



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 5, 2023 – 01:12 PM EST

PDB ID : 6ND6
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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

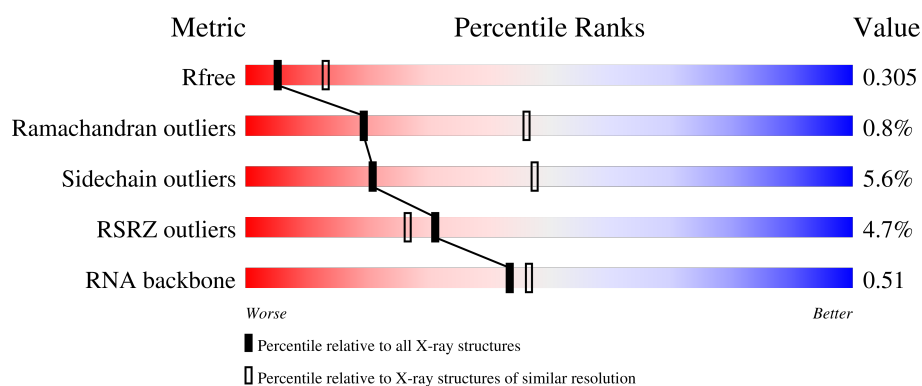
1 Overall quality at a glance

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}	130704	3168 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)
RNA backbone	3102	1088 (3.12-2.60)

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	
1	2A	2915	
2	1B	121	
2	2B	121	
3	1D	276	

