91	1.40	1.35
55	2x	8	4SU	C5-C4	-2.89	1.39	1.42
1	1A	1939	5MU	C6-C5	2.89	1.39	1.34
32	2a	1518	MA6	C5-C6	2.88	1.48	1.41
54	1y	54	5MU	C6-C5	2.88	1.39	1.34
32	2a	967	5MC	C6-C5	2.87	1.39	1.34
1	2A	1939	5MU	C6-C5	2.85	1.39	1.34
1	1A	2605	PSU	C4-N3	-2.84	1.33	1.38
1	1A	1962	5MC	C6-C5	2.83	1.39	1.34
1	2A	1915	5MU	C6-C5	2.83	1.39	1.34
32	2a	1407	5MC	C6-C5	2.81	1.39	1.34
32	1a	967	5MC	C6-C5	2.81	1.39	1.34
54	1w	54	5MU	C6-C5	2.80	1.39	1.34
54	2w	54	5MU	C6-C5	2.80	1.39	1.34
54	1y	8	4SU	C5-C4	-2.80	1.39	1.42
1	2A	1962	5MC	C6-C5	2.78	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1y	34	CM0	C4-N3	-2.78	1.33	1.38
54	2y	46	7MG	C6-N1	-2.78	1.33	1.38
1	2A	1942	5MC	C6-C5	2.78	1.39	1.34
54	2y	34	CM0	C4-N3	-2.77	1.33	1.38
54	2y	8	4SU	C4-N3	-2.76	1.34	1.37
1	2A	2552	2MU	C4-N3	-2.75	1.33	1.38
32	1a	1407	5MC	C6-C5	2.74	1.39	1.34
1	1A	2251	OMG	C6-N1	-2.74	1.33	1.38
1	1A	1939	5MU	C4-N3	-2.72	1.33	1.38
54	1w	34	CM0	C4-N3	-2.72	1.33	1.38
54	1y	55	PSU	C4-N3	-2.72	1.33	1.38
1	2A	2605	PSU	C4-N3	-2.72	1.33	1.38
32	1a	1207	2MG	C6-N1	-2.71	1.33	1.38
54	1w	8	4SU	C5-C4	-2.71	1.39	1.42
54	2w	37	6MZ	C5-C6	2.71	1.48	1.41
55	1x	54	5MU	C4-N3	-2.70	1.33	1.38
1	2A	1939	5MU	C4-N3	-2.69	1.33	1.38
32	1a	1404	5MC	C6-C5	2.68	1.39	1.34
1	1A	2552	2MU	C4-N3	-2.67	1.34	1.38
1	2A	2503	2MA	C5-C6	2.67	1.48	1.41
55	2x	54	5MU	C6-C5	2.67	1.39	1.34
1	1A	1917	PSU	C4-N3	-2.64	1.33	1.38
54	2y	8	4SU	C2-N1	2.64	1.42	1.38
54	2w	54	5MU	C4-N3	-2.63	1.33	1.38
32	2a	1404	5MC	C6-C5	2.63	1.38	1.34
54	2y	55	PSU	C4-N3	-2.63	1.33	1.38
32	1a	516	PSU	C4-N3	-2.62	1.34	1.38
1	1A	2503	2MA	C5-C6	2.60	1.48	1.41
54	2w	34	CM0	C4-N3	-2.59	1.34	1.38
55	1x	55	PSU	C4-N3	-2.59	1.34	1.38
54	1y	54	5MU	C2-N1	2.59	1.42	1.38
32	1a	527	7MG	C4-N9	-2.58	1.34	1.37
54	2y	34	CM0	C2-N1	2.57	1.42	1.38
1	2A	1917	PSU	C4-N3	-2.56	1.34	1.38
54	2y	46	7MG	C8-N9	2.56	1.47	1.45
55	2x	54	5MU	C4-N3	-2.55	1.34	1.38
54	2w	8	4SU	C2-N1	2.54	1.42	1.38
54	2y	37	6MZ	C8-N7	2.54	1.36	1.31
1	1A	1942	5MC	C6-C5	2.52	1.38	1.34
54	1w	54	5MU	C4-N3	-2.51	1.34	1.38
1	2A	1911	PSU	C4-N3	-2.50	1.34	1.38
54	2y	54	5MU	C6-C5	2.50	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	8	4SU	C5-C4	-2.49	1.39	1.42
1	1A	1939	5MU	C2-N1	2.49	1.42	1.38
1	1A	1915	5MU	C4-N3	-2.49	1.34	1.38
1	2A	1915	5MU	C4-C5	2.49	1.48	1.44
1	1A	1911	PSU	C4-N3	-2.48	1.34	1.38
32	2a	516	PSU	C4-N3	-2.48	1.34	1.38
54	2y	54	5MU	C2-N1	2.47	1.42	1.38
55	2x	55	PSU	C4-N3	-2.46	1.34	1.38
54	1w	37	6MZ	C8-N7	2.46	1.36	1.31
1	1A	2552	2MU	C5-C4	2.45	1.49	1.43
1	2A	2251	OMG	C6-N1	-2.45	1.34	1.38
32	2a	1498	UR3	C2-N1	2.45	1.41	1.38
32	1a	966	M2G	C6-N1	-2.43	1.34	1.38
32	2a	1518	MA6	C8-N7	2.43	1.36	1.31
1	1A	1915	5MU	C4-C5	2.42	1.48	1.44
54	2w	37	6MZ	C5-N7	-2.42	1.34	1.39
32	2a	966	M2G	C6-N1	-2.41	1.34	1.38
32	1a	1519	MA6	C8-N7	2.41	1.36	1.31
54	1y	37	6MZ	C8-N7	2.41	1.36	1.31
1	2A	1939	5MU	C4-C5	2.40	1.48	1.44
1	2A	2503	2MA	C5-N7	-2.39	1.34	1.39
1	2A	2503	2MA	C8-N7	2.39	1.36	1.31
1	1A	1942	5MC	C6-N1	-2.39	1.33	1.38
1	2A	1915	5MU	C4-N3	-2.39	1.34	1.38
54	1y	46	7MG	C6-N1	-2.39	1.34	1.38
54	1y	54	5MU	C4-N3	-2.38	1.34	1.38
32	1a	527	7MG	C6-N1	-2.38	1.34	1.38
32	2a	1207	2MG	C6-N1	-2.38	1.34	1.38
54	2w	55	PSU	C4-N3	-2.38	1.34	1.38
55	2x	54	5MU	C4-C5	2.37	1.48	1.44
1	2A	2552	2MU	C5-C4	2.37	1.48	1.43
54	1y	46	7MG	C4-N9	-2.37	1.34	1.37
1	1A	2503	2MA	C4-N9	-2.37	1.32	1.37
54	2y	54	5MU	C4-C5	2.36	1.48	1.44
55	2x	8	4SU	C2-N1	2.35	1.42	1.38
54	1y	54	5MU	C4-C5	2.34	1.48	1.44
32	2a	1519	MA6	C5-N7	-2.34	1.34	1.39
54	2w	34	CM0	C2-N1	2.32	1.42	1.38
54	1y	34	CM0	C2-N1	2.31	1.42	1.38
1	2A	1915	5MU	C6-N1	-2.30	1.34	1.38
54	2y	54	5MU	C6-N1	-2.30	1.34	1.38
1	1A	2503	2MA	C8-N7	2.30	1.36	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	8	4SU	C2-N1	2.30	1.42	1.38
55	2x	54	5MU	C2-N1	2.29	1.42	1.38
54	2y	54	5MU	C4-N3	-2.29	1.34	1.38
32	1a	1518	MA6	C8-N7	2.28	1.36	1.31
1	1A	1939	5MU	C4-C5	2.28	1.48	1.44
1	2A	1939	5MU	C6-N1	-2.27	1.34	1.38
1	1A	2251	OMG	C5-N7	-2.27	1.34	1.39
32	2a	1207	2MG	C2-N3	2.25	1.36	1.32
43	2l	92	0TD	CB-CA	2.24	1.55	1.54
32	2a	1400	5MC	C6-N1	-2.24	1.34	1.38
1	1A	2605	PSU	C2-N3	-2.23	1.33	1.37
32	2a	527	7MG	C6-N1	-2.23	1.34	1.38
55	1x	8	4SU	C2-N1	2.23	1.42	1.38
32	1a	1407	5MC	C6-N1	-2.22	1.34	1.38
55	1x	54	5MU	C4-C5	2.21	1.48	1.44
1	2A	1915	5MU	C2-N1	2.20	1.41	1.38
55	1x	54	5MU	C2-N1	2.20	1.41	1.38
54	1w	54	5MU	C2-N1	2.19	1.41	1.38
54	1y	54	5MU	C6-N1	-2.19	1.34	1.38
54	1w	37	6MZ	C5-N7	-2.19	1.35	1.39
54	2y	37	6MZ	C5-N7	-2.19	1.35	1.39
54	2w	54	5MU	C2-N1	2.18	1.41	1.38
32	1a	1404	5MC	C6-N1	-2.18	1.34	1.38
54	2y	34	CM0	C2-N3	-2.17	1.34	1.38
54	1w	55	PSU	C4-N3	-2.17	1.34	1.38
54	1y	37	6MZ	C5-N7	-2.17	1.35	1.39
32	1a	527	7MG	C8-N9	2.17	1.47	1.45
1	1A	1962	5MC	C6-N1	-2.17	1.34	1.38
32	1a	967	5MC	C6-N1	-2.17	1.34	1.38
1	2A	1939	5MU	C2-N1	2.17	1.41	1.38
32	2a	1518	MA6	C4-N9	-2.16	1.33	1.37
1	2A	2503	2MA	C4-N9	-2.16	1.33	1.37
54	1w	34	CM0	C2-N3	-2.16	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.16	1.34	1.38
1	1A	1939	5MU	C6-N1	-2.16	1.34	1.38
54	1y	34	CM0	C2-N3	-2.16	1.34	1.38
32	2a	1518	MA6	C5-N7	-2.16	1.35	1.39
1	1A	1939	5MU	C2-N3	-2.16	1.34	1.38
54	2w	46	7MG	C5-C6	2.16	1.48	1.43
1	1A	2503	2MA	C5-N7	-2.15	1.35	1.39
1	1A	2552	2MU	C2-N1	2.15	1.41	1.38
32	1a	1519	MA6	C5-N7	-2.14	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	54	5MU	C4-C5	2.14	1.48	1.44
1	2A	1942	5MC	C6-N1	-2.13	1.34	1.38
55	2x	32	5MC	C6-N1	-2.13	1.34	1.38
32	1a	1519	MA6	C4-N9	-2.12	1.33	1.37
32	2a	1519	MA6	C8-N7	2.12	1.35	1.31
32	1a	1518	MA6	C5-N7	-2.12	1.35	1.39
1	2A	1962	5MC	C6-N1	-2.12	1.34	1.38
55	1x	32	5MC	C6-N1	-2.12	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.11	1.34	1.38
1	2A	2251	OMG	C5-N7	-2.10	1.34	1.39
32	2a	1498	UR3	C6-C5	2.10	1.40	1.35
1	2A	1939	5MU	C2-N3	-2.10	1.34	1.38
55	2x	54	5MU	C6-N1	-2.10	1.34	1.38
1	1A	2552	2MU	C2-N3	-2.09	1.34	1.38
54	2w	37	6MZ	C8-N7	2.09	1.35	1.31
54	1w	8	4SU	C2-N3	-2.09	1.34	1.38
55	2x	54	5MU	C2-N3	-2.08	1.34	1.38
54	2w	34	CM0	C2-N3	-2.08	1.34	1.38
54	1w	34	CM0	C2-N1	2.08	1.41	1.38
32	2a	967	5MC	C6-N1	-2.07	1.34	1.38
55	1x	8	4SU	O2-C2	2.07	1.26	1.23
54	1w	54	5MU	C6-N1	-2.06	1.34	1.38
1	2A	2605	PSU	C2-N3	-2.06	1.34	1.37
32	2a	966	M2G	C5-N7	-2.05	1.35	1.39
32	2a	1207	2MG	C5-N7	-2.04	1.35	1.39
1	2A	2552	2MU	C2-N3	-2.03	1.34	1.38
32	2a	1404	5MC	C6-N1	-2.03	1.34	1.38
54	1w	54	5MU	C4-C5	2.02	1.48	1.44

All (416) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	1l	92	0TD	CSB-SB-CB	-21.75	63.27	102.36
54	2y	46	7MG	N9-C4-N3	9.85	139.90	125.46
32	1a	527	7MG	N9-C4-N3	9.43	139.29	125.46
54	1y	46	7MG	N9-C4-N3	9.32	139.12	125.46
32	2a	527	7MG	N9-C4-N3	8.92	138.54	125.46
54	1w	46	7MG	N9-C4-N3	8.69	138.19	125.46
54	2w	46	7MG	N9-C4-N3	8.02	137.22	125.46
1	2A	2503	2MA	C5-C4-N3	-8.00	118.76	127.18
54	2y	8	4SU	C4-N3-C2	-7.30	120.31	127.31
32	1a	1498	UR3	C4-N3-C2	-7.20	118.78	124.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1207	2MG	C2-N3-C4	7.19	121.00	112.00
54	2w	8	4SU	C4-N3-C2	-7.05	120.56	127.31
32	1a	1207	2MG	C2-N3-C4	6.91	120.65	112.00
1	1A	2503	2MA	C5-C4-N3	-6.83	119.98	127.18
54	2y	8	4SU	C5-C4-N3	6.76	121.04	114.75
32	2a	1498	UR3	C4-N3-C2	-6.66	119.22	124.58
1	1A	1917	PSU	N1-C2-N3	6.54	122.07	115.17
54	2y	55	PSU	N1-C2-N3	6.43	121.95	115.17
1	1A	2251	OMG	C5-C4-N3	-6.39	118.22	128.39
54	1y	55	PSU	N1-C2-N3	6.39	121.91	115.17
32	1a	516	PSU	N1-C2-N3	6.37	121.89	115.17
54	1y	8	4SU	C1'-N1-C2	6.35	129.00	117.59
1	1A	1911	PSU	N1-C2-N3	6.34	121.86	115.17
55	1x	55	PSU	N1-C2-N3	6.34	121.86	115.17
1	2A	1917	PSU	N1-C2-N3	6.33	121.84	115.17
1	2A	2251	OMG	C5-C4-N3	-6.30	118.36	128.39
32	2a	1207	2MG	C5-C4-N3	-6.26	118.42	128.39
54	1w	8	4SU	C4-N3-C2	-6.23	121.34	127.31
54	2w	37	6MZ	C5-C4-N3	-6.22	118.16	126.72
54	2y	37	6MZ	C5-C4-N3	-6.18	118.21	126.72
55	2x	55	PSU	N1-C2-N3	6.15	121.66	115.17
1	2A	1911	PSU	N1-C2-N3	6.15	121.66	115.17
32	2a	966	M2G	C5-C4-N3	-6.09	118.69	128.39
32	1a	966	M2G	C5-C4-N3	-6.09	118.70	128.39
1	2A	2605	PSU	N1-C2-N3	6.01	121.51	115.17
32	2a	1519	MA6	C5-C4-N3	-5.98	118.48	126.72
32	2a	516	PSU	N1-C2-N3	5.97	121.47	115.17
54	2w	55	PSU	N1-C2-N3	5.96	121.45	115.17
1	1A	2605	PSU	N1-C2-N3	5.95	121.45	115.17
54	2y	8	4SU	C5-C4-S4	-5.95	117.51	124.31
1	2A	2503	2MA	N3-C4-N9	5.94	134.53	126.99
54	1w	55	PSU	N1-C2-N3	5.94	121.43	115.17
54	1w	8	4SU	C5-C4-N3	5.83	120.18	114.75
32	1a	527	7MG	C5-C4-N3	-5.83	117.19	128.13
54	1y	37	6MZ	C5-C4-N3	-5.75	118.79	126.72
54	2y	46	7MG	C5-C4-N3	-5.74	117.35	128.13
54	2w	8	4SU	C5-C4-N3	5.73	120.08	114.75
54	1w	37	6MZ	C5-C4-N3	-5.72	118.84	126.72
32	1a	1207	2MG	C5-C4-N3	-5.70	119.32	128.39
54	1y	34	CM0	N3-C2-N1	5.67	122.28	114.89
54	1w	46	7MG	N9-C8-N7	-5.62	95.42	103.37
54	2y	34	CM0	N3-C2-N1	5.57	122.14	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	34	CM0	C4-N3-C2	-5.57	120.03	127.34
1	1A	2503	2MA	N3-C4-N9	5.55	134.03	126.99
54	1y	46	7MG	C5-C4-N3	-5.53	117.75	128.13
32	2a	527	7MG	N9-C8-N7	-5.44	95.67	103.37
1	2A	1939	5MU	C4-N3-C2	-5.43	120.23	127.34
32	1a	1518	MA6	C5-C4-N3	-5.40	119.28	126.72
1	1A	2552	2MU	N3-C2-N1	5.36	121.86	114.89
1	2A	1939	5MU	N3-C2-N1	5.35	121.85	114.89
54	2y	54	5MU	C4-N3-C2	-5.33	120.35	127.34
54	2w	46	7MG	C5-C4-N3	-5.32	118.14	128.13
54	2w	34	CM0	N3-C2-N1	5.30	121.79	114.89
54	2w	37	6MZ	N3-C4-N9	5.29	136.16	127.17
54	1y	54	5MU	C4-N3-C2	-5.28	120.41	127.34
32	2a	527	7MG	C5-C4-N3	-5.28	118.22	128.13
54	1y	8	4SU	C4-N3-C2	-5.27	122.27	127.31
1	1A	1939	5MU	C4-N3-C2	-5.26	120.44	127.34
54	1w	34	CM0	C4-N3-C2	-5.25	120.46	127.34
54	1y	46	7MG	N9-C8-N7	-5.23	95.96	103.37
54	2w	34	CM0	C4-N3-C2	-5.22	120.50	127.34
54	1y	54	5MU	N3-C2-N1	5.21	121.67	114.89
54	2w	46	7MG	N9-C8-N7	-5.21	96.00	103.37
1	1A	2251	OMG	C2-N3-C4	5.19	121.23	112.30
1	2A	2552	2MU	N3-C2-N1	5.17	121.63	114.89
54	1w	34	CM0	N3-C2-N1	5.15	121.60	114.89
54	2y	34	CM0	C4-N3-C2	-5.11	120.63	127.34
32	1a	1519	MA6	C5-C4-N3	-5.09	119.71	126.72
54	1w	54	5MU	C4-N3-C2	-5.07	120.69	127.34
54	1w	54	5MU	N3-C2-N1	5.02	121.43	114.89
1	2A	2251	OMG	C2-N3-C4	5.00	120.91	112.30
32	2a	1518	MA6	C5-C4-N3	-5.00	119.84	126.72
1	2A	1915	5MU	C4-N3-C2	-4.93	120.88	127.34
54	1w	46	7MG	C5-C4-N3	-4.92	118.89	128.13
32	1a	527	7MG	N9-C8-N7	-4.90	96.43	103.37
1	1A	1939	5MU	N3-C2-N1	4.90	121.27	114.89
1	2A	1915	5MU	N3-C2-N1	4.90	121.27	114.89
55	2x	54	5MU	N3-C2-N1	4.89	121.25	114.89
54	2y	54	5MU	C5-C4-N3	4.86	119.55	115.32
1	1A	1915	5MU	N3-C2-N1	4.85	121.20	114.89
1	1A	1939	5MU	C5-C4-N3	4.82	119.52	115.32
1	2A	2251	OMG	N9-C4-N3	4.82	135.59	125.95
1	1A	2552	2MU	C4-N3-C2	-4.80	120.65	126.61
32	2a	966	M2G	N9-C4-N3	4.80	135.55	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	8	4SU	C5-C4-N3	4.79	119.21	114.75
55	2x	54	5MU	C4-N3-C2	-4.78	121.07	127.34
54	2y	46	7MG	C2-N3-C4	4.76	120.50	112.30
1	1A	2251	OMG	N9-C4-N3	4.76	135.46	125.95
54	1w	54	5MU	O4-C4-C5	-4.75	119.48	124.92
54	1y	34	CM0	C7-O5-C5	4.74	123.52	117.48
1	2A	2552	2MU	C4-N3-C2	-4.68	120.81	126.61
54	2y	54	5MU	N3-C2-N1	4.67	120.97	114.89
54	1w	55	PSU	O2-C2-N1	-4.64	118.00	122.79
54	2w	46	7MG	C2-N3-C4	4.63	120.28	112.30
54	2y	8	4SU	C1'-N1-C2	4.63	125.90	117.59
54	2y	46	7MG	N9-C8-N7	-4.62	96.84	103.37
32	2a	1519	MA6	N3-C4-N9	4.61	135.01	127.17
54	2w	54	5MU	N3-C2-N1	4.60	120.88	114.89
32	1a	966	M2G	C2-N3-C4	4.59	121.01	112.51
32	1a	966	M2G	N9-C4-N3	4.57	135.10	125.95
32	2a	1518	MA6	C9-N6-C6	-4.57	108.90	120.52
55	1x	54	5MU	N3-C2-N1	4.56	120.83	114.89
54	1y	46	7MG	C2-N3-C4	4.56	120.15	112.30
54	1y	54	5MU	C5-C4-N3	4.56	119.28	115.32
55	1x	8	4SU	C5-C4-N3	4.55	118.98	114.75
54	2y	37	6MZ	N3-C4-N9	4.55	134.90	127.17
1	2A	1939	5MU	C5-C4-N3	4.52	119.25	115.32
32	1a	527	7MG	C2-N3-C4	4.51	120.07	112.30
54	2w	54	5MU	C4-N3-C2	-4.50	121.43	127.34
32	2a	1518	MA6	C2-N1-C6	4.50	122.83	111.83
54	1y	37	6MZ	N3-C4-N9	4.48	134.79	127.17
32	2a	1207	2MG	N9-C4-N3	4.47	134.89	125.95
54	2y	54	5MU	O4-C4-C5	-4.47	119.81	124.92
32	1a	1519	MA6	C2-N1-C6	4.46	122.73	111.83
1	1A	1915	5MU	C4-N3-C2	-4.46	121.49	127.34
32	2a	527	7MG	C2-N3-C4	4.43	119.92	112.30
54	2w	8	4SU	N3-C2-N1	4.42	120.64	114.89
54	1y	54	5MU	O4-C4-C5	-4.41	119.88	124.92
32	2a	966	M2G	C2-N3-C4	4.40	120.65	112.51
54	1w	46	7MG	C2-N3-C4	4.37	119.83	112.30
32	1a	1518	MA6	C9-N6-C6	-4.37	109.41	120.52
32	1a	1518	MA6	C2-N1-C6	4.35	122.46	111.83
54	1w	54	5MU	C5-C4-N3	4.32	119.08	115.32
54	1w	37	6MZ	N3-C4-N9	4.30	134.48	127.17
55	2x	8	4SU	C5-C4-N3	4.30	118.75	114.75
54	1y	55	PSU	C4-N3-C2	-4.29	120.46	126.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	1518	MA6	N3-C4-N9	4.25	134.40	127.17
55	1x	55	PSU	C4-N3-C2	-4.21	120.57	126.37
32	1a	1519	MA6	C4-C5-N7	-4.21	105.77	110.58
32	2a	1519	MA6	C2-N1-C6	4.21	122.11	111.83
54	2y	55	PSU	C4-N3-C2	-4.19	120.61	126.37
1	2A	1939	5MU	O4-C4-C5	-4.17	120.14	124.92
54	2w	54	5MU	O4-C4-C5	-4.17	120.15	124.92
32	1a	1519	MA6	C9-N6-C6	-4.14	109.99	120.52
1	2A	1917	PSU	C4-N3-C2	-4.14	120.67	126.37
1	2A	2605	PSU	C4-N3-C2	-4.14	120.67	126.37
32	1a	516	PSU	C4-N3-C2	-4.13	120.68	126.37
1	1A	1917	PSU	C4-N3-C2	-4.12	120.69	126.37
1	1A	1939	5MU	O4-C4-C5	-4.12	120.20	124.92
1	2A	1915	5MU	C5-C4-N3	4.10	118.89	115.32
1	2A	1915	5MU	O4-C4-C5	-4.10	120.23	124.92
54	2w	8	4SU	C5-C4-S4	-4.10	119.62	124.31
55	1x	54	5MU	C4-N3-C2	-4.07	122.00	127.34
1	1A	1939	5MU	C5-C6-N1	-4.07	118.90	123.31
55	2x	54	5MU	O4-C4-C5	-4.06	120.27	124.92
55	2x	54	5MU	C5-C4-N3	4.06	118.85	115.32
55	2x	55	PSU	C4-N3-C2	-4.05	120.79	126.37
54	1y	8	4SU	N3-C2-N1	4.05	120.16	114.89
1	1A	2605	PSU	C4-N3-C2	-4.04	120.80	126.37
1	1A	1915	5MU	O4-C4-C5	-4.03	120.30	124.92
54	2w	54	5MU	C5-C4-N3	4.03	118.83	115.32
32	2a	1519	MA6	C9-N6-C6	-3.99	110.36	120.52
32	2a	1519	MA6	C4-C5-N7	-3.99	106.02	110.58
32	2a	516	PSU	C4-N3-C2	-3.98	120.89	126.37
54	2y	37	6MZ	C4-C5-N7	-3.97	106.04	110.58
1	1A	1911	PSU	C4-N3-C2	-3.97	120.90	126.37
1	1A	1911	PSU	O2-C2-N1	-3.96	118.70	122.79
55	2x	8	4SU	C1'-N1-C2	3.94	124.68	117.59
1	2A	1911	PSU	C4-N3-C2	-3.92	120.97	126.37
1	1A	1915	5MU	C5-C4-N3	3.91	118.72	115.32
32	2a	1400	5MC	C5-C6-N1	-3.90	119.08	123.31
55	1x	8	4SU	C1'-N1-C2	3.88	124.56	117.59
1	2A	1939	5MU	C5-C6-N1	-3.84	119.14	123.31
32	1a	1207	2MG	N9-C4-N3	3.84	133.64	125.95
54	2w	55	PSU	C4-N3-C2	-3.82	121.11	126.37
54	1w	8	4SU	C5-C4-S4	-3.81	119.96	124.31
32	2a	1518	MA6	N3-C4-N9	3.79	133.62	127.17
54	1y	37	6MZ	C9-N6-C6	-3.78	119.34	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	1518	MA6	C4-C5-N7	-3.76	106.28	110.58
1	2A	2503	2MA	C4-C5-N7	-3.75	106.29	110.58
54	1y	37	6MZ	C2-N3-C4	3.74	120.95	111.83
32	1a	1207	2MG	C6-C5-N7	3.70	137.02	130.29
32	2a	1518	MA6	C4-C5-N7	-3.67	106.39	110.58
54	1w	8	4SU	N3-C2-N1	3.66	119.66	114.89
32	1a	1519	MA6	N3-C4-N9	3.65	133.37	127.17
54	1w	37	6MZ	C6-C5-N7	3.64	136.40	132.43
54	2y	37	6MZ	C2-N3-C4	3.64	120.72	111.83
54	1w	37	6MZ	C2-N3-C4	3.64	120.72	111.83
54	2w	55	PSU	O2-C2-N1	-3.64	119.04	122.79
32	2a	1519	MA6	C2-N3-C4	3.62	120.67	111.83
54	1y	37	6MZ	C6-C5-N7	3.61	136.37	132.43
43	2l	92	0TD	CSB-SB-CB	-3.61	95.88	102.36
1	2A	1917	PSU	O2-C2-N1	-3.60	119.08	122.79
54	1w	37	6MZ	C4-C5-N7	-3.59	106.47	110.58
1	1A	1917	PSU	O2-C2-N1	-3.59	119.09	122.79
55	1x	54	5MU	O4-C4-C5	-3.58	120.82	124.92
32	1a	1518	MA6	C2-N3-C4	3.58	120.57	111.83
32	1a	1519	MA6	C2-N3-C4	3.57	120.56	111.83
54	1y	37	6MZ	C4-C5-N7	-3.57	106.50	110.58
54	2w	37	6MZ	C2-N3-C4	3.55	120.51	111.83
55	1x	54	5MU	C5-C4-N3	3.55	118.41	115.32
32	2a	516	PSU	O2-C2-N1	-3.54	119.13	122.79
54	1w	55	PSU	C4-N3-C2	-3.54	121.49	126.37
55	1x	55	PSU	O2-C2-N1	-3.53	119.14	122.79
32	1a	1519	MA6	N1-C2-N3	-3.52	123.26	128.58
1	1A	2503	2MA	C4-N9-C8	3.50	109.41	105.74
54	2y	55	PSU	O2-C2-N1	-3.50	119.18	122.79
54	2y	8	4SU	N3-C2-N1	3.48	119.42	114.89
54	1w	54	5MU	C5-C6-N1	-3.48	119.54	123.31
32	1a	1400	5MC	C5-C6-N1	-3.47	119.54	123.31
32	1a	1498	UR3	C5-C4-N3	3.47	119.61	115.04
1	2A	1911	PSU	O2-C2-N1	-3.46	119.22	122.79
54	2y	37	6MZ	C6-C5-N7	3.46	136.20	132.43
32	2a	1518	MA6	N1-C2-N3	-3.46	123.35	128.58
32	2a	1518	MA6	C2-N3-C4	3.45	120.27	111.83
54	1y	55	PSU	O2-C2-N1	-3.39	119.29	122.79
54	1y	8	4SU	O2-C2-N3	-3.38	115.25	121.49
54	1y	37	6MZ	N1-C2-N3	-3.36	123.50	128.58
32	1a	1518	MA6	N1-C2-N3	-3.34	123.53	128.58
1	1A	1962	5MC	C5-C6-N1	-3.33	119.70	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2w	34	CM0	C7-O5-C5	3.32	121.71	117.48
54	1y	8	4SU	C5-C4-S4	-3.29	120.55	124.31
54	2y	34	CM0	C7-O5-C5	3.28	121.67	117.48
1	2A	2552	2MU	O2-C2-N1	-3.28	118.52	122.80
32	1a	516	PSU	O2-C2-N1	-3.27	119.41	122.79
43	2l	92	0TD	OD2-CG-CB	3.27	120.22	113.15
32	1a	1407	5MC	C5-C6-N1	-3.27	119.77	123.31
55	2x	55	PSU	O2-C2-N1	-3.26	119.42	122.79
1	1A	2503	2MA	C4-C5-N7	-3.26	106.86	110.58
54	1y	8	4SU	C1'-N1-C6	-3.25	113.83	120.78
54	2w	54	5MU	C5-C6-N1	-3.24	119.79	123.31
32	2a	967	5MC	C5-C6-N1	-3.23	119.80	123.31
32	1a	966	M2G	C6-C5-N7	3.22	136.14	130.29
54	1y	8	4SU	C6-N1-C2	-3.21	117.09	121.00
55	1x	8	4SU	C6-C5-C4	-3.21	117.17	119.95
32	2a	1207	2MG	C6-C5-N7	3.20	136.11	130.29
54	1w	34	CM0	C7-O5-C5	3.19	121.55	117.48
1	2A	1915	5MU	C5-C6-N1	-3.19	119.85	123.31
55	1x	32	5MC	C5-C6-N1	-3.17	119.87	123.31
55	2x	54	5MU	C5-C6-N1	-3.17	119.87	123.31
54	1w	37	6MZ	C9-N6-C6	-3.17	119.91	122.85
1	2A	1962	5MC	C5-C6-N1	-3.17	119.88	123.31
1	1A	2503	2MA	C2-N1-C6	3.16	122.95	118.10
32	2a	1407	5MC	C5-C6-N1	-3.15	119.89	123.31
1	1A	2503	2MA	N6-C6-N1	3.15	121.27	117.03
32	1a	1404	5MC	C5-C6-N1	-3.14	119.90	123.31
54	2y	54	5MU	C5-C6-N1	-3.12	119.93	123.31
1	1A	1942	5MC	C5-C4-N3	-3.11	118.56	121.75
54	1y	54	5MU	C5-C6-N1	-3.10	119.94	123.31
32	2a	1519	MA6	N1-C6-N6	3.10	120.63	116.86
32	1a	967	5MC	C5-C6-N1	-3.09	119.95	123.31
1	1A	1942	5MC	C5-C6-N1	-3.09	119.96	123.31
1	1A	2251	OMG	C6-C5-N7	3.09	135.91	130.29
32	2a	1404	5MC	C5-C6-N1	-3.09	119.96	123.31
54	1w	37	6MZ	N1-C2-N3	-3.08	123.92	128.58
55	2x	8	4SU	O2-C2-N3	-3.06	115.84	121.49
55	2x	32	5MC	O2-C2-N3	-3.06	117.50	122.33
55	2x	32	5MC	C5-C6-N1	-3.06	119.99	123.31
54	2y	8	4SU	C1'-N1-C6	-3.06	114.24	120.78
54	2w	37	6MZ	C4-C5-N7	-3.05	107.09	110.58
32	1a	1518	MA6	C10-N6-C6	-3.04	112.80	120.52
1	2A	1942	5MC	C5-C6-N1	-3.03	120.02	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	2251	OMG	C6-C5-N7	3.02	135.78	130.29
55	1x	32	5MC	C5-C4-N3	-3.01	118.67	121.75
55	2x	32	5MC	C5-C4-N3	-2.99	118.69	121.75
32	2a	1519	MA6	N1-C2-N3	-2.98	124.07	128.58
1	2A	2605	PSU	O2-C2-N1	-2.97	119.72	122.79
1	2A	2552	2MU	C5-C4-N3	2.97	118.95	114.80
54	1y	34	CM0	O2-C2-N1	-2.96	118.94	122.80
43	1l	92	0TD	OD2-CG-CB	2.96	119.55	113.15
1	1A	2605	PSU	O2-C2-N1	-2.93	119.76	122.79
32	2a	966	M2G	C6-C5-N7	2.93	135.62	130.29
32	1a	1519	MA6	C5-N7-C8	2.92	108.04	103.45
32	1a	1518	MA6	C4-N9-C8	2.92	108.80	105.74
32	2a	1498	UR3	C5-C4-N3	2.91	118.87	115.04
32	1a	1207	2MG	C4-C5-N7	-2.90	106.07	110.67
54	2w	46	7MG	C5-C6-N1	2.90	116.05	110.94
54	2y	37	6MZ	C9-N6-C6	-2.90	120.16	122.85
55	2x	8	4SU	O2-C2-N1	2.89	126.55	122.80
1	1A	2552	2MU	C5-C4-N3	2.88	118.84	114.80
55	1x	8	4SU	O2-C2-N1	2.88	126.55	122.80
54	1w	34	CM0	O2-C2-N1	-2.84	119.10	122.80
32	2a	1518	MA6	C10-N6-C6	-2.83	113.32	120.52
32	1a	1407	5MC	C5-C4-N3	-2.83	118.86	121.75
32	2a	1519	MA6	C10-N6-C6	-2.82	113.33	120.52
32	2a	1400	5MC	C5-C4-N3	-2.81	118.87	121.75
32	1a	527	7MG	C5-C6-N1	2.81	115.89	110.94
54	2y	46	7MG	C5-C4-N9	-2.81	102.74	106.33
32	2a	1519	MA6	C5-N7-C8	2.80	107.86	103.45
55	1x	54	5MU	C5-C6-N1	-2.80	120.27	123.31
32	1a	1519	MA6	C10-N6-C6	-2.80	113.40	120.52
32	2a	527	7MG	C5-C6-N1	2.79	115.85	110.94
54	2y	54	5MU	C1'-N1-C6	-2.77	116.58	121.15
32	1a	1404	5MC	C5-C4-N3	-2.77	118.92	121.75
1	1A	1915	5MU	C1'-N1-C2	2.77	122.56	117.59
32	1a	1519	MA6	C4-N9-C8	2.76	108.63	105.74
54	2y	37	6MZ	N1-C2-N3	-2.75	124.41	128.58
54	2y	37	6MZ	C5-N7-C8	2.75	107.77	103.45
1	2A	2503	2MA	N6-C6-N1	2.74	120.73	117.03
32	1a	1518	MA6	C5-N7-C8	2.74	107.76	103.45
54	2w	37	6MZ	N1-C2-N3	-2.74	124.44	128.58
1	1A	2552	2MU	O2-C2-N1	-2.74	119.24	122.80
1	2A	1942	5MC	C5-C4-N3	-2.73	118.96	121.75
1	2A	1939	5MU	O2-C2-N1	-2.73	119.24	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1518	MA6	C4-N9-C8	2.72	108.60	105.74
54	2y	54	5MU	C1'-N1-C2	2.72	122.47	117.59
32	1a	967	5MC	C5-C4-N3	-2.71	118.98	121.75
32	2a	1407	5MC	C5-C4-N3	-2.70	118.99	121.75
1	2A	2503	2MA	C2-N1-C6	2.70	122.25	118.10
54	2w	34	CM0	O2-C2-N1	-2.70	119.28	122.80
54	2w	37	6MZ	C4-N9-C8	2.69	108.57	105.74
1	2A	1962	5MC	C5-C4-N3	-2.69	118.99	121.75
32	1a	1518	MA6	N1-C6-N6	2.68	120.12	116.86
54	1w	54	5MU	O2-C2-N1	-2.68	119.31	122.80
32	1a	1400	5MC	C5-C4-N3	-2.67	119.02	121.75
54	2w	55	PSU	C6-C5-C4	-2.67	116.37	118.17
54	1w	46	7MG	C5-C4-N9	-2.66	102.92	106.33
1	2A	2503	2MA	C4-N9-C8	2.65	108.52	105.74
32	2a	1207	2MG	C4-C5-N7	-2.65	106.48	110.67
1	2A	2503	2MA	C5-N7-C8	2.63	107.59	103.45
1	1A	1962	5MC	C5-C4-N3	-2.62	119.07	121.75
54	1y	46	7MG	C5-C6-N1	2.61	115.54	110.94
54	2w	8	4SU	C1'-N1-C2	2.61	122.28	117.59
54	1w	46	7MG	C5-C6-N1	2.59	115.50	110.94
32	1a	1519	MA6	C6-C5-N7	2.59	137.57	133.43
1	2A	2552	2MU	O4-C4-C5	-2.57	120.72	125.16
32	1a	1518	MA6	C10-N6-C9	-2.57	107.92	116.18
1	1A	1915	5MU	C5-C6-N1	-2.56	120.53	123.31
32	2a	967	5MC	C5-C4-N3	-2.54	119.15	121.75
54	1y	37	6MZ	C4-N9-C8	2.54	108.40	105.74
32	2a	1518	MA6	C10-N6-C9	-2.53	108.05	116.18
54	1y	37	6MZ	C5-N7-C8	2.52	107.41	103.45
32	2a	1404	5MC	C5-C4-N3	-2.52	119.17	121.75
55	1x	32	5MC	O2-C2-N3	-2.52	118.36	122.33
54	2y	54	5MU	C5M-C5-C4	2.52	121.47	118.78
32	2a	1518	MA6	C5-N7-C8	2.52	107.41	103.45
54	1y	46	7MG	C5-C4-N9	-2.51	103.12	106.33
1	1A	2251	OMG	C4-C5-N7	-2.50	106.71	110.67
1	2A	1915	5MU	O2-C2-N1	-2.50	119.55	122.80
54	1w	55	PSU	C6-C5-C4	-2.50	116.49	118.17
1	1A	1920	4OC	O2-C2-N3	-2.49	118.40	122.33
1	1A	2503	2MA	N9-C8-N7	-2.49	110.40	113.94
1	1A	2552	2MU	O4-C4-C5	-2.49	120.88	125.16
1	2A	2251	OMG	C4-C5-N7	-2.48	106.74	110.67
1	1A	2503	2MA	C5-N7-C8	2.47	107.34	103.45
54	2w	54	5MU	O2-C2-N1	-2.47	119.58	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	966	M2G	C4-C5-N7	-2.47	106.75	110.67
1	1A	2503	2MA	C6-C5-N7	2.44	136.80	132.09
54	1w	37	6MZ	C5-N7-C8	2.43	107.27	103.45
32	2a	527	7MG	C5-C4-N9	-2.42	103.23	106.33
32	2a	1518	MA6	N1-C6-N6	2.42	119.80	116.86
54	2w	37	6MZ	C5-N7-C8	2.41	107.24	103.45
32	2a	1498	UR3	C6-N1-C2	-2.39	119.84	121.80
32	2a	1519	MA6	C4-N9-C8	2.38	108.24	105.74
54	1w	8	4SU	C1'-N1-C2	2.37	121.86	117.59
32	2a	966	M2G	C4-C5-N7	-2.36	106.94	110.67
54	1w	46	7MG	O6-C6-C5	-2.35	121.84	127.62
1	2A	1917	PSU	C5-C6-N1	-2.35	118.88	122.14
1	1A	1915	5MU	O2-C2-N3	-2.35	117.16	121.49
32	1a	1519	MA6	N9-C8-N7	-2.33	110.62	113.94
54	1y	55	PSU	C5-C6-N1	-2.33	118.90	122.14
54	2y	54	5MU	O2-C2-N1	-2.33	119.76	122.80
32	1a	527	7MG	O6-C6-C5	-2.32	121.92	127.62
32	1a	516	PSU	O4'-C1'-C2'	2.31	108.35	105.15
32	1a	1402	4OC	C6-C5-C4	2.31	119.78	117.00
55	2x	8	4SU	C4-N3-C2	-2.30	125.11	127.31
55	1x	55	PSU	C5-C6-N1	-2.30	118.95	122.14
55	1x	8	4SU	O2-C2-N3	-2.29	117.26	121.49
1	2A	2552	2MU	C2'-C1'-N1	-2.29	109.90	114.24
55	2x	54	5MU	O2-C2-N1	-2.28	119.83	122.80
54	1w	37	6MZ	C4-N9-C8	2.27	108.12	105.74
1	2A	2503	2MA	C6-C5-N7	2.26	136.46	132.09
43	2l	92	0TD	OD1-CG-CB	-2.24	117.75	122.44
55	1x	8	4SU	C1'-N1-C6	-2.24	116.00	120.78
55	1x	54	5MU	O2-C2-N1	-2.24	119.89	122.80
32	1a	527	7MG	C5-C4-N9	-2.21	103.51	106.33
1	1A	2251	OMG	O6-C6-C5	-2.21	120.71	126.53
32	1a	1518	MA6	N9-C8-N7	-2.19	110.84	113.94
32	1a	966	M2G	O6-C6-C5	-2.18	120.78	126.53
32	2a	1207	2MG	C2-N1-C6	-2.18	121.92	124.55
32	2a	1207	2MG	N1-C2-N2	2.18	118.78	116.56
32	2a	527	7MG	O6-C6-C5	-2.17	122.30	127.62
54	2y	46	7MG	C4-C5-N7	2.17	107.94	105.38
32	2a	1498	UR3	C1'-N1-C2	2.17	120.59	117.04
32	2a	1518	MA6	C6-C5-N7	2.17	136.89	133.43
1	2A	2503	2MA	N9-C8-N7	-2.15	110.88	113.94
32	1a	967	5MC	O2-C2-N3	-2.15	118.94	122.33
55	1x	8	4SU	C5-C4-S4	-2.14	121.86	124.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	34	CM0	O2-C2-N1	-2.14	120.01	122.80
1	2A	2251	OMG	O6-C6-C5	-2.14	120.89	126.53
32	2a	1404	5MC	O2-C2-N3	-2.14	118.96	122.33
54	2y	46	7MG	C5-C6-N1	2.13	114.69	110.94
54	2w	46	7MG	O6-C6-C5	-2.13	122.39	127.62
1	1A	1942	5MC	CM5-C5-C6	-2.13	119.97	122.85
32	2a	1207	2MG	O6-C6-C5	-2.11	120.97	126.53
55	2x	8	4SU	C1'-N1-C6	-2.11	116.28	120.78
54	2y	55	PSU	C5-C6-N1	-2.10	119.23	122.14
55	2x	8	4SU	C6-C5-C4	-2.09	118.14	119.95
43	1l	92	0TD	OD1-CG-CB	-2.09	118.06	122.44
54	1y	54	5MU	C1'-N1-C2	2.09	121.35	117.59
55	2x	8	4SU	N3-C2-N1	2.09	117.61	114.89
1	2A	2605	PSU	C5-C6-N1	-2.09	119.25	122.14
32	1a	1207	2MG	N1-C2-N2	2.08	118.69	116.56
32	1a	516	PSU	C5-C6-N1	-2.07	119.27	122.14
54	1y	54	5MU	O2-C2-N1	-2.06	120.12	122.80
32	1a	1518	MA6	C6-C5-N7	2.06	136.71	133.43
55	2x	55	PSU	C5-C6-N1	-2.05	119.29	122.14
54	2w	37	6MZ	C6-C5-N7	2.05	134.66	132.43
1	1A	2251	OMG	C5-C6-N1	2.04	118.43	113.25
54	2y	37	6MZ	C4-N9-C8	2.03	107.87	105.74
32	2a	1518	MA6	N9-C8-N7	-2.03	111.06	113.94
32	2a	966	M2G	O6-C6-C5	-2.02	121.20	126.53
54	1y	37	6MZ	C2-N1-C6	2.01	121.91	115.24
1	2A	1915	5MU	C5M-C5-C4	2.01	120.93	118.78
1	1A	2605	PSU	C5-C6-N1	-2.01	119.35	122.14
32	2a	516	PSU	O4'-C1'-C2'	2.00	107.92	105.15

There are no chirality outliers.