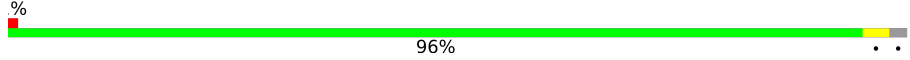
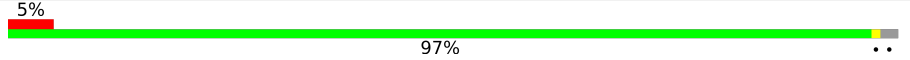
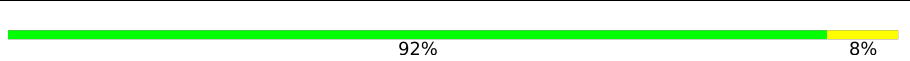
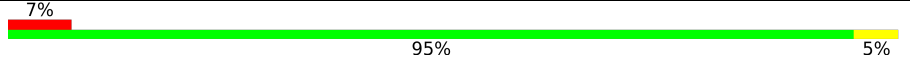
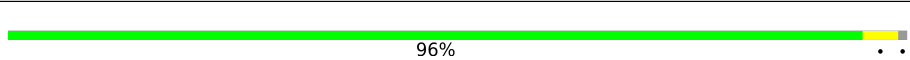
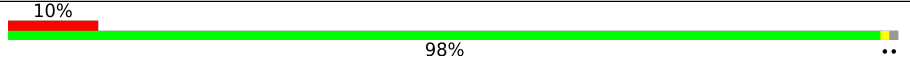
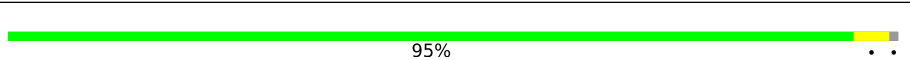
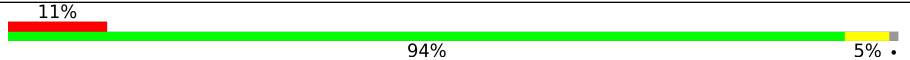
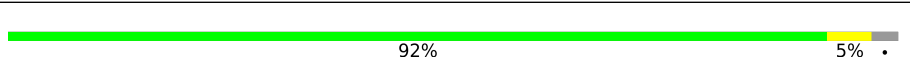
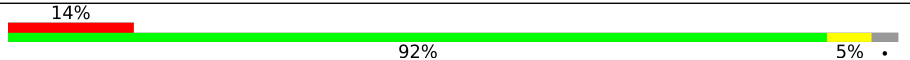
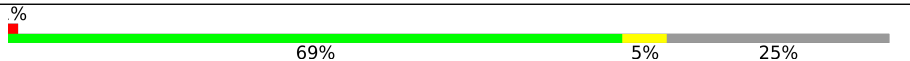
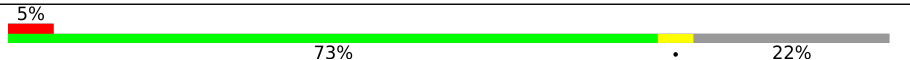
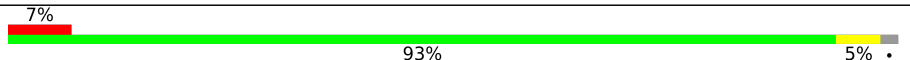
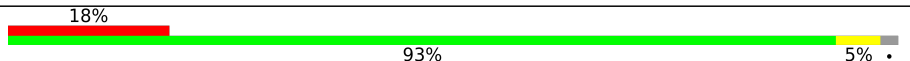
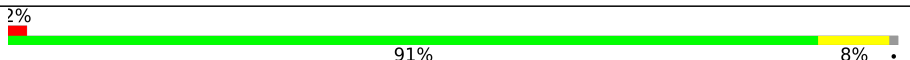
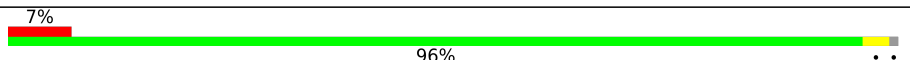
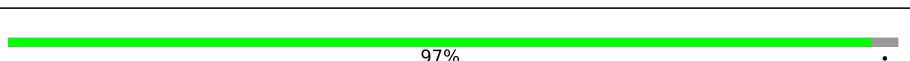
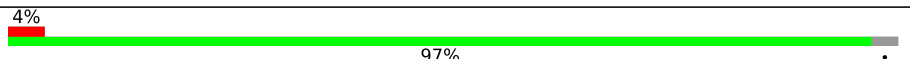
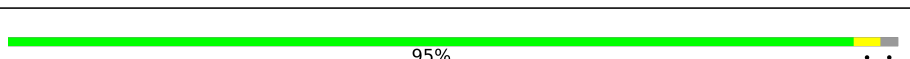
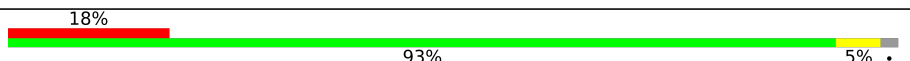
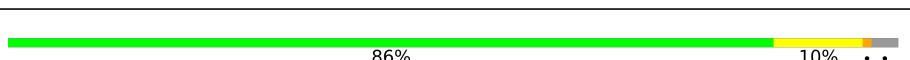
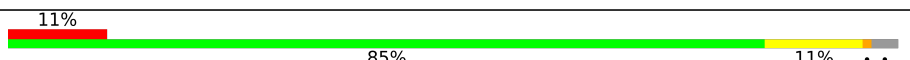
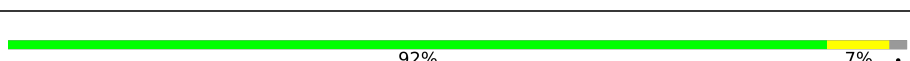
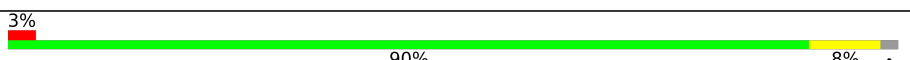
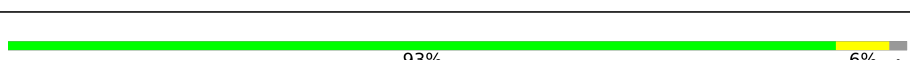
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Mol	Chain	Length	Quality of chain
3	2D	276	5% 96% .
4	1E	206	92% 7% .
4	2E	206	2% 93% 6% .
5	1F	210	90% 7% .
5	2F	210	4% 90% 6% .
6	1G	182	% 96%
6	2G	182	15% 93% 7% .
7	1H	180	91% 6% .
7	2H	180	19% 93% . .
8	1I	148	91% 7% .
8	2I	148	5% 94% 5% .
9	1N	140	94% 6% .
9	2N	140	11% 94% 6% .
10	1O	122	96% . .
10	2O	122	8% 99% . .
11	1P	150	2% 94% 5% .
11	2P	150	5% 95% 5% .
12	1Q	141	% 98% . .
12	2Q	141	11% 99% . .
13	1R	118	92% 8% .
13	2R	118	4% 92% 8% .
14	1S	112	93% 5% .
14	2S	112	4% 93% 5% .
15	1T	146	84% 6% 10% .
15	2T	146	3% 87% . 10% .

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Mol	Chain	Length	Quality of chain
16	1U	118	 96%
16	2U	118	 97%
17	1V	101	 92% 8%
17	2V	101	 95% 5%
18	1W	113	 96%
18	2W	113	 98%
19	1X	96	 95%
19	2X	96	 94% 5%
20	1Y	110	 92% 5%
20	2Y	110	 92% 5%
21	1Z	206	 69% 5% 25%
21	2Z	206	 73% 5% 22%
22	10	85	 93% 5%
22	20	85	 93% 5%
23	11	98	 91% 8%
23	21	98	 96%
24	12	72	 97%
24	22	72	 97%
25	13	60	 95%
25	23	60	 93% 5%
26	14	71	 86% 10%
26	24	71	 85% 11%
27	15	60	 92% 7%
27	25	60	 90% 8%
28	16	54	 93% 6%

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Mol	Chain	Length	Quality of chain
28	26	54	9% 89% 9%
29	17	49	4% 90% 8%
29	27	49	12% 90% 8%
30	18	65	2% 91% 8%
30	28	65	9% 89% 9%
31	19	37	97%
31	29	37	32% 100%
32	1a	1521	80% 19%
32	2a	1521	% 77% 21%
33	1b	256	3% 83% 7% 10%
33	2b	256	21% 82% 7% 10%
34	1c	239	12% 82% 5% 14%
34	2c	239	26% 84% 14%
35	1d	209	3% 94% 6%
35	2d	209	3% 95% 5%
36	1e	162	5% 85% 6% 9%
36	2e	162	9% 88% 9%
37	1f	101	% 96%
37	2f	101	% 95%
38	1g	156	8% 95%
38	2g	156	14% 95%
39	1h	138	7% 96%
39	2h	138	9% 93% 6%
40	1i	128	16% 95%
40	2i	128	43% 96%

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Mol	Chain	Length	Quality of chain
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	
53	1v	27	

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Mol	Chain	Length	Quality of chain
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
54	6MZ	2y	37	-	-	-	X
56	MG	1A	3348	-	-	-	X
56	MG	1A	4073	-	-	-	X
56	MG	1F	314	-	-	-	X
56	MG	2A	3316	-	-	-	X
56	MG	2A	3359	-	-	-	X
56	MG	2A	3773	-	-	-	X
56	MG	2A	3774	-	-	-	X
56	MG	2A	3801	-	-	-	X
56	MG	2T	202	-	-	-	X

2 Entry composition [i](#)

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
			Total	C	N	O	P			
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
			Total	C	N	O	P			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
5	1F	203	Total 1584	C 1009	N 298	O 275	S 2	0	0	1
5	2F	203	Total 1580	C 1007	N 297	O 274	S 2	0	0	1

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

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

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

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

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

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

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

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

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

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

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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
			Total	C	N	O	S			
16	1U	116	Total 959	C 608	N 201	O 149	S 1	0	0	0
16	2U	116	Total 959	C 608	N 201	O 149	S 1	0	0	0

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

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

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

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

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

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

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

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

- 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
			Total	C	N	O	S			
48	1q	99	Total 823	C 528	N 151	O 142	S 2	0	0	0
48	2q	99	Total 823	C 528	N 151	O 142	S 2	0	0	0