All (90) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	967	5MC	O4'-C4'-C5'-O5'
32	1a	1400	5MC	O4'-C4'-C5'-O5'
32	2a	966	M2G	N1-C2-N2-CM2
32	2a	966	M2G	N3-C2-N2-CM1
32	2a	966	M2G	N3-C2-N2-CM2
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
54	2w	37	6MZ	C5-C6-N6-C9
54	2w	37	6MZ	N1-C6-N6-C9

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Mol	Chain	Res	Type	Atoms
54	1w	46	7MG	O4'-C4'-C5'-O5'
54	1w	46	7MG	C3'-C4'-C5'-O5'
54	1y	46	7MG	C4'-C5'-O5'-P
54	2y	46	7MG	C2'-C1'-N9-C8
54	1y	54	5MU	O4'-C4'-C5'-O5'
54	2y	34	CM0	O5-C7-C8-O9
54	1y	8	4SU	C2'-C1'-N1-C6
54	1y	8	4SU	C2'-C1'-N1-C2
32	1a	967	5MC	C3'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1207	2MG	O4'-C4'-C5'-O5'
32	2a	1207	2MG	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
1	1A	1915	5MU	C3'-C4'-C5'-O5'
1	1A	1915	5MU	O4'-C4'-C5'-O5'
54	1y	46	7MG	C3'-C4'-C5'-O5'
54	1y	54	5MU	C3'-C4'-C5'-O5'
54	2y	54	5MU	C3'-C4'-C5'-O5'
54	2y	54	5MU	O4'-C4'-C5'-O5'
32	1a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	967	5MC	O4'-C4'-C5'-O5'
54	2w	34	CM0	C4-C5-O5-C7
54	1y	34	CM0	O5-C7-C8-O8
54	2y	34	CM0	O5-C7-C8-O8
32	2a	1400	5MC	C2'-C1'-N1-C6
32	2a	527	7MG	C4'-C5'-O5'-P
32	1a	1400	5MC	C3'-C4'-C5'-O5'
32	2a	527	7MG	C3'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
54	2w	34	CM0	C6-C5-O5-C7
32	2a	1400	5MC	C2'-C1'-N1-C2
54	2w	34	CM0	C8-C7-O5-C5
54	1y	34	CM0	O5-C7-C8-O9
54	2w	34	CM0	O5-C7-C8-O9
54	1y	46	7MG	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C5-C6-N6-C10
54	1w	34	CM0	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
54	1w	34	CM0	O5-C7-C8-O8
32	2a	527	7MG	O4'-C4'-C5'-O5'
54	1w	34	CM0	C6-C5-O5-C7
54	1w	34	CM0	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
54	2w	34	CM0	O5-C7-C8-O8
32	2a	966	M2G	N1-C2-N2-CM1
54	1w	34	CM0	C8-C7-O5-C5
54	1w	34	CM0	O5-C7-C8-O9
32	1a	1518	MA6	C5-C6-N6-C10
54	1y	46	7MG	C2'-C1'-N9-C8
54	2w	46	7MG	C2'-C1'-N9-C8
43	2l	92	0TD	CG-CB-SB-CSB
54	1w	34	CM0	C4-C5-O5-C7
32	2a	1400	5MC	O4'-C1'-N1-C2
32	2a	1400	5MC	O4'-C1'-N1-C6
54	2y	55	PSU	O4'-C1'-C5-C4
32	1a	1402	4OC	C3'-C4'-C5'-O5'
32	2a	967	5MC	C3'-C4'-C5'-O5'
1	2A	2503	2MA	C4'-C5'-O5'-P
32	2a	1518	MA6	C5-C6-N6-C10
32	2a	1519	MA6	C5-C6-N6-C10
54	2y	8	4SU	C2'-C1'-N1-C6
1	1A	2503	2MA	C4'-C5'-O5'-P
54	2y	34	CM0	C6-C5-O5-C7
32	1a	527	7MG	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
54	2y	37	6MZ	C4'-C5'-O5'-P
1	2A	2503	2MA	O4'-C4'-C5'-O5'
43	1l	92	0TD	CA-CB-SB-CSB
43	1l	92	0TD	SB-CB-CG-OD2
54	2y	34	CM0	C8-C7-O5-C5
54	2y	55	PSU	O4'-C1'-C5-C6
32	2a	1400	5MC	O4'-C4'-C5'-O5'
54	1y	46	7MG	O4'-C1'-N9-C8
54	2w	46	7MG	O4'-C1'-N9-C8
43	1l	92	0TD	CG-CB-SB-CSB
55	2x	8	4SU	C2'-C1'-N1-C2
54	1w	37	6MZ	N1-C6-N6-C9
54	2w	55	PSU	C3'-C4'-C5'-O5'
1	1A	1915	5MU	C2'-C1'-N1-C2
54	1w	37	6MZ	C5-C6-N6-C9
54	2w	8	4SU	C2'-C1'-N1-C2
54	2y	8	4SU	C2'-C1'-N1-C2

There are no ring outliers.

46 monomers are involved in 69 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	1a	966	M2G	1	0
54	1y	34	CM0	1	0
32	1a	1518	MA6	2	0
54	2y	55	PSU	2	0
54	1y	37	6MZ	2	0
32	2a	1518	MA6	3	0
1	2A	2605	PSU	1	0
54	2y	46	7MG	2	0
54	1w	46	7MG	4	0
1	2A	1920	4OC	1	0
32	2a	967	5MC	3	0
1	1A	2251	OMG	1	0
1	2A	2251	OMG	1	0
32	2a	966	M2G	1	0
1	1A	2552	2MU	1	0
54	2y	37	6MZ	3	0
32	2a	1402	4OC	2	0
55	2x	8	4SU	1	0
54	1y	54	5MU	1	0
32	2a	1207	2MG	1	0
32	1a	967	5MC	1	0
55	1x	8	4SU	2	0
32	1a	516	PSU	1	0
32	1a	1519	MA6	3	0
32	2a	1519	MA6	3	0
54	1w	37	6MZ	1	0
1	2A	1915	5MU	1	0
32	1a	1402	4OC	1	0
54	2y	34	CM0	2	0
1	1A	1942	5MC	1	0
32	2a	1400	5MC	1	0
1	2A	2552	2MU	2	0
54	1y	8	4SU	2	0
32	2a	1404	5MC	3	0
54	2w	37	6MZ	2	0
1	2A	2503	2MA	1	0
54	2w	46	7MG	2	0
55	2x	32	5MC	1	0
54	1w	54	5MU	3	0
54	2w	54	5MU	1	0
1	1A	1939	5MU	1	0
54	2y	8	4SU	3	0
32	2a	527	7MG	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	2A	1917	PSU	1	0
54	2w	55	PSU	1	0
43	2l	92	OTD	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2761 ligands modelled in this entry, 2757 are monoatomic - leaving 4 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
59	SF4	2d	302	35	0,12,12	-	-	-		
59	SF4	1d	302	35	0,12,12	-	-	-		
57	ERY	2A	3875	-	53,53,53	0.95	2 (3%)	82,82,82	1.69	16 (19%)
57	ERY	1A	4074	-	53,53,53	0.95	2 (3%)	82,82,82	1.77	23 (28%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	SF4	2d	302	35	-	-	0/6/5/5
59	SF4	1d	302	35	-	-	0/6/5/5
57	ERY	2A	3875	-	-	11/72/107/107	0/3/3/3
57	ERY	1A	4074	-	-	5/72/107/107	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	2A	3875	ERY	O2-C1	4.98	1.45	1.34
57	1A	4074	ERY	O2-C1	4.95	1.45	1.34
57	1A	4074	ERY	O2-C13	-2.19	1.42	1.46
57	2A	3875	ERY	O2-C13	-2.12	1.42	1.46

All (39) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	1A	4074	ERY	C25-C24-C23	4.70	116.78	110.02
57	1A	4074	ERY	O5-C16-C15	-4.44	106.11	112.95
57	2A	3875	ERY	O5-C16-C15	-4.16	106.55	112.95
57	2A	3875	ERY	C13-O2-C1	-4.12	111.00	118.20
57	2A	3875	ERY	O2-C1-C2	4.05	120.18	111.53
57	2A	3875	ERY	O5-C16-C17	3.97	109.61	103.86
57	2A	3875	ERY	C26-C25-C24	3.75	116.86	110.46
57	1A	4074	ERY	O7-C5-C6	3.62	110.71	106.40
57	1A	4074	ERY	O2-C1-C2	3.53	119.08	111.53
57	1A	4074	ERY	C15-C16-C17	3.51	113.64	107.64
57	2A	3875	ERY	C16-C15-C14	-3.42	109.22	114.99
57	1A	4074	ERY	C22-C23-C24	3.35	114.52	109.15
57	2A	3875	ERY	C25-C24-C23	3.33	114.80	110.02
57	2A	3875	ERY	C12-C11-C10	-3.29	112.55	116.40
57	1A	4074	ERY	O3-C3-C4	3.18	111.98	108.23
57	1A	4074	ERY	C26-C25-C24	3.17	115.87	110.46
57	1A	4074	ERY	C13-O2-C1	-3.09	112.80	118.20
57	2A	3875	ERY	C25-C24-N1	-2.87	107.52	115.59
57	2A	3875	ERY	C34-C10-C11	-2.83	110.71	114.30
57	1A	4074	ERY	C22-O9-C26	-2.82	108.56	112.91
57	1A	4074	ERY	O4-C18-C21	2.82	112.99	106.74
57	1A	4074	ERY	O5-C16-C17	2.74	107.84	103.86
57	1A	4074	ERY	C6-C5-C4	-2.74	109.92	113.89
57	1A	4074	ERY	C6-C7-C8	-2.71	110.19	115.61
57	1A	4074	ERY	C16-C17-C18	2.68	115.01	111.12
57	2A	3875	ERY	O7-C5-C6	2.62	109.53	106.40
57	2A	3875	ERY	O4-C18-C21	2.57	112.44	106.74
57	2A	3875	ERY	C20-O5-C16	2.53	122.66	117.51
57	1A	4074	ERY	C7-C8-C9	-2.52	109.09	113.32
57	1A	4074	ERY	O2-C1-O1	-2.49	119.46	123.95
57	2A	3875	ERY	C22-O9-C26	-2.46	109.12	112.91
57	1A	4074	ERY	C20-O5-C16	2.44	122.48	117.51
57	2A	3875	ERY	O2-C1-O1	-2.44	119.54	123.95
57	2A	3875	ERY	C22-C23-C24	2.27	112.79	109.15
57	1A	4074	ERY	C25-C24-N1	-2.23	109.32	115.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	1A	4074	ERY	C14-O4-C18	2.15	119.72	113.82
57	1A	4074	ERY	C16-C15-C14	-2.14	111.37	114.99
57	1A	4074	ERY	C22-O7-C5	-2.06	112.75	116.26
57	1A	4074	ERY	C2-C3-C4	-2.05	107.02	112.91

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
57	1A	4074	ERY	C15-C16-O5-C20
57	1A	4074	ERY	C17-C16-O5-C20
57	1A	4074	ERY	C19-C16-O5-C20
57	2A	3875	ERY	C9-C10-C11-C12
57	2A	3875	ERY	C34-C10-C11-C12
57	2A	3875	ERY	C15-C16-O5-C20
57	2A	3875	ERY	C17-C16-O5-C20
57	2A	3875	ERY	C19-C16-O5-C20
57	1A	4074	ERY	C25-C24-N1-C29
57	2A	3875	ERY	C25-C24-N1-C29
57	2A	3875	ERY	C34-C10-C11-O12
57	2A	3875	ERY	C9-C10-C11-O12
57	2A	3875	ERY	C33-C8-C9-O11
57	2A	3875	ERY	C32-C6-C7-C8
57	2A	3875	ERY	C7-C8-C9-O11
57	1A	4074	ERY	C30-C2-C3-C4

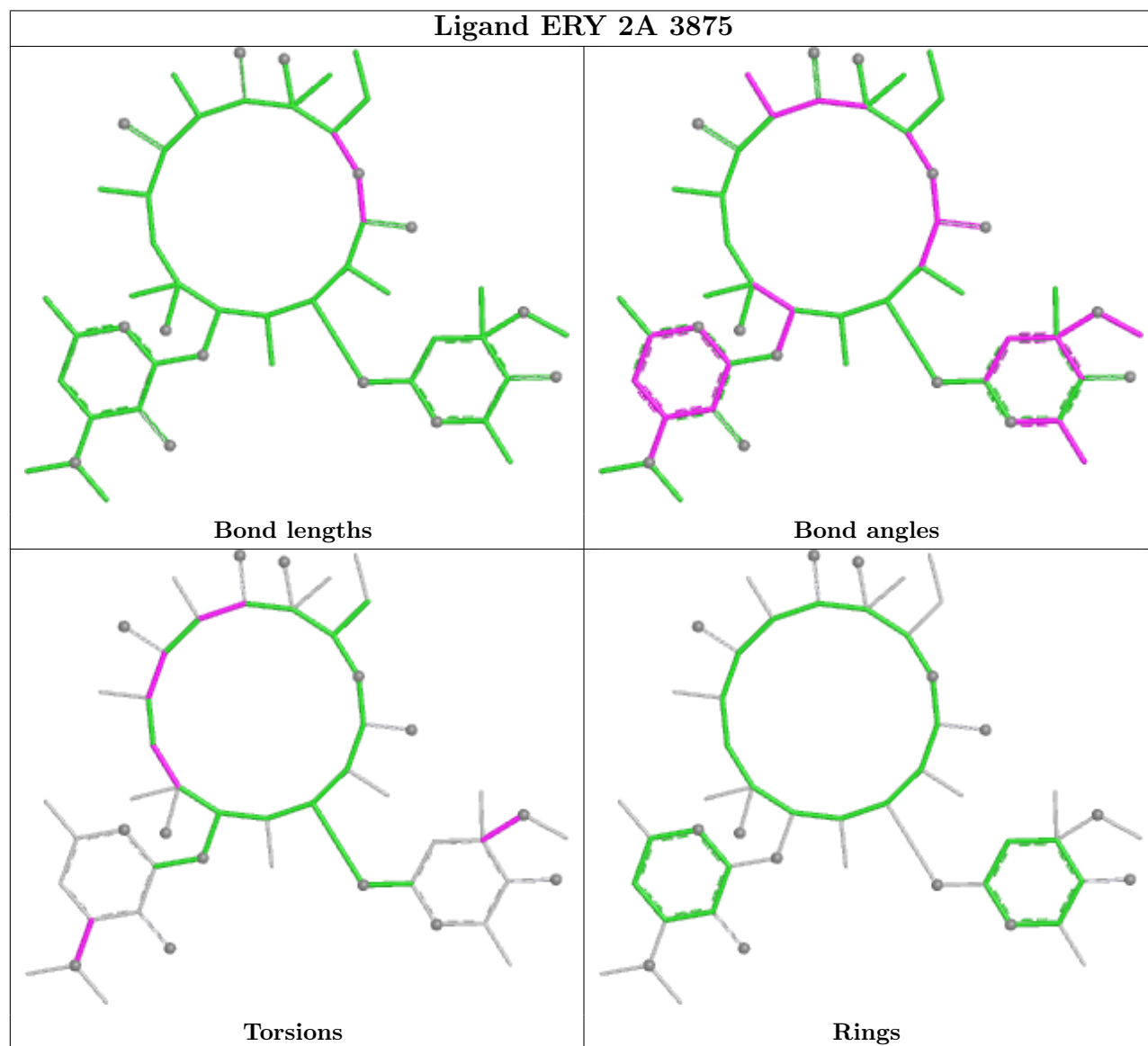
There are no ring outliers.

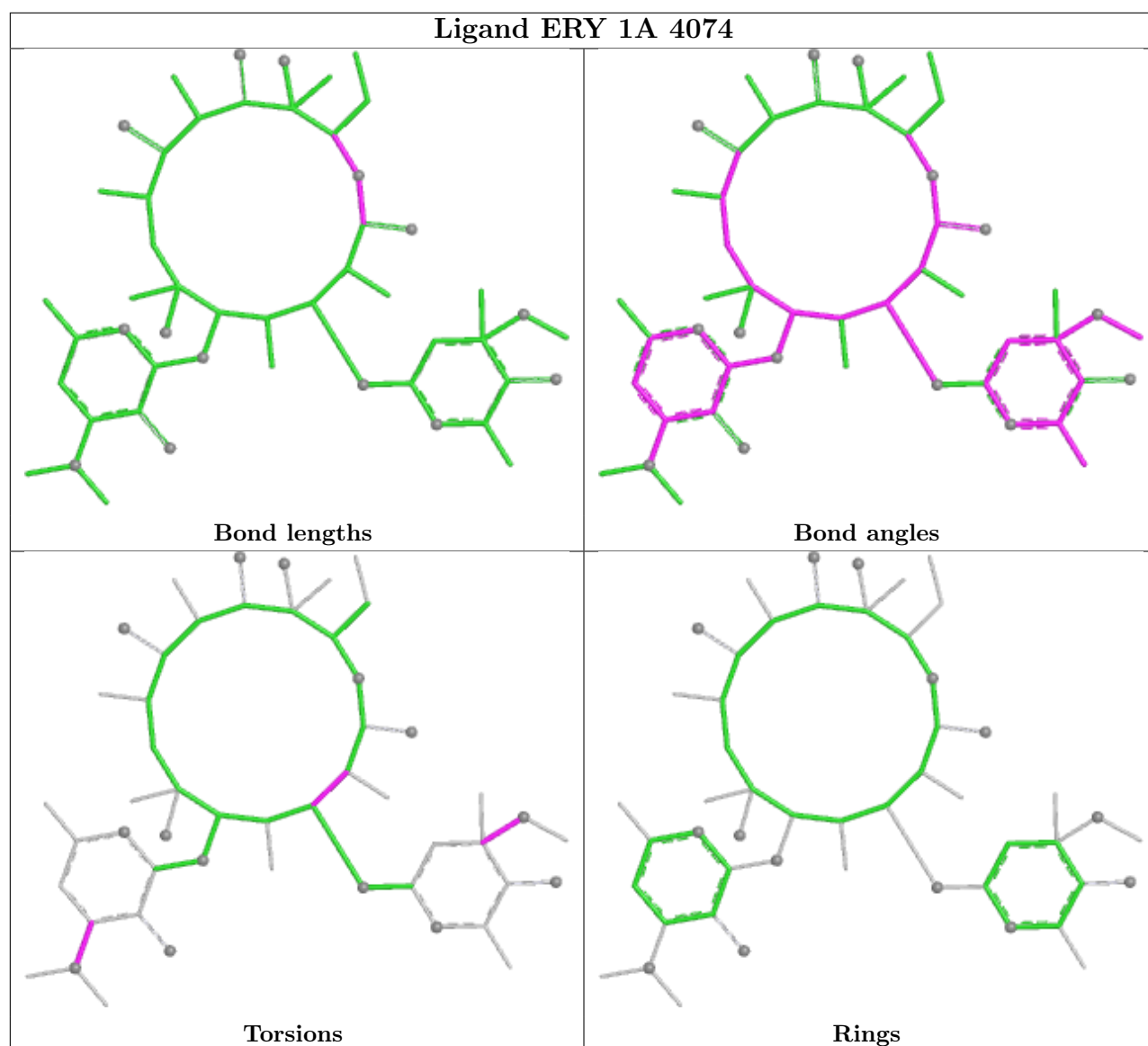
3 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	1d	302	SF4	2	0
57	2A	3875	ERY	3	0
57	1A	4074	ERY	3	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 than 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.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1A	2860/2915 (98%)	-0.40	53 (1%) 66 59	10, 28, 83, 100	0
1	2A	2789/2915 (95%)	0.02	31 (1%) 78 73	28, 51, 82, 99	0
2	1B	120/121 (99%)	-0.27	0 100 100	19, 42, 58, 77	0
2	2B	120/121 (99%)	0.69	5 (4%) 40 32	53, 72, 81, 86	0
3	1D	275/276 (99%)	0.06	2 (0%) 84 80	13, 30, 43, 72	0
3	2D	275/276 (99%)	0.43	5 (1%) 67 61	25, 44, 58, 68	0
4	1E	204/206 (99%)	-0.07	0 100 100	11, 33, 48, 71	0
4	2E	204/206 (99%)	0.52	5 (2%) 58 49	27, 54, 65, 72	0
5	1F	203/210 (96%)	-0.12	1 (0%) 87 85	13, 33, 57, 76	0
5	2F	203/210 (96%)	0.68	9 (4%) 39 30	29, 56, 70, 79	0
6	1G	181/182 (99%)	0.54	4 (2%) 62 53	32, 51, 66, 76	0
6	2G	181/182 (99%)	1.30	31 (17%) 4 3	61, 72, 79, 89	0
7	1H	174/180 (96%)	0.13	1 (0%) 85 82	27, 44, 55, 61	0
7	2H	174/180 (96%)	0.92	17 (9%) 13 10	62, 73, 81, 89	0
8	1I	146/148 (98%)	0.52	3 (2%) 63 55	39, 62, 73, 79	0
8	2I	146/148 (98%)	1.21	22 (15%) 5 4	45, 65, 77, 83	0
9	1N	140/140 (100%)	-0.11	0 100 100	14, 31, 49, 60	0
9	2N	140/140 (100%)	0.77	11 (7%) 18 14	43, 58, 69, 77	0
10	1O	122/122 (100%)	0.06	0 100 100	22, 33, 51, 56	0
10	2O	122/122 (100%)	0.39	2 (1%) 70 64	36, 52, 62, 70	0
11	1P	149/150 (99%)	-0.03	0 100 100	13, 38, 59, 67	0
11	2P	149/150 (99%)	0.86	8 (5%) 31 23	34, 56, 71, 86	0
12	1Q	141/141 (100%)	-0.03	1 (0%) 84 80	20, 34, 46, 70	0
12	2Q	141/141 (100%)	0.94	10 (7%) 22 16	42, 58, 68, 75	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	-0.24	0 100 100	16, 26, 38, 56	0
13	2R	118/118 (100%)	0.22	0 100 100	32, 46, 56, 66	0
14	1S	110/112 (98%)	0.31	1 (0%) 81 76	29, 41, 53, 56	0
14	2S	110/112 (98%)	1.35	26 (23%) 2 2	56, 67, 75, 78	0
15	1T	131/146 (89%)	0.03	1 (0%) 82 78	26, 38, 56, 70	0
15	2T	131/146 (89%)	0.38	1 (0%) 82 78	43, 55, 68, 76	0
16	1U	116/118 (98%)	-0.26	0 100 100	13, 21, 38, 53	0
16	2U	116/118 (98%)	0.54	2 (1%) 69 63	35, 56, 65, 71	0
17	1V	101/101 (100%)	-0.31	0 100 100	16, 29, 48, 57	0
17	2V	101/101 (100%)	0.69	7 (6%) 23 17	42, 61, 71, 76	0
18	1W	112/113 (99%)	-0.26	1 (0%) 81 76	13, 22, 37, 61	0
18	2W	112/113 (99%)	0.17	2 (1%) 67 61	33, 43, 56, 79	0
19	1X	95/96 (98%)	0.01	0 100 100	16, 31, 46, 64	0
19	2X	95/96 (98%)	0.58	4 (4%) 40 32	34, 53, 63, 78	0
20	1Y	107/110 (97%)	0.18	0 100 100	23, 40, 58, 71	0
20	2Y	107/110 (97%)	0.84	8 (7%) 20 14	45, 60, 74, 81	0
21	1Z	154/206 (74%)	0.52	5 (3%) 50 41	31, 53, 75, 81	0
21	2Z	160/206 (77%)	1.16	23 (14%) 6 4	60, 72, 83, 87	0
22	10	83/85 (97%)	0.24	5 (6%) 27 20	19, 29, 53, 72	0
22	20	83/85 (97%)	1.26	10 (12%) 9 7	43, 57, 68, 75	0
23	11	97/98 (98%)	0.20	2 (2%) 63 55	15, 37, 62, 70	0
23	21	97/98 (98%)	0.74	5 (5%) 33 25	37, 50, 63, 70	0
24	12	70/72 (97%)	0.18	1 (1%) 73 67	25, 37, 49, 65	0
24	22	70/72 (97%)	0.55	2 (2%) 53 45	45, 60, 70, 71	0
25	13	59/60 (98%)	-0.18	0 100 100	15, 27, 55, 70	0
25	23	59/60 (98%)	0.49	2 (3%) 48 38	49, 58, 68, 75	0
26	14	69/71 (97%)	0.85	5 (7%) 21 15	48, 67, 79, 85	0
26	24	69/71 (97%)	1.24	14 (20%) 3 3	69, 79, 86, 90	0
27	15	59/60 (98%)	-0.28	0 100 100	11, 22, 40, 53	0
27	25	59/60 (98%)	0.32	1 (1%) 69 63	33, 43, 59, 68	0
28	16	53/54 (98%)	-0.12	0 100 100	24, 35, 49, 57	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.74	1 (1%) 66 59	42, 53, 64, 69	0
29	17	48/49 (97%)	-0.03	2 (4%) 40 32	14, 20, 43, 59	0
29	27	48/49 (97%)	0.15	4 (8%) 17 13	25, 36, 57, 75	0
30	18	64/65 (98%)	-0.00	0 100 100	20, 26, 33, 47	0
30	28	64/65 (98%)	0.83	0 100 100	38, 49, 58, 62	0
31	19	37/37 (100%)	0.09	0 100 100	22, 32, 44, 53	0
31	29	37/37 (100%)	1.02	4 (10%) 11 8	51, 61, 71, 75	0
32	1a	1488/1521 (97%)	0.34	28 (1%) 66 59	28, 60, 83, 97	0
32	2a	1491/1521 (98%)	0.52	55 (3%) 45 35	45, 68, 87, 97	0
33	1b	231/256 (90%)	0.88	18 (7%) 19 14	54, 69, 78, 88	0
33	2b	231/256 (90%)	1.23	31 (13%) 7 5	60, 77, 86, 92	0
34	1c	206/239 (86%)	0.82	15 (7%) 21 15	53, 65, 74, 81	0
34	2c	206/239 (86%)	1.11	32 (15%) 5 4	58, 75, 83, 100	0
35	1d	208/209 (99%)	0.92	12 (5%) 29 21	52, 64, 72, 80	0
35	2d	208/209 (99%)	0.80	9 (4%) 40 31	43, 60, 68, 79	0
36	1e	148/162 (91%)	0.67	5 (3%) 48 38	48, 58, 66, 71	0
36	2e	148/162 (91%)	1.09	13 (8%) 15 12	58, 69, 77, 83	0
37	1f	100/101 (99%)	0.57	1 (1%) 79 74	45, 59, 67, 70	0
37	2f	100/101 (99%)	0.65	5 (5%) 34 27	53, 63, 69, 74	0
38	1g	155/156 (99%)	0.71	8 (5%) 33 25	52, 62, 72, 80	0
38	2g	155/156 (99%)	0.71	11 (7%) 22 16	58, 70, 79, 88	0
39	1h	137/138 (99%)	0.55	6 (4%) 39 30	48, 58, 67, 70	0
39	2h	137/138 (99%)	1.05	11 (8%) 18 13	55, 67, 74, 75	0
40	1i	127/128 (99%)	1.27	23 (18%) 3 3	51, 68, 78, 86	0
40	2i	127/128 (99%)	1.49	35 (27%) 1 1	60, 76, 83, 88	0
41	1j	97/105 (92%)	0.92	6 (6%) 26 19	56, 70, 79, 84	0
41	2j	96/105 (91%)	1.28	18 (18%) 3 3	65, 75, 84, 89	0
42	1k	114/129 (88%)	0.40	1 (0%) 81 76	36, 57, 67, 71	0
42	2k	114/129 (88%)	0.70	4 (3%) 47 37	50, 65, 73, 77	0
43	1l	121/132 (91%)	0.81	11 (9%) 15 11	41, 52, 63, 70	0
43	2l	121/132 (91%)	0.78	4 (3%) 49 40	49, 62, 72, 75	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.91	9 (7%) 21 15	48, 61, 73, 82	0
44	2m	122/126 (96%)	1.49	27 (22%) 2 2	64, 75, 84, 89	0
45	1n	60/61 (98%)	0.83	3 (5%) 34 27	52, 62, 70, 75	0
45	2n	60/61 (98%)	1.72	21 (35%) 1 1	68, 76, 82, 84	0
46	1o	88/89 (98%)	0.48	3 (3%) 48 38	42, 55, 68, 73	0
46	2o	88/89 (98%)	0.79	3 (3%) 48 38	53, 64, 74, 78	0
47	1p	82/88 (93%)	1.22	13 (15%) 5 4	50, 62, 74, 76	0
47	2p	82/88 (93%)	1.01	6 (7%) 21 15	48, 59, 66, 78	0
48	1q	99/105 (94%)	0.75	2 (2%) 65 57	42, 55, 66, 73	0
48	2q	99/105 (94%)	0.73	0 100 100	54, 63, 72, 77	0
49	1r	68/88 (77%)	0.35	1 (1%) 72 65	47, 58, 68, 73	0
49	2r	68/88 (77%)	0.70	1 (1%) 72 65	57, 62, 72, 76	0
50	1s	83/93 (89%)	0.68	4 (4%) 35 28	52, 63, 72, 77	0
50	2s	83/93 (89%)	1.22	15 (18%) 3 3	66, 76, 83, 92	0
51	1t	96/106 (90%)	0.82	7 (7%) 21 15	45, 61, 69, 72	0
51	2t	96/106 (90%)	0.99	12 (12%) 8 6	44, 60, 74, 79	0
52	1u	23/27 (85%)	1.37	4 (17%) 4 3	57, 63, 67, 72	0
52	2u	23/27 (85%)	1.69	7 (30%) 1 1	65, 74, 78, 79	0
53	1v	13/27 (48%)	1.11	3 (23%) 2 2	40, 63, 82, 88	0
53	2v	13/27 (48%)	1.27	2 (15%) 5 4	61, 75, 87, 90	0
54	1w	67/76 (88%)	1.03	5 (7%) 20 14	54, 83, 92, 98	0
54	1y	68/76 (89%)	0.63	1 (1%) 72 65	33, 86, 92, 98	0
54	2w	67/76 (88%)	1.02	4 (5%) 27 20	65, 89, 93, 98	0
54	2y	67/76 (88%)	0.85	4 (5%) 27 20	50, 89, 94, 96	0
55	1x	72/77 (93%)	0.29	1 (1%) 73 67	36, 61, 72, 78	0
55	2x	72/77 (93%)	0.44	1 (1%) 73 67	49, 73, 82, 92	0
All	All	20879/21754 (95%)	0.37	881 (4%) 40 32	10, 56, 81, 100	0

All (881) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	10.0
44	2m	123	ALA	9.4

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Mol	Chain	Res	Type	RSRZ
44	2m	102	ARG	7.3
44	2m	6	GLY	6.2
32	1a	1036	G	6.0
1	2A	2146	C	5.9
44	1m	123	ALA	5.9
44	2m	5	ALA	5.7
31	29	37	GLY	5.4
44	1m	121	LYS	5.2
38	2g	80	VAL	5.2
12	2Q	104	PHE	5.1
33	2b	165	VAL	5.0
14	2S	45	GLY	5.0
41	2j	58	ASP	4.9
3	2D	217	ARG	4.8
1	1A	2145	C	4.7
22	10	5	LYS	4.6
1	1A	2141	G	4.5
23	11	2	SER	4.5
6	2G	28	VAL	4.4
32	2a	1034	G	4.4
1	1A	2113	U	4.4
44	1m	122	LYS	4.3
51	1t	103	GLY	4.2
33	2b	31	TYR	4.1
9	2N	45	ASN	4.1
40	2i	11	LYS	4.1
14	2S	34	HIS	4.0
32	2a	1286	A	4.0
1	1A	2112	G	4.0
33	2b	185	ILE	3.9
52	2u	14	TRP	3.9
44	1m	124	PRO	3.9
38	1g	153	HIS	3.9
40	2i	10	ARG	3.9
1	1A	1059	G	3.9
33	2b	186	ALA	3.9
3	1D	276	LYS	3.8
33	2b	187	LEU	3.8
1	1A	2115	G	3.8
33	2b	70	PHE	3.8
8	2I	20	ASP	3.8
38	2g	81	GLY	3.8

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Mol	Chain	Res	Type	RSRZ
36	2e	84	PHE	3.8
22	20	2	ALA	3.7
4	2E	115	GLY	3.7
40	1i	106	ALA	3.7
6	2G	48	GLU	3.7
1	2A	2145	C	3.7
44	2m	122	LYS	3.7
1	1A	1064	C	3.6
32	2a	1030(B)	C	3.6
51	2t	9	ASN	3.6
32	2a	1220	G	3.6
40	1i	66	ARG	3.6
1	2A	2111	C	3.6
44	2m	104	ARG	3.5
1	2A	2147	G	3.5
32	2a	1036	G	3.5
45	2n	7	ILE	3.5
26	24	49	PHE	3.5
32	2a	1224	G	3.5
35	1d	139	ARG	3.5
32	2a	1030(A)	G	3.5
36	2e	13	ILE	3.5
32	2a	1202	G	3.4
32	2a	1116	C	3.4
41	2j	50	ILE	3.4
34	1c	2	GLY	3.4
39	2h	10	LEU	3.4
32	2a	973	G	3.4
34	2c	189	ALA	3.4
14	2S	32	LEU	3.4
26	24	30	GLU	3.4
34	2c	129	ALA	3.4
41	2j	47	PHE	3.4
33	2b	197	VAL	3.4
6	1G	80	PHE	3.4
5	2F	55	GLY	3.3
1	1A	2142	C	3.3
1	1A	1087	G	3.3
22	10	7	LEU	3.3
33	2b	163	PHE	3.3
51	2t	24	LEU	3.3
21	2Z	174	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
6	2G	20	ILE	3.3
33	2b	200	ILE	3.3
14	2S	58	LEU	3.3
36	2e	31	LEU	3.3
40	2i	9	ARG	3.3
38	2g	82	GLY	3.3
33	2b	201	ILE	3.3
44	1m	56	LEU	3.3
1	2A	2112	G	3.3
11	2P	22	GLY	3.3
16	2U	7	GLY	3.3
22	20	6	GLY	3.3
51	1t	12	ALA	3.2
32	1a	1027	C	3.2
32	2a	1114	C	3.2
43	2l	29	GLY	3.2
50	2s	79	THR	3.2
8	2I	29	TYR	3.2
38	1g	85	TYR	3.2
1	2A	2113	U	3.2
14	2S	35	ILE	3.2
29	17	48	LYS	3.2
35	1d	180	GLY	3.2
8	2I	38	LEU	3.2
25	23	51	ALA	3.2
51	2t	83	ARG	3.2
45	2n	25	VAL	3.2
51	2t	103	GLY	3.2
44	2m	4	ILE	3.2
1	1A	888	C	3.2
20	2Y	57	GLN	3.2
22	10	6	GLY	3.2
39	1h	90	GLY	3.2
45	2n	39	LEU	3.1
50	2s	75	ALA	3.1
22	10	3	HIS	3.1
14	2S	29	PHE	3.1
19	2X	92	LEU	3.1
40	1i	4	TYR	3.1
14	2S	33	LYS	3.1
38	2g	84	ASN	3.1
40	2i	7	THR	3.1

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Mol	Chain	Res	Type	RSRZ
34	2c	168	ALA	3.1
34	2c	195	VAL	3.1
32	2a	1357	A	3.1
33	1b	231	GLU	3.1
1	1A	2111	C	3.1
49	1r	78	LEU	3.1
17	2V	85	LYS	3.1
21	2Z	172	ALA	3.1
34	2c	198	VAL	3.1
35	1d	5	ILE	3.1
34	1c	179	ARG	3.1
40	2i	12	GLU	3.1
5	2F	89	VAL	3.0
38	1g	80	VAL	3.0
40	1i	41	VAL	3.0
39	2h	106	GLY	3.0
34	2c	188	LEU	3.0
41	2j	55	LYS	3.0
43	1l	16	GLU	3.0
40	2i	119	ALA	3.0
50	2s	9	VAL	3.0
34	2c	201	TYR	3.0
47	1p	4	ILE	3.0
52	2u	4	GLY	3.0
1	1A	1095	A	3.0
4	2E	114	ALA	3.0
26	24	56	VAL	3.0
1	1A	1058	G	3.0
26	24	9	LEU	3.0
41	2j	65	LEU	3.0
45	1n	2	ALA	3.0
21	1Z	141	VAL	3.0
40	2i	65	VAL	3.0
1	1A	2114	A	3.0
47	1p	82	GLN	3.0
1	2A	2153	G	3.0
9	2N	10	GLU	3.0
53	2v	24	C	3.0
39	2h	3	THR	3.0
40	2i	106	ALA	3.0
44	2m	60	VAL	3.0
11	2P	18	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
35	2d	49	ARG	2.9
32	1a	1035	A	2.9
32	2a	1035	A	2.9
6	2G	62	LEU	2.9
54	2y	36	C	2.9
33	2b	71	VAL	2.9
41	2j	63	PHE	2.9
43	1l	47	LYS	2.9
22	20	7	LEU	2.9
6	2G	12	TYR	2.9
8	2I	11	ASN	2.9
33	1b	17	PHE	2.9
45	2n	37	PHE	2.9
1	1A	885	C	2.9
1	1A	2146	C	2.9
32	2a	1223	C	2.9
8	2I	35	LEU	2.9
36	2e	22	GLY	2.9
34	2c	184	TYR	2.9
38	2g	85	TYR	2.9
8	2I	48	GLU	2.9
32	1a	1531	A	2.9
33	1b	13	ALA	2.9
34	1c	192	THR	2.9
45	2n	3	ARG	2.9
21	2Z	146	ILE	2.9
36	2e	85	GLY	2.9
32	1a	1026	G	2.9
32	2a	1117	G	2.9
33	1b	12	GLU	2.9
51	1t	14	LYS	2.9
40	2i	71	SER	2.9
53	1v	12	A	2.9
45	2n	38	GLY	2.8
1	1A	2143	C	2.8
44	2m	120	LYS	2.8
29	17	46	VAL	2.8
32	2a	1026	G	2.8
33	2b	93	VAL	2.8
6	2G	115	ARG	2.8
23	21	2	SER	2.8
6	2G	162	THR	2.8