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

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

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

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

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

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

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

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

- 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	C	N	O	P	S	0	0	0
			1568	700	282	512	73	1			
54	1y	74	Total	C	N	O	P	S	0	0	0
			1591	710	287	519	74	1			
54	2w	73	Total	C	N	O	P	S	0	0	0
			1568	700	282	512	73	1			
54	2y	73	Total	C	N	O	P	S	0	0	0
			1568	700	282	512	73	1			

- 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 (three-letter code: 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 Mg 2 2	0	0
56	1P	8	Total Mg 8 8	0	0
56	1Q	8	Total Mg 8 8	0	0
56	1R	2	Total Mg 2 2	0	0
56	1S	2	Total Mg 2 2	0	0
56	1T	2	Total Mg 2 2	0	0
56	1U	10	Total Mg 10 10	0	0
56	1V	8	Total Mg 8 8	0	0
56	1W	8	Total Mg 8 8	0	0
56	1X	5	Total Mg 5 5	0	0
56	1Y	1	Total Mg 1 1	0	0
56	1Z	3	Total Mg 3 3	0	0
56	10	7	Total Mg 7 7	0	0
56	11	1	Total Mg 1 1	0	0
56	12	2	Total Mg 2 2	0	0
56	13	6	Total Mg 6 6	0	0
56	14	1	Total Mg 1 1	0	0
56	15	7	Total Mg 7 7	0	0
56	16	4	Total Mg 4 4	0	0
56	17	5	Total Mg 5 5	0	0
56	18	2	Total Mg 2 2	0	0

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

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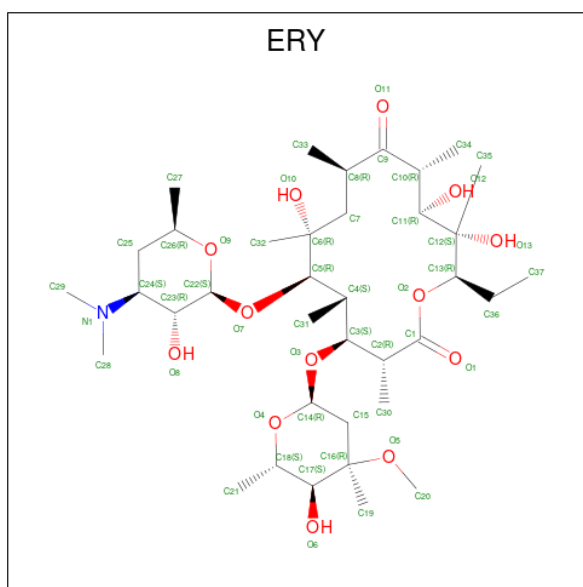
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	2F	7	Total 7	Mg 7	0	0
56	2G	1	Total 1	Mg 1	0	0
56	2N	1	Total 1	Mg 1	0	0
56	2O	1	Total 1	Mg 1	0	0
56	2P	2	Total 2	Mg 2	0	0
56	2Q	5	Total 5	Mg 5	0	0
56	2R	3	Total 3	Mg 3	0	0
56	2T	3	Total 3	Mg 3	0	0
56	2U	3	Total 3	Mg 3	0	0
56	2V	1	Total 1	Mg 1	0	0
56	2W	1	Total 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 Mg 233 233	0	0
56	2d	1	Total Mg 1 1	0	0
56	2e	1	Total Mg 1 1	0	0
56	2f	2	Total Mg 2 2	0	0
56	2g	1	Total Mg 1 1	0	0
56	2i	2	Total Mg 2 2	0	0
56	2j	2	Total Mg 2 2	0	0
56	2k	1	Total Mg 1 1	0	0
56	2l	5	Total Mg 5 5	0	0
56	2p	1	Total Mg 1 1	0	0
56	2q	3	Total Mg 3 3	0	0
56	2r	1	Total Mg 1 1	0	0
56	2t	1	Total Mg 1 1	0	0
56	2v	2	Total Mg 2 2	0	0
56	2w	1	Total Mg 1 1	0	0
56	2x	5	Total Mg 5 5	0	0
56	2y	4	Total Mg 4 4	0	0

- Molecule 57 is ERYTHROMYCIN A (three-letter code: ERY) (formula: C₃₇H₆₇NO₁₃).