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Mol	Chain	Res	Type	RSRZ
24	22	60	LEU	2.8
40	2i	96	LEU	2.8
29	27	47	ARG	2.8
37	2f	53	ALA	2.8
32	2a	1033	G	2.8
12	2Q	30	GLY	2.8
52	2u	2	GLY	2.8
36	1e	88	LYS	2.8
6	2G	87	PRO	2.8
26	14	56	VAL	2.8
34	2c	116	VAL	2.8
20	2Y	48	ALA	2.8
36	2e	17	ALA	2.8
38	2g	83	ALA	2.8
14	2S	56	LEU	2.8
51	1t	10	LEU	2.8
34	2c	56	ASP	2.8
14	2S	52	SER	2.8
44	2m	105	THR	2.8
24	22	1	MET	2.8
22	10	4	LYS	2.8
33	1b	133	LYS	2.8
40	2i	39	GLY	2.8
2	2B	119	G	2.8
40	1i	2	GLU	2.8
41	1j	45	ARG	2.8
51	2t	86	ARG	2.8
37	2f	6	VAL	2.8
47	1p	14	ASN	2.8
39	2h	4	ASP	2.8
40	2i	105	ASP	2.8
12	2Q	130	LYS	2.8
45	2n	13	THR	2.8
50	1s	39	THR	2.8
1	1A	889	C	2.8
32	1a	1533	C	2.8
33	2b	49	GLU	2.7
52	1u	6	ARG	2.7
6	2G	50	ALA	2.7
44	1m	5	ALA	2.7
1	2A	2133	G	2.7
26	24	32	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
43	1l	64	TYR	2.7
1	1A	1081	U	2.7
32	1a	1532	U	2.7
8	2I	1	MET	2.7
43	1l	28	LYS	2.7
44	2m	101	GLN	2.7
5	2F	90	PHE	2.7
40	2i	13	ALA	2.7
50	2s	16	LEU	2.7
9	2N	1	MET	2.7
35	1d	154	ASN	2.7
35	1d	7	PRO	2.7
40	1i	42	ARG	2.7
8	2I	117	GLU	2.7
9	2N	140	VAL	2.7
6	1G	77	ILE	2.7
6	2G	140	ILE	2.7
17	2V	94	LEU	2.7
32	2a	1027	C	2.7
44	1m	2	ALA	2.7
7	2H	2	SER	2.7
44	2m	70	LEU	2.7
32	1a	1030(B)	C	2.7
42	2k	25	TYR	2.7
14	2S	3	ARG	2.7
40	2i	104	ARG	2.7
11	2P	44	GLY	2.7
20	2Y	104	GLY	2.7
25	23	2	PRO	2.7
32	2a	982	U	2.7
53	2v	12	A	2.7
36	1e	119	LEU	2.7
1	2A	1171	G	2.6
33	2b	48	MET	2.6
8	1I	89	TYR	2.6
38	1g	4	ARG	2.6
51	2t	25	ARG	2.6
1	1A	1092	C	2.6
26	24	41	PRO	2.6
35	1d	44	GLY	2.6
40	1i	49	PRO	2.6
41	2j	91	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
1	2A	2118	U	2.6
5	2F	56	GLU	2.6
8	2I	92	VAL	2.6
14	2S	54	LEU	2.6
14	2S	69	VAL	2.6
39	1h	2	LEU	2.6
1	1A	1057	A	2.6
39	2h	16	ALA	2.6
47	2p	9	PHE	2.6
1	1A	2133	G	2.6
32	2a	1113	C	2.6
34	2c	151	VAL	2.6
45	2n	18	VAL	2.6
45	2n	44	LEU	2.6
7	2H	72	ILE	2.6
51	1t	18	GLN	2.6
21	2Z	164	ALA	2.6
33	2b	237	ALA	2.6
41	2j	32	ALA	2.6
45	2n	20	ALA	2.6
1	1A	2169	A	2.6
50	2s	38	SER	2.6
46	1o	69	TYR	2.6
6	2G	89	GLY	2.6
1	1A	1093	G	2.6
1	2A	2182	G	2.6
23	2l	46	LEU	2.6
32	2a	1002	G	2.6
34	1c	191	THR	2.6
40	2i	14	VAL	2.6
40	2i	17	VAL	2.6
42	2k	26	ASN	2.6
34	1c	17	ASP	2.6
36	2e	21	ALA	2.6
40	2i	55	ALA	2.6
54	2w	31	C	2.6
43	2l	12	ARG	2.6
32	1a	1503	A	2.6
26	24	28	LYS	2.6
36	1e	81	GLU	2.6
45	2n	8	GLU	2.6
32	1a	1002	G	2.5

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Mol	Chain	Res	Type	RSRZ
50	1s	12	ASP	2.6
1	2A	2138	C	2.5
32	1a	1037	C	2.5
32	2a	1354	C	2.5
47	1p	43	LYS	2.5
1	1A	1096	A	2.5
9	2N	44	PRO	2.5
11	2P	45	LEU	2.5
50	2s	84	GLY	2.5
19	2X	69	TYR	2.5
33	2b	214	ILE	2.5
34	1c	39	ILE	2.5
35	1d	140	VAL	2.5
49	2r	65	ILE	2.5
7	2H	102	ALA	2.5
40	1i	18	PHE	2.5
52	1u	9	ARG	2.5
40	2i	117	HIS	2.5
29	27	48	LYS	2.5
1	1A	1062	G	2.5
1	1A	2147	G	2.5
43	1l	63	GLY	2.5
10	2O	1	MET	2.5
21	2Z	86	VAL	2.5
21	2Z	171	ILE	2.5
26	14	63	TYR	2.5
40	1i	65	VAL	2.5
41	2j	44	VAL	2.5
42	2k	50	TYR	2.5
32	2a	1285	A	2.5
41	2j	54	PHE	2.5
40	2i	61	ALA	2.5
4	2E	136	ARG	2.5
38	2g	5	ARG	2.5
36	2e	106	PRO	2.5
52	2u	13	ILE	2.5
8	2I	3	VAL	2.5
8	2I	19	VAL	2.5
33	2b	97	TRP	2.5
1	1A	1068	G	2.5
1	1A	1099	G	2.5
47	2p	39	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
26	24	27	THR	2.5
34	2c	128	PHE	2.5
40	1i	7	THR	2.5
32	2a	1016	A	2.5
34	2c	4	LYS	2.5
39	2h	2	LEU	2.5
6	2G	39	ILE	2.5
41	2j	59	SER	2.5
43	1l	14	GLY	2.5
8	2I	64	GLU	2.5
20	2Y	29	GLU	2.5
22	20	69	PHE	2.5
44	2m	58	GLU	2.5
50	2s	80	TYR	2.5
38	2g	76	ARG	2.5
38	2g	79	ARG	2.5
21	2Z	170	THR	2.5
3	2D	38	LYS	2.5
32	1a	1019	C	2.5
1	1A	880	G	2.5
1	2A	2155	G	2.5
55	2x	70	G	2.5
32	2a	1225	A	2.5
35	2d	154	ASN	2.5
17	2V	18	LEU	2.4
34	1c	33	LEU	2.4
40	2i	19	LEU	2.4
45	2n	6	LEU	2.4
21	2Z	137	ILE	2.4
14	2S	98	VAL	2.4
19	2X	83	VAL	2.4
41	2j	49	VAL	2.4
50	2s	11	VAL	2.4
54	2y	33	U	2.4
24	12	69	ARG	2.4
48	1q	24	GLU	2.4
50	2s	36	ARG	2.4
6	2G	36	LYS	2.4
9	2N	78	TYR	2.4
21	2Z	152	ALA	2.4
40	2i	114	TYR	2.4
32	2a	1119	C	2.4

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Mol	Chain	Res	Type	RSRZ
6	2G	101	ILE	2.4
7	2H	36	PRO	2.4
21	2Z	83	PRO	2.4
31	29	12	ASP	2.4
55	1x	70	G	2.4
3	2D	216	GLY	2.4
45	1n	25	VAL	2.4
45	2n	31	ARG	2.4
1	1A	1078	U	2.4
1	1A	1094	U	2.4
1	2A	2144	U	2.4
32	1a	1020	U	2.4
26	24	46	GLN	2.4
34	2c	137	ALA	2.4
44	2m	72	ALA	2.4
50	2s	53	ASN	2.4
34	2c	152	ILE	2.4
1	2A	2143	C	2.4
23	21	62	VAL	2.4
29	27	46	VAL	2.4
47	1p	47	ASP	2.4
50	1s	84	GLY	2.4
1	1A	2119	A	2.4
3	2D	275	LYS	2.4
1	1A	1089	G	2.4
1	2A	545	G	2.4
2	2B	118	G	2.4
6	2G	137	GLU	2.4
14	2S	8	GLU	2.4
32	2a	1017	G	2.4
34	1c	206	GLU	2.4
41	1j	32	ALA	2.4
6	2G	41	GLN	2.4
1	1A	1060	U	2.4
22	20	26	TYR	2.4
46	1o	87	ILE	2.4
26	24	29	PRO	2.4
34	2c	120	VAL	2.4
51	2t	80	ARG	2.4
1	2A	1536	C	2.4
1	2A	2128	C	2.4
32	1a	1030	C	2.4

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Mol	Chain	Res	Type	RSRZ
53	1v	24	C	2.4
1	1A	1084	A	2.4
21	2Z	7	ALA	2.4
34	1c	200	ALA	2.4
40	1i	15	ALA	2.4
1	1A	1065	U	2.4
2	2B	24	G	2.4
6	2G	145	THR	2.4
39	1h	3	THR	2.4
35	1d	135	LEU	2.4
34	1c	13	GLY	2.3
41	2j	60	ARG	2.3
47	1p	42	ARG	2.3
36	1e	21	ALA	2.3
44	2m	118	ALA	2.3
32	2a	1149	C	2.3
32	2a	975	A	2.3
21	2Z	125	LEU	2.3
20	2Y	46	LYS	2.3
43	1l	91	LYS	2.3
1	2A	2154	G	2.3
14	2S	28	VAL	2.3
21	2Z	47	VAL	2.3
21	2Z	71	VAL	2.3
32	2a	1021	G	2.3
39	1h	91	ARG	2.3
44	2m	7	VAL	2.3
54	1w	1	G	2.3
45	2n	28	GLY	2.3
34	2c	206	GLU	2.3
6	2G	34	LEU	2.3
7	2H	56	SER	2.3
8	2I	101	LEU	2.3
9	2N	82	LEU	2.3
33	2b	149	LEU	2.3
35	2d	21	LEU	2.3
40	2i	102	LEU	2.3
32	1a	1028	C	2.3
32	2a	1038	C	2.3
6	2G	52	ILE	2.3
33	1b	31	TYR	2.3
34	2c	15	THR	2.3

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Mol	Chain	Res	Type	RSRZ
32	2a	974	A	2.3
32	2a	983	A	2.3
40	1i	125	TYR	2.3
45	2n	34	TYR	2.3
40	2i	127	LYS	2.3
8	2I	27	ARG	2.3
20	2Y	2	ARG	2.3
35	2d	37	PRO	2.3
43	1l	39	VAL	2.3
44	2m	117	VAL	2.3
26	14	17	GLY	2.3
47	1p	78	GLY	2.3
5	1F	111	ALA	2.3
32	1a	1024	G	2.3
6	2G	133	LEU	2.3
26	24	47	GLN	2.3
37	2f	45	LEU	2.3
46	1o	31	LEU	2.3
33	1b	201	ILE	2.3
44	1m	4	ILE	2.3
14	2S	7	TYR	2.3
14	2S	10	ARG	2.3
39	2h	30	ARG	2.3
6	2G	31	VAL	2.3
22	20	38	VAL	2.3
32	1a	1039	C	2.3
32	2a	980	C	2.3
34	2c	130	VAL	2.3
4	2E	148	GLY	2.3
34	1c	9	GLY	2.3
33	2b	152	PHE	2.3
6	2G	61	ALA	2.3
7	2H	145	ALA	2.3
21	2Z	21	ALA	2.3
33	2b	29	ALA	2.3
50	2s	71	LEU	2.3
51	2t	13	LEU	2.3
8	2I	4	ILE	2.3
34	2c	77	ILE	2.3
19	2X	65	ARG	2.3
40	1i	128	ARG	2.3
41	1j	66	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
47	2p	48	TRP	2.3
33	2b	92	TYR	2.3
3	2D	51	VAL	2.3
7	2H	19	VAL	2.3
14	2S	14	VAL	2.3
35	2d	178	VAL	2.3
41	1j	44	VAL	2.3
44	2m	54	VAL	2.3
50	1s	9	VAL	2.3
18	2W	112	GLY	2.3
29	27	27	GLY	2.3
21	2Z	88	PHE	2.2
32	2a	1030	C	2.2
38	1g	84	ASN	2.2
38	2g	39	ALA	2.2
7	2H	64	LEU	2.2
6	2G	182	LYS	2.2
5	2F	82	ILE	2.2
12	2Q	6	ARG	2.2
14	2S	25	ARG	2.2
22	20	3	HIS	2.2
35	2d	73	ARG	2.2
47	1p	16	HIS	2.2
26	14	50	VAL	2.2
26	24	7	PRO	2.2
35	1d	152	SER	2.2
39	2h	87	SER	2.2
40	2i	41	VAL	2.2
1	1A	1055	G	2.2
1	2A	2125	G	2.2
32	1a	1003	G	2.2
5	2F	83	PHE	2.2
26	14	59	PHE	2.2
1	1A	1097	U	2.2
12	2Q	28	ALA	2.2
17	2V	93	GLU	2.2
40	1i	110	GLU	2.2
8	2I	28	ASN	2.2
9	2N	83	LYS	2.2
32	2a	977	A	2.2
36	2e	130	ASN	2.2
44	2m	66	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
44	2m	121	LYS	2.2
54	2w	56	C	2.2
54	2y	32	C	2.2
6	1G	144	ILE	2.2
6	2G	88	ILE	2.2
33	1b	32	ILE	2.2
44	2m	9	ILE	2.2
8	1I	20	ASP	2.2
34	1c	56	ASP	2.2
38	1g	79	ARG	2.2
40	2i	66	ARG	2.2
4	2E	116	VAL	2.2
16	2U	8	VAL	2.2
39	2h	93	VAL	2.2
40	1i	14	VAL	2.2
14	2S	36	TYR	2.2
40	2i	126	SER	2.2
47	1p	17	TYR	2.2
42	2k	118	GLY	2.2
1	1A	2116	G	2.2
1	1A	2160	G	2.2
7	2H	103	LEU	2.2
11	2P	141	ALA	2.2
43	2l	47	LYS	2.2
32	2a	1253	G	2.2
32	2a	1310	G	2.2
32	2a	981	U	2.2
32	1a	1447	A	2.2
54	2w	74	C	2.2
40	1i	75	ASP	2.2
6	2G	159	VAL	2.2
34	2c	174	PRO	2.2
36	2e	33	VAL	2.2
44	2m	97	PRO	2.2
3	1D	243	GLY	2.2
5	2F	85	GLY	2.2
17	2V	91	TYR	2.2
33	1b	227	GLY	2.2
44	2m	100	GLY	2.2
52	2u	11	GLY	2.2
52	2u	16	GLY	2.2
35	2d	78	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
36	2e	91	LEU	2.2
40	2i	99	LEU	2.2
18	1W	7	ALA	2.2
33	1b	128	GLU	2.2
34	2c	53	ALA	2.2
45	2n	10	ALA	2.2
8	2I	88	ILE	2.2
14	2S	20	ARG	2.2
14	2S	40	ILE	2.2
45	2n	29	ARG	2.2
46	2o	68	ARG	2.2
50	2s	49	ILE	2.2
1	2A	1026	U	2.2
9	2N	69	GLN	2.2
32	1a	1000	U	2.2
32	2a	1219	U	2.2
1	1A	1063	G	2.2
1	1A	2190	G	2.2
7	2H	61	HIS	2.2
32	2a	1334	G	2.2
54	1w	49	G	2.2
11	2P	125	VAL	2.2
21	2Z	74	VAL	2.2
26	24	50	VAL	2.2
32	2a	965	A	2.2
32	2a	1251	A	2.2
33	2b	81	VAL	2.2
36	2e	90	VAL	2.2
40	1i	86	VAL	2.2
32	1a	1018	C	2.2
54	1w	70	C	2.2
38	1g	156	TRP	2.2
12	2Q	85	LYS	2.2
41	2j	93	GLY	2.2
22	20	45	PHE	2.2
52	1u	18	TYR	2.2
14	2S	4	LEU	2.2
17	2V	71	LEU	2.2
35	1d	208	SER	2.2
38	2g	12	LEU	2.2
50	2s	15	LEU	2.2
8	2I	46	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
14	2S	37	ALA	2.2
33	2b	161	ALA	2.2
40	2i	15	ALA	2.2
40	2i	122	ALA	2.2
45	2n	2	ALA	2.2
11	2P	65	ARG	2.1
15	2T	55	ASN	2.1
33	2b	16	HIS	2.1
8	2I	15	VAL	2.1
31	29	25	VAL	2.1
33	1b	202	PRO	2.1
41	1j	34	VAL	2.1
46	2o	19	PRO	2.1
12	2Q	1	MET	2.1
1	2A	2131	G	2.1
5	2F	79	GLY	2.1
12	1Q	61	GLY	2.1
32	2a	1001(A)	G	2.1
33	1b	228	GLY	2.1
37	1f	58	GLY	2.1
40	1i	64	THR	2.1
52	2u	8	THR	2.1
54	2w	1	G	2.1
54	2y	19	G	2.1
1	2A	2789	C	2.1
7	2H	123	PHE	2.1
10	2O	99	PHE	2.1
32	2a	1217	C	2.1
34	2c	204	LEU	2.1
42	1k	98	LEU	2.1
51	1t	13	LEU	2.1
51	2t	72	LEU	2.1
47	1p	39	TYR	2.1
7	2H	63	SER	2.1
40	2i	45	ALA	2.1
43	1l	89	ARG	2.1
33	1b	214	ILE	2.1
44	2m	92	HIS	2.1
34	1c	99	VAL	2.1
34	2c	153	VAL	2.1
33	2b	101	MET	2.1
37	2f	89	MET	2.1

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Mol	Chain	Res	Type	RSRZ
47	1p	66	PRO	2.1
6	2G	64	THR	2.1
7	2H	100	GLY	2.1
34	2c	80	GLY	2.1
34	2c	159	GLY	2.1
14	2S	101	LEU	2.1
20	2Y	89	PHE	2.1
33	1b	187	LEU	2.1
33	2b	145	LEU	2.1
35	2d	75	PHE	2.1
36	2e	123	LEU	2.1
51	2t	10	LEU	2.1
1	1A	2170	A	2.1
1	2A	2119	A	2.1
32	1a	1005	A	2.1
33	1b	30	ARG	2.1
44	1m	3	ARG	2.1
45	1n	5	ALA	2.1
52	1u	15	ARG	2.1
53	1v	13	A	2.1
1	2A	2802	G	2.1
1	2A	277	C	2.1
7	2H	38	SER	2.1
11	2P	42	SER	2.1
21	1Z	2	GLU	2.1
21	1Z	166	SER	2.1
32	1a	1030(A)	G	2.1
33	1b	223	ILE	2.1
39	1h	87	SER	2.1
48	1q	78	GLU	2.1
32	2a	972	C	2.1
32	2a	985	C	2.1
50	2s	4	SER	2.1
51	2t	70	SER	2.1
14	2S	38	GLN	2.1
21	2Z	141	VAL	2.1
8	2I	132	PRO	2.1
23	2I	16	ASN	2.1
33	2b	164	VAL	2.1
34	2c	199	LYS	2.1
41	2j	41	PRO	2.1
9	2N	99	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
26	24	65	ASP	2.1
34	2c	62	ASP	2.1
45	2n	53	LEU	2.1
34	2c	167	TRP	2.1
44	2m	88	ARG	2.1
5	2F	27	GLU	2.1
6	1G	146	TYR	2.1
6	2G	63	ILE	2.1
14	1S	43	GLU	2.1
39	2h	83	ILE	2.1
40	2i	36	TYR	2.1
43	1l	7	ILE	2.1
1	1A	2117	A	2.1
54	1w	69	A	2.1
1	1A	1080	C	2.1
1	1A	2164	C	2.1
1	1A	2174	C	2.1
12	2Q	102	VAL	2.1
31	29	33	LYS	2.1
32	1a	1034	G	2.1
32	2a	1024	G	2.1
32	2a	1283	G	2.1
33	2b	112	VAL	2.1
23	2l	44	PRO	2.1
40	2i	123	PRO	2.1
8	2I	12	LEU	2.1
21	2Z	33	LEU	2.1
35	1d	176	LEU	2.1
47	1p	49	LEU	2.1
1	1A	2167	U	2.1
35	1d	2	GLY	2.1
9	2N	73	THR	2.1
40	1i	83	ARG	2.1
40	2i	83	ARG	2.1
8	2I	83	ALA	2.1
34	1c	182	ILE	2.1
12	2Q	32	TYR	2.1
33	2b	236	TYR	2.1
45	2n	21	TYR	2.1
6	2G	148	MET	2.0
7	1H	2	SER	2.0
22	20	40	GLN	2.0

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Mol	Chain	Res	Type	RSRZ
40	1i	127	LYS	2.0
46	2o	9	GLN	2.0
47	2p	82	GLN	2.0
1	2A	229	A	2.0
7	2H	133	VAL	2.0
33	1b	7	VAL	2.0
54	1w	66	A	2.0
6	2G	142	PRO	2.0
1	1A	886	C	2.0
1	2A	2174	C	2.0
1	2A	2896	C	2.0
2	2B	5	C	2.0
8	1I	116	LEU	2.0
12	2Q	17	LEU	2.0
17	2V	62	LEU	2.0
27	25	30	LEU	2.0
32	1a	1029	C	2.0
33	1b	44	LEU	2.0
37	2f	43	LEU	2.0
47	2p	73	LEU	2.0
1	2A	2110	G	2.0
21	2Z	104	PHE	2.0
32	1a	630	G	2.0
40	1i	72	GLY	2.0
40	2i	33	PHE	2.0
43	1l	95	GLY	2.0
51	2t	8	ARG	2.0
1	1A	2144	U	2.0
21	1Z	171	ILE	2.0
32	1a	1257	U	2.0
34	2c	5	ILE	2.0
36	1e	120	THR	2.0
15	1T	131	ALA	2.0
33	2b	120	ALA	2.0
7	2H	44	VAL	2.0
21	1Z	165	VAL	2.0
21	2Z	153	SER	2.0
28	26	52	VAL	2.0
40	1i	126	SER	2.0
1	1A	1086	A	2.0
7	2H	67	LEU	2.0
23	11	98	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
32	2a	964	A	2.0
34	2c	47	LEU	2.0
41	1j	65	LEU	2.0
51	1t	62	LEU	2.0
18	2W	92	ARG	2.0
39	2h	85	ARG	2.0
47	2p	25	ARG	2.0
21	2Z	48	PHE	2.0
35	2d	185	PHE	2.0
40	1i	68	GLY	2.0
41	2j	52	GLY	2.0
32	2a	1019	C	2.0
32	2a	1249	C	2.0
41	2j	38	ILE	2.0
34	1c	113	ALA	2.0
38	1g	150	ALA	2.0
47	1p	24	ALA	2.0
50	2s	77	THR	2.0
1	2A	2132	U	2.0
1	1A	2159	G	2.0
2	2B	54	G	2.0
6	2G	35	GLU	2.0
21	2Z	87	ASP	2.0
39	1h	4	ASP	2.0
6	2G	74	LYS	2.0
22	20	5	LYS	2.0
32	1a	220	G	2.0
32	2a	630	G	2.0
32	2a	1030(C)	G	2.0
32	2a	1184	G	2.0
33	2b	22	LYS	2.0
41	2j	61	GLU	2.0
54	1y	20	G	2.0
20	2Y	5	MET	2.0
40	2i	125	TYR	2.0
43	2l	64	TYR	2.0
44	2m	87	TYR	2.0
34	2c	75	VAL	2.0
45	2n	56	VAL	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
54	PSU	2w	55	20/21	0.52	0.16	82,96,107,108	0
54	7MG	2w	46	24/25	0.54	0.13	79,92,98,107	0
54	5MU	2y	54	21/22	0.61	0.14	72,85,94,106	0
54	7MG	2y	46	24/25	0.64	0.13	75,93,100,110	0
54	6MZ	1y	37	23/24	0.65	0.15	77,82,90,98	0
54	CM0	2y	34	25/26	0.66	0.16	76,88,100,116	0
54	7MG	1w	46	24/25	0.66	0.14	75,83,91,102	0
54	5MU	2w	54	21/22	0.69	0.14	75,83,90,98	0
54	6MZ	2y	37	23/24	0.69	0.18	71,85,103,113	0
54	4SU	1y	8	20/21	0.69	0.13	81,86,90,99	0
54	CM0	2w	34	25/26	0.70	0.17	67,82,89,101	0
54	4SU	2w	8	20/21	0.70	0.12	89,95,100,101	0
54	PSU	1w	55	20/21	0.71	0.13	72,82,89,91	0
54	4SU	2y	8	20/21	0.71	0.10	82,92,104,109	0
54	7MG	1y	46	24/25	0.74	0.12	79,89,97,106	0
54	5MU	1y	54	21/22	0.74	0.12	75,82,94,96	0
54	CM0	1y	34	25/26	0.75	0.13	59,84,89,100	0
54	4SU	1w	8	20/21	0.76	0.12	70,83,99,103	0
1	5MU	2A	1915	21/22	0.77	0.13	62,69,78,91	0
54	PSU	2y	55	20/21	0.77	0.10	75,83,91,100	0
54	6MZ	2w	37	23/24	0.78	0.14	70,77,83,86	0
55	PSU	2x	55	20/21	0.78	0.10	70,78,86,93	0
54	CM0	1w	34	25/26	0.79	0.19	58,70,74,78	0
54	PSU	1y	55	20/21	0.80	0.11	74,82,94,99	0
54	5MU	1w	54	21/22	0.81	0.11	68,74,81,86	0
55	4SU	2x	8	20/21	0.83	0.12	58,74,79,80	0
32	2MG	2a	1207	24/25	0.84	0.11	65,76,81,84	0
55	5MU	2x	54	21/22	0.85	0.12	71,78,83,85	0
32	M2G	2a	966	25/26	0.85	0.18	54,67,78,82	0
32	PSU	2a	516	20/21	0.86	0.11	60,64,69,69	0
54	6MZ	1w	37	23/24	0.87	0.14	55,64,71,73	0
55	5MU	1x	54	21/22	0.88	0.10	48,61,64,74	0
43	0TD	1l	92	10/11	0.88	0.14	46,52,54,68	0
55	5MC	2x	32	21/22	0.88	0.14	63,69,74,76	0
32	5MC	2a	1404	21/22	0.89	0.12	45,53,57,60	0
55	4SU	1x	8	20/21	0.89	0.11	55,63,69,69	0
1	PSU	2A	1911	20/21	0.89	0.09	47,60,70,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	7MG	2a	527	24/25	0.89	0.12	57,67,69,71	0
32	PSU	1a	516	20/21	0.89	0.13	51,60,66,73	0
32	5MC	2a	967	21/22	0.89	0.14	54,67,73,79	0
55	PSU	1x	55	20/21	0.89	0.10	54,59,74,77	0
1	PSU	2A	1917	20/21	0.89	0.09	51,60,66,71	0
1	5MC	2A	1942	21/22	0.90	0.11	48,62,68,77	0
43	0TD	2l	92	10/11	0.91	0.10	57,62,65,66	0
32	4OC	2a	1402	22/23	0.91	0.13	48,60,64,65	0
1	4OC	2A	1920	21/23	0.91	0.11	57,64,67,72	0
32	MA6	2a	1518	24/25	0.91	0.11	49,60,64,66	0
55	5MC	1x	32	21/22	0.92	0.12	47,56,62,64	0
32	UR3	2a	1498	21/22	0.93	0.11	42,52,58,62	0
32	2MG	1a	1207	24/25	0.93	0.10	48,60,66,66	0
32	5MC	2a	1400	21/22	0.93	0.12	61,66,68,71	0
1	5MU	1A	1915	21/22	0.93	0.11	40,51,57,58	0
32	5MC	1a	1400	21/22	0.93	0.12	41,49,54,59	0
32	M2G	1a	966	25/26	0.93	0.13	46,52,60,65	0
1	5MC	2A	1962	21/22	0.94	0.09	30,47,54,66	0
32	5MC	2a	1407	21/22	0.94	0.09	45,51,54,56	0
1	PSU	1A	1917	20/21	0.94	0.08	32,52,55,56	0
1	5MC	1A	1942	21/22	0.94	0.09	29,38,46,52	0
32	5MC	1a	967	21/22	0.95	0.11	49,56,65,68	0
1	5MU	2A	1939	21/22	0.95	0.09	35,41,47,47	0
32	4OC	1a	1402	22/23	0.95	0.11	33,40,46,55	0
32	MA6	2a	1519	24/25	0.95	0.13	41,56,60,62	0
32	5MC	1a	1407	21/22	0.95	0.10	25,36,40,42	0
1	OMG	2A	2251	24/25	0.95	0.09	33,39,44,46	0
1	2MU	2A	2552	21/23	0.95	0.09	35,42,50,58	0
32	MA6	1a	1519	24/25	0.95	0.10	34,37,47,51	0
32	5MC	1a	1404	21/22	0.96	0.09	30,34,39,40	0
32	7MG	1a	527	24/25	0.96	0.11	32,41,45,46	0
1	PSU	1A	1911	20/21	0.96	0.09	29,39,51,52	0
1	2MA	2A	2503	23/24	0.96	0.09	24,31,38,40	0
32	UR3	1a	1498	21/22	0.96	0.08	31,35,39,43	0
1	4OC	1A	1920	21/23	0.96	0.08	31,40,45,46	0
1	5MU	1A	1939	21/22	0.96	0.09	21,26,32,34	0
32	MA6	1a	1518	24/25	0.96	0.10	32,36,40,43	0
1	PSU	1A	2605	20/21	0.97	0.07	14,20,26,27	0
1	PSU	2A	2605	20/21	0.97	0.07	27,34,40,43	0
1	5MC	1A	1962	21/22	0.97	0.08	26,31,35,36	0
1	OMG	1A	2251	24/25	0.98	0.07	10,15,22,23	0
1	2MA	1A	2503	23/24	0.98	0.07	6,12,15,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
1	2MU	1A	2552	21/23	0.98	0.06	16,22,26,27	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3643	1/1	0.47	0.20	71,71,71,71	0
56	MG	2A	3797	1/1	0.49	0.14	78,78,78,78	0
56	MG	2A	3733	1/1	0.55	0.42	73,73,73,73	0
56	MG	2A	3632	1/1	0.55	0.20	61,61,61,61	0
56	MG	2A	3670	1/1	0.57	0.19	67,67,67,67	0
56	MG	1x	104	1/1	0.58	0.18	67,67,67,67	0
56	MG	1A	3981	1/1	0.58	0.28	29,29,29,29	0
56	MG	2a	1749	1/1	0.59	0.18	68,68,68,68	0
56	MG	2B	216	1/1	0.61	0.20	61,61,61,61	0
56	MG	2a	1733	1/1	0.62	0.29	66,66,66,66	0
56	MG	2A	3743	1/1	0.65	0.18	62,62,62,62	0
56	MG	1A	3270	1/1	0.66	0.33	61,61,61,61	0
56	MG	2a	1710	1/1	0.66	0.19	70,70,70,70	0
56	MG	1A	3971	1/1	0.66	0.17	27,27,27,27	0
56	MG	1x	106	1/1	0.66	0.16	66,66,66,66	0
56	MG	1A	3660	1/1	0.67	0.20	60,60,60,60	0
56	MG	1A	3953	1/1	0.67	0.16	12,12,12,12	0
56	MG	1B	216	1/1	0.68	0.30	60,60,60,60	0
56	MG	2A	3717	1/1	0.68	0.17	44,44,44,44	0
56	MG	1y	103	1/1	0.68	0.23	66,66,66,66	0
56	MG	2A	3498	1/1	0.69	0.15	51,51,51,51	0
56	MG	1A	3506	1/1	0.70	0.31	43,43,43,43	0
56	MG	2A	3678	1/1	0.70	0.11	76,76,76,76	0
56	MG	1a	3075	1/1	0.71	0.16	63,63,63,63	0
56	MG	2A	3285	1/1	0.71	0.17	66,66,66,66	0
56	MG	26	101	1/1	0.71	0.10	54,54,54,54	0
56	MG	2A	3860	1/1	0.72	0.17	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1677	1/1	0.72	0.23	60,60,60,60	0
56	MG	2a	1709	1/1	0.72	0.24	60,60,60,60	0
56	MG	2A	3773	1/1	0.73	0.34	71,71,71,71	0
56	MG	1A	3423	1/1	0.74	0.14	50,50,50,50	0
56	MG	2A	3570	1/1	0.74	0.13	56,56,56,56	0
56	MG	2A	3608	1/1	0.74	0.13	50,50,50,50	0
56	MG	2A	3365	1/1	0.74	0.27	48,48,48,48	0
56	MG	2A	3372	1/1	0.74	0.14	57,57,57,57	0
56	MG	2A	3751	1/1	0.74	0.17	37,37,37,37	0
56	MG	2A	3650	1/1	0.74	0.11	47,47,47,47	0
56	MG	2a	1721	1/1	0.74	0.24	55,55,55,55	0
56	MG	2A	3774	1/1	0.74	0.36	66,66,66,66	0
56	MG	2A	3786	1/1	0.74	0.18	67,67,67,67	0
56	MG	2l	203	1/1	0.74	0.22	59,59,59,59	0
56	MG	2B	208	1/1	0.75	0.08	57,57,57,57	0
56	MG	2A	3243	1/1	0.75	0.22	59,59,59,59	0
56	MG	2a	1724	1/1	0.75	0.26	64,64,64,64	0
56	MG	1A	3081	1/1	0.75	0.14	40,40,40,40	0
56	MG	2A	3798	1/1	0.75	0.13	55,55,55,55	0
56	MG	2a	1815	1/1	0.75	0.15	56,56,56,56	0
56	MG	2a	1832	1/1	0.75	0.15	51,51,51,51	0
56	MG	1A	3473	1/1	0.75	0.17	51,51,51,51	0
56	MG	2A	3656	1/1	0.76	0.25	45,45,45,45	0
56	MG	1A	3984	1/1	0.76	0.28	60,60,60,60	0
56	MG	2A	3345	1/1	0.76	0.20	61,61,61,61	0
56	MG	2A	3784	1/1	0.76	0.14	58,58,58,58	0
56	MG	2A	3062	1/1	0.76	0.23	60,60,60,60	0
56	MG	1A	3997	1/1	0.76	0.14	57,57,57,57	0
56	MG	2A	3245	1/1	0.76	0.20	58,58,58,58	0
56	MG	2A	3775	1/1	0.77	0.17	83,83,83,83	0
56	MG	2a	1701	1/1	0.77	0.33	64,64,64,64	0
56	MG	2A	3597	1/1	0.77	0.11	34,34,34,34	0
56	MG	1a	3170	1/1	0.77	0.21	52,52,52,52	0
56	MG	2A	3378	1/1	0.77	0.10	53,53,53,53	0
56	MG	2A	3359	1/1	0.77	0.22	57,57,57,57	0
56	MG	2A	3749	1/1	0.77	0.17	41,41,41,41	0
56	MG	2a	1745	1/1	0.77	0.10	62,62,62,62	0
56	MG	2A	3502	1/1	0.77	0.13	53,53,53,53	0
56	MG	2A	3506	1/1	0.77	0.20	56,56,56,56	0
56	MG	1A	3888	1/1	0.77	0.13	62,62,62,62	0
56	MG	2a	1649	1/1	0.77	0.16	54,54,54,54	0
56	MG	2A	3745	1/1	0.78	0.14	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1x	107	1/1	0.78	0.14	59,59,59,59	0
56	MG	2A	3600	1/1	0.78	0.23	69,69,69,69	0
56	MG	2A	3766	1/1	0.78	0.18	80,80,80,80	0
56	MG	2A	3671	1/1	0.78	0.18	35,35,35,35	0
56	MG	1A	3609	1/1	0.78	0.28	54,54,54,54	0
56	MG	2a	1608	1/1	0.78	0.26	55,55,55,55	0
56	MG	1w	105	1/1	0.78	0.19	51,51,51,51	0
56	MG	1a	3041	1/1	0.78	0.25	52,52,52,52	0
56	MG	1A	3493	1/1	0.78	0.29	55,55,55,55	0
56	MG	2A	3770	1/1	0.79	0.13	65,65,65,65	0
56	MG	2A	3822	1/1	0.79	0.12	44,44,44,44	0
56	MG	2A	3287	1/1	0.79	0.10	58,58,58,58	0
56	MG	1A	3933	1/1	0.79	0.19	58,58,58,58	0
56	MG	1a	3084	1/1	0.79	0.21	56,56,56,56	0
56	MG	2G	201	1/1	0.79	0.18	59,59,59,59	0
56	MG	2A	3256	1/1	0.79	0.26	58,58,58,58	0
56	MG	1A	3824	1/1	0.79	0.15	25,25,25,25	0
56	MG	2a	1621	1/1	0.79	0.13	65,65,65,65	0
56	MG	2a	1631	1/1	0.79	0.25	54,54,54,54	0
56	MG	2A	3644	1/1	0.79	0.12	54,54,54,54	0
56	MG	2a	1674	1/1	0.79	0.18	55,55,55,55	0
56	MG	2A	3294	1/1	0.80	0.14	44,44,44,44	0
56	MG	2a	1669	1/1	0.80	0.15	41,41,41,41	0
56	MG	2A	3298	1/1	0.80	0.12	68,68,68,68	0
56	MG	2A	3693	1/1	0.80	0.14	55,55,55,55	0
56	MG	2A	3336	1/1	0.80	0.15	47,47,47,47	0
56	MG	2A	3599	1/1	0.80	0.11	44,44,44,44	0
56	MG	1A	3535	1/1	0.80	0.10	31,31,31,31	0
56	MG	1A	4056	1/1	0.80	0.12	43,43,43,43	0
56	MG	1A	3836	1/1	0.80	0.14	47,47,47,47	0
56	MG	2A	3249	1/1	0.80	0.11	54,54,54,54	0
56	MG	2A	3754	1/1	0.80	0.12	48,48,48,48	0
56	MG	1B	226	1/1	0.80	0.15	51,51,51,51	0
56	MG	2A	3472	1/1	0.80	0.27	64,64,64,64	0
56	MG	1w	103	1/1	0.80	0.23	44,44,44,44	0
56	MG	1y	104	1/1	0.80	0.12	61,61,61,61	0
56	MG	2A	3161	1/1	0.81	0.10	47,47,47,47	0
56	MG	1A	3890	1/1	0.81	0.11	17,17,17,17	0
56	MG	2a	1639	1/1	0.81	0.27	60,60,60,60	0
56	MG	2A	3373	1/1	0.81	0.18	52,52,52,52	0
56	MG	1a	3202	1/1	0.81	0.10	46,46,46,46	0
56	MG	1A	3343	1/1	0.81	0.07	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1B	231	1/1	0.81	0.12	41,41,41,41	0
56	MG	10	107	1/1	0.81	0.08	34,34,34,34	0
56	MG	2a	1706	1/1	0.81	0.19	67,67,67,67	0
56	MG	1A	3116	1/1	0.81	0.10	36,36,36,36	0
56	MG	1a	3073	1/1	0.81	0.25	65,65,65,65	0
56	MG	1A	4036	1/1	0.81	0.17	10,10,10,10	0
56	MG	2A	3736	1/1	0.81	0.15	48,48,48,48	0
56	MG	2A	3327	1/1	0.81	0.38	44,44,44,44	0
56	MG	1A	3471	1/1	0.81	0.22	50,50,50,50	0
56	MG	2A	3026	1/1	0.81	0.14	40,40,40,40	0
56	MG	2a	1808	1/1	0.81	0.22	52,52,52,52	0
56	MG	2A	3624	1/1	0.81	0.20	58,58,58,58	0
56	MG	1a	3164	1/1	0.81	0.17	49,49,49,49	0
56	MG	2l	201	1/1	0.81	0.14	48,48,48,48	0
56	MG	2a	1610	1/1	0.81	0.24	64,64,64,64	0
56	MG	1a	3139	1/1	0.82	0.23	58,58,58,58	0
56	MG	1A	3856	1/1	0.82	0.10	28,28,28,28	0
56	MG	1Z	302	1/1	0.82	0.08	50,50,50,50	0
56	MG	2A	3156	1/1	0.82	0.17	46,46,46,46	0
56	MG	2A	3160	1/1	0.82	0.15	50,50,50,50	0
56	MG	2a	1612	1/1	0.82	0.16	62,62,62,62	0
56	MG	2A	3391	1/1	0.82	0.17	57,57,57,57	0
56	MG	2A	3450	1/1	0.82	0.17	52,52,52,52	0
56	MG	1a	3175	1/1	0.82	0.10	66,66,66,66	0
56	MG	2A	3180	1/1	0.82	0.12	48,48,48,48	0
56	MG	2a	1664	1/1	0.82	0.19	49,49,49,49	0
56	MG	2A	3499	1/1	0.82	0.18	50,50,50,50	0
56	MG	1A	3874	1/1	0.82	0.18	47,47,47,47	0
56	MG	1a	3224	1/1	0.82	0.13	40,40,40,40	0
56	MG	2a	1679	1/1	0.82	0.17	58,58,58,58	0
56	MG	2A	3521	1/1	0.82	0.16	60,60,60,60	0
56	MG	1a	3226	1/1	0.82	0.21	63,63,63,63	0
56	MG	1m	201	1/1	0.82	0.17	64,64,64,64	0
56	MG	2A	3277	1/1	0.82	0.20	55,55,55,55	0
56	MG	1A	3103	1/1	0.82	0.18	46,46,46,46	0
56	MG	2A	3776	1/1	0.82	0.13	74,74,74,74	0
56	MG	1a	3049	1/1	0.82	0.21	47,47,47,47	0
56	MG	2A	3785	1/1	0.82	0.10	70,70,70,70	0
56	MG	1a	3058	1/1	0.82	0.22	58,58,58,58	0
56	MG	2a	1807	1/1	0.82	0.13	60,60,60,60	0
56	MG	1A	3580	1/1	0.82	0.19	40,40,40,40	0
56	MG	1B	219	1/1	0.82	0.14	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1x	111	1/1	0.82	0.17	49,49,49,49	0
56	MG	2i	201	1/1	0.82	0.13	60,60,60,60	0
56	MG	1A	3912	1/1	0.82	0.13	60,60,60,60	0
56	MG	2A	3356	1/1	0.82	0.23	55,55,55,55	0
56	MG	2A	3635	1/1	0.83	0.21	59,59,59,59	0
56	MG	2A	3382	1/1	0.83	0.23	44,44,44,44	0
56	MG	1A	3772	1/1	0.83	0.11	12,12,12,12	0
56	MG	1A	4071	1/1	0.83	0.17	52,52,52,52	0
56	MG	2A	3469	1/1	0.83	0.17	61,61,61,61	0
56	MG	2A	3115	1/1	0.83	0.08	61,61,61,61	0
56	MG	2A	3142	1/1	0.83	0.14	55,55,55,55	0
56	MG	2A	3308	1/1	0.83	0.16	50,50,50,50	0
56	MG	1w	102	1/1	0.83	0.16	48,48,48,48	0
56	MG	1a	3131	1/1	0.83	0.22	53,53,53,53	0
56	MG	1a	3138	1/1	0.83	0.23	58,58,58,58	0
56	MG	2A	3561	1/1	0.83	0.10	27,27,27,27	0
56	MG	2E	304	1/1	0.83	0.18	57,57,57,57	0
56	MG	2a	1738	1/1	0.83	0.11	76,76,76,76	0
56	MG	1a	3010	1/1	0.83	0.17	58,58,58,58	0
56	MG	1A	3428	1/1	0.83	0.15	55,55,55,55	0
56	MG	2a	1773	1/1	0.83	0.18	71,71,71,71	0
56	MG	1A	3142	1/1	0.83	0.11	44,44,44,44	0
56	MG	2a	1609	1/1	0.83	0.21	50,50,50,50	0
56	MG	1a	3055	1/1	0.83	0.12	58,58,58,58	0
56	MG	2A	3602	1/1	0.83	0.24	45,45,45,45	0
56	MG	1A	3573	1/1	0.83	0.12	40,40,40,40	0
56	MG	2A	3375	1/1	0.83	0.36	59,59,59,59	0
56	MG	1A	3676	1/1	0.83	0.16	28,28,28,28	0
56	MG	2A	3001	1/1	0.84	0.21	41,41,41,41	0
56	MG	1A	4073	1/1	0.84	0.24	66,66,66,66	0
56	MG	1A	3835	1/1	0.84	0.09	22,22,22,22	0
56	MG	1a	3079	1/1	0.84	0.20	48,48,48,48	0
56	MG	2A	3686	1/1	0.84	0.09	41,41,41,41	0
56	MG	2a	1695	1/1	0.84	0.11	63,63,63,63	0
56	MG	2A	3821	1/1	0.84	0.11	26,26,26,26	0
56	MG	2A	3541	1/1	0.84	0.16	53,53,53,53	0
56	MG	2A	3559	1/1	0.84	0.17	39,39,39,39	0
56	MG	1a	3188	1/1	0.84	0.09	48,48,48,48	0
56	MG	2B	210	1/1	0.84	0.17	72,72,72,72	0
56	MG	1A	3044	1/1	0.84	0.19	37,37,37,37	0
56	MG	1A	3107	1/1	0.84	0.18	40,40,40,40	0
56	MG	1A	3897	1/1	0.84	0.14	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1740	1/1	0.84	0.15	60,60,60,60	0
56	MG	1A	3898	1/1	0.84	0.11	42,42,42,42	0
56	MG	2a	1603	1/1	0.84	0.15	50,50,50,50	0
56	MG	2a	1758	1/1	0.84	0.12	70,70,70,70	0
56	MG	2A	3309	1/1	0.84	0.12	41,41,41,41	0
56	MG	2a	1783	1/1	0.84	0.10	42,42,42,42	0
56	MG	2a	1799	1/1	0.84	0.18	45,45,45,45	0
56	MG	2A	3397	1/1	0.84	0.11	53,53,53,53	0
56	MG	2A	3410	1/1	0.84	0.16	48,48,48,48	0
56	MG	2a	1813	1/1	0.84	0.26	60,60,60,60	0
56	MG	2A	3183	1/1	0.84	0.14	35,35,35,35	0
56	MG	2a	1817	1/1	0.84	0.10	38,38,38,38	0
56	MG	2a	1829	1/1	0.84	0.10	45,45,45,45	0
56	MG	2A	3455	1/1	0.84	0.20	63,63,63,63	0
56	MG	1w	101	1/1	0.84	0.23	49,49,49,49	0
56	MG	2i	202	1/1	0.84	0.08	42,42,42,42	0
56	MG	2A	3341	1/1	0.84	0.15	52,52,52,52	0
56	MG	2A	3342	1/1	0.84	0.20	55,55,55,55	0
56	MG	2A	3174	1/1	0.85	0.14	47,47,47,47	0
56	MG	1A	3713	1/1	0.85	0.11	22,22,22,22	0
56	MG	1a	3030	1/1	0.85	0.15	52,52,52,52	0
56	MG	1A	3728	1/1	0.85	0.12	54,54,54,54	0
56	MG	1A	3889	1/1	0.85	0.14	35,35,35,35	0
56	MG	1A	3733	1/1	0.85	0.15	45,45,45,45	0
56	MG	2A	3694	1/1	0.85	0.12	47,47,47,47	0
56	MG	2A	3700	1/1	0.85	0.08	55,55,55,55	0
56	MG	1A	3325	1/1	0.85	0.19	42,42,42,42	0
56	MG	2a	1666	1/1	0.85	0.11	50,50,50,50	0
56	MG	2A	3275	1/1	0.85	0.10	44,44,44,44	0
56	MG	1w	104	1/1	0.85	0.16	51,51,51,51	0
56	MG	2A	3477	1/1	0.85	0.14	56,56,56,56	0
56	MG	2A	3484	1/1	0.85	0.12	55,55,55,55	0
56	MG	2A	3497	1/1	0.85	0.16	72,72,72,72	0
56	MG	1A	3145	1/1	0.85	0.14	40,40,40,40	0
56	MG	2A	3286	1/1	0.85	0.07	46,46,46,46	0
56	MG	1A	3826	1/1	0.85	0.11	29,29,29,29	0
56	MG	1A	3388	1/1	0.85	0.17	53,53,53,53	0
56	MG	2a	1720	1/1	0.85	0.24	55,55,55,55	0
56	MG	1B	220	1/1	0.85	0.10	32,32,32,32	0
56	MG	2A	3303	1/1	0.85	0.18	56,56,56,56	0
56	MG	2A	3558	1/1	0.85	0.13	58,58,58,58	0
56	MG	1a	3104	1/1	0.85	0.14	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1B	222	1/1	0.85	0.08	53,53,53,53	0
56	MG	2A	3325	1/1	0.85	0.10	60,60,60,60	0
56	MG	1B	223	1/1	0.85	0.12	43,43,43,43	0
56	MG	1A	3062	1/1	0.85	0.14	38,38,38,38	0
56	MG	2a	1759	1/1	0.85	0.13	61,61,61,61	0
56	MG	2a	1760	1/1	0.85	0.12	60,60,60,60	0
56	MG	1a	3141	1/1	0.85	0.29	48,48,48,48	0
56	MG	2a	1779	1/1	0.85	0.09	51,51,51,51	0
56	MG	1a	3151	1/1	0.85	0.11	62,62,62,62	0
56	MG	2a	1784	1/1	0.85	0.13	60,60,60,60	0
56	MG	2A	3095	1/1	0.85	0.14	66,66,66,66	0
56	MG	2a	1800	1/1	0.85	0.06	56,56,56,56	0
56	MG	2A	3856	1/1	0.85	0.10	45,45,45,45	0
56	MG	2A	3859	1/1	0.85	0.20	60,60,60,60	0
56	MG	1A	3966	1/1	0.85	0.13	15,15,15,15	0
56	MG	1G	203	1/1	0.85	0.08	34,34,34,34	0
56	MG	2A	3634	1/1	0.85	0.14	68,68,68,68	0
56	MG	1A	3309	1/1	0.85	0.10	35,35,35,35	0
56	MG	1A	3867	1/1	0.85	0.16	13,13,13,13	0
56	MG	2F	302	1/1	0.85	0.11	53,53,53,53	0
56	MG	1a	3007	1/1	0.85	0.15	54,54,54,54	0
56	MG	2A	3163	1/1	0.85	0.12	71,71,71,71	0
56	MG	2A	3651	1/1	0.85	0.10	59,59,59,59	0
56	MG	1l	201	1/1	0.86	0.08	22,22,22,22	0
56	MG	2A	3661	1/1	0.86	0.19	56,56,56,56	0
56	MG	2A	3216	1/1	0.86	0.13	39,39,39,39	0
56	MG	1A	3228	1/1	0.86	0.19	50,50,50,50	0
56	MG	2A	3676	1/1	0.86	0.11	64,64,64,64	0
56	MG	2A	3428	1/1	0.86	0.33	66,66,66,66	0
56	MG	1A	3438	1/1	0.86	0.08	51,51,51,51	0
56	MG	2a	1629	1/1	0.86	0.10	37,37,37,37	0
56	MG	2A	3692	1/1	0.86	0.09	29,29,29,29	0
56	MG	1a	3059	1/1	0.86	0.17	48,48,48,48	0
56	MG	1B	201	1/1	0.86	0.11	40,40,40,40	0
56	MG	2A	3268	1/1	0.86	0.11	57,57,57,57	0
56	MG	2A	3709	1/1	0.86	0.10	60,60,60,60	0
56	MG	2A	3711	1/1	0.86	0.17	51,51,51,51	0
56	MG	1A	3453	1/1	0.86	0.15	54,54,54,54	0
56	MG	2A	3728	1/1	0.86	0.12	66,66,66,66	0
56	MG	2A	3478	1/1	0.86	0.19	59,59,59,59	0
56	MG	1A	3782	1/1	0.86	0.10	18,18,18,18	0
56	MG	2A	3740	1/1	0.86	0.13	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1703	1/1	0.86	0.16	69,69,69,69	0
56	MG	1A	3823	1/1	0.86	0.09	30,30,30,30	0
56	MG	1a	3100	1/1	0.86	0.19	42,42,42,42	0
56	MG	1A	3600	1/1	0.86	0.23	44,44,44,44	0
56	MG	1a	3105	1/1	0.86	0.22	51,51,51,51	0
56	MG	1a	3113	1/1	0.86	0.16	41,41,41,41	0
56	MG	2A	3512	1/1	0.86	0.11	36,36,36,36	0
56	MG	2A	3518	1/1	0.86	0.09	63,63,63,63	0
56	MG	1A	3346	1/1	0.86	0.07	24,24,24,24	0
56	MG	1A	3624	1/1	0.86	0.10	31,31,31,31	0
56	MG	2A	3016	1/1	0.86	0.07	43,43,43,43	0
56	MG	2A	3314	1/1	0.86	0.13	54,54,54,54	0
56	MG	2A	3318	1/1	0.86	0.16	45,45,45,45	0
56	MG	1A	3382	1/1	0.86	0.13	36,36,36,36	0
56	MG	2A	3594	1/1	0.86	0.10	42,42,42,42	0
56	MG	2a	1766	1/1	0.86	0.14	53,53,53,53	0
56	MG	2A	3795	1/1	0.86	0.15	61,61,61,61	0
56	MG	1F	314	1/1	0.86	0.24	45,45,45,45	0
56	MG	2A	3080	1/1	0.86	0.12	51,51,51,51	0
56	MG	2A	3801	1/1	0.86	0.26	63,63,63,63	0
56	MG	2A	3819	1/1	0.86	0.12	76,76,76,76	0
56	MG	1A	3974	1/1	0.86	0.10	41,41,41,41	0
56	MG	2A	3105	1/1	0.86	0.24	50,50,50,50	0
56	MG	1A	3315	1/1	0.86	0.12	42,42,42,42	0
56	MG	1a	3166	1/1	0.86	0.14	53,53,53,53	0
56	MG	1A	3113	1/1	0.86	0.11	47,47,47,47	0
56	MG	2A	3157	1/1	0.86	0.21	57,57,57,57	0
56	MG	2a	1822	1/1	0.86	0.15	50,50,50,50	0
56	MG	1A	3715	1/1	0.86	0.08	34,34,34,34	0
56	MG	2B	214	1/1	0.86	0.12	63,63,63,63	0
56	MG	1A	3877	1/1	0.86	0.21	43,43,43,43	0
56	MG	1A	4052	1/1	0.86	0.12	55,55,55,55	0
56	MG	1A	3727	1/1	0.86	0.11	31,31,31,31	0
56	MG	1A	4070	1/1	0.86	0.12	43,43,43,43	0
56	MG	1A	3832	1/1	0.87	0.17	35,35,35,35	0
56	MG	1a	3157	1/1	0.87	0.14	49,49,49,49	0
56	MG	2A	3697	1/1	0.87	0.11	53,53,53,53	0
56	MG	2A	3008	1/1	0.87	0.08	49,49,49,49	0
56	MG	1a	3158	1/1	0.87	0.11	51,51,51,51	0
56	MG	2A	3710	1/1	0.87	0.09	51,51,51,51	0
56	MG	2A	3300	1/1	0.87	0.10	49,49,49,49	0
56	MG	1a	3051	1/1	0.87	0.21	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3090	1/1	0.87	0.28	28,28,28,28	0
56	MG	2A	3077	1/1	0.87	0.08	32,32,32,32	0
56	MG	2a	1640	1/1	0.87	0.16	56,56,56,56	0
56	MG	1a	3167	1/1	0.87	0.08	54,54,54,54	0
56	MG	2A	3317	1/1	0.87	0.11	47,47,47,47	0
56	MG	2A	3741	1/1	0.87	0.12	49,49,49,49	0
56	MG	1A	3765	1/1	0.87	0.08	33,33,33,33	0
56	MG	2A	3542	1/1	0.87	0.14	50,50,50,50	0
56	MG	2a	1675	1/1	0.87	0.17	55,55,55,55	0
56	MG	1A	4035	1/1	0.87	0.10	39,39,39,39	0
56	MG	1a	3062	1/1	0.87	0.35	56,56,56,56	0
56	MG	2a	1681	1/1	0.87	0.21	51,51,51,51	0
56	MG	1a	3201	1/1	0.87	0.18	55,55,55,55	0
56	MG	2A	3562	1/1	0.87	0.18	65,65,65,65	0
56	MG	2A	3568	1/1	0.87	0.20	46,46,46,46	0
56	MG	2A	3339	1/1	0.87	0.12	68,68,68,68	0
56	MG	2A	3584	1/1	0.87	0.13	44,44,44,44	0
56	MG	2A	3144	1/1	0.87	0.18	43,43,43,43	0
56	MG	2a	1711	1/1	0.87	0.15	47,47,47,47	0
56	MG	1B	228	1/1	0.87	0.09	35,35,35,35	0
56	MG	2A	3343	1/1	0.87	0.14	60,60,60,60	0
56	MG	1A	3598	1/1	0.87	0.23	36,36,36,36	0
56	MG	1E	307	1/1	0.87	0.20	36,36,36,36	0
56	MG	2A	3789	1/1	0.87	0.11	74,74,74,74	0
56	MG	1d	301	1/1	0.87	0.40	56,56,56,56	0
56	MG	1A	3775	1/1	0.87	0.16	10,10,10,10	0
56	MG	2A	3366	1/1	0.87	0.10	39,39,39,39	0
56	MG	2a	1751	1/1	0.87	0.21	72,72,72,72	0
56	MG	2a	1756	1/1	0.87	0.11	74,74,74,74	0
56	MG	1A	3939	1/1	0.87	0.17	47,47,47,47	0
56	MG	1A	3534	1/1	0.87	0.17	50,50,50,50	0
56	MG	2A	3182	1/1	0.87	0.08	40,40,40,40	0
56	MG	1A	3959	1/1	0.87	0.13	50,50,50,50	0
56	MG	2A	3851	1/1	0.87	0.09	37,37,37,37	0
56	MG	2a	1774	1/1	0.87	0.08	65,65,65,65	0
56	MG	2A	3204	1/1	0.87	0.12	39,39,39,39	0
56	MG	1A	3179	1/1	0.87	0.08	60,60,60,60	0
56	MG	1A	3426	1/1	0.87	0.07	28,28,28,28	0
56	MG	2a	1789	1/1	0.87	0.12	54,54,54,54	0
56	MG	2a	1791	1/1	0.87	0.10	53,53,53,53	0
56	MG	2A	3864	1/1	0.87	0.21	49,49,49,49	0
56	MG	2A	3871	1/1	0.87	0.08	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1806	1/1	0.87	0.13	63,63,63,63	0
56	MG	2A	3874	1/1	0.87	0.09	53,53,53,53	0
56	MG	1A	3657	1/1	0.87	0.13	24,24,24,24	0
56	MG	1a	3031	1/1	0.87	0.28	53,53,53,53	0
56	MG	1A	3979	1/1	0.87	0.15	22,22,22,22	0
56	MG	1a	3144	1/1	0.87	0.11	61,61,61,61	0
56	MG	2D	303	1/1	0.87	0.13	61,61,61,61	0
56	MG	2a	1825	1/1	0.87	0.16	58,58,58,58	0
56	MG	1a	3147	1/1	0.87	0.15	54,54,54,54	0
56	MG	1y	101	1/1	0.87	0.35	43,43,43,43	0
56	MG	1a	3148	1/1	0.87	0.16	46,46,46,46	0
56	MG	2T	202	1/1	0.87	0.11	55,55,55,55	0
56	MG	2l	101	1/1	0.87	0.14	57,57,57,57	0
56	MG	2l	202	1/1	0.87	0.09	45,45,45,45	0
56	MG	22	101	1/1	0.87	0.09	42,42,42,42	0
56	MG	2y	102	1/1	0.87	0.07	51,51,51,51	0
56	MG	2A	3353	1/1	0.88	0.09	51,51,51,51	0
56	MG	2R	202	1/1	0.88	0.10	46,46,46,46	0
56	MG	2A	3648	1/1	0.88	0.11	44,44,44,44	0
56	MG	1A	3708	1/1	0.88	0.08	25,25,25,25	0
56	MG	1a	3215	1/1	0.88	0.12	55,55,55,55	0
56	MG	1A	3485	1/1	0.88	0.19	43,43,43,43	0
56	MG	1A	3389	1/1	0.88	0.10	39,39,39,39	0
56	MG	2A	3165	1/1	0.88	0.08	30,30,30,30	0
56	MG	1A	3866	1/1	0.88	0.14	31,31,31,31	0
56	MG	1A	3724	1/1	0.88	0.11	33,33,33,33	0
56	MG	2a	1611	1/1	0.88	0.15	51,51,51,51	0
56	MG	1A	3497	1/1	0.88	0.09	33,33,33,33	0
56	MG	1A	3420	1/1	0.88	0.38	47,47,47,47	0
56	MG	2A	3390	1/1	0.88	0.08	53,53,53,53	0
56	MG	2A	3197	1/1	0.88	0.09	32,32,32,32	0
56	MG	2A	3396	1/1	0.88	0.18	50,50,50,50	0
56	MG	1a	3107	1/1	0.88	0.10	34,34,34,34	0
56	MG	2A	3404	1/1	0.88	0.09	44,44,44,44	0
56	MG	2A	3706	1/1	0.88	0.07	34,34,34,34	0
56	MG	2A	3207	1/1	0.88	0.20	61,61,61,61	0
56	MG	1a	3108	1/1	0.88	0.07	24,24,24,24	0
56	MG	2A	3429	1/1	0.88	0.25	43,43,43,43	0
56	MG	2A	3219	1/1	0.88	0.11	57,57,57,57	0
56	MG	2A	3228	1/1	0.88	0.28	42,42,42,42	0
56	MG	1a	3110	1/1	0.88	0.17	56,56,56,56	0
56	MG	1T	202	1/1	0.88	0.14	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1x	103	1/1	0.88	0.23	57,57,57,57	0
56	MG	1V	202	1/1	0.88	0.19	24,24,24,24	0
56	MG	2A	3265	1/1	0.88	0.24	46,46,46,46	0
56	MG	1A	3621	1/1	0.88	0.09	30,30,30,30	0
56	MG	2A	3269	1/1	0.88	0.11	44,44,44,44	0
56	MG	1A	4044	1/1	0.88	0.09	29,29,29,29	0
56	MG	2A	3500	1/1	0.88	0.13	53,53,53,53	0
56	MG	2a	1716	1/1	0.88	0.25	44,44,44,44	0
56	MG	2a	1719	1/1	0.88	0.19	49,49,49,49	0
56	MG	2A	3758	1/1	0.88	0.15	47,47,47,47	0
56	MG	1A	3763	1/1	0.88	0.10	25,25,25,25	0
56	MG	1A	3472	1/1	0.88	0.12	60,60,60,60	0
56	MG	1A	4065	1/1	0.88	0.12	14,14,14,14	0
56	MG	1A	3626	1/1	0.88	0.11	17,17,17,17	0
56	MG	2A	3288	1/1	0.88	0.23	51,51,51,51	0
56	MG	2A	3531	1/1	0.88	0.15	49,49,49,49	0
56	MG	1a	3033	1/1	0.88	0.19	52,52,52,52	0
56	MG	1a	3154	1/1	0.88	0.16	34,34,34,34	0
56	MG	1A	3238	1/1	0.88	0.07	27,27,27,27	0
56	MG	2A	3787	1/1	0.88	0.10	46,46,46,46	0
56	MG	1A	3659	1/1	0.88	0.10	12,12,12,12	0
56	MG	2A	3794	1/1	0.88	0.23	68,68,68,68	0
56	MG	2A	3035	1/1	0.88	0.15	59,59,59,59	0
56	MG	1A	3817	1/1	0.88	0.10	28,28,28,28	0
56	MG	2A	3311	1/1	0.88	0.10	34,34,34,34	0
56	MG	2A	3799	1/1	0.88	0.18	68,68,68,68	0
56	MG	2A	3069	1/1	0.88	0.12	41,41,41,41	0
56	MG	2A	3818	1/1	0.88	0.23	56,56,56,56	0
56	MG	2a	1788	1/1	0.88	0.10	70,70,70,70	0
56	MG	1a	3053	1/1	0.88	0.11	62,62,62,62	0
56	MG	2A	3586	1/1	0.88	0.13	43,43,43,43	0
56	MG	2a	1792	1/1	0.88	0.10	66,66,66,66	0
56	MG	1A	3569	1/1	0.88	0.10	26,26,26,26	0
56	MG	1A	3480	1/1	0.88	0.12	49,49,49,49	0
56	MG	1A	3684	1/1	0.88	0.13	16,16,16,16	0
56	MG	2A	3333	1/1	0.88	0.11	37,37,37,37	0
56	MG	2A	3108	1/1	0.88	0.08	50,50,50,50	0
56	MG	2A	3607	1/1	0.88	0.14	32,32,32,32	0
56	MG	2A	3338	1/1	0.88	0.06	64,64,64,64	0
56	MG	2A	3616	1/1	0.88	0.13	32,32,32,32	0
56	MG	2A	3618	1/1	0.88	0.14	39,39,39,39	0
56	MG	2A	3114	1/1	0.88	0.09	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3625	1/1	0.88	0.10	53,53,53,53	0
56	MG	1A	3697	1/1	0.88	0.10	36,36,36,36	0
56	MG	2B	221	1/1	0.88	0.15	56,56,56,56	0
56	MG	1a	3189	1/1	0.88	0.10	60,60,60,60	0
56	MG	2D	306	1/1	0.88	0.08	35,35,35,35	0
56	MG	1a	3195	1/1	0.88	0.14	47,47,47,47	0
56	MG	2F	301	1/1	0.88	0.11	34,34,34,34	0
56	MG	1a	3071	1/1	0.88	0.17	36,36,36,36	0
56	MG	2A	3723	1/1	0.89	0.11	60,60,60,60	0
56	MG	2A	3116	1/1	0.89	0.08	61,61,61,61	0
56	MG	2a	1619	1/1	0.89	0.08	44,44,44,44	0
56	MG	2A	3729	1/1	0.89	0.12	66,66,66,66	0
56	MG	1F	307	1/1	0.89	0.08	23,23,23,23	0
56	MG	1A	3200	1/1	0.89	0.10	37,37,37,37	0
56	MG	2A	3155	1/1	0.89	0.14	41,41,41,41	0
56	MG	1A	3644	1/1	0.89	0.10	46,46,46,46	0
56	MG	2a	1647	1/1	0.89	0.08	52,52,52,52	0
56	MG	1A	3996	1/1	0.89	0.09	37,37,37,37	0
56	MG	1A	3225	1/1	0.89	0.26	46,46,46,46	0
56	MG	2A	3528	1/1	0.89	0.10	66,66,66,66	0
56	MG	1A	3440	1/1	0.89	0.14	38,38,38,38	0
56	MG	2A	3535	1/1	0.89	0.10	55,55,55,55	0
56	MG	2A	3162	1/1	0.89	0.15	43,43,43,43	0
56	MG	1A	3559	1/1	0.89	0.23	42,42,42,42	0
56	MG	2A	3768	1/1	0.89	0.29	60,60,60,60	0
56	MG	2A	3164	1/1	0.89	0.16	54,54,54,54	0
56	MG	2a	1692	1/1	0.89	0.16	52,52,52,52	0
56	MG	2A	3340	1/1	0.89	0.12	38,38,38,38	0
56	MG	16	104	1/1	0.89	0.22	33,33,33,33	0
56	MG	1A	3773	1/1	0.89	0.12	30,30,30,30	0
56	MG	1A	3663	1/1	0.89	0.12	46,46,46,46	0
56	MG	1a	3014	1/1	0.89	0.10	48,48,48,48	0
56	MG	2A	3350	1/1	0.89	0.15	34,34,34,34	0
56	MG	1A	3053	1/1	0.89	0.20	45,45,45,45	0
56	MG	2a	1715	1/1	0.89	0.14	51,51,51,51	0
56	MG	1A	3793	1/1	0.89	0.15	50,50,50,50	0
56	MG	1A	3800	1/1	0.89	0.08	31,31,31,31	0
56	MG	1A	3918	1/1	0.89	0.09	27,27,27,27	0
56	MG	1a	3045	1/1	0.89	0.30	48,48,48,48	0
56	MG	2a	1722	1/1	0.89	0.16	53,53,53,53	0
56	MG	2A	3371	1/1	0.89	0.15	43,43,43,43	0
56	MG	2a	1730	1/1	0.89	0.16	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1732	1/1	0.89	0.12	52,52,52,52	0
56	MG	1A	3923	1/1	0.89	0.08	68,68,68,68	0
56	MG	1A	3682	1/1	0.89	0.09	37,37,37,37	0
56	MG	1B	211	1/1	0.89	0.23	54,54,54,54	0
56	MG	1A	3937	1/1	0.89	0.09	58,58,58,58	0
56	MG	2A	3247	1/1	0.89	0.08	32,32,32,32	0
56	MG	2A	3385	1/1	0.89	0.10	52,52,52,52	0
56	MG	2A	3627	1/1	0.89	0.14	40,40,40,40	0
56	MG	2A	3387	1/1	0.89	0.17	72,72,72,72	0
56	MG	2A	3021	1/1	0.89	0.50	52,52,52,52	0
56	MG	2A	3022	1/1	0.89	0.08	49,49,49,49	0
56	MG	2A	3393	1/1	0.89	0.09	42,42,42,42	0
56	MG	2a	1770	1/1	0.89	0.09	51,51,51,51	0
56	MG	2A	3395	1/1	0.89	0.15	43,43,43,43	0
56	MG	1A	3355	1/1	0.89	0.08	42,42,42,42	0
56	MG	1A	3048	1/1	0.89	0.08	27,27,27,27	0
56	MG	2B	201	1/1	0.89	0.19	57,57,57,57	0
56	MG	2A	3400	1/1	0.89	0.07	62,62,62,62	0
56	MG	2a	1787	1/1	0.89	0.16	59,59,59,59	0
56	MG	2A	3044	1/1	0.89	0.09	44,44,44,44	0
56	MG	2A	3058	1/1	0.89	0.23	67,67,67,67	0
56	MG	2A	3662	1/1	0.89	0.21	55,55,55,55	0
56	MG	2B	220	1/1	0.89	0.21	57,57,57,57	0
56	MG	2a	1793	1/1	0.89	0.12	55,55,55,55	0
56	MG	2a	1796	1/1	0.89	0.10	48,48,48,48	0
56	MG	1A	3956	1/1	0.89	0.08	50,50,50,50	0
56	MG	1a	3180	1/1	0.89	0.15	52,52,52,52	0
56	MG	2a	1803	1/1	0.89	0.09	55,55,55,55	0
56	MG	2A	3447	1/1	0.89	0.14	39,39,39,39	0
56	MG	1A	3052	1/1	0.89	0.15	48,48,48,48	0
56	MG	1A	3287	1/1	0.89	0.17	28,28,28,28	0
56	MG	2A	3456	1/1	0.89	0.27	37,37,37,37	0
56	MG	1A	3178	1/1	0.89	0.09	45,45,45,45	0
56	MG	2A	3098	1/1	0.89	0.08	43,43,43,43	0
56	MG	2a	1820	1/1	0.89	0.15	52,52,52,52	0
56	MG	1A	3314	1/1	0.89	0.14	39,39,39,39	0
56	MG	20	102	1/1	0.89	0.21	68,68,68,68	0
56	MG	1a	3081	1/1	0.89	0.19	43,43,43,43	0
56	MG	1A	3085	1/1	0.89	0.08	16,16,16,16	0
56	MG	23	101	1/1	0.89	0.10	43,43,43,43	0
56	MG	2A	3708	1/1	0.89	0.12	55,55,55,55	0
56	MG	2A	3488	1/1	0.89	0.09	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3495	1/1	0.89	0.10	55,55,55,55	0
56	MG	2A	3307	1/1	0.89	0.13	52,52,52,52	0
56	MG	2v	101	1/1	0.89	0.12	51,51,51,51	0
56	MG	2v	102	1/1	0.89	0.11	71,71,71,71	0
56	MG	1a	3095	1/1	0.89	0.18	40,40,40,40	0
56	MG	1E	305	1/1	0.90	0.09	26,26,26,26	0
56	MG	2A	3320	1/1	0.90	0.10	47,47,47,47	0
56	MG	2A	3042	1/1	0.90	0.15	40,40,40,40	0
56	MG	2E	303	1/1	0.90	0.07	15,15,15,15	0
56	MG	1a	3128	1/1	0.90	0.20	34,34,34,34	0
56	MG	2E	308	1/1	0.90	0.07	38,38,38,38	0
56	MG	1A	3740	1/1	0.90	0.14	45,45,45,45	0
56	MG	1a	3133	1/1	0.90	0.30	53,53,53,53	0
56	MG	2F	306	1/1	0.90	0.21	40,40,40,40	0
56	MG	1F	301	1/1	0.90	0.14	25,25,25,25	0
56	MG	2P	202	1/1	0.90	0.13	55,55,55,55	0
56	MG	2Q	205	1/1	0.90	0.14	50,50,50,50	0
56	MG	1F	304	1/1	0.90	0.07	31,31,31,31	0
56	MG	2A	3617	1/1	0.90	0.08	36,36,36,36	0
56	MG	1A	3235	1/1	0.90	0.10	47,47,47,47	0
56	MG	2A	3090	1/1	0.90	0.28	59,59,59,59	0
56	MG	1a	3142	1/1	0.90	0.19	49,49,49,49	0
56	MG	1A	3331	1/1	0.90	0.13	42,42,42,42	0
56	MG	2A	3629	1/1	0.90	0.07	36,36,36,36	0
56	MG	1A	3946	1/1	0.90	0.10	35,35,35,35	0
56	MG	2A	3349	1/1	0.90	0.12	43,43,43,43	0
56	MG	1Q	206	1/1	0.90	0.17	26,26,26,26	0
56	MG	1A	3605	1/1	0.90	0.12	35,35,35,35	0
56	MG	1A	3339	1/1	0.90	0.07	21,21,21,21	0
56	MG	1W	203	1/1	0.90	0.11	36,36,36,36	0
56	MG	2a	1616	1/1	0.90	0.12	55,55,55,55	0
56	MG	2A	3362	1/1	0.90	0.05	39,39,39,39	0
56	MG	2A	3364	1/1	0.90	0.10	23,23,23,23	0
56	MG	2a	1627	1/1	0.90	0.12	53,53,53,53	0
56	MG	2A	3653	1/1	0.90	0.09	57,57,57,57	0
56	MG	2A	3124	1/1	0.90	0.08	41,41,41,41	0
56	MG	2a	1634	1/1	0.90	0.18	50,50,50,50	0
56	MG	1A	3456	1/1	0.90	0.24	40,40,40,40	0
56	MG	1A	3143	1/1	0.90	0.11	30,30,30,30	0
56	MG	2A	3664	1/1	0.90	0.15	54,54,54,54	0
56	MG	1A	3095	1/1	0.90	0.09	26,26,26,26	0
56	MG	2a	1651	1/1	0.90	0.11	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1653	1/1	0.90	0.16	71,71,71,71	0
56	MG	19	103	1/1	0.90	0.09	42,42,42,42	0
56	MG	1A	3795	1/1	0.90	0.08	69,69,69,69	0
56	MG	1A	3635	1/1	0.90	0.07	26,26,26,26	0
56	MG	1a	3011	1/1	0.90	0.20	49,49,49,49	0
56	MG	2A	3688	1/1	0.90	0.08	58,58,58,58	0
56	MG	1a	3186	1/1	0.90	0.09	66,66,66,66	0
56	MG	2a	1678	1/1	0.90	0.07	57,57,57,57	0
56	MG	2A	3386	1/1	0.90	0.07	41,41,41,41	0
56	MG	1A	3640	1/1	0.90	0.12	31,31,31,31	0
56	MG	2a	1685	1/1	0.90	0.07	49,49,49,49	0
56	MG	2A	3695	1/1	0.90	0.07	39,39,39,39	0
56	MG	1A	3822	1/1	0.90	0.14	35,35,35,35	0
56	MG	2a	1698	1/1	0.90	0.12	43,43,43,43	0
56	MG	1a	3190	1/1	0.90	0.07	37,37,37,37	0
56	MG	1A	3347	1/1	0.90	0.11	9,9,9,9	0
56	MG	1A	3220	1/1	0.90	0.10	53,53,53,53	0
56	MG	2a	1707	1/1	0.90	0.19	52,52,52,52	0
56	MG	2a	1708	1/1	0.90	0.20	54,54,54,54	0
56	MG	1A	4014	1/1	0.90	0.13	21,21,21,21	0
56	MG	1A	4024	1/1	0.90	0.10	28,28,28,28	0
56	MG	2A	3191	1/1	0.90	0.09	31,31,31,31	0
56	MG	2A	3403	1/1	0.90	0.09	51,51,51,51	0
56	MG	2A	3720	1/1	0.90	0.18	46,46,46,46	0
56	MG	1a	3220	1/1	0.90	0.12	46,46,46,46	0
56	MG	2A	3405	1/1	0.90	0.07	50,50,50,50	0
56	MG	2A	3201	1/1	0.90	0.08	40,40,40,40	0
56	MG	2A	3414	1/1	0.90	0.17	38,38,38,38	0
56	MG	2A	3417	1/1	0.90	0.19	36,36,36,36	0
56	MG	2a	1729	1/1	0.90	0.12	46,46,46,46	0
56	MG	1A	3364	1/1	0.90	0.09	31,31,31,31	0
56	MG	1A	3827	1/1	0.90	0.18	38,38,38,38	0
56	MG	2A	3434	1/1	0.90	0.16	30,30,30,30	0
56	MG	2a	1734	1/1	0.90	0.17	63,63,63,63	0
56	MG	2A	3439	1/1	0.90	0.12	43,43,43,43	0
56	MG	2A	3445	1/1	0.90	0.16	57,57,57,57	0
56	MG	2A	3446	1/1	0.90	0.14	39,39,39,39	0
56	MG	1b	301	1/1	0.90	0.10	52,52,52,52	0
56	MG	1A	3488	1/1	0.90	0.14	44,44,44,44	0
56	MG	1A	3292	1/1	0.90	0.08	35,35,35,35	0
56	MG	1a	3057	1/1	0.90	0.11	38,38,38,38	0
56	MG	2A	3468	1/1	0.90	0.29	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3771	1/1	0.90	0.12	50,50,50,50	0
56	MG	1p	101	1/1	0.90	0.19	51,51,51,51	0
56	MG	2A	3246	1/1	0.90	0.18	54,54,54,54	0
56	MG	1r	101	1/1	0.90	0.13	48,48,48,48	0
56	MG	1A	3384	1/1	0.90	0.17	37,37,37,37	0
56	MG	1A	4063	1/1	0.90	0.18	52,52,52,52	0
56	MG	2A	3261	1/1	0.90	0.09	26,26,26,26	0
56	MG	2A	3491	1/1	0.90	0.09	33,33,33,33	0
56	MG	1A	3498	1/1	0.90	0.11	57,57,57,57	0
56	MG	1A	3298	1/1	0.90	0.10	32,32,32,32	0
56	MG	2A	3791	1/1	0.90	0.12	46,46,46,46	0
56	MG	1A	3690	1/1	0.90	0.07	21,21,21,21	0
56	MG	2A	3271	1/1	0.90	0.11	36,36,36,36	0
56	MG	1A	3873	1/1	0.90	0.14	17,17,17,17	0
56	MG	1A	3301	1/1	0.90	0.07	38,38,38,38	0
56	MG	2A	3504	1/1	0.90	0.15	59,59,59,59	0
56	MG	2A	3279	1/1	0.90	0.06	32,32,32,32	0
56	MG	1A	3307	1/1	0.90	0.19	41,41,41,41	0
56	MG	2a	1805	1/1	0.90	0.10	54,54,54,54	0
56	MG	1A	3710	1/1	0.90	0.09	17,17,17,17	0
56	MG	1a	3085	1/1	0.90	0.12	41,41,41,41	0
56	MG	1a	3086	1/1	0.90	0.14	46,46,46,46	0
56	MG	2A	3826	1/1	0.90	0.10	70,70,70,70	0
56	MG	2A	3291	1/1	0.90	0.07	32,32,32,32	0
56	MG	2a	1816	1/1	0.90	0.21	38,38,38,38	0
56	MG	2A	3292	1/1	0.90	0.08	31,31,31,31	0
56	MG	1A	3154	1/1	0.90	0.12	25,25,25,25	0
56	MG	1A	3567	1/1	0.90	0.19	37,37,37,37	0
56	MG	2A	3556	1/1	0.90	0.09	44,44,44,44	0
56	MG	1y	105	1/1	0.90	0.07	53,53,53,53	0
56	MG	1A	3721	1/1	0.90	0.15	24,24,24,24	0
56	MG	1A	3227	1/1	0.90	0.23	56,56,56,56	0
56	MG	1A	3570	1/1	0.90	0.21	30,30,30,30	0
56	MG	2j	202	1/1	0.90	0.07	59,59,59,59	0
56	MG	2B	209	1/1	0.90	0.14	41,41,41,41	0
56	MG	1A	3028	1/1	0.90	0.11	32,32,32,32	0
56	MG	1A	3430	1/1	0.90	0.27	48,48,48,48	0
56	MG	2B	215	1/1	0.90	0.18	40,40,40,40	0
56	MG	1a	3111	1/1	0.90	0.14	37,37,37,37	0
56	MG	2A	3032	1/1	0.90	0.17	54,54,54,54	0
56	MG	1A	3851	1/1	0.91	0.22	36,36,36,36	0
56	MG	2A	3011	1/1	0.91	0.10	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3054	1/1	0.91	0.12	23,23,23,23	0
56	MG	1A	3857	1/1	0.91	0.11	45,45,45,45	0
56	MG	2A	3324	1/1	0.91	0.09	45,45,45,45	0
56	MG	1A	3293	1/1	0.91	0.17	28,28,28,28	0
56	MG	1A	3579	1/1	0.91	0.21	32,32,32,32	0
56	MG	2A	3332	1/1	0.91	0.13	59,59,59,59	0
56	MG	2P	201	1/1	0.91	0.14	40,40,40,40	0
56	MG	2A	3027	1/1	0.91	0.07	32,32,32,32	0
56	MG	2Q	204	1/1	0.91	0.12	38,38,38,38	0
56	MG	1a	3092	1/1	0.91	0.24	40,40,40,40	0
56	MG	1B	213	1/1	0.91	0.07	57,57,57,57	0
56	MG	2A	3622	1/1	0.91	0.11	37,37,37,37	0
56	MG	2U	203	1/1	0.91	0.24	36,36,36,36	0
56	MG	2V	201	1/1	0.91	0.16	44,44,44,44	0
56	MG	1A	3714	1/1	0.91	0.10	25,25,25,25	0
56	MG	1A	3446	1/1	0.91	0.11	43,43,43,43	0
56	MG	2A	3052	1/1	0.91	0.18	58,58,58,58	0
56	MG	1A	3100	1/1	0.91	0.08	22,22,22,22	0
56	MG	1A	3884	1/1	0.91	0.09	15,15,15,15	0
56	MG	27	102	1/1	0.91	0.35	51,51,51,51	0
56	MG	2a	1602	1/1	0.91	0.10	49,49,49,49	0
56	MG	1A	3300	1/1	0.91	0.08	28,28,28,28	0
56	MG	2A	3072	1/1	0.91	0.27	52,52,52,52	0
56	MG	2A	3640	1/1	0.91	0.20	72,72,72,72	0
56	MG	2A	3076	1/1	0.91	0.09	42,42,42,42	0
56	MG	2A	3351	1/1	0.91	0.06	30,30,30,30	0
56	MG	1a	3109	1/1	0.91	0.14	40,40,40,40	0
56	MG	1A	3163	1/1	0.91	0.09	24,24,24,24	0
56	MG	1A	3608	1/1	0.91	0.24	36,36,36,36	0
56	MG	1B	230	1/1	0.91	0.10	38,38,38,38	0
56	MG	1A	3729	1/1	0.91	0.17	39,39,39,39	0
56	MG	2A	3658	1/1	0.91	0.18	61,61,61,61	0
56	MG	2A	3660	1/1	0.91	0.11	56,56,56,56	0
56	MG	2a	1632	1/1	0.91	0.12	62,62,62,62	0
56	MG	1B	232	1/1	0.91	0.09	35,35,35,35	0
56	MG	1A	3368	1/1	0.91	0.07	18,18,18,18	0
56	MG	2A	3369	1/1	0.91	0.05	53,53,53,53	0
56	MG	2A	3668	1/1	0.91	0.10	38,38,38,38	0
56	MG	2A	3109	1/1	0.91	0.11	36,36,36,36	0
56	MG	2a	1650	1/1	0.91	0.10	63,63,63,63	0
56	MG	1a	3134	1/1	0.91	0.07	45,45,45,45	0
56	MG	1E	306	1/1	0.91	0.09	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3908	1/1	0.91	0.07	23,23,23,23	0
56	MG	2A	3685	1/1	0.91	0.08	27,27,27,27	0
56	MG	1E	310	1/1	0.91	0.09	41,41,41,41	0
56	MG	1A	3374	1/1	0.91	0.07	40,40,40,40	0
56	MG	1F	302	1/1	0.91	0.17	22,22,22,22	0
56	MG	2A	3147	1/1	0.91	0.12	41,41,41,41	0
56	MG	1A	3752	1/1	0.91	0.07	26,26,26,26	0
56	MG	1F	305	1/1	0.91	0.07	35,35,35,35	0
56	MG	1A	3761	1/1	0.91	0.13	39,39,39,39	0
56	MG	2a	1684	1/1	0.91	0.20	45,45,45,45	0
56	MG	2A	3159	1/1	0.91	0.06	42,42,42,42	0
56	MG	2a	1687	1/1	0.91	0.11	51,51,51,51	0
56	MG	2A	3703	1/1	0.91	0.09	34,34,34,34	0
56	MG	1A	3175	1/1	0.91	0.20	19,19,19,19	0
56	MG	1A	3117	1/1	0.91	0.28	38,38,38,38	0
56	MG	1P	202	1/1	0.91	0.29	21,21,21,21	0
56	MG	2A	3398	1/1	0.91	0.13	40,40,40,40	0
56	MG	1P	206	1/1	0.91	0.09	17,17,17,17	0
56	MG	2A	3713	1/1	0.91	0.07	34,34,34,34	0
56	MG	2A	3716	1/1	0.91	0.15	56,56,56,56	0
56	MG	1A	3770	1/1	0.91	0.11	46,46,46,46	0
56	MG	1A	3941	1/1	0.91	0.08	32,32,32,32	0
56	MG	2A	3170	1/1	0.91	0.11	64,64,64,64	0
56	MG	1A	3056	1/1	0.91	0.08	40,40,40,40	0
56	MG	1V	206	1/1	0.91	0.07	31,31,31,31	0
56	MG	2A	3416	1/1	0.91	0.14	45,45,45,45	0
56	MG	1a	3178	1/1	0.91	0.08	45,45,45,45	0
56	MG	1A	3948	1/1	0.91	0.09	17,17,17,17	0
56	MG	1a	3182	1/1	0.91	0.18	51,51,51,51	0
56	MG	2a	1723	1/1	0.91	0.26	38,38,38,38	0
56	MG	1A	3258	1/1	0.91	0.11	39,39,39,39	0
56	MG	1A	3406	1/1	0.91	0.15	35,35,35,35	0
56	MG	2A	3746	1/1	0.91	0.11	34,34,34,34	0
56	MG	13	105	1/1	0.91	0.15	48,48,48,48	0
56	MG	14	101	1/1	0.91	0.10	30,30,30,30	0
56	MG	2A	3752	1/1	0.91	0.13	47,47,47,47	0
56	MG	2a	1735	1/1	0.91	0.28	46,46,46,46	0
56	MG	15	104	1/1	0.91	0.18	25,25,25,25	0
56	MG	2A	3218	1/1	0.91	0.18	52,52,52,52	0
56	MG	2a	1743	1/1	0.91	0.07	56,56,56,56	0
56	MG	2A	3761	1/1	0.91	0.10	42,42,42,42	0
56	MG	16	102	1/1	0.91	0.06	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1750	1/1	0.91	0.17	51,51,51,51	0
56	MG	2A	3225	1/1	0.91	0.12	39,39,39,39	0
56	MG	2A	3462	1/1	0.91	0.08	41,41,41,41	0
56	MG	2A	3467	1/1	0.91	0.08	50,50,50,50	0
56	MG	1A	3653	1/1	0.91	0.07	19,19,19,19	0
56	MG	1A	3783	1/1	0.91	0.10	17,17,17,17	0
56	MG	2a	1761	1/1	0.91	0.10	68,68,68,68	0
56	MG	2A	3471	1/1	0.91	0.08	34,34,34,34	0
56	MG	1A	3791	1/1	0.91	0.16	25,25,25,25	0
56	MG	2A	3779	1/1	0.91	0.10	47,47,47,47	0
56	MG	1A	3656	1/1	0.91	0.11	36,36,36,36	0
56	MG	1A	3407	1/1	0.91	0.11	42,42,42,42	0
56	MG	2a	1781	1/1	0.91	0.13	41,41,41,41	0
56	MG	2A	3479	1/1	0.91	0.10	49,49,49,49	0
56	MG	1A	3046	1/1	0.91	0.08	44,44,44,44	0
56	MG	1A	3530	1/1	0.91	0.15	33,33,33,33	0
56	MG	2A	3259	1/1	0.91	0.17	44,44,44,44	0
56	MG	1A	3820	1/1	0.91	0.10	31,31,31,31	0
56	MG	1l	202	1/1	0.91	0.07	25,25,25,25	0
56	MG	1A	3662	1/1	0.91	0.09	44,44,44,44	0
56	MG	1A	4012	1/1	0.91	0.18	42,42,42,42	0
56	MG	2a	1795	1/1	0.91	0.17	53,53,53,53	0
56	MG	2A	3270	1/1	0.91	0.24	50,50,50,50	0
56	MG	1A	3326	1/1	0.91	0.10	29,29,29,29	0
56	MG	2A	3808	1/1	0.91	0.08	55,55,55,55	0
56	MG	1A	4021	1/1	0.91	0.09	32,32,32,32	0
56	MG	1A	3273	1/1	0.91	0.07	28,28,28,28	0
56	MG	2A	3510	1/1	0.91	0.10	49,49,49,49	0
56	MG	1A	3677	1/1	0.91	0.10	18,18,18,18	0
56	MG	2A	3517	1/1	0.91	0.11	37,37,37,37	0
56	MG	2A	3836	1/1	0.91	0.10	33,33,33,33	0
56	MG	1A	3334	1/1	0.91	0.08	35,35,35,35	0
56	MG	1a	3056	1/1	0.91	0.10	45,45,45,45	0
56	MG	1x	101	1/1	0.91	0.14	22,22,22,22	0
56	MG	2a	1819	1/1	0.91	0.07	67,67,67,67	0
56	MG	1A	3830	1/1	0.91	0.09	28,28,28,28	0
56	MG	2a	1821	1/1	0.91	0.14	54,54,54,54	0
56	MG	2A	3289	1/1	0.91	0.14	60,60,60,60	0
56	MG	2a	1823	1/1	0.91	0.10	51,51,51,51	0
56	MG	2A	3536	1/1	0.91	0.09	42,42,42,42	0
56	MG	1A	3566	1/1	0.91	0.27	38,38,38,38	0
56	MG	1x	105	1/1	0.91	0.11	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1833	1/1	0.91	0.15	58,58,58,58	0
56	MG	1A	3203	1/1	0.91	0.09	17,17,17,17	0
56	MG	1A	4058	1/1	0.91	0.14	42,42,42,42	0
56	MG	1a	3066	1/1	0.91	0.08	44,44,44,44	0
56	MG	2A	3560	1/1	0.91	0.11	61,61,61,61	0
56	MG	1a	3068	1/1	0.91	0.13	57,57,57,57	0
56	MG	1A	4061	1/1	0.91	0.08	58,58,58,58	0
56	MG	1A	3435	1/1	0.91	0.08	50,50,50,50	0
56	MG	1A	3847	1/1	0.91	0.09	38,38,38,38	0
56	MG	1a	3077	1/1	0.91	0.13	50,50,50,50	0
56	MG	1A	3524	1/1	0.92	0.08	40,40,40,40	0
56	MG	2A	3858	1/1	0.92	0.14	43,43,43,43	0
56	MG	1A	3129	1/1	0.92	0.12	29,29,29,29	0
56	MG	1a	3008	1/1	0.92	0.13	17,17,17,17	0
56	MG	2A	3205	1/1	0.92	0.12	33,33,33,33	0
56	MG	2A	3870	1/1	0.92	0.19	48,48,48,48	0
56	MG	2A	3206	1/1	0.92	0.06	48,48,48,48	0
56	MG	1A	3837	1/1	0.92	0.09	27,27,27,27	0
56	MG	2A	3208	1/1	0.92	0.10	48,48,48,48	0
56	MG	2B	202	1/1	0.92	0.13	50,50,50,50	0
56	MG	1A	3844	1/1	0.92	0.06	29,29,29,29	0
56	MG	1a	3203	1/1	0.92	0.09	32,32,32,32	0
56	MG	1a	3209	1/1	0.92	0.11	68,68,68,68	0
56	MG	2B	212	1/1	0.92	0.10	68,68,68,68	0
56	MG	2A	3222	1/1	0.92	0.11	29,29,29,29	0
56	MG	1A	3411	1/1	0.92	0.07	36,36,36,36	0
56	MG	1a	3029	1/1	0.92	0.10	33,33,33,33	0
56	MG	2A	3511	1/1	0.92	0.06	39,39,39,39	0
56	MG	2A	3230	1/1	0.92	0.18	36,36,36,36	0
56	MG	2A	3240	1/1	0.92	0.06	40,40,40,40	0
56	MG	1A	4045	1/1	0.92	0.10	35,35,35,35	0
56	MG	1A	3416	1/1	0.92	0.12	39,39,39,39	0
56	MG	2A	3527	1/1	0.92	0.12	44,44,44,44	0
56	MG	1A	3553	1/1	0.92	0.18	36,36,36,36	0
56	MG	1A	3083	1/1	0.92	0.10	42,42,42,42	0
56	MG	1a	3044	1/1	0.92	0.14	53,53,53,53	0
56	MG	1A	3422	1/1	0.92	0.07	36,36,36,36	0
56	MG	1A	3272	1/1	0.92	0.10	24,24,24,24	0
56	MG	1A	3424	1/1	0.92	0.12	50,50,50,50	0
56	MG	2A	3262	1/1	0.92	0.09	42,42,42,42	0
56	MG	2Q	202	1/1	0.92	0.08	39,39,39,39	0
56	MG	1a	3052	1/1	0.92	0.16	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1s	101	1/1	0.92	0.19	46,46,46,46	0
56	MG	1A	3425	1/1	0.92	0.17	43,43,43,43	0
56	MG	1A	3875	1/1	0.92	0.15	33,33,33,33	0
56	MG	1A	3186	1/1	0.92	0.24	31,31,31,31	0
56	MG	2A	3272	1/1	0.92	0.07	35,35,35,35	0
56	MG	2X	101	1/1	0.92	0.28	57,57,57,57	0
56	MG	2A	3273	1/1	0.92	0.11	40,40,40,40	0
56	MG	2A	3577	1/1	0.92	0.11	41,41,41,41	0
56	MG	1A	3279	1/1	0.92	0.17	40,40,40,40	0
56	MG	2A	3276	1/1	0.92	0.06	43,43,43,43	0
56	MG	25	101	1/1	0.92	0.14	33,33,33,33	0
56	MG	2A	3591	1/1	0.92	0.06	62,62,62,62	0
56	MG	1A	3005	1/1	0.92	0.08	30,30,30,30	0
56	MG	28	101	1/1	0.92	0.09	58,58,58,58	0
56	MG	2A	3595	1/1	0.92	0.07	34,34,34,34	0
56	MG	2A	3278	1/1	0.92	0.05	26,26,26,26	0
56	MG	1A	3596	1/1	0.92	0.18	43,43,43,43	0
56	MG	1a	3061	1/1	0.92	0.23	38,38,38,38	0
56	MG	1A	3031	1/1	0.92	0.23	20,20,20,20	0
56	MG	1a	3064	1/1	0.92	0.13	33,33,33,33	0
56	MG	1A	3437	1/1	0.92	0.07	39,39,39,39	0
56	MG	1A	3074	1/1	0.92	0.06	36,36,36,36	0
56	MG	2a	1618	1/1	0.92	0.06	36,36,36,36	0
56	MG	1x	108	1/1	0.92	0.12	38,38,38,38	0
56	MG	1x	109	1/1	0.92	0.20	47,47,47,47	0
56	MG	2a	1625	1/1	0.92	0.07	25,25,25,25	0
56	MG	2a	1626	1/1	0.92	0.11	56,56,56,56	0
56	MG	1A	3903	1/1	0.92	0.09	18,18,18,18	0
56	MG	1A	3907	1/1	0.92	0.09	10,10,10,10	0
56	MG	1a	3074	1/1	0.92	0.15	55,55,55,55	0
56	MG	1A	3294	1/1	0.92	0.11	37,37,37,37	0
56	MG	1A	3156	1/1	0.92	0.11	30,30,30,30	0
56	MG	2a	1635	1/1	0.92	0.08	44,44,44,44	0
56	MG	1A	3610	1/1	0.92	0.11	27,27,27,27	0
56	MG	2A	3006	1/1	0.92	0.11	42,42,42,42	0
56	MG	2a	1641	1/1	0.92	0.22	47,47,47,47	0
56	MG	2a	1643	1/1	0.92	0.11	29,29,29,29	0
56	MG	1A	3365	1/1	0.92	0.10	28,28,28,28	0
56	MG	2a	1648	1/1	0.92	0.15	46,46,46,46	0
56	MG	2A	3637	1/1	0.92	0.07	50,50,50,50	0
56	MG	1A	3930	1/1	0.92	0.16	43,43,43,43	0
56	MG	2A	3642	1/1	0.92	0.09	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1652	1/1	0.92	0.06	60,60,60,60	0
56	MG	1B	235	1/1	0.92	0.15	40,40,40,40	0
56	MG	2a	1655	1/1	0.92	0.14	58,58,58,58	0
56	MG	2a	1656	1/1	0.92	0.17	43,43,43,43	0
56	MG	2a	1659	1/1	0.92	0.14	49,49,49,49	0
56	MG	1A	3158	1/1	0.92	0.14	37,37,37,37	0
56	MG	2a	1665	1/1	0.92	0.08	48,48,48,48	0
56	MG	1A	3469	1/1	0.92	0.08	27,27,27,27	0
56	MG	1A	3631	1/1	0.92	0.11	24,24,24,24	0
56	MG	1A	3470	1/1	0.92	0.10	36,36,36,36	0
56	MG	1E	311	1/1	0.92	0.12	30,30,30,30	0
56	MG	1A	3944	1/1	0.92	0.11	55,55,55,55	0
56	MG	2A	3041	1/1	0.92	0.17	34,34,34,34	0
56	MG	1A	3369	1/1	0.92	0.07	37,37,37,37	0
56	MG	1A	3372	1/1	0.92	0.11	37,37,37,37	0
56	MG	2A	3046	1/1	0.92	0.09	59,59,59,59	0
56	MG	2A	3047	1/1	0.92	0.14	49,49,49,49	0
56	MG	2A	3667	1/1	0.92	0.13	53,53,53,53	0
56	MG	2A	3048	1/1	0.92	0.06	48,48,48,48	0
56	MG	2A	3050	1/1	0.92	0.18	53,53,53,53	0
56	MG	1A	3040	1/1	0.92	0.09	20,20,20,20	0
56	MG	2A	3674	1/1	0.92	0.06	53,53,53,53	0
56	MG	2A	3053	1/1	0.92	0.11	53,53,53,53	0
56	MG	2A	3346	1/1	0.92	0.05	33,33,33,33	0
56	MG	2A	3680	1/1	0.92	0.11	50,50,50,50	0
56	MG	2A	3684	1/1	0.92	0.06	64,64,64,64	0
56	MG	1A	3376	1/1	0.92	0.12	35,35,35,35	0
56	MG	1A	3806	1/1	0.92	0.09	16,16,16,16	0
56	MG	2A	3068	1/1	0.92	0.16	31,31,31,31	0
56	MG	1A	3815	1/1	0.92	0.11	26,26,26,26	0
56	MG	2A	3071	1/1	0.92	0.07	30,30,30,30	0
56	MG	2A	3357	1/1	0.92	0.12	43,43,43,43	0
56	MG	1a	3120	1/1	0.92	0.17	42,42,42,42	0
56	MG	2A	3361	1/1	0.92	0.07	33,33,33,33	0
56	MG	1a	3123	1/1	0.92	0.33	53,53,53,53	0
56	MG	2A	3701	1/1	0.92	0.08	40,40,40,40	0
56	MG	2A	3363	1/1	0.92	0.07	48,48,48,48	0
56	MG	1A	3969	1/1	0.92	0.10	13,13,13,13	0
56	MG	1a	3129	1/1	0.92	0.18	51,51,51,51	0
56	MG	2A	3087	1/1	0.92	0.09	60,60,60,60	0
56	MG	1a	3130	1/1	0.92	0.16	52,52,52,52	0
56	MG	2A	3091	1/1	0.92	0.22	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3174	1/1	0.92	0.06	30,30,30,30	0
56	MG	2A	3096	1/1	0.92	0.13	38,38,38,38	0
56	MG	2a	1739	1/1	0.92	0.10	48,48,48,48	0
56	MG	1P	208	1/1	0.92	0.12	45,45,45,45	0
56	MG	2A	3099	1/1	0.92	0.10	51,51,51,51	0
56	MG	2A	3379	1/1	0.92	0.26	49,49,49,49	0
56	MG	2A	3726	1/1	0.92	0.13	50,50,50,50	0
56	MG	1Q	205	1/1	0.92	0.11	44,44,44,44	0
56	MG	1A	3122	1/1	0.92	0.16	14,14,14,14	0
56	MG	1R	202	1/1	0.92	0.06	23,23,23,23	0
56	MG	1A	3251	1/1	0.92	0.06	32,32,32,32	0
56	MG	2A	3389	1/1	0.92	0.07	38,38,38,38	0
56	MG	1A	3494	1/1	0.92	0.11	35,35,35,35	0
56	MG	1A	3255	1/1	0.92	0.06	20,20,20,20	0
56	MG	2A	3392	1/1	0.92	0.20	47,47,47,47	0
56	MG	2A	3120	1/1	0.92	0.12	48,48,48,48	0
56	MG	1V	208	1/1	0.92	0.06	42,42,42,42	0
56	MG	2A	3126	1/1	0.92	0.20	44,44,44,44	0
56	MG	2A	3128	1/1	0.92	0.30	44,44,44,44	0
56	MG	2a	1780	1/1	0.92	0.06	47,47,47,47	0
56	MG	2A	3129	1/1	0.92	0.15	43,43,43,43	0
56	MG	2A	3756	1/1	0.92	0.14	51,51,51,51	0
56	MG	2A	3138	1/1	0.92	0.13	30,30,30,30	0
56	MG	2a	1786	1/1	0.92	0.08	50,50,50,50	0
56	MG	2A	3139	1/1	0.92	0.09	44,44,44,44	0
56	MG	1W	201	1/1	0.92	0.16	24,24,24,24	0
56	MG	1A	3993	1/1	0.92	0.06	33,33,33,33	0
56	MG	2A	3409	1/1	0.92	0.16	41,41,41,41	0
56	MG	1W	205	1/1	0.92	0.07	15,15,15,15	0
56	MG	2A	3153	1/1	0.92	0.10	47,47,47,47	0
56	MG	1A	3995	1/1	0.92	0.15	32,32,32,32	0
56	MG	1Z	303	1/1	0.92	0.06	29,29,29,29	0
56	MG	1a	3159	1/1	0.92	0.24	46,46,46,46	0
56	MG	2A	3158	1/1	0.92	0.13	39,39,39,39	0
56	MG	2a	1801	1/1	0.92	0.11	40,40,40,40	0
56	MG	2A	3430	1/1	0.92	0.07	45,45,45,45	0
56	MG	1a	3160	1/1	0.92	0.19	51,51,51,51	0
56	MG	10	102	1/1	0.92	0.09	38,38,38,38	0
56	MG	1A	3673	1/1	0.92	0.12	49,49,49,49	0
56	MG	2A	3788	1/1	0.92	0.10	40,40,40,40	0
56	MG	2a	1811	1/1	0.92	0.08	50,50,50,50	0
56	MG	1A	3405	1/1	0.92	0.07	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	4010	1/1	0.92	0.09	51,51,51,51	0
56	MG	1a	3173	1/1	0.92	0.07	44,44,44,44	0
56	MG	2A	3453	1/1	0.92	0.13	33,33,33,33	0
56	MG	2A	3796	1/1	0.92	0.18	45,45,45,45	0
56	MG	1A	3500	1/1	0.92	0.22	27,27,27,27	0
56	MG	16	101	1/1	0.92	0.14	35,35,35,35	0
56	MG	1A	3318	1/1	0.92	0.10	45,45,45,45	0
56	MG	2A	3464	1/1	0.92	0.19	41,41,41,41	0
56	MG	2A	3803	1/1	0.92	0.12	54,54,54,54	0
56	MG	2a	1827	1/1	0.92	0.17	45,45,45,45	0
56	MG	2A	3465	1/1	0.92	0.06	31,31,31,31	0
56	MG	2A	3810	1/1	0.92	0.11	49,49,49,49	0
56	MG	2A	3815	1/1	0.92	0.07	36,36,36,36	0
56	MG	1A	4017	1/1	0.92	0.13	28,28,28,28	0
56	MG	1a	3183	1/1	0.92	0.17	49,49,49,49	0
56	MG	2A	3820	1/1	0.92	0.08	32,32,32,32	0
56	MG	17	101	1/1	0.92	0.06	21,21,21,21	0
56	MG	2A	3186	1/1	0.92	0.14	36,36,36,36	0
56	MG	2A	3188	1/1	0.92	0.07	36,36,36,36	0
56	MG	2r	101	1/1	0.92	0.20	58,58,58,58	0
56	MG	17	105	1/1	0.92	0.09	22,22,22,22	0
56	MG	2A	3846	1/1	0.92	0.20	46,46,46,46	0
56	MG	2x	101	1/1	0.92	0.07	55,55,55,55	0
56	MG	2A	3192	1/1	0.92	0.14	38,38,38,38	0
57	ERY	2A	3875	51/51	0.92	0.12	29,41,51,56	0
56	MG	2A	3038	1/1	0.93	0.09	29,29,29,29	0
56	MG	2A	3293	1/1	0.93	0.09	46,46,46,46	0
56	MG	1A	3236	1/1	0.93	0.06	28,28,28,28	0
56	MG	2A	3566	1/1	0.93	0.10	44,44,44,44	0
56	MG	2E	301	1/1	0.93	0.16	45,45,45,45	0
56	MG	2E	302	1/1	0.93	0.10	46,46,46,46	0
56	MG	2A	3295	1/1	0.93	0.24	54,54,54,54	0
56	MG	2A	3569	1/1	0.93	0.07	62,62,62,62	0
56	MG	1A	3237	1/1	0.93	0.08	29,29,29,29	0
56	MG	2A	3571	1/1	0.93	0.11	53,53,53,53	0
56	MG	2A	3576	1/1	0.93	0.05	40,40,40,40	0
56	MG	1A	3922	1/1	0.93	0.05	24,24,24,24	0
56	MG	2A	3578	1/1	0.93	0.12	44,44,44,44	0
56	MG	2A	3579	1/1	0.93	0.06	46,46,46,46	0
56	MG	2A	3583	1/1	0.93	0.06	39,39,39,39	0
56	MG	1A	3589	1/1	0.93	0.13	36,36,36,36	0
56	MG	2A	3304	1/1	0.93	0.11	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3590	1/1	0.93	0.09	39,39,39,39	0
56	MG	1A	3329	1/1	0.93	0.15	39,39,39,39	0
56	MG	1A	3108	1/1	0.93	0.06	24,24,24,24	0
56	MG	1a	3112	1/1	0.93	0.17	48,48,48,48	0
56	MG	2A	3313	1/1	0.93	0.06	52,52,52,52	0
56	MG	1A	3333	1/1	0.93	0.10	42,42,42,42	0
56	MG	2A	3316	1/1	0.93	0.15	48,48,48,48	0
56	MG	2A	3603	1/1	0.93	0.07	39,39,39,39	0
56	MG	2A	3057	1/1	0.93	0.10	29,29,29,29	0
56	MG	1a	3119	1/1	0.93	0.07	42,42,42,42	0
56	MG	2A	3611	1/1	0.93	0.07	27,27,27,27	0
56	MG	25	102	1/1	0.93	0.13	40,40,40,40	0
56	MG	2A	3319	1/1	0.93	0.09	32,32,32,32	0
56	MG	26	102	1/1	0.93	0.10	58,58,58,58	0
56	MG	1A	3242	1/1	0.93	0.13	13,13,13,13	0
56	MG	2A	3323	1/1	0.93	0.14	63,63,63,63	0
56	MG	1N	203	1/1	0.93	0.08	34,34,34,34	0
56	MG	1a	3124	1/1	0.93	0.13	33,33,33,33	0
56	MG	2a	1606	1/1	0.93	0.23	59,59,59,59	0
56	MG	2a	1607	1/1	0.93	0.05	31,31,31,31	0
56	MG	2A	3326	1/1	0.93	0.09	31,31,31,31	0
56	MG	1A	3057	1/1	0.93	0.07	29,29,29,29	0
56	MG	1A	3086	1/1	0.93	0.14	25,25,25,25	0
56	MG	2A	3630	1/1	0.93	0.11	37,37,37,37	0
56	MG	2A	3631	1/1	0.93	0.07	41,41,41,41	0
56	MG	2a	1613	1/1	0.93	0.20	50,50,50,50	0
56	MG	1A	3257	1/1	0.93	0.10	33,33,33,33	0
56	MG	2a	1617	1/1	0.93	0.08	31,31,31,31	0
56	MG	1A	3619	1/1	0.93	0.08	25,25,25,25	0
56	MG	2A	3337	1/1	0.93	0.06	48,48,48,48	0
56	MG	1a	3132	1/1	0.93	0.10	27,27,27,27	0
56	MG	2a	1624	1/1	0.93	0.10	31,31,31,31	0
56	MG	1A	3173	1/1	0.93	0.07	21,21,21,21	0
56	MG	1A	3957	1/1	0.93	0.08	57,57,57,57	0
56	MG	1A	3460	1/1	0.93	0.07	25,25,25,25	0
56	MG	1V	201	1/1	0.93	0.16	17,17,17,17	0
56	MG	2A	3645	1/1	0.93	0.08	38,38,38,38	0
56	MG	1A	3963	1/1	0.93	0.07	36,36,36,36	0
56	MG	2A	3344	1/1	0.93	0.09	49,49,49,49	0
56	MG	1A	3964	1/1	0.93	0.10	63,63,63,63	0
56	MG	2a	1636	1/1	0.93	0.23	54,54,54,54	0
56	MG	1A	3352	1/1	0.93	0.07	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3347	1/1	0.93	0.06	41,41,41,41	0
56	MG	2A	3101	1/1	0.93	0.17	39,39,39,39	0
56	MG	2a	1642	1/1	0.93	0.12	38,38,38,38	0
56	MG	1A	3260	1/1	0.93	0.21	27,27,27,27	0
56	MG	1A	3970	1/1	0.93	0.07	19,19,19,19	0
56	MG	1A	3361	1/1	0.93	0.18	43,43,43,43	0
56	MG	2A	3663	1/1	0.93	0.07	41,41,41,41	0
56	MG	2A	3355	1/1	0.93	0.06	42,42,42,42	0
56	MG	2A	3110	1/1	0.93	0.11	33,33,33,33	0
56	MG	1W	208	1/1	0.93	0.17	36,36,36,36	0
56	MG	1A	3807	1/1	0.93	0.08	40,40,40,40	0
56	MG	1A	3976	1/1	0.93	0.08	24,24,24,24	0
56	MG	10	101	1/1	0.93	0.27	32,32,32,32	0
56	MG	1A	3269	1/1	0.93	0.07	22,22,22,22	0
56	MG	2A	3677	1/1	0.93	0.13	36,36,36,36	0
56	MG	1A	3004	1/1	0.93	0.10	39,39,39,39	0
56	MG	2A	3127	1/1	0.93	0.31	42,42,42,42	0
56	MG	2A	3682	1/1	0.93	0.10	39,39,39,39	0
56	MG	2a	1670	1/1	0.93	0.10	40,40,40,40	0
56	MG	2a	1672	1/1	0.93	0.09	43,43,43,43	0
56	MG	1a	3165	1/1	0.93	0.14	63,63,63,63	0
56	MG	1A	3819	1/1	0.93	0.10	42,42,42,42	0
56	MG	1A	3992	1/1	0.93	0.06	20,20,20,20	0
56	MG	15	101	1/1	0.93	0.11	34,34,34,34	0
56	MG	1a	3171	1/1	0.93	0.23	39,39,39,39	0
56	MG	1A	3479	1/1	0.93	0.10	25,25,25,25	0
56	MG	2a	1682	1/1	0.93	0.07	66,66,66,66	0
56	MG	1A	3093	1/1	0.93	0.33	32,32,32,32	0
56	MG	1A	3124	1/1	0.93	0.11	35,35,35,35	0
56	MG	2A	3381	1/1	0.93	0.21	36,36,36,36	0
56	MG	1A	3276	1/1	0.93	0.07	38,38,38,38	0
56	MG	2A	3383	1/1	0.93	0.10	34,34,34,34	0
56	MG	2a	1696	1/1	0.93	0.15	33,33,33,33	0
56	MG	2A	3384	1/1	0.93	0.08	34,34,34,34	0
56	MG	2a	1699	1/1	0.93	0.09	54,54,54,54	0
56	MG	2a	1700	1/1	0.93	0.10	56,56,56,56	0
56	MG	1A	3045	1/1	0.93	0.15	41,41,41,41	0
56	MG	1A	3185	1/1	0.93	0.14	39,39,39,39	0
56	MG	2a	1704	1/1	0.93	0.10	52,52,52,52	0
56	MG	2a	1705	1/1	0.93	0.12	51,51,51,51	0
56	MG	1a	3185	1/1	0.93	0.07	64,64,64,64	0
56	MG	1A	3288	1/1	0.93	0.09	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3003	1/1	0.93	0.11	55,55,55,55	0
56	MG	1A	4016	1/1	0.93	0.07	24,24,24,24	0
56	MG	1A	3666	1/1	0.93	0.07	39,39,39,39	0
56	MG	1a	3191	1/1	0.93	0.07	42,42,42,42	0
56	MG	2a	1713	1/1	0.93	0.20	59,59,59,59	0
56	MG	2a	1714	1/1	0.93	0.06	51,51,51,51	0
56	MG	1A	4020	1/1	0.93	0.08	36,36,36,36	0
56	MG	1A	3667	1/1	0.93	0.10	44,44,44,44	0
56	MG	2a	1717	1/1	0.93	0.26	52,52,52,52	0
56	MG	1A	3133	1/1	0.93	0.16	19,19,19,19	0
56	MG	1a	3019	1/1	0.93	0.11	45,45,45,45	0
56	MG	2A	3176	1/1	0.93	0.17	43,43,43,43	0
56	MG	1a	3020	1/1	0.93	0.16	48,48,48,48	0
56	MG	1a	3024	1/1	0.93	0.07	50,50,50,50	0
56	MG	1a	3025	1/1	0.93	0.07	40,40,40,40	0
56	MG	2A	3184	1/1	0.93	0.05	32,32,32,32	0
56	MG	1A	4033	1/1	0.93	0.09	34,34,34,34	0
56	MG	2a	1731	1/1	0.93	0.07	42,42,42,42	0
56	MG	1A	3139	1/1	0.93	0.10	34,34,34,34	0
56	MG	2A	3189	1/1	0.93	0.24	46,46,46,46	0
56	MG	1A	3841	1/1	0.93	0.07	34,34,34,34	0
56	MG	2A	3419	1/1	0.93	0.15	38,38,38,38	0
56	MG	2a	1737	1/1	0.93	0.07	52,52,52,52	0
56	MG	2A	3422	1/1	0.93	0.23	43,43,43,43	0
56	MG	1A	3505	1/1	0.93	0.07	44,44,44,44	0
56	MG	1e	201	1/1	0.93	0.07	48,48,48,48	0
56	MG	2A	3198	1/1	0.93	0.15	48,48,48,48	0
56	MG	1A	3678	1/1	0.93	0.08	18,18,18,18	0
56	MG	2A	3762	1/1	0.93	0.08	57,57,57,57	0
56	MG	1A	4046	1/1	0.93	0.12	43,43,43,43	0
56	MG	1A	4049	1/1	0.93	0.17	35,35,35,35	0
56	MG	2a	1752	1/1	0.93	0.07	64,64,64,64	0
56	MG	2a	1754	1/1	0.93	0.14	52,52,52,52	0
56	MG	1a	3047	1/1	0.93	0.09	39,39,39,39	0
56	MG	1A	3849	1/1	0.93	0.11	27,27,27,27	0
56	MG	1A	3850	1/1	0.93	0.07	23,23,23,23	0
56	MG	1v	101	1/1	0.93	0.08	61,61,61,61	0
56	MG	1A	3099	1/1	0.93	0.06	22,22,22,22	0
56	MG	2a	1763	1/1	0.93	0.07	70,70,70,70	0
56	MG	1A	3855	1/1	0.93	0.09	10,10,10,10	0
56	MG	2a	1769	1/1	0.93	0.07	60,60,60,60	0
56	MG	2A	3778	1/1	0.93	0.07	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3054	1/1	0.93	0.17	46,46,46,46	0
56	MG	1A	3510	1/1	0.93	0.07	26,26,26,26	0
56	MG	2a	1776	1/1	0.93	0.10	53,53,53,53	0
56	MG	2a	1777	1/1	0.93	0.09	69,69,69,69	0
56	MG	1A	3688	1/1	0.93	0.07	19,19,19,19	0
56	MG	1A	3864	1/1	0.93	0.07	17,17,17,17	0
56	MG	2A	3232	1/1	0.93	0.06	46,46,46,46	0
56	MG	2A	3233	1/1	0.93	0.09	47,47,47,47	0
56	MG	1A	3296	1/1	0.93	0.05	16,16,16,16	0
56	MG	2A	3241	1/1	0.93	0.10	38,38,38,38	0
56	MG	2A	3475	1/1	0.93	0.13	37,37,37,37	0
56	MG	1A	3216	1/1	0.93	0.15	37,37,37,37	0
56	MG	1A	3871	1/1	0.93	0.20	16,16,16,16	0
56	MG	1B	202	1/1	0.93	0.20	48,48,48,48	0
56	MG	1A	3701	1/1	0.93	0.11	38,38,38,38	0
56	MG	1A	3533	1/1	0.93	0.18	36,36,36,36	0
56	MG	2A	3490	1/1	0.93	0.10	52,52,52,52	0
56	MG	2A	3250	1/1	0.93	0.13	46,46,46,46	0
56	MG	1A	3709	1/1	0.93	0.07	31,31,31,31	0
56	MG	2A	3258	1/1	0.93	0.07	41,41,41,41	0
56	MG	1x	110	1/1	0.93	0.08	43,43,43,43	0
56	MG	2A	3816	1/1	0.93	0.09	40,40,40,40	0
56	MG	1A	3003	1/1	0.93	0.08	15,15,15,15	0
56	MG	1x	112	1/1	0.93	0.08	58,58,58,58	0
56	MG	1A	3016	1/1	0.93	0.10	26,26,26,26	0
56	MG	1y	102	1/1	0.93	0.18	60,60,60,60	0
56	MG	1A	3226	1/1	0.93	0.25	37,37,37,37	0
56	MG	2a	1812	1/1	0.93	0.12	42,42,42,42	0
56	MG	2A	3825	1/1	0.93	0.08	31,31,31,31	0
56	MG	1A	3419	1/1	0.93	0.17	47,47,47,47	0
56	MG	1A	3719	1/1	0.93	0.14	50,50,50,50	0
56	MG	1a	3078	1/1	0.93	0.17	35,35,35,35	0
56	MG	2A	3003	1/1	0.93	0.15	41,41,41,41	0
56	MG	1A	3892	1/1	0.93	0.07	15,15,15,15	0
56	MG	1A	3896	1/1	0.93	0.15	23,23,23,23	0
56	MG	2A	3525	1/1	0.93	0.07	33,33,33,33	0
56	MG	1a	3082	1/1	0.93	0.17	51,51,51,51	0
56	MG	2A	3861	1/1	0.93	0.07	33,33,33,33	0
56	MG	1A	3148	1/1	0.93	0.23	29,29,29,29	0
56	MG	2A	3868	1/1	0.93	0.09	32,32,32,32	0
56	MG	2a	1830	1/1	0.93	0.15	38,38,38,38	0
56	MG	1A	3152	1/1	0.93	0.05	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3281	1/1	0.93	0.07	33,33,33,33	0
56	MG	1A	3902	1/1	0.93	0.05	36,36,36,36	0
56	MG	2A	3539	1/1	0.93	0.08	56,56,56,56	0
56	MG	2j	201	1/1	0.93	0.07	47,47,47,47	0
56	MG	2A	3540	1/1	0.93	0.07	28,28,28,28	0
56	MG	2A	3023	1/1	0.93	0.09	42,42,42,42	0
56	MG	1a	3090	1/1	0.93	0.19	29,29,29,29	0
56	MG	2A	3549	1/1	0.93	0.11	58,58,58,58	0
56	MG	2B	211	1/1	0.93	0.10	61,61,61,61	0
56	MG	2A	3555	1/1	0.93	0.08	33,33,33,33	0
56	MG	1A	3231	1/1	0.93	0.06	22,22,22,22	0
56	MG	1A	3084	1/1	0.93	0.08	31,31,31,31	0
56	MG	2x	103	1/1	0.93	0.08	46,46,46,46	0
56	MG	2y	101	1/1	0.93	0.06	46,46,46,46	0
56	MG	1A	3321	1/1	0.93	0.06	34,34,34,34	0
57	ERY	1A	4074	51/51	0.93	0.12	15,23,34,44	0
56	MG	2B	219	1/1	0.93	0.06	52,52,52,52	0
56	MG	1A	3132	1/1	0.94	0.05	35,35,35,35	0
56	MG	1B	207	1/1	0.94	0.07	29,29,29,29	0
56	MG	2B	218	1/1	0.94	0.12	61,61,61,61	0
56	MG	1B	208	1/1	0.94	0.06	44,44,44,44	0
56	MG	1A	3299	1/1	0.94	0.07	6,6,6,6	0
56	MG	1A	3443	1/1	0.94	0.10	37,37,37,37	0
56	MG	2A	3267	1/1	0.94	0.06	26,26,26,26	0
56	MG	1A	3243	1/1	0.94	0.12	16,16,16,16	0
56	MG	2A	3547	1/1	0.94	0.08	18,18,18,18	0
56	MG	1A	3450	1/1	0.94	0.05	20,20,20,20	0
56	MG	2A	3551	1/1	0.94	0.07	35,35,35,35	0
56	MG	2A	3553	1/1	0.94	0.06	27,27,27,27	0
56	MG	2E	307	1/1	0.94	0.09	25,25,25,25	0
56	MG	1a	3067	1/1	0.94	0.05	43,43,43,43	0
56	MG	1A	3155	1/1	0.94	0.11	29,29,29,29	0
56	MG	1a	3070	1/1	0.94	0.09	47,47,47,47	0
56	MG	2F	303	1/1	0.94	0.06	30,30,30,30	0
56	MG	2F	305	1/1	0.94	0.10	46,46,46,46	0
56	MG	1A	3305	1/1	0.94	0.09	19,19,19,19	0
56	MG	1A	3459	1/1	0.94	0.04	30,30,30,30	0
56	MG	1A	3193	1/1	0.94	0.09	24,24,24,24	0
56	MG	1B	227	1/1	0.94	0.09	37,37,37,37	0
56	MG	2Q	201	1/1	0.94	0.06	33,33,33,33	0
56	MG	2A	3563	1/1	0.94	0.08	50,50,50,50	0
56	MG	1a	3076	1/1	0.94	0.10	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3748	1/1	0.94	0.06	34,34,34,34	0
56	MG	2A	3009	1/1	0.94	0.09	45,45,45,45	0
56	MG	2T	201	1/1	0.94	0.11	47,47,47,47	0
56	MG	1A	3461	1/1	0.94	0.10	36,36,36,36	0
56	MG	2A	3014	1/1	0.94	0.07	38,38,38,38	0
56	MG	1A	3601	1/1	0.94	0.19	43,43,43,43	0
56	MG	2A	3018	1/1	0.94	0.10	54,54,54,54	0
56	MG	2Z	301	1/1	0.94	0.06	61,61,61,61	0
56	MG	1a	3080	1/1	0.94	0.10	62,62,62,62	0
56	MG	2A	3290	1/1	0.94	0.09	39,39,39,39	0
56	MG	2A	3582	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	3911	1/1	0.94	0.14	59,59,59,59	0
56	MG	23	102	1/1	0.94	0.07	31,31,31,31	0
56	MG	1B	233	1/1	0.94	0.13	41,41,41,41	0
56	MG	1a	3083	1/1	0.94	0.22	42,42,42,42	0
56	MG	2A	3587	1/1	0.94	0.11	47,47,47,47	0
56	MG	1A	3602	1/1	0.94	0.18	20,20,20,20	0
56	MG	2A	3593	1/1	0.94	0.08	31,31,31,31	0
56	MG	2A	3028	1/1	0.94	0.09	20,20,20,20	0
56	MG	2A	3030	1/1	0.94	0.07	41,41,41,41	0
56	MG	1A	3603	1/1	0.94	0.22	16,16,16,16	0
56	MG	1A	3769	1/1	0.94	0.11	21,21,21,21	0
56	MG	1a	3088	1/1	0.94	0.12	46,46,46,46	0
56	MG	2A	3306	1/1	0.94	0.06	35,35,35,35	0
56	MG	2A	3039	1/1	0.94	0.05	35,35,35,35	0
56	MG	1A	3463	1/1	0.94	0.20	25,25,25,25	0
56	MG	1A	3032	1/1	0.94	0.18	44,44,44,44	0
56	MG	2A	3310	1/1	0.94	0.18	24,24,24,24	0
56	MG	2A	3613	1/1	0.94	0.11	58,58,58,58	0
56	MG	2a	1614	1/1	0.94	0.11	53,53,53,53	0
56	MG	2A	3614	1/1	0.94	0.08	23,23,23,23	0
56	MG	1A	3201	1/1	0.94	0.07	38,38,38,38	0
56	MG	2A	3045	1/1	0.94	0.10	52,52,52,52	0
56	MG	1a	3096	1/1	0.94	0.21	38,38,38,38	0
56	MG	1a	3099	1/1	0.94	0.14	39,39,39,39	0
56	MG	2a	1622	1/1	0.94	0.13	47,47,47,47	0
56	MG	2A	3623	1/1	0.94	0.10	44,44,44,44	0
56	MG	1A	3138	1/1	0.94	0.09	31,31,31,31	0
56	MG	1A	3938	1/1	0.94	0.20	47,47,47,47	0
56	MG	2A	3626	1/1	0.94	0.07	51,51,51,51	0
56	MG	1A	3778	1/1	0.94	0.08	26,26,26,26	0
56	MG	2a	1630	1/1	0.94	0.22	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3940	1/1	0.94	0.07	49,49,49,49	0
56	MG	1A	3781	1/1	0.94	0.08	21,21,21,21	0
56	MG	1F	308	1/1	0.94	0.05	27,27,27,27	0
56	MG	2A	3059	1/1	0.94	0.06	34,34,34,34	0
56	MG	2A	3061	1/1	0.94	0.19	66,66,66,66	0
56	MG	2a	1638	1/1	0.94	0.17	39,39,39,39	0
56	MG	1F	311	1/1	0.94	0.07	29,29,29,29	0
56	MG	1A	3387	1/1	0.94	0.08	40,40,40,40	0
56	MG	2A	3639	1/1	0.94	0.10	36,36,36,36	0
56	MG	1G	201	1/1	0.94	0.10	34,34,34,34	0
56	MG	1A	3620	1/1	0.94	0.20	29,29,29,29	0
56	MG	2a	1644	1/1	0.94	0.20	47,47,47,47	0
56	MG	2a	1645	1/1	0.94	0.09	44,44,44,44	0
56	MG	1a	3117	1/1	0.94	0.23	30,30,30,30	0
56	MG	1N	201	1/1	0.94	0.16	32,32,32,32	0
56	MG	1A	3789	1/1	0.94	0.11	21,21,21,21	0
56	MG	2A	3646	1/1	0.94	0.08	34,34,34,34	0
56	MG	2A	3647	1/1	0.94	0.07	38,38,38,38	0
56	MG	1a	3121	1/1	0.94	0.15	42,42,42,42	0
56	MG	2A	3086	1/1	0.94	0.06	34,34,34,34	0
56	MG	2a	1654	1/1	0.94	0.07	50,50,50,50	0
56	MG	1N	204	1/1	0.94	0.19	31,31,31,31	0
56	MG	1A	3949	1/1	0.94	0.07	40,40,40,40	0
56	MG	2A	3655	1/1	0.94	0.07	39,39,39,39	0
56	MG	1A	3317	1/1	0.94	0.07	44,44,44,44	0
56	MG	2A	3092	1/1	0.94	0.09	34,34,34,34	0
56	MG	2A	3094	1/1	0.94	0.09	40,40,40,40	0
56	MG	1A	3159	1/1	0.94	0.07	23,23,23,23	0
56	MG	1A	3403	1/1	0.94	0.05	20,20,20,20	0
56	MG	1A	3484	1/1	0.94	0.21	34,34,34,34	0
56	MG	2a	1673	1/1	0.94	0.05	48,48,48,48	0
56	MG	1Q	208	1/1	0.94	0.06	15,15,15,15	0
56	MG	2A	3665	1/1	0.94	0.07	48,48,48,48	0
56	MG	2a	1676	1/1	0.94	0.14	36,36,36,36	0
56	MG	2A	3100	1/1	0.94	0.19	41,41,41,41	0
56	MG	1A	3632	1/1	0.94	0.11	38,38,38,38	0
56	MG	2A	3103	1/1	0.94	0.15	38,38,38,38	0
56	MG	2A	3104	1/1	0.94	0.21	48,48,48,48	0
56	MG	2A	3358	1/1	0.94	0.08	51,51,51,51	0
56	MG	1A	3319	1/1	0.94	0.15	41,41,41,41	0
56	MG	2A	3107	1/1	0.94	0.11	44,44,44,44	0
56	MG	2a	1686	1/1	0.94	0.09	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3137	1/1	0.94	0.10	43,43,43,43	0
56	MG	2a	1690	1/1	0.94	0.13	53,53,53,53	0
56	MG	1U	205	1/1	0.94	0.05	28,28,28,28	0
56	MG	2a	1694	1/1	0.94	0.17	44,44,44,44	0
56	MG	1A	3808	1/1	0.94	0.06	28,28,28,28	0
56	MG	1a	3140	1/1	0.94	0.19	34,34,34,34	0
56	MG	1A	3967	1/1	0.94	0.13	18,18,18,18	0
56	MG	2A	3367	1/1	0.94	0.18	41,41,41,41	0
56	MG	1V	203	1/1	0.94	0.37	24,24,24,24	0
56	MG	2A	3689	1/1	0.94	0.07	48,48,48,48	0
56	MG	1A	3812	1/1	0.94	0.07	25,25,25,25	0
56	MG	2A	3121	1/1	0.94	0.10	49,49,49,49	0
56	MG	1V	207	1/1	0.94	0.21	22,22,22,22	0
56	MG	1A	3217	1/1	0.94	0.09	42,42,42,42	0
56	MG	1a	3149	1/1	0.94	0.10	33,33,33,33	0
56	MG	2A	3699	1/1	0.94	0.05	39,39,39,39	0
56	MG	1A	3641	1/1	0.94	0.04	18,18,18,18	0
56	MG	1A	3492	1/1	0.94	0.05	26,26,26,26	0
56	MG	2A	3131	1/1	0.94	0.13	58,58,58,58	0
56	MG	2A	3136	1/1	0.94	0.07	43,43,43,43	0
56	MG	1A	3647	1/1	0.94	0.07	27,27,27,27	0
56	MG	1A	3323	1/1	0.94	0.16	45,45,45,45	0
56	MG	1A	3654	1/1	0.94	0.09	10,10,10,10	0
56	MG	2A	3143	1/1	0.94	0.10	33,33,33,33	0
56	MG	2a	1718	1/1	0.94	0.19	39,39,39,39	0
56	MG	1A	3982	1/1	0.94	0.15	15,15,15,15	0
56	MG	1A	3408	1/1	0.94	0.07	36,36,36,36	0
56	MG	2A	3148	1/1	0.94	0.11	41,41,41,41	0
56	MG	2A	3718	1/1	0.94	0.07	32,32,32,32	0
56	MG	2A	3150	1/1	0.94	0.10	47,47,47,47	0
56	MG	1A	3066	1/1	0.94	0.12	26,26,26,26	0
56	MG	2A	3725	1/1	0.94	0.12	34,34,34,34	0
56	MG	2A	3154	1/1	0.94	0.15	50,50,50,50	0
56	MG	1A	3167	1/1	0.94	0.05	32,32,32,32	0
56	MG	12	101	1/1	0.94	0.05	28,28,28,28	0
56	MG	2A	3731	1/1	0.94	0.16	45,45,45,45	0
56	MG	1A	3275	1/1	0.94	0.15	36,36,36,36	0
56	MG	13	106	1/1	0.94	0.10	15,15,15,15	0
56	MG	1A	3170	1/1	0.94	0.11	30,30,30,30	0
56	MG	1A	3421	1/1	0.94	0.06	28,28,28,28	0
56	MG	1A	3999	1/1	0.94	0.14	39,39,39,39	0
56	MG	2A	3406	1/1	0.94	0.04	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	15	107	1/1	0.94	0.17	33,33,33,33	0
56	MG	1A	4004	1/1	0.94	0.13	45,45,45,45	0
56	MG	2a	1746	1/1	0.94	0.08	57,57,57,57	0
56	MG	1A	3664	1/1	0.94	0.06	20,20,20,20	0
56	MG	1A	3507	1/1	0.94	0.14	35,35,35,35	0
56	MG	1A	3839	1/1	0.94	0.09	29,29,29,29	0
56	MG	2A	3171	1/1	0.94	0.09	27,27,27,27	0
56	MG	17	103	1/1	0.94	0.08	28,28,28,28	0
56	MG	2a	1755	1/1	0.94	0.06	40,40,40,40	0
56	MG	2A	3423	1/1	0.94	0.09	22,22,22,22	0
56	MG	2A	3426	1/1	0.94	0.25	42,42,42,42	0
56	MG	1A	3840	1/1	0.94	0.08	28,28,28,28	0
56	MG	2A	3179	1/1	0.94	0.07	33,33,33,33	0
56	MG	2A	3769	1/1	0.94	0.07	68,68,68,68	0
56	MG	1A	3508	1/1	0.94	0.08	31,31,31,31	0
56	MG	2A	3432	1/1	0.94	0.23	41,41,41,41	0
56	MG	1A	3509	1/1	0.94	0.07	23,23,23,23	0
56	MG	2A	3435	1/1	0.94	0.30	51,51,51,51	0
56	MG	2A	3436	1/1	0.94	0.22	44,44,44,44	0
56	MG	2A	3437	1/1	0.94	0.09	42,42,42,42	0
56	MG	1a	3005	1/1	0.94	0.10	54,54,54,54	0
56	MG	2A	3442	1/1	0.94	0.23	39,39,39,39	0
56	MG	2A	3781	1/1	0.94	0.09	51,51,51,51	0
56	MG	1a	3199	1/1	0.94	0.09	45,45,45,45	0
56	MG	2A	3185	1/1	0.94	0.06	41,41,41,41	0
56	MG	1A	3846	1/1	0.94	0.12	29,29,29,29	0
56	MG	1A	3033	1/1	0.94	0.06	21,21,21,21	0
56	MG	2A	3452	1/1	0.94	0.10	43,43,43,43	0
56	MG	1A	4029	1/1	0.94	0.10	19,19,19,19	0
56	MG	1a	3207	1/1	0.94	0.06	46,46,46,46	0
56	MG	1A	3513	1/1	0.94	0.16	23,23,23,23	0
56	MG	2A	3457	1/1	0.94	0.13	24,24,24,24	0
56	MG	1A	3282	1/1	0.94	0.23	22,22,22,22	0
56	MG	1a	3217	1/1	0.94	0.06	65,65,65,65	0
56	MG	2A	3199	1/1	0.94	0.07	27,27,27,27	0
56	MG	2A	3200	1/1	0.94	0.04	33,33,33,33	0
56	MG	2a	1798	1/1	0.94	0.08	44,44,44,44	0
56	MG	1a	3218	1/1	0.94	0.09	65,65,65,65	0
56	MG	1a	3018	1/1	0.94	0.06	49,49,49,49	0
56	MG	1A	3079	1/1	0.94	0.08	58,58,58,58	0
56	MG	1A	4043	1/1	0.94	0.07	30,30,30,30	0
56	MG	2A	3812	1/1	0.94	0.14	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3227	1/1	0.94	0.15	39,39,39,39	0
56	MG	1A	3853	1/1	0.94	0.06	28,28,28,28	0
56	MG	2A	3214	1/1	0.94	0.11	34,34,34,34	0
56	MG	1A	3532	1/1	0.94	0.15	42,42,42,42	0
56	MG	2A	3217	1/1	0.94	0.10	47,47,47,47	0
56	MG	1a	3027	1/1	0.94	0.25	49,49,49,49	0
56	MG	2A	3489	1/1	0.94	0.10	37,37,37,37	0
56	MG	1A	3102	1/1	0.94	0.12	18,18,18,18	0
56	MG	1A	3017	1/1	0.94	0.10	17,17,17,17	0
56	MG	2A	3834	1/1	0.94	0.06	24,24,24,24	0
56	MG	2A	3223	1/1	0.94	0.06	41,41,41,41	0
56	MG	2A	3839	1/1	0.94	0.09	47,47,47,47	0
56	MG	2A	3842	1/1	0.94	0.10	62,62,62,62	0
56	MG	1A	3092	1/1	0.94	0.10	26,26,26,26	0
56	MG	2A	3847	1/1	0.94	0.09	62,62,62,62	0
56	MG	1A	4055	1/1	0.94	0.08	41,41,41,41	0
56	MG	1a	3038	1/1	0.94	0.14	56,56,56,56	0
56	MG	1A	3537	1/1	0.94	0.13	31,31,31,31	0
56	MG	2A	3501	1/1	0.94	0.07	42,42,42,42	0
56	MG	1A	3703	1/1	0.94	0.06	38,38,38,38	0
56	MG	2g	201	1/1	0.94	0.07	57,57,57,57	0
56	MG	2A	3503	1/1	0.94	0.12	33,33,33,33	0
56	MG	1A	3548	1/1	0.94	0.19	27,27,27,27	0
56	MG	1A	3181	1/1	0.94	0.07	35,35,35,35	0
56	MG	1A	3433	1/1	0.94	0.14	22,22,22,22	0
56	MG	2k	201	1/1	0.94	0.09	51,51,51,51	0
56	MG	2A	3244	1/1	0.94	0.15	39,39,39,39	0
56	MG	1A	4069	1/1	0.94	0.07	37,37,37,37	0
56	MG	2A	3515	1/1	0.94	0.09	48,48,48,48	0
56	MG	2l	205	1/1	0.94	0.04	33,33,33,33	0
56	MG	1A	3184	1/1	0.94	0.07	46,46,46,46	0
56	MG	2B	205	1/1	0.94	0.09	40,40,40,40	0
56	MG	1A	3297	1/1	0.94	0.15	28,28,28,28	0
56	MG	2w	101	1/1	0.94	0.11	50,50,50,50	0
56	MG	2A	3520	1/1	0.94	0.09	42,42,42,42	0
56	MG	2x	102	1/1	0.94	0.06	59,59,59,59	0
56	MG	2A	3248	1/1	0.94	0.07	47,47,47,47	0
56	MG	2x	105	1/1	0.94	0.06	33,33,33,33	0
56	MG	1A	4072	1/1	0.94	0.16	52,52,52,52	0
56	MG	1A	3881	1/1	0.94	0.08	17,17,17,17	0
56	MG	2y	103	1/1	0.94	0.08	41,41,41,41	0
56	MG	2B	213	1/1	0.94	0.07	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3882	1/1	0.94	0.09	26,26,26,26	0
56	MG	2A	3005	1/1	0.95	0.08	39,39,39,39	0
56	MG	2D	301	1/1	0.95	0.08	37,37,37,37	0
56	MG	2D	302	1/1	0.95	0.07	39,39,39,39	0
56	MG	1A	3692	1/1	0.95	0.07	10,10,10,10	0
56	MG	2D	305	1/1	0.95	0.13	39,39,39,39	0
56	MG	2A	3552	1/1	0.95	0.09	56,56,56,56	0
56	MG	2D	307	1/1	0.95	0.10	34,34,34,34	0
56	MG	1a	3065	1/1	0.95	0.09	34,34,34,34	0
56	MG	1A	3878	1/1	0.95	0.09	12,12,12,12	0
56	MG	1B	210	1/1	0.95	0.16	39,39,39,39	0
56	MG	2A	3557	1/1	0.95	0.07	41,41,41,41	0
56	MG	2E	305	1/1	0.95	0.11	36,36,36,36	0
56	MG	1A	3696	1/1	0.95	0.07	24,24,24,24	0
56	MG	1A	3353	1/1	0.95	0.07	41,41,41,41	0
56	MG	1A	3354	1/1	0.95	0.14	29,29,29,29	0
56	MG	2A	3019	1/1	0.95	0.13	47,47,47,47	0
56	MG	1A	3541	1/1	0.95	0.07	14,14,14,14	0
56	MG	1A	3706	1/1	0.95	0.09	26,26,26,26	0
56	MG	1A	3546	1/1	0.95	0.11	21,21,21,21	0
56	MG	1A	3434	1/1	0.95	0.12	39,39,39,39	0
56	MG	2N	201	1/1	0.95	0.04	32,32,32,32	0
56	MG	1A	3893	1/1	0.95	0.07	48,48,48,48	0
56	MG	1A	3552	1/1	0.95	0.10	23,23,23,23	0
56	MG	1A	3198	1/1	0.95	0.13	20,20,20,20	0
56	MG	2A	3575	1/1	0.95	0.07	43,43,43,43	0
56	MG	1A	3557	1/1	0.95	0.04	28,28,28,28	0
56	MG	2A	3033	1/1	0.95	0.06	39,39,39,39	0
56	MG	1A	3436	1/1	0.95	0.05	29,29,29,29	0
56	MG	2R	203	1/1	0.95	0.06	23,23,23,23	0
56	MG	1A	3564	1/1	0.95	0.07	28,28,28,28	0
56	MG	1A	3904	1/1	0.95	0.23	19,19,19,19	0
56	MG	2T	203	1/1	0.95	0.05	34,34,34,34	0
56	MG	2A	3297	1/1	0.95	0.04	27,27,27,27	0
56	MG	1A	3565	1/1	0.95	0.08	11,11,11,11	0
56	MG	2A	3585	1/1	0.95	0.06	34,34,34,34	0
56	MG	2A	3299	1/1	0.95	0.05	11,11,11,11	0
56	MG	1D	301	1/1	0.95	0.11	19,19,19,19	0
56	MG	1D	302	1/1	0.95	0.16	35,35,35,35	0
56	MG	1A	3356	1/1	0.95	0.25	12,12,12,12	0
56	MG	2A	3305	1/1	0.95	0.11	44,44,44,44	0
56	MG	1A	3909	1/1	0.95	0.06	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3199	1/1	0.95	0.10	32,32,32,32	0
56	MG	2A	3598	1/1	0.95	0.06	47,47,47,47	0
56	MG	25	103	1/1	0.95	0.06	25,25,25,25	0
56	MG	1a	3093	1/1	0.95	0.25	40,40,40,40	0
56	MG	1a	3094	1/1	0.95	0.18	29,29,29,29	0
56	MG	2A	3051	1/1	0.95	0.14	34,34,34,34	0
56	MG	1A	3439	1/1	0.95	0.07	25,25,25,25	0
56	MG	2a	1601	1/1	0.95	0.10	59,59,59,59	0
56	MG	2A	3606	1/1	0.95	0.09	45,45,45,45	0
56	MG	1A	3362	1/1	0.95	0.06	28,28,28,28	0
56	MG	2a	1604	1/1	0.95	0.10	39,39,39,39	0
56	MG	2a	1605	1/1	0.95	0.08	36,36,36,36	0
56	MG	2A	3055	1/1	0.95	0.15	47,47,47,47	0
56	MG	2A	3315	1/1	0.95	0.08	45,45,45,45	0
56	MG	1A	3248	1/1	0.95	0.06	30,30,30,30	0
56	MG	1A	3739	1/1	0.95	0.07	21,21,21,21	0
56	MG	2A	3615	1/1	0.95	0.16	28,28,28,28	0
56	MG	1a	3101	1/1	0.95	0.26	43,43,43,43	0
56	MG	1a	3102	1/1	0.95	0.12	53,53,53,53	0
56	MG	1F	303	1/1	0.95	0.17	23,23,23,23	0
56	MG	1A	3926	1/1	0.95	0.06	28,28,28,28	0
56	MG	2a	1615	1/1	0.95	0.14	37,37,37,37	0
56	MG	1a	3106	1/1	0.95	0.13	20,20,20,20	0
56	MG	1A	3929	1/1	0.95	0.06	34,34,34,34	0
56	MG	1A	3574	1/1	0.95	0.16	21,21,21,21	0
56	MG	2A	3074	1/1	0.95	0.15	42,42,42,42	0
56	MG	2a	1620	1/1	0.95	0.07	46,46,46,46	0
56	MG	2A	3328	1/1	0.95	0.22	51,51,51,51	0
56	MG	1A	3577	1/1	0.95	0.04	16,16,16,16	0
56	MG	2a	1623	1/1	0.95	0.11	44,44,44,44	0
56	MG	1A	3249	1/1	0.95	0.10	28,28,28,28	0
56	MG	1F	312	1/1	0.95	0.06	28,28,28,28	0
56	MG	2A	3085	1/1	0.95	0.07	37,37,37,37	0
56	MG	1A	3023	1/1	0.95	0.10	13,13,13,13	0
56	MG	1A	3452	1/1	0.95	0.05	22,22,22,22	0
56	MG	2A	3089	1/1	0.95	0.06	35,35,35,35	0
56	MG	1a	3114	1/1	0.95	0.28	34,34,34,34	0
56	MG	1a	3116	1/1	0.95	0.22	40,40,40,40	0
56	MG	2a	1633	1/1	0.95	0.19	36,36,36,36	0
56	MG	1A	3304	1/1	0.95	0.07	25,25,25,25	0
56	MG	2A	3093	1/1	0.95	0.11	29,29,29,29	0
56	MG	1a	3118	1/1	0.95	0.15	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1637	1/1	0.95	0.21	45,45,45,45	0
56	MG	1A	3591	1/1	0.95	0.08	34,34,34,34	0
56	MG	1A	3595	1/1	0.95	0.06	40,40,40,40	0
56	MG	2A	3348	1/1	0.95	0.17	26,26,26,26	0
56	MG	1A	3454	1/1	0.95	0.06	31,31,31,31	0
56	MG	1O	202	1/1	0.95	0.07	41,41,41,41	0
56	MG	1A	3370	1/1	0.95	0.08	33,33,33,33	0
56	MG	2A	3652	1/1	0.95	0.07	35,35,35,35	0
56	MG	1a	3125	1/1	0.95	0.20	35,35,35,35	0
56	MG	1a	3126	1/1	0.95	0.13	39,39,39,39	0
56	MG	1P	203	1/1	0.95	0.40	27,27,27,27	0
56	MG	1A	3458	1/1	0.95	0.08	37,37,37,37	0
56	MG	2A	3659	1/1	0.95	0.10	57,57,57,57	0
56	MG	1A	3950	1/1	0.95	0.06	42,42,42,42	0
56	MG	1A	3776	1/1	0.95	0.08	13,13,13,13	0
56	MG	2A	3360	1/1	0.95	0.17	49,49,49,49	0
56	MG	1A	3169	1/1	0.95	0.09	13,13,13,13	0
56	MG	1A	3088	1/1	0.95	0.06	21,21,21,21	0
56	MG	1A	3208	1/1	0.95	0.19	19,19,19,19	0
56	MG	1a	3136	1/1	0.95	0.07	44,44,44,44	0
56	MG	1S	201	1/1	0.95	0.07	34,34,34,34	0
56	MG	2A	3118	1/1	0.95	0.15	67,67,67,67	0
56	MG	2A	3119	1/1	0.95	0.08	34,34,34,34	0
56	MG	2a	1667	1/1	0.95	0.04	27,27,27,27	0
56	MG	1S	202	1/1	0.95	0.07	51,51,51,51	0
56	MG	1A	3960	1/1	0.95	0.12	52,52,52,52	0
56	MG	2A	3122	1/1	0.95	0.15	50,50,50,50	0
56	MG	1U	202	1/1	0.95	0.22	21,21,21,21	0
56	MG	2A	3374	1/1	0.95	0.17	50,50,50,50	0
56	MG	2A	3681	1/1	0.95	0.07	43,43,43,43	0
56	MG	1U	204	1/1	0.95	0.26	27,27,27,27	0
56	MG	2A	3376	1/1	0.95	0.08	44,44,44,44	0
56	MG	1A	3961	1/1	0.95	0.05	57,57,57,57	0
56	MG	1U	206	1/1	0.95	0.11	25,25,25,25	0
56	MG	2a	1680	1/1	0.95	0.14	44,44,44,44	0
56	MG	2A	3380	1/1	0.95	0.08	33,33,33,33	0
56	MG	1U	208	1/1	0.95	0.18	25,25,25,25	0
56	MG	2a	1683	1/1	0.95	0.11	41,41,41,41	0
56	MG	1A	3379	1/1	0.95	0.05	32,32,32,32	0
56	MG	1A	3787	1/1	0.95	0.06	36,36,36,36	0
56	MG	1A	3788	1/1	0.95	0.06	27,27,27,27	0
56	MG	1A	3607	1/1	0.95	0.20	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1688	1/1	0.95	0.10	42,42,42,42	0
56	MG	2A	3141	1/1	0.95	0.12	47,47,47,47	0
56	MG	1A	3468	1/1	0.95	0.09	25,25,25,25	0
56	MG	1A	3380	1/1	0.95	0.04	32,32,32,32	0
56	MG	1A	3213	1/1	0.95	0.20	35,35,35,35	0
56	MG	2A	3146	1/1	0.95	0.06	29,29,29,29	0
56	MG	2a	1697	1/1	0.95	0.06	55,55,55,55	0
56	MG	2A	3705	1/1	0.95	0.09	41,41,41,41	0
56	MG	1A	3799	1/1	0.95	0.05	30,30,30,30	0
56	MG	1a	3161	1/1	0.95	0.11	53,53,53,53	0
56	MG	1A	3614	1/1	0.95	0.23	35,35,35,35	0
56	MG	1A	3214	1/1	0.95	0.06	32,32,32,32	0
56	MG	1X	104	1/1	0.95	0.10	43,43,43,43	0
56	MG	2A	3712	1/1	0.95	0.05	34,34,34,34	0
56	MG	1A	3386	1/1	0.95	0.08	38,38,38,38	0
56	MG	2A	3715	1/1	0.95	0.07	48,48,48,48	0
56	MG	2A	3399	1/1	0.95	0.06	40,40,40,40	0
56	MG	1A	3067	1/1	0.95	0.05	44,44,44,44	0
56	MG	1A	3622	1/1	0.95	0.07	22,22,22,22	0
56	MG	2A	3719	1/1	0.95	0.07	29,29,29,29	0
56	MG	1A	3814	1/1	0.95	0.41	26,26,26,26	0
56	MG	10	103	1/1	0.95	0.05	32,32,32,32	0
56	MG	2A	3724	1/1	0.95	0.05	45,45,45,45	0
56	MG	1A	3271	1/1	0.95	0.19	28,28,28,28	0
56	MG	1A	3994	1/1	0.95	0.06	50,50,50,50	0
56	MG	1A	3073	1/1	0.95	0.20	29,29,29,29	0
56	MG	1A	3629	1/1	0.95	0.07	18,18,18,18	0
56	MG	1A	3390	1/1	0.95	0.06	25,25,25,25	0
56	MG	1A	3392	1/1	0.95	0.06	24,24,24,24	0
56	MG	2A	3418	1/1	0.95	0.18	21,21,21,21	0
56	MG	2A	3166	1/1	0.95	0.07	35,35,35,35	0
56	MG	2A	3420	1/1	0.95	0.19	36,36,36,36	0
56	MG	2a	1725	1/1	0.95	0.13	43,43,43,43	0
56	MG	2a	1726	1/1	0.95	0.27	32,32,32,32	0
56	MG	2a	1727	1/1	0.95	0.21	44,44,44,44	0
56	MG	1A	3633	1/1	0.95	0.06	30,30,30,30	0
56	MG	1A	3395	1/1	0.95	0.05	32,32,32,32	0
56	MG	2A	3424	1/1	0.95	0.07	42,42,42,42	0
56	MG	2A	3747	1/1	0.95	0.10	45,45,45,45	0
56	MG	2A	3173	1/1	0.95	0.09	33,33,33,33	0
56	MG	2A	3750	1/1	0.95	0.10	28,28,28,28	0
56	MG	1A	3490	1/1	0.95	0.06	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1736	1/1	0.95	0.10	65,65,65,65	0
56	MG	1A	3320	1/1	0.95	0.05	23,23,23,23	0
56	MG	1A	4015	1/1	0.95	0.09	41,41,41,41	0
56	MG	2A	3755	1/1	0.95	0.07	40,40,40,40	0
56	MG	1a	3197	1/1	0.95	0.07	49,49,49,49	0
56	MG	1A	3104	1/1	0.95	0.10	21,21,21,21	0
56	MG	1A	3223	1/1	0.95	0.09	29,29,29,29	0
56	MG	1A	4019	1/1	0.95	0.13	9,9,9,9	0
56	MG	19	101	1/1	0.95	0.17	43,43,43,43	0
56	MG	1a	3206	1/1	0.95	0.09	52,52,52,52	0
56	MG	2A	3187	1/1	0.95	0.07	39,39,39,39	0
56	MG	1A	3177	1/1	0.95	0.07	21,21,21,21	0
56	MG	1a	3001	1/1	0.95	0.05	49,49,49,49	0
56	MG	2A	3190	1/1	0.95	0.12	26,26,26,26	0
56	MG	2A	3448	1/1	0.95	0.15	34,34,34,34	0
56	MG	2A	3449	1/1	0.95	0.09	35,35,35,35	0
56	MG	1a	3002	1/1	0.95	0.13	42,42,42,42	0
56	MG	1A	3049	1/1	0.95	0.07	17,17,17,17	0
56	MG	1A	3499	1/1	0.95	0.24	50,50,50,50	0
56	MG	2a	1762	1/1	0.95	0.07	66,66,66,66	0
56	MG	2A	3780	1/1	0.95	0.07	48,48,48,48	0
56	MG	1A	4025	1/1	0.95	0.07	42,42,42,42	0
56	MG	1a	3223	1/1	0.95	0.06	40,40,40,40	0
56	MG	1A	4027	1/1	0.95	0.14	48,48,48,48	0
56	MG	2A	3460	1/1	0.95	0.06	48,48,48,48	0
56	MG	1A	4028	1/1	0.95	0.07	35,35,35,35	0
56	MG	1A	3409	1/1	0.95	0.06	30,30,30,30	0
56	MG	1a	3013	1/1	0.95	0.07	33,33,33,33	0
56	MG	2a	1778	1/1	0.95	0.09	54,54,54,54	0
56	MG	2A	3466	1/1	0.95	0.14	19,19,19,19	0
56	MG	1A	3502	1/1	0.95	0.09	44,44,44,44	0
56	MG	1a	3016	1/1	0.95	0.05	43,43,43,43	0
56	MG	1e	202	1/1	0.95	0.06	45,45,45,45	0
56	MG	2A	3211	1/1	0.95	0.05	31,31,31,31	0
56	MG	2A	3212	1/1	0.95	0.08	38,38,38,38	0
56	MG	1A	3281	1/1	0.95	0.11	39,39,39,39	0
56	MG	1A	3842	1/1	0.95	0.11	37,37,37,37	0
56	MG	1l	203	1/1	0.95	0.05	48,48,48,48	0
56	MG	2a	1790	1/1	0.95	0.06	41,41,41,41	0
56	MG	1A	4040	1/1	0.95	0.07	12,12,12,12	0
56	MG	2A	3481	1/1	0.95	0.05	44,44,44,44	0
56	MG	1A	3075	1/1	0.95	0.11	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1794	1/1	0.95	0.09	58,58,58,58	0
56	MG	2A	3486	1/1	0.95	0.07	33,33,33,33	0
56	MG	1A	3845	1/1	0.95	0.10	37,37,37,37	0
56	MG	1A	3286	1/1	0.95	0.11	27,27,27,27	0
56	MG	1A	3134	1/1	0.95	0.21	22,22,22,22	0
56	MG	2A	3227	1/1	0.95	0.12	36,36,36,36	0
56	MG	1A	4047	1/1	0.95	0.10	19,19,19,19	0
56	MG	2a	1802	1/1	0.95	0.12	40,40,40,40	0
56	MG	2A	3496	1/1	0.95	0.07	28,28,28,28	0
56	MG	2a	1804	1/1	0.95	0.06	37,37,37,37	0
56	MG	1A	3336	1/1	0.95	0.11	27,27,27,27	0
56	MG	2A	3231	1/1	0.95	0.15	41,41,41,41	0
56	MG	2A	3833	1/1	0.95	0.09	48,48,48,48	0
56	MG	1a	3032	1/1	0.95	0.12	32,32,32,32	0
56	MG	1A	3137	1/1	0.95	0.15	35,35,35,35	0
56	MG	2A	3237	1/1	0.95	0.06	32,32,32,32	0
56	MG	2A	3840	1/1	0.95	0.07	41,41,41,41	0
56	MG	2A	3239	1/1	0.95	0.08	45,45,45,45	0
56	MG	2A	3843	1/1	0.95	0.06	40,40,40,40	0
56	MG	2A	3845	1/1	0.95	0.07	49,49,49,49	0
56	MG	1A	3670	1/1	0.95	0.06	20,20,20,20	0
56	MG	1A	3111	1/1	0.95	0.13	28,28,28,28	0
56	MG	2A	3850	1/1	0.95	0.07	44,44,44,44	0
56	MG	1A	3515	1/1	0.95	0.09	38,38,38,38	0
56	MG	2A	3854	1/1	0.95	0.06	43,43,43,43	0
56	MG	2a	1824	1/1	0.95	0.16	26,26,26,26	0
56	MG	1A	4059	1/1	0.95	0.08	30,30,30,30	0
56	MG	1A	3160	1/1	0.95	0.04	13,13,13,13	0
56	MG	1A	3529	1/1	0.95	0.18	27,27,27,27	0
56	MG	2A	3513	1/1	0.95	0.12	32,32,32,32	0
56	MG	2A	3514	1/1	0.95	0.09	48,48,48,48	0
56	MG	1a	3050	1/1	0.95	0.07	46,46,46,46	0
56	MG	1A	4064	1/1	0.95	0.19	36,36,36,36	0
56	MG	1A	3863	1/1	0.95	0.07	20,20,20,20	0
56	MG	1A	4066	1/1	0.95	0.12	21,21,21,21	0
56	MG	2A	3873	1/1	0.95	0.07	44,44,44,44	0
56	MG	2A	3252	1/1	0.95	0.12	41,41,41,41	0
56	MG	2A	3523	1/1	0.95	0.07	38,38,38,38	0
56	MG	2A	3255	1/1	0.95	0.06	30,30,30,30	0
56	MG	2B	204	1/1	0.95	0.12	52,52,52,52	0
56	MG	1A	3680	1/1	0.95	0.07	18,18,18,18	0
56	MG	2B	207	1/1	0.95	0.10	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2p	101	1/1	0.95	0.11	43,43,43,43	0
56	MG	2q	201	1/1	0.95	0.14	55,55,55,55	0
56	MG	2q	202	1/1	0.95	0.07	58,58,58,58	0
56	MG	1A	3681	1/1	0.95	0.08	37,37,37,37	0
56	MG	1A	3096	1/1	0.95	0.07	20,20,20,20	0
56	MG	2A	3533	1/1	0.95	0.06	33,33,33,33	0
56	MG	2A	3534	1/1	0.95	0.10	30,30,30,30	0
56	MG	1A	3348	1/1	0.95	0.12	33,33,33,33	0
56	MG	1A	3686	1/1	0.95	0.09	6,6,6,6	0
56	MG	2A	3537	1/1	0.95	0.10	27,27,27,27	0
56	MG	2A	3264	1/1	0.95	0.19	38,38,38,38	0
56	MG	1A	3427	1/1	0.95	0.11	38,38,38,38	0
56	MG	2B	217	1/1	0.95	0.06	47,47,47,47	0
56	MG	1A	3196	1/1	0.95	0.07	23,23,23,23	0
56	MG	1B	205	1/1	0.95	0.19	33,33,33,33	0
56	MG	1a	3063	1/1	0.95	0.12	48,48,48,48	0
56	MG	2A	3853	1/1	0.96	0.06	33,33,33,33	0
56	MG	1A	3410	1/1	0.96	0.05	17,17,17,17	0
56	MG	1A	3665	1/1	0.96	0.06	23,23,23,23	0
56	MG	2A	3857	1/1	0.96	0.12	46,46,46,46	0
56	MG	2A	3463	1/1	0.96	0.08	45,45,45,45	0
56	MG	1a	3135	1/1	0.96	0.14	33,33,33,33	0
56	MG	1A	3168	1/1	0.96	0.10	32,32,32,32	0
56	MG	1A	3415	1/1	0.96	0.08	31,31,31,31	0
56	MG	2A	3862	1/1	0.96	0.09	45,45,45,45	0
56	MG	2A	3863	1/1	0.96	0.07	27,27,27,27	0
56	MG	1A	3668	1/1	0.96	0.07	15,15,15,15	0
56	MG	2A	3867	1/1	0.96	0.10	46,46,46,46	0
56	MG	1F	310	1/1	0.96	0.13	15,15,15,15	0
56	MG	2A	3869	1/1	0.96	0.06	49,49,49,49	0
56	MG	1A	3516	1/1	0.96	0.09	26,26,26,26	0
56	MG	2A	3470	1/1	0.96	0.06	33,33,33,33	0
56	MG	1A	3518	1/1	0.96	0.15	30,30,30,30	0
56	MG	1A	3885	1/1	0.96	0.06	9,9,9,9	0
56	MG	1a	3143	1/1	0.96	0.06	48,48,48,48	0
56	MG	2A	3476	1/1	0.96	0.10	40,40,40,40	0
56	MG	2B	203	1/1	0.96	0.09	50,50,50,50	0
56	MG	1A	3886	1/1	0.96	0.10	14,14,14,14	0
56	MG	1A	3675	1/1	0.96	0.20	44,44,44,44	0
56	MG	2B	206	1/1	0.96	0.13	42,42,42,42	0
56	MG	1A	3521	1/1	0.96	0.24	24,24,24,24	0
56	MG	2A	3480	1/1	0.96	0.06	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3209	1/1	0.96	0.16	15,15,15,15	0
56	MG	2A	3483	1/1	0.96	0.13	38,38,38,38	0
56	MG	1A	3891	1/1	0.96	0.11	37,37,37,37	0
56	MG	1a	3153	1/1	0.96	0.06	27,27,27,27	0
56	MG	2A	3177	1/1	0.96	0.06	37,37,37,37	0
56	MG	2A	3178	1/1	0.96	0.10	45,45,45,45	0
56	MG	1O	201	1/1	0.96	0.05	29,29,29,29	0
56	MG	1A	3526	1/1	0.96	0.06	31,31,31,31	0
56	MG	1A	3527	1/1	0.96	0.04	22,22,22,22	0
56	MG	1A	3895	1/1	0.96	0.05	30,30,30,30	0
56	MG	1A	3263	1/1	0.96	0.19	24,24,24,24	0
56	MG	1P	207	1/1	0.96	0.16	29,29,29,29	0
56	MG	1a	3163	1/1	0.96	0.06	33,33,33,33	0
56	MG	1A	3210	1/1	0.96	0.18	18,18,18,18	0
56	MG	1Q	204	1/1	0.96	0.04	13,13,13,13	0
56	MG	1A	3683	1/1	0.96	0.05	28,28,28,28	0
56	MG	1A	3211	1/1	0.96	0.08	33,33,33,33	0
56	MG	1A	3036	1/1	0.96	0.07	14,14,14,14	0
56	MG	2A	3505	1/1	0.96	0.07	36,36,36,36	0
56	MG	1A	3687	1/1	0.96	0.05	21,21,21,21	0
56	MG	2A	3193	1/1	0.96	0.06	40,40,40,40	0
56	MG	2A	3195	1/1	0.96	0.05	38,38,38,38	0
56	MG	2A	3196	1/1	0.96	0.05	33,33,33,33	0
56	MG	1a	3172	1/1	0.96	0.07	57,57,57,57	0
56	MG	1A	3094	1/1	0.96	0.08	27,27,27,27	0
56	MG	1a	3174	1/1	0.96	0.05	48,48,48,48	0
56	MG	1A	3335	1/1	0.96	0.07	23,23,23,23	0
56	MG	1T	201	1/1	0.96	0.06	35,35,35,35	0
56	MG	2A	3202	1/1	0.96	0.04	22,22,22,22	0
56	MG	2A	3203	1/1	0.96	0.10	34,34,34,34	0
56	MG	1a	3179	1/1	0.96	0.07	47,47,47,47	0
56	MG	2F	307	1/1	0.96	0.09	50,50,50,50	0
56	MG	1A	3691	1/1	0.96	0.08	16,16,16,16	0
56	MG	1A	3082	1/1	0.96	0.05	20,20,20,20	0
56	MG	1U	203	1/1	0.96	0.32	23,23,23,23	0
56	MG	2A	3529	1/1	0.96	0.07	35,35,35,35	0
56	MG	1A	3693	1/1	0.96	0.12	5,5,5,5	0
56	MG	1A	3917	1/1	0.96	0.09	34,34,34,34	0
56	MG	2Q	203	1/1	0.96	0.06	44,44,44,44	0
56	MG	1a	3187	1/1	0.96	0.07	29,29,29,29	0
56	MG	2A	3213	1/1	0.96	0.05	38,38,38,38	0
56	MG	2R	201	1/1	0.96	0.05	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3538	1/1	0.96	0.06	20,20,20,20	0
56	MG	1A	3539	1/1	0.96	0.05	25,25,25,25	0
56	MG	2A	3538	1/1	0.96	0.08	33,33,33,33	0
56	MG	1A	3700	1/1	0.96	0.10	14,14,14,14	0
56	MG	1A	3338	1/1	0.96	0.04	13,13,13,13	0
56	MG	2U	201	1/1	0.96	0.07	38,38,38,38	0
56	MG	1A	3927	1/1	0.96	0.09	54,54,54,54	0
56	MG	2A	3220	1/1	0.96	0.15	32,32,32,32	0
56	MG	2A	3544	1/1	0.96	0.06	44,44,44,44	0
56	MG	1A	3702	1/1	0.96	0.07	14,14,14,14	0
56	MG	1a	3198	1/1	0.96	0.08	44,44,44,44	0
56	MG	1A	3274	1/1	0.96	0.10	24,24,24,24	0
56	MG	2A	3226	1/1	0.96	0.07	31,31,31,31	0
56	MG	1A	3704	1/1	0.96	0.06	34,34,34,34	0
56	MG	1A	3934	1/1	0.96	0.11	29,29,29,29	0
56	MG	2A	3229	1/1	0.96	0.08	31,31,31,31	0
56	MG	1A	3342	1/1	0.96	0.12	19,19,19,19	0
56	MG	1a	3204	1/1	0.96	0.05	49,49,49,49	0
56	MG	1A	3114	1/1	0.96	0.06	19,19,19,19	0
56	MG	1W	206	1/1	0.96	0.06	20,20,20,20	0
56	MG	2A	3234	1/1	0.96	0.19	37,37,37,37	0
56	MG	2A	3236	1/1	0.96	0.12	40,40,40,40	0
56	MG	1a	3208	1/1	0.96	0.06	34,34,34,34	0
56	MG	1A	3345	1/1	0.96	0.09	19,19,19,19	0
56	MG	2A	3567	1/1	0.96	0.06	35,35,35,35	0
56	MG	1A	3554	1/1	0.96	0.21	12,12,12,12	0
56	MG	1a	3216	1/1	0.96	0.05	33,33,33,33	0
56	MG	2A	3242	1/1	0.96	0.17	55,55,55,55	0
56	MG	1Y	201	1/1	0.96	0.09	39,39,39,39	0
56	MG	2A	3574	1/1	0.96	0.06	36,36,36,36	0
56	MG	1A	3712	1/1	0.96	0.10	28,28,28,28	0
56	MG	1A	3942	1/1	0.96	0.07	51,51,51,51	0
56	MG	1a	3222	1/1	0.96	0.07	41,41,41,41	0
56	MG	1A	3115	1/1	0.96	0.23	13,13,13,13	0
56	MG	1A	3558	1/1	0.96	0.21	21,21,21,21	0
56	MG	2A	3580	1/1	0.96	0.12	39,39,39,39	0
56	MG	2A	3581	1/1	0.96	0.07	30,30,30,30	0
56	MG	1A	3277	1/1	0.96	0.15	36,36,36,36	0
56	MG	10	104	1/1	0.96	0.12	36,36,36,36	0
56	MG	2A	3251	1/1	0.96	0.11	48,48,48,48	0
56	MG	1a	3228	1/1	0.96	0.08	51,51,51,51	0
56	MG	2A	3254	1/1	0.96	0.12	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	10	105	1/1	0.96	0.10	32,32,32,32	0
56	MG	2A	3590	1/1	0.96	0.06	36,36,36,36	0
56	MG	10	106	1/1	0.96	0.06	37,37,37,37	0
56	MG	1A	3718	1/1	0.96	0.05	22,22,22,22	0
56	MG	1A	3563	1/1	0.96	0.14	16,16,16,16	0
56	MG	2A	3260	1/1	0.96	0.07	37,37,37,37	0
56	MG	2A	3596	1/1	0.96	0.07	37,37,37,37	0
56	MG	1A	3951	1/1	0.96	0.09	22,22,22,22	0
56	MG	1A	3720	1/1	0.96	0.08	19,19,19,19	0
56	MG	2A	3263	1/1	0.96	0.09	30,30,30,30	0
56	MG	1A	3222	1/1	0.96	0.05	25,25,25,25	0
56	MG	2A	3601	1/1	0.96	0.08	42,42,42,42	0
56	MG	1A	3350	1/1	0.96	0.46	33,33,33,33	0
56	MG	2A	3266	1/1	0.96	0.09	42,42,42,42	0
56	MG	2A	3605	1/1	0.96	0.05	33,33,33,33	0
56	MG	1n	101	1/1	0.96	0.12	52,52,52,52	0
56	MG	15	103	1/1	0.96	0.27	21,21,21,21	0
56	MG	1A	3725	1/1	0.96	0.06	40,40,40,40	0
56	MG	15	106	1/1	0.96	0.13	30,30,30,30	0
56	MG	1t	201	1/1	0.96	0.11	40,40,40,40	0
56	MG	1A	3039	1/1	0.96	0.23	29,29,29,29	0
56	MG	1A	3224	1/1	0.96	0.11	23,23,23,23	0
56	MG	1A	3568	1/1	0.96	0.05	16,16,16,16	0
56	MG	1A	3731	1/1	0.96	0.05	27,27,27,27	0
56	MG	1A	3732	1/1	0.96	0.08	10,10,10,10	0
56	MG	2A	3620	1/1	0.96	0.10	48,48,48,48	0
56	MG	1A	3283	1/1	0.96	0.07	36,36,36,36	0
56	MG	1w	106	1/1	0.96	0.04	32,32,32,32	0
56	MG	2A	3280	1/1	0.96	0.13	39,39,39,39	0
56	MG	1A	3738	1/1	0.96	0.07	46,46,46,46	0
56	MG	2A	3282	1/1	0.96	0.24	36,36,36,36	0
56	MG	2A	3284	1/1	0.96	0.04	29,29,29,29	0
56	MG	1A	3441	1/1	0.96	0.14	27,27,27,27	0
56	MG	1A	3284	1/1	0.96	0.11	16,16,16,16	0
56	MG	1A	3742	1/1	0.96	0.06	29,29,29,29	0
56	MG	2a	1662	1/1	0.96	0.09	43,43,43,43	0
56	MG	2a	1663	1/1	0.96	0.10	33,33,33,33	0
56	MG	1A	3744	1/1	0.96	0.04	25,25,25,25	0
56	MG	1A	3444	1/1	0.96	0.05	25,25,25,25	0
56	MG	1a	3004	1/1	0.96	0.14	47,47,47,47	0
56	MG	1A	3749	1/1	0.96	0.11	47,47,47,47	0
56	MG	1a	3006	1/1	0.96	0.10	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3751	1/1	0.96	0.06	25,25,25,25	0
56	MG	1A	3071	1/1	0.96	0.04	17,17,17,17	0
56	MG	1A	3758	1/1	0.96	0.05	12,12,12,12	0
56	MG	1A	3153	1/1	0.96	0.04	25,25,25,25	0
56	MG	1A	3072	1/1	0.96	0.05	18,18,18,18	0
56	MG	1A	3581	1/1	0.96	0.12	20,20,20,20	0
56	MG	1A	3582	1/1	0.96	0.10	29,29,29,29	0
56	MG	1A	3584	1/1	0.96	0.14	31,31,31,31	0
56	MG	2A	3649	1/1	0.96	0.07	28,28,28,28	0
56	MG	2A	3002	1/1	0.96	0.17	35,35,35,35	0
56	MG	1A	3587	1/1	0.96	0.17	13,13,13,13	0
56	MG	1A	3588	1/1	0.96	0.12	27,27,27,27	0
56	MG	1A	4008	1/1	0.96	0.05	37,37,37,37	0
56	MG	2A	3007	1/1	0.96	0.09	27,27,27,27	0
56	MG	1A	4009	1/1	0.96	0.12	25,25,25,25	0
56	MG	1A	3363	1/1	0.96	0.07	34,34,34,34	0
56	MG	2A	3010	1/1	0.96	0.09	39,39,39,39	0
56	MG	1A	3291	1/1	0.96	0.05	23,23,23,23	0
56	MG	2a	1689	1/1	0.96	0.06	47,47,47,47	0
56	MG	1A	3101	1/1	0.96	0.13	36,36,36,36	0
56	MG	1A	3780	1/1	0.96	0.06	29,29,29,29	0
56	MG	1A	3592	1/1	0.96	0.19	33,33,33,33	0
56	MG	1A	3593	1/1	0.96	0.10	30,30,30,30	0
56	MG	2A	3020	1/1	0.96	0.19	44,44,44,44	0
56	MG	2A	3666	1/1	0.96	0.12	30,30,30,30	0
56	MG	1a	3034	1/1	0.96	0.26	42,42,42,42	0
56	MG	1a	3037	1/1	0.96	0.17	41,41,41,41	0
56	MG	1A	3594	1/1	0.96	0.18	24,24,24,24	0
56	MG	2A	3024	1/1	0.96	0.17	33,33,33,33	0
56	MG	2A	3025	1/1	0.96	0.05	38,38,38,38	0
56	MG	1A	3457	1/1	0.96	0.14	24,24,24,24	0
56	MG	1a	3043	1/1	0.96	0.12	36,36,36,36	0
56	MG	1A	3367	1/1	0.96	0.05	18,18,18,18	0
56	MG	2A	3679	1/1	0.96	0.07	51,51,51,51	0
56	MG	2A	3029	1/1	0.96	0.06	32,32,32,32	0
56	MG	1A	3597	1/1	0.96	0.04	11,11,11,11	0
56	MG	2A	3335	1/1	0.96	0.14	53,53,53,53	0
56	MG	2A	3031	1/1	0.96	0.09	26,26,26,26	0
56	MG	2a	1712	1/1	0.96	0.17	48,48,48,48	0
56	MG	1A	3022	1/1	0.96	0.10	26,26,26,26	0
56	MG	1A	3792	1/1	0.96	0.13	29,29,29,29	0
56	MG	2A	3687	1/1	0.96	0.09	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3234	1/1	0.96	0.09	35,35,35,35	0
56	MG	1A	3295	1/1	0.96	0.05	30,30,30,30	0
56	MG	1A	3796	1/1	0.96	0.08	47,47,47,47	0
56	MG	2A	3040	1/1	0.96	0.13	16,16,16,16	0
56	MG	1A	4034	1/1	0.96	0.04	44,44,44,44	0
56	MG	1A	3797	1/1	0.96	0.06	19,19,19,19	0
56	MG	1A	3798	1/1	0.96	0.05	31,31,31,31	0
56	MG	2A	3698	1/1	0.96	0.06	51,51,51,51	0
56	MG	1A	3130	1/1	0.96	0.06	21,21,21,21	0
56	MG	1A	3464	1/1	0.96	0.17	25,25,25,25	0
56	MG	1A	3801	1/1	0.96	0.08	46,46,46,46	0
56	MG	1A	3803	1/1	0.96	0.16	29,29,29,29	0
56	MG	2A	3049	1/1	0.96	0.14	54,54,54,54	0
56	MG	1A	3804	1/1	0.96	0.07	14,14,14,14	0
56	MG	1A	3604	1/1	0.96	0.17	18,18,18,18	0
56	MG	1A	4048	1/1	0.96	0.06	27,27,27,27	0
56	MG	1A	3042	1/1	0.96	0.17	14,14,14,14	0
56	MG	1A	3195	1/1	0.96	0.13	41,41,41,41	0
56	MG	1A	3007	1/1	0.96	0.05	16,16,16,16	0
56	MG	1A	3240	1/1	0.96	0.13	29,29,29,29	0
56	MG	2A	3714	1/1	0.96	0.08	38,38,38,38	0
56	MG	1A	4057	1/1	0.96	0.07	22,22,22,22	0
56	MG	2A	3060	1/1	0.96	0.06	24,24,24,24	0
56	MG	1a	3069	1/1	0.96	0.08	54,54,54,54	0
56	MG	1A	3241	1/1	0.96	0.05	32,32,32,32	0
56	MG	1A	3816	1/1	0.96	0.06	31,31,31,31	0
56	MG	1a	3072	1/1	0.96	0.11	41,41,41,41	0
56	MG	2a	1748	1/1	0.96	0.06	59,59,59,59	0
56	MG	2A	3070	1/1	0.96	0.06	27,27,27,27	0
56	MG	1A	3613	1/1	0.96	0.22	21,21,21,21	0
56	MG	1A	3197	1/1	0.96	0.05	17,17,17,17	0
56	MG	2A	3073	1/1	0.96	0.18	47,47,47,47	0
56	MG	1A	3616	1/1	0.96	0.15	19,19,19,19	0
56	MG	1A	3474	1/1	0.96	0.07	38,38,38,38	0
56	MG	1A	3161	1/1	0.96	0.07	26,26,26,26	0
56	MG	1A	3244	1/1	0.96	0.13	38,38,38,38	0
56	MG	1A	3483	1/1	0.96	0.23	33,33,33,33	0
56	MG	2A	3738	1/1	0.96	0.06	54,54,54,54	0
56	MG	2A	3377	1/1	0.96	0.09	29,29,29,29	0
56	MG	1A	3308	1/1	0.96	0.10	24,24,24,24	0
56	MG	2A	3742	1/1	0.96	0.10	40,40,40,40	0
56	MG	1A	3829	1/1	0.96	0.12	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	1768	1/1	0.96	0.10	48,48,48,48	0
56	MG	2A	3088	1/1	0.96	0.06	47,47,47,47	0
56	MG	1A	3247	1/1	0.96	0.09	19,19,19,19	0
56	MG	2a	1772	1/1	0.96	0.07	50,50,50,50	0
56	MG	1A	3627	1/1	0.96	0.06	27,27,27,27	0
56	MG	2A	3748	1/1	0.96	0.06	34,34,34,34	0
56	MG	1A	3486	1/1	0.96	0.07	24,24,24,24	0
56	MG	1A	3310	1/1	0.96	0.19	19,19,19,19	0
56	MG	1B	206	1/1	0.96	0.05	26,26,26,26	0
56	MG	1A	3391	1/1	0.96	0.04	32,32,32,32	0
56	MG	2A	3753	1/1	0.96	0.10	47,47,47,47	0
56	MG	1A	3313	1/1	0.96	0.06	31,31,31,31	0
56	MG	2A	3388	1/1	0.96	0.09	41,41,41,41	0
56	MG	1a	3091	1/1	0.96	0.17	24,24,24,24	0
56	MG	2a	1785	1/1	0.96	0.10	63,63,63,63	0
56	MG	2A	3757	1/1	0.96	0.05	19,19,19,19	0
56	MG	2A	3097	1/1	0.96	0.10	37,37,37,37	0
56	MG	1A	3634	1/1	0.96	0.16	14,14,14,14	0
56	MG	1A	3393	1/1	0.96	0.10	17,17,17,17	0
56	MG	2A	3765	1/1	0.96	0.14	62,62,62,62	0
56	MG	1B	212	1/1	0.96	0.08	26,26,26,26	0
56	MG	1A	3636	1/1	0.96	0.11	4,4,4,4	0
56	MG	2A	3102	1/1	0.96	0.09	44,44,44,44	0
56	MG	1A	3843	1/1	0.96	0.08	32,32,32,32	0
56	MG	1B	218	1/1	0.96	0.08	21,21,21,21	0
56	MG	1A	3394	1/1	0.96	0.06	31,31,31,31	0
56	MG	2a	1797	1/1	0.96	0.18	37,37,37,37	0
56	MG	1A	3106	1/1	0.96	0.12	25,25,25,25	0
56	MG	2A	3401	1/1	0.96	0.07	33,33,33,33	0
56	MG	1B	221	1/1	0.96	0.05	18,18,18,18	0
56	MG	1a	3103	1/1	0.96	0.11	37,37,37,37	0
56	MG	1A	3397	1/1	0.96	0.07	33,33,33,33	0
56	MG	2A	3111	1/1	0.96	0.14	52,52,52,52	0
56	MG	2A	3112	1/1	0.96	0.05	26,26,26,26	0
56	MG	2A	3113	1/1	0.96	0.14	36,36,36,36	0
56	MG	2A	3412	1/1	0.96	0.12	41,41,41,41	0
56	MG	1A	3645	1/1	0.96	0.07	19,19,19,19	0
56	MG	1A	3848	1/1	0.96	0.06	38,38,38,38	0
56	MG	1A	3401	1/1	0.96	0.09	38,38,38,38	0
56	MG	1A	3652	1/1	0.96	0.09	32,32,32,32	0
56	MG	1A	3164	1/1	0.96	0.06	26,26,26,26	0
56	MG	2A	3792	1/1	0.96	0.17	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3793	1/1	0.96	0.05	46,46,46,46	0
56	MG	1A	3501	1/1	0.96	0.07	29,29,29,29	0
56	MG	2a	1818	1/1	0.96	0.06	48,48,48,48	0
56	MG	1A	3854	1/1	0.96	0.16	42,42,42,42	0
56	MG	1A	3655	1/1	0.96	0.07	33,33,33,33	0
56	MG	1B	234	1/1	0.96	0.05	30,30,30,30	0
56	MG	2A	3425	1/1	0.96	0.07	34,34,34,34	0
56	MG	1A	3404	1/1	0.96	0.05	18,18,18,18	0
56	MG	1a	3115	1/1	0.96	0.14	19,19,19,19	0
56	MG	1A	3166	1/1	0.96	0.09	18,18,18,18	0
56	MG	2a	1826	1/1	0.96	0.14	43,43,43,43	0
56	MG	2A	3804	1/1	0.96	0.09	60,60,60,60	0
56	MG	2A	3805	1/1	0.96	0.06	41,41,41,41	0
56	MG	2A	3806	1/1	0.96	0.11	50,50,50,50	0
56	MG	2A	3807	1/1	0.96	0.08	46,46,46,46	0
56	MG	1A	3862	1/1	0.96	0.06	29,29,29,29	0
56	MG	2f	201	1/1	0.96	0.15	37,37,37,37	0
56	MG	2f	202	1/1	0.96	0.09	47,47,47,47	0
56	MG	2A	3431	1/1	0.96	0.20	37,37,37,37	0
56	MG	1D	305	1/1	0.96	0.17	36,36,36,36	0
56	MG	2A	3433	1/1	0.96	0.13	20,20,20,20	0
56	MG	1D	308	1/1	0.96	0.05	29,29,29,29	0
56	MG	2A	3137	1/1	0.96	0.04	24,24,24,24	0
56	MG	1D	309	1/1	0.96	0.08	30,30,30,30	0
56	MG	1E	302	1/1	0.96	0.16	30,30,30,30	0
56	MG	2A	3140	1/1	0.96	0.09	45,45,45,45	0
56	MG	2A	3440	1/1	0.96	0.06	36,36,36,36	0
56	MG	2l	204	1/1	0.96	0.09	49,49,49,49	0
56	MG	2A	3823	1/1	0.96	0.12	38,38,38,38	0
56	MG	1E	304	1/1	0.96	0.09	25,25,25,25	0
56	MG	1A	3658	1/1	0.96	0.10	28,28,28,28	0
56	MG	2A	3830	1/1	0.96	0.06	58,58,58,58	0
56	MG	1A	3253	1/1	0.96	0.05	30,30,30,30	0
56	MG	1A	3202	1/1	0.96	0.08	26,26,26,26	0
56	MG	2A	3145	1/1	0.96	0.06	42,42,42,42	0
56	MG	2A	3838	1/1	0.96	0.06	61,61,61,61	0
56	MG	1a	3127	1/1	0.96	0.07	20,20,20,20	0
56	MG	1A	3661	1/1	0.96	0.12	34,34,34,34	0
56	MG	2A	3451	1/1	0.96	0.11	37,37,37,37	0
56	MG	2x	104	1/1	0.96	0.12	42,42,42,42	0
56	MG	1A	3868	1/1	0.96	0.09	30,30,30,30	0
56	MG	2A	3149	1/1	0.96	0.14	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1E	314	1/1	0.96	0.13	29,29,29,29	0
56	MG	1A	3256	1/1	0.96	0.12	26,26,26,26	0
56	MG	2y	104	1/1	0.96	0.08	39,39,39,39	0
56	MG	1A	3065	1/1	0.96	0.16	26,26,26,26	0
56	MG	2A	3459	1/1	0.96	0.05	35,35,35,35	0
58	ZN	24	501	1/1	0.96	0.08	108,108,108,108	0
56	MG	1A	3628	1/1	0.97	0.15	19,19,19,19	0
56	MG	1A	4000	1/1	0.97	0.05	43,43,43,43	0
56	MG	2A	3235	1/1	0.97	0.10	31,31,31,31	0
56	MG	1A	4001	1/1	0.97	0.11	29,29,29,29	0
56	MG	16	103	1/1	0.97	0.05	39,39,39,39	0
56	MG	1A	3147	1/1	0.97	0.06	27,27,27,27	0
56	MG	1A	4005	1/1	0.97	0.05	28,28,28,28	0
56	MG	1A	3630	1/1	0.97	0.07	30,30,30,30	0
56	MG	1A	3252	1/1	0.97	0.13	32,32,32,32	0
56	MG	1A	3041	1/1	0.97	0.08	37,37,37,37	0
56	MG	19	102	1/1	0.97	0.08	33,33,33,33	0
56	MG	1A	4011	1/1	0.97	0.08	34,34,34,34	0
56	MG	1A	3503	1/1	0.97	0.07	21,21,21,21	0
56	MG	2A	3543	1/1	0.97	0.07	47,47,47,47	0
56	MG	1A	3150	1/1	0.97	0.07	20,20,20,20	0
56	MG	1A	3322	1/1	0.97	0.04	23,23,23,23	0
56	MG	1A	3151	1/1	0.97	0.10	23,23,23,23	0
56	MG	1A	3810	1/1	0.97	0.04	28,28,28,28	0
56	MG	1A	3639	1/1	0.97	0.06	42,42,42,42	0
56	MG	1A	3324	1/1	0.97	0.11	23,23,23,23	0
56	MG	2A	3554	1/1	0.97	0.06	45,45,45,45	0
56	MG	2A	3253	1/1	0.97	0.09	46,46,46,46	0
56	MG	1A	3059	1/1	0.97	0.08	10,10,10,10	0
56	MG	1a	3009	1/1	0.97	0.04	48,48,48,48	0
56	MG	1A	4022	1/1	0.97	0.05	34,34,34,34	0
56	MG	2E	306	1/1	0.97	0.06	40,40,40,40	0
56	MG	1A	4023	1/1	0.97	0.06	46,46,46,46	0
56	MG	1A	3413	1/1	0.97	0.08	21,21,21,21	0
56	MG	1A	3414	1/1	0.97	0.08	10,10,10,10	0
56	MG	1a	3015	1/1	0.97	0.13	28,28,28,28	0
56	MG	1A	4026	1/1	0.97	0.06	24,24,24,24	0
56	MG	2F	304	1/1	0.97	0.07	32,32,32,32	0
56	MG	1A	3514	1/1	0.97	0.04	15,15,15,15	0
56	MG	1A	3649	1/1	0.97	0.05	12,12,12,12	0
56	MG	1A	3821	1/1	0.97	0.06	31,31,31,31	0
56	MG	1A	4032	1/1	0.97	0.08	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3060	1/1	0.97	0.11	18,18,18,18	0
56	MG	2O	8400	1/1	0.97	0.05	40,40,40,40	0
56	MG	1A	3026	1/1	0.97	0.34	17,17,17,17	0
56	MG	2A	3572	1/1	0.97	0.10	34,34,34,34	0
56	MG	1A	3517	1/1	0.97	0.19	33,33,33,33	0
56	MG	2A	3004	1/1	0.97	0.06	32,32,32,32	0
56	MG	1A	3262	1/1	0.97	0.14	16,16,16,16	0
56	MG	1A	4038	1/1	0.97	0.05	30,30,30,30	0
56	MG	1A	4039	1/1	0.97	0.13	28,28,28,28	0
56	MG	2A	3274	1/1	0.97	0.14	25,25,25,25	0
56	MG	1A	3204	1/1	0.97	0.15	16,16,16,16	0
56	MG	1A	4041	1/1	0.97	0.08	43,43,43,43	0
56	MG	1a	3036	1/1	0.97	0.25	32,32,32,32	0
56	MG	1A	3264	1/1	0.97	0.08	26,26,26,26	0
56	MG	2A	3012	1/1	0.97	0.09	44,44,44,44	0
56	MG	2A	3013	1/1	0.97	0.12	41,41,41,41	0
56	MG	1A	3525	1/1	0.97	0.06	30,30,30,30	0
56	MG	2A	3015	1/1	0.97	0.12	30,30,30,30	0
56	MG	1a	3040	1/1	0.97	0.05	51,51,51,51	0
56	MG	2X	102	1/1	0.97	0.08	45,45,45,45	0
56	MG	1A	3831	1/1	0.97	0.03	22,22,22,22	0
56	MG	2O	101	1/1	0.97	0.07	50,50,50,50	0
56	MG	1a	3042	1/1	0.97	0.14	37,37,37,37	0
56	MG	1A	3266	1/1	0.97	0.15	25,25,25,25	0
56	MG	1A	3833	1/1	0.97	0.20	42,42,42,42	0
56	MG	1A	3267	1/1	0.97	0.19	33,33,33,33	0
56	MG	1a	3046	1/1	0.97	0.12	19,19,19,19	0
56	MG	23	103	1/1	0.97	0.07	44,44,44,44	0
56	MG	1A	3268	1/1	0.97	0.10	30,30,30,30	0
56	MG	1a	3048	1/1	0.97	0.07	54,54,54,54	0
56	MG	1A	4051	1/1	0.97	0.07	16,16,16,16	0
56	MG	1A	3205	1/1	0.97	0.09	20,20,20,20	0
56	MG	1A	4053	1/1	0.97	0.06	48,48,48,48	0
56	MG	2A	3296	1/1	0.97	0.04	46,46,46,46	0
56	MG	1A	3341	1/1	0.97	0.07	16,16,16,16	0
56	MG	1A	3206	1/1	0.97	0.12	16,16,16,16	0
56	MG	1A	3112	1/1	0.97	0.11	22,22,22,22	0
56	MG	1A	3063	1/1	0.97	0.11	26,26,26,26	0
56	MG	2A	3609	1/1	0.97	0.06	33,33,33,33	0
56	MG	2A	3610	1/1	0.97	0.06	54,54,54,54	0
56	MG	2A	3301	1/1	0.97	0.10	28,28,28,28	0
56	MG	2A	3302	1/1	0.97	0.04	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3536	1/1	0.97	0.07	31,31,31,31	0
56	MG	2A	3034	1/1	0.97	0.06	37,37,37,37	0
56	MG	1A	3432	1/1	0.97	0.14	21,21,21,21	0
56	MG	1A	3087	1/1	0.97	0.07	16,16,16,16	0
56	MG	1A	3671	1/1	0.97	0.05	36,36,36,36	0
56	MG	2A	3619	1/1	0.97	0.07	46,46,46,46	0
56	MG	1a	3060	1/1	0.97	0.10	48,48,48,48	0
56	MG	1A	3064	1/1	0.97	0.03	13,13,13,13	0
56	MG	1A	3674	1/1	0.97	0.05	24,24,24,24	0
56	MG	1A	4067	1/1	0.97	0.06	31,31,31,31	0
56	MG	2A	3312	1/1	0.97	0.14	32,32,32,32	0
56	MG	1A	3212	1/1	0.97	0.03	23,23,23,23	0
56	MG	1A	3349	1/1	0.97	0.09	23,23,23,23	0
56	MG	2A	3628	1/1	0.97	0.05	33,33,33,33	0
56	MG	1A	3547	1/1	0.97	0.14	9,9,9,9	0
56	MG	1A	3089	1/1	0.97	0.08	28,28,28,28	0
56	MG	1A	3549	1/1	0.97	0.12	21,21,21,21	0
56	MG	1A	3550	1/1	0.97	0.08	4,4,4,4	0
56	MG	2A	3633	1/1	0.97	0.12	41,41,41,41	0
56	MG	1A	3551	1/1	0.97	0.08	14,14,14,14	0
56	MG	2a	1628	1/1	0.97	0.05	35,35,35,35	0
56	MG	1A	3351	1/1	0.97	0.21	25,25,25,25	0
56	MG	2A	3636	1/1	0.97	0.10	49,49,49,49	0
56	MG	2A	3321	1/1	0.97	0.04	20,20,20,20	0
56	MG	1A	3858	1/1	0.97	0.07	10,10,10,10	0
56	MG	2A	3054	1/1	0.97	0.12	35,35,35,35	0
56	MG	1A	3860	1/1	0.97	0.04	25,25,25,25	0
56	MG	1A	3043	1/1	0.97	0.14	13,13,13,13	0
56	MG	1B	209	1/1	0.97	0.07	43,43,43,43	0
56	MG	1A	3118	1/1	0.97	0.06	16,16,16,16	0
56	MG	2A	3329	1/1	0.97	0.10	37,37,37,37	0
56	MG	2A	3330	1/1	0.97	0.07	47,47,47,47	0
56	MG	1A	3555	1/1	0.97	0.05	23,23,23,23	0
56	MG	1A	3865	1/1	0.97	0.14	29,29,29,29	0
56	MG	2A	3334	1/1	0.97	0.13	32,32,32,32	0
56	MG	1A	3556	1/1	0.97	0.13	10,10,10,10	0
56	MG	2A	3064	1/1	0.97	0.09	30,30,30,30	0
56	MG	2A	3067	1/1	0.97	0.13	36,36,36,36	0
56	MG	2a	1646	1/1	0.97	0.13	51,51,51,51	0
56	MG	2A	3654	1/1	0.97	0.05	30,30,30,30	0
56	MG	1A	3120	1/1	0.97	0.06	39,39,39,39	0
56	MG	1A	3442	1/1	0.97	0.07	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3870	1/1	0.97	0.19	23,23,23,23	0
56	MG	1A	3165	1/1	0.97	0.05	23,23,23,23	0
56	MG	1A	3872	1/1	0.97	0.05	13,13,13,13	0
56	MG	1A	3561	1/1	0.97	0.10	10,10,10,10	0
56	MG	1A	3695	1/1	0.97	0.07	16,16,16,16	0
56	MG	1a	3087	1/1	0.97	0.11	39,39,39,39	0
56	MG	1A	3091	1/1	0.97	0.23	17,17,17,17	0
56	MG	2A	3078	1/1	0.97	0.11	39,39,39,39	0
56	MG	2a	1660	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3445	1/1	0.97	0.07	32,32,32,32	0
56	MG	2A	3083	1/1	0.97	0.12	44,44,44,44	0
56	MG	1A	3699	1/1	0.97	0.06	38,38,38,38	0
56	MG	1B	229	1/1	0.97	0.05	28,28,28,28	0
56	MG	1A	3879	1/1	0.97	0.06	16,16,16,16	0
56	MG	2A	3672	1/1	0.97	0.05	42,42,42,42	0
56	MG	2a	1668	1/1	0.97	0.04	48,48,48,48	0
56	MG	2A	3673	1/1	0.97	0.06	27,27,27,27	0
56	MG	2A	3354	1/1	0.97	0.05	41,41,41,41	0
56	MG	2a	1671	1/1	0.97	0.10	46,46,46,46	0
56	MG	1A	3357	1/1	0.97	0.05	17,17,17,17	0
56	MG	1A	3027	1/1	0.97	0.04	16,16,16,16	0
56	MG	1A	3883	1/1	0.97	0.06	30,30,30,30	0
56	MG	1a	3097	1/1	0.97	0.21	34,34,34,34	0
56	MG	1a	3098	1/1	0.97	0.12	38,38,38,38	0
56	MG	1A	3451	1/1	0.97	0.07	16,16,16,16	0
56	MG	1A	3285	1/1	0.97	0.04	24,24,24,24	0
56	MG	2A	3683	1/1	0.97	0.08	53,53,53,53	0
56	MG	1A	3127	1/1	0.97	0.12	23,23,23,23	0
56	MG	1A	3887	1/1	0.97	0.05	21,21,21,21	0
56	MG	1D	303	1/1	0.97	0.05	25,25,25,25	0
56	MG	1A	3705	1/1	0.97	0.07	15,15,15,15	0
56	MG	1D	306	1/1	0.97	0.05	22,22,22,22	0
56	MG	1D	307	1/1	0.97	0.24	24,24,24,24	0
56	MG	1A	3015	1/1	0.97	0.04	31,31,31,31	0
56	MG	1A	3571	1/1	0.97	0.17	23,23,23,23	0
56	MG	1D	310	1/1	0.97	0.20	18,18,18,18	0
56	MG	1D	312	1/1	0.97	0.09	36,36,36,36	0
56	MG	1E	301	1/1	0.97	0.05	25,25,25,25	0
56	MG	2a	1691	1/1	0.97	0.11	44,44,44,44	0
56	MG	1A	3572	1/1	0.97	0.17	36,36,36,36	0
56	MG	2a	1693	1/1	0.97	0.07	40,40,40,40	0
56	MG	1E	303	1/1	0.97	0.10	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3455	1/1	0.97	0.06	28,28,28,28	0
56	MG	1A	3008	1/1	0.97	0.08	16,16,16,16	0
56	MG	1A	3575	1/1	0.97	0.07	23,23,23,23	0
56	MG	2A	3704	1/1	0.97	0.08	33,33,33,33	0
56	MG	1A	3290	1/1	0.97	0.08	12,12,12,12	0
56	MG	1E	309	1/1	0.97	0.07	26,26,26,26	0
56	MG	1A	3131	1/1	0.97	0.06	16,16,16,16	0
56	MG	1A	3009	1/1	0.97	0.08	16,16,16,16	0
56	MG	1E	312	1/1	0.97	0.08	26,26,26,26	0
56	MG	2A	3117	1/1	0.97	0.12	38,38,38,38	0
56	MG	1A	3900	1/1	0.97	0.05	34,34,34,34	0
56	MG	1A	3901	1/1	0.97	0.07	32,32,32,32	0
56	MG	1A	3018	1/1	0.97	0.06	17,17,17,17	0
56	MG	1A	3232	1/1	0.97	0.08	20,20,20,20	0
56	MG	1A	3583	1/1	0.97	0.19	23,23,23,23	0
56	MG	2A	3123	1/1	0.97	0.05	34,34,34,34	0
56	MG	1A	3723	1/1	0.97	0.14	26,26,26,26	0
56	MG	2A	3125	1/1	0.97	0.12	44,44,44,44	0
56	MG	1A	3462	1/1	0.97	0.21	38,38,38,38	0
56	MG	2A	3722	1/1	0.97	0.05	39,39,39,39	0
56	MG	1A	3373	1/1	0.97	0.07	20,20,20,20	0
56	MG	1F	309	1/1	0.97	0.10	21,21,21,21	0
56	MG	1A	3726	1/1	0.97	0.07	32,32,32,32	0
56	MG	2A	3130	1/1	0.97	0.06	28,28,28,28	0
56	MG	1A	3233	1/1	0.97	0.06	27,27,27,27	0
56	MG	2A	3132	1/1	0.97	0.13	40,40,40,40	0
56	MG	2A	3730	1/1	0.97	0.10	48,48,48,48	0
56	MG	2A	3402	1/1	0.97	0.19	42,42,42,42	0
56	MG	2A	3134	1/1	0.97	0.04	37,37,37,37	0
56	MG	2A	3734	1/1	0.97	0.08	20,20,20,20	0
56	MG	2A	3135	1/1	0.97	0.11	47,47,47,47	0
56	MG	1A	3914	1/1	0.97	0.14	44,44,44,44	0
56	MG	2a	1728	1/1	0.97	0.10	46,46,46,46	0
56	MG	2A	3739	1/1	0.97	0.16	34,34,34,34	0
56	MG	1F	313	1/1	0.97	0.12	20,20,20,20	0
56	MG	2A	3407	1/1	0.97	0.11	47,47,47,47	0
56	MG	1A	3915	1/1	0.97	0.08	29,29,29,29	0
56	MG	1A	3465	1/1	0.97	0.14	34,34,34,34	0
56	MG	2A	3411	1/1	0.97	0.08	28,28,28,28	0
56	MG	1A	3097	1/1	0.97	0.10	31,31,31,31	0
56	MG	2A	3413	1/1	0.97	0.12	39,39,39,39	0
56	MG	1A	3377	1/1	0.97	0.15	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3415	1/1	0.97	0.14	34,34,34,34	0
56	MG	1N	202	1/1	0.97	0.05	27,27,27,27	0
56	MG	1A	3378	1/1	0.97	0.16	35,35,35,35	0
56	MG	2a	1741	1/1	0.97	0.07	55,55,55,55	0
56	MG	1A	3019	1/1	0.97	0.12	26,26,26,26	0
56	MG	1A	3736	1/1	0.97	0.09	17,17,17,17	0
56	MG	1A	3038	1/1	0.97	0.04	27,27,27,27	0
56	MG	2A	3421	1/1	0.97	0.07	22,22,22,22	0
56	MG	1P	201	1/1	0.97	0.17	20,20,20,20	0
56	MG	1A	3077	1/1	0.97	0.14	10,10,10,10	0
56	MG	1A	3932	1/1	0.97	0.07	37,37,37,37	0
56	MG	1P	205	1/1	0.97	0.04	15,15,15,15	0
56	MG	2a	1753	1/1	0.97	0.06	51,51,51,51	0
56	MG	2A	3151	1/1	0.97	0.06	43,43,43,43	0
56	MG	2A	3764	1/1	0.97	0.12	54,54,54,54	0
56	MG	2A	3152	1/1	0.97	0.06	42,42,42,42	0
56	MG	1A	3183	1/1	0.97	0.05	26,26,26,26	0
56	MG	2A	3767	1/1	0.97	0.06	43,43,43,43	0
56	MG	1A	3475	1/1	0.97	0.06	32,32,32,32	0
56	MG	1a	3155	1/1	0.97	0.08	29,29,29,29	0
56	MG	1A	3476	1/1	0.97	0.14	26,26,26,26	0
56	MG	1Q	203	1/1	0.97	0.05	20,20,20,20	0
56	MG	2a	1765	1/1	0.97	0.05	45,45,45,45	0
56	MG	2A	3772	1/1	0.97	0.06	55,55,55,55	0
56	MG	2a	1767	1/1	0.97	0.04	47,47,47,47	0
56	MG	1A	3747	1/1	0.97	0.14	35,35,35,35	0
56	MG	1A	3599	1/1	0.97	0.08	25,25,25,25	0
56	MG	1A	3477	1/1	0.97	0.04	22,22,22,22	0
56	MG	2a	1771	1/1	0.97	0.08	44,44,44,44	0
56	MG	1Q	207	1/1	0.97	0.05	25,25,25,25	0
56	MG	2A	3438	1/1	0.97	0.13	32,32,32,32	0
56	MG	1A	3750	1/1	0.97	0.11	43,43,43,43	0
56	MG	2a	1775	1/1	0.97	0.06	49,49,49,49	0
56	MG	1A	3478	1/1	0.97	0.15	22,22,22,22	0
56	MG	1A	3239	1/1	0.97	0.12	9,9,9,9	0
56	MG	2A	3443	1/1	0.97	0.08	34,34,34,34	0
56	MG	2A	3444	1/1	0.97	0.13	36,36,36,36	0
56	MG	1A	3753	1/1	0.97	0.11	23,23,23,23	0
56	MG	1a	3169	1/1	0.97	0.12	35,35,35,35	0
56	MG	2a	1782	1/1	0.97	0.06	40,40,40,40	0
56	MG	2A	3167	1/1	0.97	0.06	51,51,51,51	0
56	MG	2A	3168	1/1	0.97	0.06	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3790	1/1	0.97	0.10	48,48,48,48	0
56	MG	2A	3169	1/1	0.97	0.05	35,35,35,35	0
56	MG	1A	3756	1/1	0.97	0.08	31,31,31,31	0
56	MG	1A	3303	1/1	0.97	0.07	25,25,25,25	0
56	MG	1U	201	1/1	0.97	0.12	20,20,20,20	0
56	MG	1A	3760	1/1	0.97	0.05	14,14,14,14	0
56	MG	2A	3175	1/1	0.97	0.11	28,28,28,28	0
56	MG	1A	3481	1/1	0.97	0.10	26,26,26,26	0
56	MG	1A	3141	1/1	0.97	0.08	15,15,15,15	0
56	MG	1A	3954	1/1	0.97	0.06	31,31,31,31	0
56	MG	2A	3800	1/1	0.97	0.05	47,47,47,47	0
56	MG	1A	3764	1/1	0.97	0.06	20,20,20,20	0
56	MG	2A	3802	1/1	0.97	0.04	54,54,54,54	0
56	MG	1A	3606	1/1	0.97	0.17	32,32,32,32	0
56	MG	2A	3181	1/1	0.97	0.10	21,21,21,21	0
56	MG	1a	3181	1/1	0.97	0.05	39,39,39,39	0
56	MG	1U	209	1/1	0.97	0.11	18,18,18,18	0
56	MG	1A	3078	1/1	0.97	0.20	30,30,30,30	0
56	MG	1A	3306	1/1	0.97	0.07	27,27,27,27	0
56	MG	1A	3010	1/1	0.97	0.13	21,21,21,21	0
56	MG	1A	3962	1/1	0.97	0.08	38,38,38,38	0
56	MG	2A	3814	1/1	0.97	0.05	30,30,30,30	0
56	MG	1A	3187	1/1	0.97	0.21	19,19,19,19	0
56	MG	1A	3611	1/1	0.97	0.15	36,36,36,36	0
56	MG	2a	1810	1/1	0.97	0.08	50,50,50,50	0
56	MG	1A	3612	1/1	0.97	0.18	26,26,26,26	0
56	MG	2A	3474	1/1	0.97	0.17	38,38,38,38	0
56	MG	1W	202	1/1	0.97	0.05	18,18,18,18	0
56	MG	1a	3192	1/1	0.97	0.07	42,42,42,42	0
56	MG	1a	3194	1/1	0.97	0.05	58,58,58,58	0
56	MG	1A	3188	1/1	0.97	0.06	19,19,19,19	0
56	MG	1A	3968	1/1	0.97	0.08	20,20,20,20	0
56	MG	1A	3491	1/1	0.97	0.12	24,24,24,24	0
56	MG	2A	3829	1/1	0.97	0.04	42,42,42,42	0
56	MG	1W	207	1/1	0.97	0.08	4,4,4,4	0
56	MG	2A	3831	1/1	0.97	0.05	68,68,68,68	0
56	MG	1A	3615	1/1	0.97	0.06	31,31,31,31	0
56	MG	1X	102	1/1	0.97	0.06	29,29,29,29	0
56	MG	1A	3245	1/1	0.97	0.14	22,22,22,22	0
56	MG	2A	3487	1/1	0.97	0.08	49,49,49,49	0
56	MG	1X	105	1/1	0.97	0.07	20,20,20,20	0
56	MG	1A	3973	1/1	0.97	0.08	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3841	1/1	0.97	0.06	39,39,39,39	0
56	MG	1Z	301	1/1	0.97	0.05	32,32,32,32	0
56	MG	1A	3617	1/1	0.97	0.19	18,18,18,18	0
56	MG	2e	201	1/1	0.97	0.07	52,52,52,52	0
56	MG	2A	3492	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3786	1/1	0.97	0.06	16,16,16,16	0
56	MG	1a	3210	1/1	0.97	0.07	61,61,61,61	0
56	MG	2A	3849	1/1	0.97	0.05	30,30,30,30	0
56	MG	1a	3214	1/1	0.97	0.05	49,49,49,49	0
56	MG	2A	3209	1/1	0.97	0.18	38,38,38,38	0
56	MG	2A	3210	1/1	0.97	0.06	23,23,23,23	0
56	MG	1A	3977	1/1	0.97	0.06	27,27,27,27	0
56	MG	1A	3618	1/1	0.97	0.18	16,16,16,16	0
56	MG	1A	3980	1/1	0.97	0.07	18,18,18,18	0
56	MG	1A	3246	1/1	0.97	0.24	22,22,22,22	0
56	MG	2A	3215	1/1	0.97	0.08	31,31,31,31	0
56	MG	1A	3144	1/1	0.97	0.13	23,23,23,23	0
56	MG	1A	3495	1/1	0.97	0.07	29,29,29,29	0
56	MG	2A	3507	1/1	0.97	0.05	29,29,29,29	0
56	MG	2A	3508	1/1	0.97	0.05	43,43,43,43	0
56	MG	2q	203	1/1	0.97	0.07	41,41,41,41	0
56	MG	1A	3986	1/1	0.97	0.05	35,35,35,35	0
56	MG	2t	201	1/1	0.97	0.16	29,29,29,29	0
56	MG	2A	3865	1/1	0.97	0.10	28,28,28,28	0
56	MG	1l	101	1/1	0.97	0.07	39,39,39,39	0
56	MG	1a	3225	1/1	0.97	0.09	41,41,41,41	0
56	MG	1A	3990	1/1	0.97	0.07	43,43,43,43	0
56	MG	13	103	1/1	0.97	0.19	26,26,26,26	0
56	MG	1A	3496	1/1	0.97	0.05	28,28,28,28	0
56	MG	1a	3229	1/1	0.97	0.12	41,41,41,41	0
56	MG	1A	3623	1/1	0.97	0.05	20,20,20,20	0
56	MG	2A	3519	1/1	0.97	0.03	19,19,19,19	0
56	MG	1A	3794	1/1	0.97	0.07	12,12,12,12	0
56	MG	1A	3398	1/1	0.97	0.14	33,33,33,33	0
56	MG	1A	3014	1/1	0.97	0.17	32,32,32,32	0
56	MG	1A	3146	1/1	0.97	0.06	26,26,26,26	0
56	MG	2A	3526	1/1	0.97	0.08	42,42,42,42	0
58	ZN	14	102	1/1	0.97	0.05	99,99,99,99	0
56	MG	1A	3998	1/1	0.97	0.07	26,26,26,26	0
56	MG	1A	3399	1/1	0.98	0.10	16,16,16,16	0
56	MG	2A	3194	1/1	0.98	0.07	38,38,38,38	0
56	MG	2A	3669	1/1	0.98	0.05	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3945	1/1	0.98	0.08	31,31,31,31	0
56	MG	1A	3400	1/1	0.98	0.10	21,21,21,21	0
56	MG	1A	3011	1/1	0.98	0.07	25,25,25,25	0
56	MG	27	101	1/1	0.98	0.08	32,32,32,32	0
56	MG	1A	3669	1/1	0.98	0.10	19,19,19,19	0
56	MG	1A	3402	1/1	0.98	0.12	12,12,12,12	0
56	MG	2A	3675	1/1	0.98	0.03	37,37,37,37	0
56	MG	1D	311	1/1	0.98	0.08	16,16,16,16	0
56	MG	1A	3802	1/1	0.98	0.13	28,28,28,28	0
56	MG	1D	313	1/1	0.98	0.05	17,17,17,17	0
56	MG	1A	3278	1/1	0.98	0.04	16,16,16,16	0
56	MG	1A	3672	1/1	0.98	0.04	20,20,20,20	0
56	MG	1A	3955	1/1	0.98	0.08	23,23,23,23	0
56	MG	1A	3189	1/1	0.98	0.10	18,18,18,18	0
56	MG	1A	3280	1/1	0.98	0.10	28,28,28,28	0
56	MG	1x	113	1/1	0.98	0.04	42,42,42,42	0
56	MG	1A	3958	1/1	0.98	0.04	63,63,63,63	0
56	MG	1A	3191	1/1	0.98	0.07	30,30,30,30	0
56	MG	1E	308	1/1	0.98	0.10	26,26,26,26	0
56	MG	1A	3192	1/1	0.98	0.16	23,23,23,23	0
56	MG	1A	3811	1/1	0.98	0.03	20,20,20,20	0
56	MG	2A	3690	1/1	0.98	0.07	35,35,35,35	0
56	MG	1A	3576	1/1	0.98	0.06	28,28,28,28	0
56	MG	1A	3340	1/1	0.98	0.09	23,23,23,23	0
56	MG	1A	3679	1/1	0.98	0.04	10,10,10,10	0
56	MG	1E	315	1/1	0.98	0.05	23,23,23,23	0
56	MG	2A	3696	1/1	0.98	0.06	34,34,34,34	0
56	MG	1A	3578	1/1	0.98	0.03	12,12,12,12	0
56	MG	2A	3441	1/1	0.98	0.06	41,41,41,41	0
56	MG	1A	3128	1/1	0.98	0.09	17,17,17,17	0
56	MG	1A	3487	1/1	0.98	0.13	14,14,14,14	0
56	MG	2A	3221	1/1	0.98	0.13	51,51,51,51	0
56	MG	2A	3702	1/1	0.98	0.05	29,29,29,29	0
56	MG	1A	3194	1/1	0.98	0.13	28,28,28,28	0
56	MG	1A	3157	1/1	0.98	0.06	36,36,36,36	0
56	MG	2A	3224	1/1	0.98	0.18	45,45,45,45	0
56	MG	1F	306	1/1	0.98	0.09	42,42,42,42	0
56	MG	1A	3344	1/1	0.98	0.05	21,21,21,21	0
56	MG	1A	3020	1/1	0.98	0.05	21,21,21,21	0
56	MG	1A	3585	1/1	0.98	0.19	25,25,25,25	0
56	MG	1A	3825	1/1	0.98	0.04	30,30,30,30	0
56	MG	1A	3586	1/1	0.98	0.19	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3454	1/1	0.98	0.13	31,31,31,31	0
56	MG	1A	3021	1/1	0.98	0.08	16,16,16,16	0
56	MG	2A	3017	1/1	0.98	0.08	30,30,30,30	0
56	MG	1A	3828	1/1	0.98	0.08	30,30,30,30	0
56	MG	2A	3458	1/1	0.98	0.11	60,60,60,60	0
56	MG	1A	3029	1/1	0.98	0.08	11,11,11,11	0
56	MG	1A	3417	1/1	0.98	0.05	18,18,18,18	0
56	MG	2A	3461	1/1	0.98	0.20	29,29,29,29	0
56	MG	2A	3721	1/1	0.98	0.04	43,43,43,43	0
56	MG	1G	202	1/1	0.98	0.11	19,19,19,19	0
56	MG	1A	3418	1/1	0.98	0.13	25,25,25,25	0
56	MG	2A	3238	1/1	0.98	0.05	50,50,50,50	0
56	MG	1I	201	1/1	0.98	0.03	36,36,36,36	0
56	MG	1A	3105	1/1	0.98	0.11	11,11,11,11	0
56	MG	1A	3987	1/1	0.98	0.05	16,16,16,16	0
56	MG	1a	3089	1/1	0.98	0.10	33,33,33,33	0
56	MG	1A	3988	1/1	0.98	0.08	20,20,20,20	0
56	MG	1A	3162	1/1	0.98	0.11	18,18,18,18	0
56	MG	1A	3991	1/1	0.98	0.06	24,24,24,24	0
56	MG	1A	3834	1/1	0.98	0.06	20,20,20,20	0
56	MG	2a	1658	1/1	0.98	0.09	30,30,30,30	0
56	MG	2A	3735	1/1	0.98	0.05	28,28,28,28	0
56	MG	1A	3698	1/1	0.98	0.10	41,41,41,41	0
56	MG	2a	1661	1/1	0.98	0.04	51,51,51,51	0
56	MG	1A	3068	1/1	0.98	0.09	22,22,22,22	0
56	MG	1A	3069	1/1	0.98	0.17	33,33,33,33	0
56	MG	1P	204	1/1	0.98	0.05	18,18,18,18	0
56	MG	1A	3838	1/1	0.98	0.03	27,27,27,27	0
56	MG	2A	3037	1/1	0.98	0.12	48,48,48,48	0
56	MG	1A	3135	1/1	0.98	0.05	27,27,27,27	0
56	MG	1A	3070	1/1	0.98	0.13	23,23,23,23	0
56	MG	2A	3482	1/1	0.98	0.05	40,40,40,40	0
56	MG	1A	3030	1/1	0.98	0.07	17,17,17,17	0
56	MG	1Q	201	1/1	0.98	0.11	30,30,30,30	0
56	MG	2A	3257	1/1	0.98	0.04	30,30,30,30	0
56	MG	1Q	202	1/1	0.98	0.11	16,16,16,16	0
56	MG	2A	3043	1/1	0.98	0.06	35,35,35,35	0
56	MG	1A	3504	1/1	0.98	0.04	24,24,24,24	0
56	MG	1A	3055	1/1	0.98	0.05	19,19,19,19	0
56	MG	1A	3207	1/1	0.98	0.15	22,22,22,22	0
56	MG	1A	3707	1/1	0.98	0.05	4,4,4,4	0
56	MG	2A	3493	1/1	0.98	0.12	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3494	1/1	0.98	0.06	42,42,42,42	0
56	MG	1A	3250	1/1	0.98	0.13	31,31,31,31	0
56	MG	2A	3759	1/1	0.98	0.07	39,39,39,39	0
56	MG	2A	3760	1/1	0.98	0.09	35,35,35,35	0
56	MG	1A	3429	1/1	0.98	0.08	27,27,27,27	0
56	MG	1R	201	1/1	0.98	0.04	26,26,26,26	0
56	MG	2A	3763	1/1	0.98	0.04	41,41,41,41	0
56	MG	1A	3359	1/1	0.98	0.17	30,30,30,30	0
56	MG	1A	3431	1/1	0.98	0.14	24,24,24,24	0
56	MG	1A	3511	1/1	0.98	0.06	21,21,21,21	0
56	MG	1A	4013	1/1	0.98	0.04	40,40,40,40	0
56	MG	1A	3512	1/1	0.98	0.04	13,13,13,13	0
56	MG	1A	3852	1/1	0.98	0.10	13,13,13,13	0
56	MG	1A	3001	1/1	0.98	0.14	35,35,35,35	0
56	MG	1A	3716	1/1	0.98	0.05	26,26,26,26	0
56	MG	1A	4018	1/1	0.98	0.07	10,10,10,10	0
56	MG	1A	3717	1/1	0.98	0.09	17,17,17,17	0
56	MG	1A	3006	1/1	0.98	0.04	7,7,7,7	0
56	MG	1a	3122	1/1	0.98	0.23	36,36,36,36	0
56	MG	2A	3065	1/1	0.98	0.11	37,37,37,37	0
56	MG	2A	3066	1/1	0.98	0.06	28,28,28,28	0
56	MG	1U	207	1/1	0.98	0.24	24,24,24,24	0
56	MG	1A	3302	1/1	0.98	0.04	21,21,21,21	0
56	MG	2A	3283	1/1	0.98	0.10	32,32,32,32	0
56	MG	2A	3782	1/1	0.98	0.05	53,53,53,53	0
56	MG	2A	3783	1/1	0.98	0.05	53,53,53,53	0
56	MG	2A	3516	1/1	0.98	0.05	36,36,36,36	0
56	MG	1A	3171	1/1	0.98	0.08	10,10,10,10	0
56	MG	1A	3254	1/1	0.98	0.10	10,10,10,10	0
56	MG	1A	3861	1/1	0.98	0.07	29,29,29,29	0
56	MG	1A	3722	1/1	0.98	0.03	16,16,16,16	0
56	MG	1V	205	1/1	0.98	0.14	19,19,19,19	0
56	MG	2A	3522	1/1	0.98	0.06	51,51,51,51	0
56	MG	1A	3366	1/1	0.98	0.05	29,29,29,29	0
56	MG	2A	3524	1/1	0.98	0.04	31,31,31,31	0
56	MG	2A	3075	1/1	0.98	0.06	38,38,38,38	0
56	MG	1A	3519	1/1	0.98	0.17	20,20,20,20	0
56	MG	1A	3520	1/1	0.98	0.15	22,22,22,22	0
56	MG	1A	3058	1/1	0.98	0.06	26,26,26,26	0
56	MG	2A	3079	1/1	0.98	0.03	23,23,23,23	0
56	MG	1A	4030	1/1	0.98	0.06	20,20,20,20	0
56	MG	2A	3532	1/1	0.98	0.04	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3081	1/1	0.98	0.06	33,33,33,33	0
56	MG	2A	3082	1/1	0.98	0.19	38,38,38,38	0
56	MG	1A	4031	1/1	0.98	0.06	21,21,21,21	0
56	MG	2A	3084	1/1	0.98	0.06	45,45,45,45	0
56	MG	1W	204	1/1	0.98	0.04	25,25,25,25	0
56	MG	1A	3522	1/1	0.98	0.04	21,21,21,21	0
56	MG	1A	3025	1/1	0.98	0.15	13,13,13,13	0
56	MG	1A	3869	1/1	0.98	0.17	31,31,31,31	0
56	MG	1A	3034	1/1	0.98	0.05	15,15,15,15	0
56	MG	1X	101	1/1	0.98	0.07	28,28,28,28	0
56	MG	1A	3176	1/1	0.98	0.05	22,22,22,22	0
56	MG	2A	3813	1/1	0.98	0.04	25,25,25,25	0
56	MG	1X	103	1/1	0.98	0.03	26,26,26,26	0
56	MG	2A	3545	1/1	0.98	0.04	32,32,32,32	0
56	MG	1A	3371	1/1	0.98	0.11	10,10,10,10	0
56	MG	2A	3548	1/1	0.98	0.05	32,32,32,32	0
56	MG	1a	3145	1/1	0.98	0.10	32,32,32,32	0
56	MG	2A	3550	1/1	0.98	0.06	37,37,37,37	0
56	MG	1a	3146	1/1	0.98	0.13	38,38,38,38	0
56	MG	2a	1742	1/1	0.98	0.06	60,60,60,60	0
56	MG	1A	3259	1/1	0.98	0.04	20,20,20,20	0
56	MG	2a	1744	1/1	0.98	0.07	65,65,65,65	0
56	MG	1A	3734	1/1	0.98	0.08	30,30,30,30	0
56	MG	2A	3824	1/1	0.98	0.05	37,37,37,37	0
56	MG	2a	1747	1/1	0.98	0.03	67,67,67,67	0
56	MG	1A	3215	1/1	0.98	0.05	16,16,16,16	0
56	MG	1a	3150	1/1	0.98	0.05	43,43,43,43	0
56	MG	1A	4042	1/1	0.98	0.05	31,31,31,31	0
56	MG	1A	3876	1/1	0.98	0.09	56,56,56,56	0
56	MG	1A	3531	1/1	0.98	0.12	25,25,25,25	0
56	MG	2A	3832	1/1	0.98	0.05	35,35,35,35	0
56	MG	1A	3311	1/1	0.98	0.17	28,28,28,28	0
56	MG	1a	3156	1/1	0.98	0.06	34,34,34,34	0
56	MG	1A	3375	1/1	0.98	0.15	37,37,37,37	0
56	MG	2a	1757	1/1	0.98	0.04	54,54,54,54	0
56	MG	2A	3106	1/1	0.98	0.09	35,35,35,35	0
56	MG	2A	3322	1/1	0.98	0.07	45,45,45,45	0
56	MG	2A	3564	1/1	0.98	0.06	36,36,36,36	0
56	MG	2A	3565	1/1	0.98	0.04	25,25,25,25	0
56	MG	1A	3741	1/1	0.98	0.05	51,51,51,51	0
56	MG	1A	3447	1/1	0.98	0.07	23,23,23,23	0
56	MG	2a	1764	1/1	0.98	0.05	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3844	1/1	0.98	0.05	58,58,58,58	0
56	MG	1A	3448	1/1	0.98	0.11	30,30,30,30	0
56	MG	1A	4050	1/1	0.98	0.08	38,38,38,38	0
56	MG	1A	3261	1/1	0.98	0.19	31,31,31,31	0
56	MG	2A	3848	1/1	0.98	0.03	55,55,55,55	0
56	MG	1A	3061	1/1	0.98	0.07	5,5,5,5	0
56	MG	12	102	1/1	0.98	0.22	28,28,28,28	0
56	MG	13	101	1/1	0.98	0.12	36,36,36,36	0
56	MG	2A	3852	1/1	0.98	0.03	24,24,24,24	0
56	MG	2A	3331	1/1	0.98	0.07	28,28,28,28	0
56	MG	1A	3119	1/1	0.98	0.13	11,11,11,11	0
56	MG	1a	3168	1/1	0.98	0.07	47,47,47,47	0
56	MG	1A	4054	1/1	0.98	0.05	24,24,24,24	0
56	MG	1A	3219	1/1	0.98	0.15	28,28,28,28	0
56	MG	1A	3098	1/1	0.98	0.04	16,16,16,16	0
56	MG	1A	3542	1/1	0.98	0.07	31,31,31,31	0
56	MG	15	102	1/1	0.98	0.04	10,10,10,10	0
56	MG	1A	3544	1/1	0.98	0.05	13,13,13,13	0
56	MG	1A	3754	1/1	0.98	0.04	35,35,35,35	0
56	MG	1a	3177	1/1	0.98	0.04	37,37,37,37	0
56	MG	15	105	1/1	0.98	0.15	13,13,13,13	0
56	MG	2A	3866	1/1	0.98	0.04	37,37,37,37	0
56	MG	1A	4060	1/1	0.98	0.05	24,24,24,24	0
56	MG	2A	3589	1/1	0.98	0.08	38,38,38,38	0
56	MG	1A	3545	1/1	0.98	0.04	30,30,30,30	0
56	MG	1A	3757	1/1	0.98	0.09	9,9,9,9	0
56	MG	2A	3592	1/1	0.98	0.05	35,35,35,35	0
56	MG	2A	3872	1/1	0.98	0.15	42,42,42,42	0
56	MG	1A	3894	1/1	0.98	0.07	27,27,27,27	0
56	MG	1A	3637	1/1	0.98	0.05	34,34,34,34	0
56	MG	1a	3184	1/1	0.98	0.07	49,49,49,49	0
56	MG	1A	3638	1/1	0.98	0.06	30,30,30,30	0
56	MG	1A	3381	1/1	0.98	0.04	23,23,23,23	0
56	MG	1A	3762	1/1	0.98	0.04	37,37,37,37	0
56	MG	2A	3352	1/1	0.98	0.10	9,9,9,9	0
56	MG	17	104	1/1	0.98	0.05	26,26,26,26	0
56	MG	1A	3899	1/1	0.98	0.03	23,23,23,23	0
56	MG	18	101	1/1	0.98	0.14	36,36,36,36	0
56	MG	18	102	1/1	0.98	0.05	20,20,20,20	0
56	MG	1A	3221	1/1	0.98	0.11	19,19,19,19	0
56	MG	1a	3193	1/1	0.98	0.04	57,57,57,57	0
56	MG	1A	3383	1/1	0.98	0.04	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3642	1/1	0.98	0.05	17,17,17,17	0
56	MG	1a	3196	1/1	0.98	0.06	38,38,38,38	0
56	MG	1A	3766	1/1	0.98	0.04	22,22,22,22	0
56	MG	1A	3643	1/1	0.98	0.05	15,15,15,15	0
56	MG	2A	3612	1/1	0.98	0.05	40,40,40,40	0
56	MG	1B	203	1/1	0.98	0.17	32,32,32,32	0
56	MG	2a	1814	1/1	0.98	0.12	26,26,26,26	0
56	MG	1a	3200	1/1	0.98	0.04	53,53,53,53	0
56	MG	1B	204	1/1	0.98	0.11	30,30,30,30	0
56	MG	1A	3149	1/1	0.98	0.16	19,19,19,19	0
56	MG	2A	3368	1/1	0.98	0.04	30,30,30,30	0
56	MG	1A	3771	1/1	0.98	0.05	30,30,30,30	0
56	MG	2A	3370	1/1	0.98	0.05	35,35,35,35	0
56	MG	1A	3385	1/1	0.98	0.08	29,29,29,29	0
56	MG	2A	3621	1/1	0.98	0.03	31,31,31,31	0
56	MG	1A	3910	1/1	0.98	0.04	58,58,58,58	0
56	MG	1A	3646	1/1	0.98	0.04	28,28,28,28	0
56	MG	1A	3182	1/1	0.98	0.05	22,22,22,22	0
56	MG	1A	3913	1/1	0.98	0.05	38,38,38,38	0
56	MG	1a	3012	1/1	0.98	0.08	49,49,49,49	0
56	MG	2a	1828	1/1	0.98	0.08	37,37,37,37	0
56	MG	1a	3213	1/1	0.98	0.05	66,66,66,66	0
56	MG	1A	3648	1/1	0.98	0.03	18,18,18,18	0
56	MG	2a	1831	1/1	0.98	0.19	39,39,39,39	0
56	MG	1A	3035	1/1	0.98	0.09	20,20,20,20	0
56	MG	1B	215	1/1	0.98	0.06	29,29,29,29	0
56	MG	2d	301	1/1	0.98	0.07	51,51,51,51	0
56	MG	1A	3779	1/1	0.98	0.09	15,15,15,15	0
56	MG	1a	3017	1/1	0.98	0.14	26,26,26,26	0
56	MG	1a	3219	1/1	0.98	0.04	61,61,61,61	0
56	MG	1A	3123	1/1	0.98	0.06	6,6,6,6	0
56	MG	1A	3919	1/1	0.98	0.04	38,38,38,38	0
56	MG	1A	3920	1/1	0.98	0.04	31,31,31,31	0
56	MG	1a	3021	1/1	0.98	0.14	47,47,47,47	0
56	MG	2A	3638	1/1	0.98	0.08	36,36,36,36	0
56	MG	1a	3022	1/1	0.98	0.07	22,22,22,22	0
56	MG	1A	3921	1/1	0.98	0.06	14,14,14,14	0
56	MG	2A	3641	1/1	0.98	0.07	49,49,49,49	0
56	MG	1A	3047	1/1	0.98	0.08	6,6,6,6	0
56	MG	2A	3172	1/1	0.98	0.05	33,33,33,33	0
56	MG	1A	3125	1/1	0.98	0.43	25,25,25,25	0
56	MG	1a	3028	1/1	0.98	0.17	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3394	1/1	0.98	0.05	50,50,50,50	0
56	MG	1B	224	1/1	0.98	0.07	36,36,36,36	0
56	MG	1A	3126	1/1	0.98	0.16	18,18,18,18	0
56	MG	1A	3784	1/1	0.98	0.03	28,28,28,28	0
56	MG	1A	3785	1/1	0.98	0.07	14,14,14,14	0
56	MG	1f	201	1/1	0.98	0.14	36,36,36,36	0
56	MG	1A	3466	1/1	0.98	0.09	23,23,23,23	0
56	MG	1A	3327	1/1	0.98	0.13	31,31,31,31	0
56	MG	1a	3035	1/1	0.98	0.07	32,32,32,32	0
56	MG	2U	202	1/1	0.98	0.05	48,48,48,48	0
56	MG	1A	3328	1/1	0.98	0.06	21,21,21,21	0
56	MG	1A	3560	1/1	0.98	0.09	11,11,11,11	0
56	MG	1A	3229	1/1	0.98	0.05	29,29,29,29	0
56	MG	1a	3039	1/1	0.98	0.12	42,42,42,42	0
56	MG	1A	3562	1/1	0.98	0.22	7,7,7,7	0
56	MG	2A	3408	1/1	0.98	0.04	41,41,41,41	0
56	MG	1A	3330	1/1	0.98	0.17	17,17,17,17	0
56	MG	1A	3396	1/1	0.98	0.06	21,21,21,21	0
56	MG	1A	3230	1/1	0.98	0.03	24,24,24,24	0
56	MG	1A	3332	1/1	0.98	0.07	22,22,22,22	0
58	ZN	1n	102	1/1	0.98	0.04	59,59,59,59	0
56	MG	1D	304	1/1	0.98	0.06	18,18,18,18	0
58	ZN	2n	501	1/1	0.98	0.06	95,95,95,95	0
59	SF4	2d	302	8/8	0.98	0.04	45,64,68,72	0
56	MG	13	102	1/1	0.99	0.08	12,12,12,12	0
56	MG	1A	3745	1/1	0.99	0.03	13,13,13,13	0
56	MG	13	104	1/1	0.99	0.02	26,26,26,26	0
56	MG	1A	4062	1/1	0.99	0.03	21,21,21,21	0
56	MG	1A	3983	1/1	0.99	0.03	10,10,10,10	0
56	MG	1A	3358	1/1	0.99	0.12	23,23,23,23	0
56	MG	1A	3985	1/1	0.99	0.04	39,39,39,39	0
56	MG	2A	3727	1/1	0.99	0.03	33,33,33,33	0
56	MG	1a	3162	1/1	0.99	0.03	30,30,30,30	0
56	MG	1A	3076	1/1	0.99	0.06	32,32,32,32	0
56	MG	1A	3625	1/1	0.99	0.03	19,19,19,19	0
56	MG	2A	3855	1/1	0.99	0.03	30,30,30,30	0
56	MG	1A	4068	1/1	0.99	0.06	34,34,34,34	0
56	MG	2A	3732	1/1	0.99	0.03	31,31,31,31	0
56	MG	1A	3523	1/1	0.99	0.04	36,36,36,36	0
56	MG	1A	3989	1/1	0.99	0.02	29,29,29,29	0
56	MG	1A	3916	1/1	0.99	0.04	40,40,40,40	0
56	MG	1A	3360	1/1	0.99	0.05	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3737	1/1	0.99	0.08	21,21,21,21	0
56	MG	1A	3218	1/1	0.99	0.04	19,19,19,19	0
56	MG	1A	3859	1/1	0.99	0.03	22,22,22,22	0
56	MG	1A	3412	1/1	0.99	0.06	16,16,16,16	0
56	MG	1A	3805	1/1	0.99	0.10	10,10,10,10	0
56	MG	17	102	1/1	0.99	0.02	14,14,14,14	0
56	MG	1A	3337	1/1	0.99	0.03	23,23,23,23	0
56	MG	2A	3744	1/1	0.99	0.05	29,29,29,29	0
56	MG	1a	3176	1/1	0.99	0.09	45,45,45,45	0
56	MG	1A	3755	1/1	0.99	0.04	30,30,30,30	0
56	MG	1A	3924	1/1	0.99	0.04	9,9,9,9	0
56	MG	1A	3925	1/1	0.99	0.03	21,21,21,21	0
56	MG	1A	3528	1/1	0.99	0.06	27,27,27,27	0
56	MG	1A	3809	1/1	0.99	0.04	32,32,32,32	0
56	MG	1A	4002	1/1	0.99	0.03	25,25,25,25	0
56	MG	1A	3928	1/1	0.99	0.03	26,26,26,26	0
56	MG	1A	3467	1/1	0.99	0.07	14,14,14,14	0
56	MG	1A	4006	1/1	0.99	0.03	15,15,15,15	0
56	MG	1B	214	1/1	0.99	0.04	36,36,36,36	0
56	MG	2A	3530	1/1	0.99	0.08	19,19,19,19	0
56	MG	1A	4007	1/1	0.99	0.04	36,36,36,36	0
56	MG	1A	3140	1/1	0.99	0.12	22,22,22,22	0
56	MG	1B	217	1/1	0.99	0.04	17,17,17,17	0
56	MG	2A	3427	1/1	0.99	0.12	23,23,23,23	0
56	MG	2a	1657	1/1	0.99	0.09	48,48,48,48	0
56	MG	1A	3931	1/1	0.99	0.08	36,36,36,36	0
56	MG	1A	3759	1/1	0.99	0.03	36,36,36,36	0
56	MG	1A	3813	1/1	0.99	0.03	24,24,24,24	0
56	MG	1A	3316	1/1	0.99	0.02	20,20,20,20	0
56	MG	1A	3935	1/1	0.99	0.05	34,34,34,34	0
56	MG	1A	3936	1/1	0.99	0.03	35,35,35,35	0
56	MG	1A	3012	1/1	0.99	0.04	26,26,26,26	0
56	MG	1B	225	1/1	0.99	0.04	33,33,33,33	0
56	MG	1A	3013	1/1	0.99	0.03	11,11,11,11	0
56	MG	1A	3050	1/1	0.99	0.04	22,22,22,22	0
56	MG	1A	3818	1/1	0.99	0.11	31,31,31,31	0
56	MG	2A	3546	1/1	0.99	0.04	22,22,22,22	0
56	MG	2A	3657	1/1	0.99	0.03	38,38,38,38	0
56	MG	2D	304	1/1	0.99	0.04	25,25,25,25	0
56	MG	1A	3172	1/1	0.99	0.04	24,24,24,24	0
56	MG	2A	3133	1/1	0.99	0.05	27,27,27,27	0
56	MG	1A	3080	1/1	0.99	0.05	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3777	1/1	0.99	0.05	36,36,36,36	0
56	MG	1A	3943	1/1	0.99	0.04	24,24,24,24	0
56	MG	1A	3190	1/1	0.99	0.06	17,17,17,17	0
56	MG	1a	3205	1/1	0.99	0.06	39,39,39,39	0
56	MG	2A	3036	1/1	0.99	0.04	41,41,41,41	0
56	MG	2a	1809	1/1	0.99	0.05	44,44,44,44	0
56	MG	1A	3767	1/1	0.99	0.04	19,19,19,19	0
56	MG	1a	3023	1/1	0.99	0.09	17,17,17,17	0
56	MG	1A	3768	1/1	0.99	0.06	22,22,22,22	0
56	MG	1A	3947	1/1	0.99	0.03	22,22,22,22	0
56	MG	1a	3026	1/1	0.99	0.21	28,28,28,28	0
56	MG	1a	3211	1/1	0.99	0.05	27,27,27,27	0
56	MG	1a	3212	1/1	0.99	0.04	34,34,34,34	0
56	MG	1U	210	1/1	0.99	0.13	15,15,15,15	0
56	MG	1A	3880	1/1	0.99	0.04	20,20,20,20	0
56	MG	1A	3051	1/1	0.99	0.03	15,15,15,15	0
56	MG	1A	3449	1/1	0.99	0.12	19,19,19,19	0
56	MG	1V	204	1/1	0.99	0.10	25,25,25,25	0
56	MG	1A	3540	1/1	0.99	0.04	20,20,20,20	0
56	MG	1A	3952	1/1	0.99	0.07	19,19,19,19	0
56	MG	1A	3109	1/1	0.99	0.07	37,37,37,37	0
56	MG	1a	3221	1/1	0.99	0.07	47,47,47,47	0
56	MG	1A	3121	1/1	0.99	0.09	12,12,12,12	0
56	MG	1A	3774	1/1	0.99	0.04	27,27,27,27	0
56	MG	1A	3543	1/1	0.99	0.04	12,12,12,12	0
56	MG	2A	3056	1/1	0.99	0.06	28,28,28,28	0
56	MG	1A	3265	1/1	0.99	0.09	4,4,4,4	0
56	MG	1A	3777	1/1	0.99	0.03	9,9,9,9	0
56	MG	2a	1702	1/1	0.99	0.07	40,40,40,40	0
56	MG	1A	3685	1/1	0.99	0.06	15,15,15,15	0
56	MG	1A	3110	1/1	0.99	0.16	24,24,24,24	0
56	MG	1A	3482	1/1	0.99	0.04	12,12,12,12	0
56	MG	1A	3650	1/1	0.99	0.05	13,13,13,13	0
56	MG	2A	3691	1/1	0.99	0.03	43,43,43,43	0
56	MG	2A	3809	1/1	0.99	0.08	37,37,37,37	0
56	MG	2A	3063	1/1	0.99	0.03	35,35,35,35	0
56	MG	2A	3811	1/1	0.99	0.10	33,33,33,33	0
56	MG	2W	201	1/1	0.99	0.03	40,40,40,40	0
56	MG	2A	3473	1/1	0.99	0.08	46,46,46,46	0
56	MG	1A	3730	1/1	0.99	0.04	15,15,15,15	0
56	MG	1A	3689	1/1	0.99	0.03	19,19,19,19	0
56	MG	1A	3965	1/1	0.99	0.09	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3651	1/1	0.99	0.04	8,8,8,8	0
56	MG	2A	3817	1/1	0.99	0.05	28,28,28,28	0
56	MG	1A	3002	1/1	0.99	0.10	22,22,22,22	0
56	MG	2A	3588	1/1	0.99	0.04	48,48,48,48	0
56	MG	1A	3136	1/1	0.99	0.04	19,19,19,19	0
56	MG	1A	3735	1/1	0.99	0.04	27,27,27,27	0
56	MG	1A	3180	1/1	0.99	0.03	18,18,18,18	0
56	MG	1A	3737	1/1	0.99	0.04	14,14,14,14	0
56	MG	1A	3972	1/1	0.99	0.07	39,39,39,39	0
56	MG	1E	313	1/1	0.99	0.12	10,10,10,10	0
56	MG	2A	3485	1/1	0.99	0.06	40,40,40,40	0
56	MG	2A	3827	1/1	0.99	0.07	36,36,36,36	0
56	MG	2A	3828	1/1	0.99	0.04	39,39,39,39	0
56	MG	2A	3707	1/1	0.99	0.04	20,20,20,20	0
56	MG	1A	3790	1/1	0.99	0.06	10,10,10,10	0
56	MG	1A	3694	1/1	0.99	0.07	14,14,14,14	0
56	MG	1A	3975	1/1	0.99	0.05	25,25,25,25	0
56	MG	1A	3289	1/1	0.99	0.12	25,25,25,25	0
56	MG	1A	3024	1/1	0.99	0.03	9,9,9,9	0
56	MG	2A	3835	1/1	0.99	0.04	51,51,51,51	0
56	MG	1A	3978	1/1	0.99	0.04	24,24,24,24	0
56	MG	2A	3837	1/1	0.99	0.07	18,18,18,18	0
56	MG	1A	3037	1/1	0.99	0.03	9,9,9,9	0
58	ZN	1Y	202	1/1	0.99	0.03	57,57,57,57	0
56	MG	1a	3152	1/1	0.99	0.03	32,32,32,32	0
58	ZN	16	105	1/1	0.99	0.03	31,31,31,31	0
58	ZN	19	104	1/1	0.99	0.02	36,36,36,36	0
56	MG	2A	3604	1/1	0.99	0.05	33,33,33,33	0
58	ZN	2Y	501	1/1	0.99	0.03	83,83,83,83	0
56	MG	1A	3489	1/1	0.99	0.15	17,17,17,17	0
58	ZN	26	103	1/1	0.99	0.06	55,55,55,55	0
58	ZN	29	501	1/1	0.99	0.04	66,66,66,66	0
56	MG	1A	3312	1/1	0.99	0.08	22,22,22,22	0
59	SF4	1d	302	8/8	0.99	0.04	39,58,69,70	0
56	MG	1x	102	1/1	0.99	0.06	24,24,24,24	0
56	MG	1A	3743	1/1	1.00	0.02	16,16,16,16	0
56	MG	1A	3905	1/1	1.00	0.01	9,9,9,9	0
56	MG	1A	4037	1/1	1.00	0.10	5,5,5,5	0
56	MG	2A	3573	1/1	1.00	0.03	28,28,28,28	0
56	MG	2A	3509	1/1	1.00	0.08	19,19,19,19	0
58	ZN	25	104	1/1	1.00	0.03	44,44,44,44	0
56	MG	1A	3906	1/1	1.00	0.06	9,9,9,9	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3746	1/1	1.00	0.02	13,13,13,13	0
56	MG	1A	4003	1/1	1.00	0.02	18,18,18,18	0
56	MG	1A	3711	1/1	1.00	0.04	10,10,10,10	0
58	ZN	15	108	1/1	1.00	0.04	33,33,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.