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 (three-letter code: ZN) (formula: Zn).

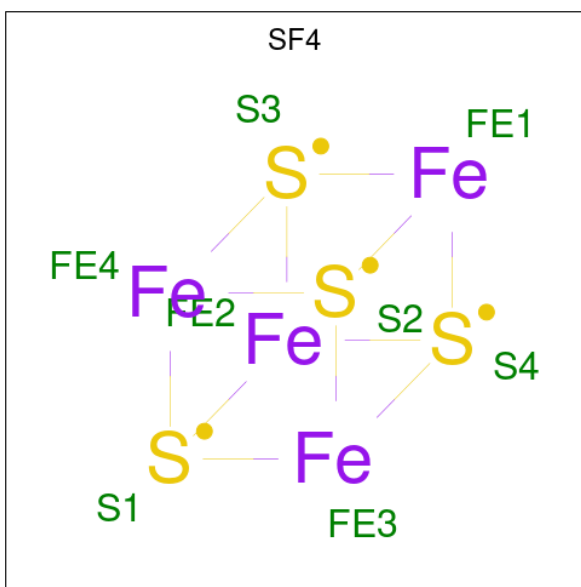
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	1Y	1	Total	Zn	0	0
			1	1		
58	14	1	Total	Zn	0	0
			1	1		
58	15	1	Total	Zn	0	0
			1	1		
58	16	1	Total	Zn	0	0
			1	1		
58	19	1	Total	Zn	0	0
			1	1		
58	1n	1	Total	Zn	0	0
			1	1		
58	2Y	1	Total	Zn	0	0
			1	1		
58	24	1	Total	Zn	0	0
			1	1		
58	25	1	Total	Zn	0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

- Molecule 59 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



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

- Molecule 60 is water.

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

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

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

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

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

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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 2 2	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	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	5	Total O 5 5	0	0
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	5	Total O 5 5	0	0
60	1A	3	Total O 3 3	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	4	Total O 4 4	0	0
60	1A	2	Total O 2 2	0	0
60	1A	3	Total O 3 3	0	0
60	1A	4	Total O 4 4	0	0

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

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

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

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

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

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

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

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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 O 3 3	0	0
60	1A	5	Total O 5 5	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	5	Total O 5 5	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	2	Total O 2 2	0	0
60	1A	2	Total O 2 2	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	3	Total O 3 3	0	0
60	1A	2	Total O 2 2	0	0
60	1A	4	Total O 4 4	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

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

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

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

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

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

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

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

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

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

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

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

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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 2 2	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	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	3	Total O 3 3	0	0
60	2A	2	Total O 2 2	0	0
60	2A	4	Total O 4 4	0	0
60	2A	4	Total O 4 4	0	0
60	2A	4	Total O 4 4	0	0
60	2A	4	Total O 4 4	0	0
60	2A	3	Total O 3 3	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	3	Total O 3 3	0	0
60	2A	1	Total O 1 1	0	0

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

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

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

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

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

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

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

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

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

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

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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 O 2 2	0	0
60	2B	1	Total O 1 1	0	0
60	2B	12	Total O 12 12	0	0
60	2D	1	Total O 1 1	0	0
60	2D	5	Total O 5 5	0	0
60	2D	8	Total O 8 8	0	0
60	2E	4	Total O 4 4	0	0
60	2E	2	Total O 2 2	0	0
60	2E	3	Total O 3 3	0	0
60	2F	8	Total O 8 8	0	0
60	2I	4	Total O 4 4	0	0
60	2N	1	Total O 1 1	0	0
60	2O	1	Total O 1 1	0	0
60	2P	2	Total O 2 2	0	0
60	2P	3	Total O 3 3	0	0
60	2Q	1	Total O 1 1	0	0
60	2Q	1	Total O 1 1	0	0
60	2R	1	Total O 1 1	0	0
60	2R	1	Total O 1 1	0	0
60	2T	4	Total O 4 4	0	0
60	2U	2	Total O 2 2	0	0

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

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

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

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

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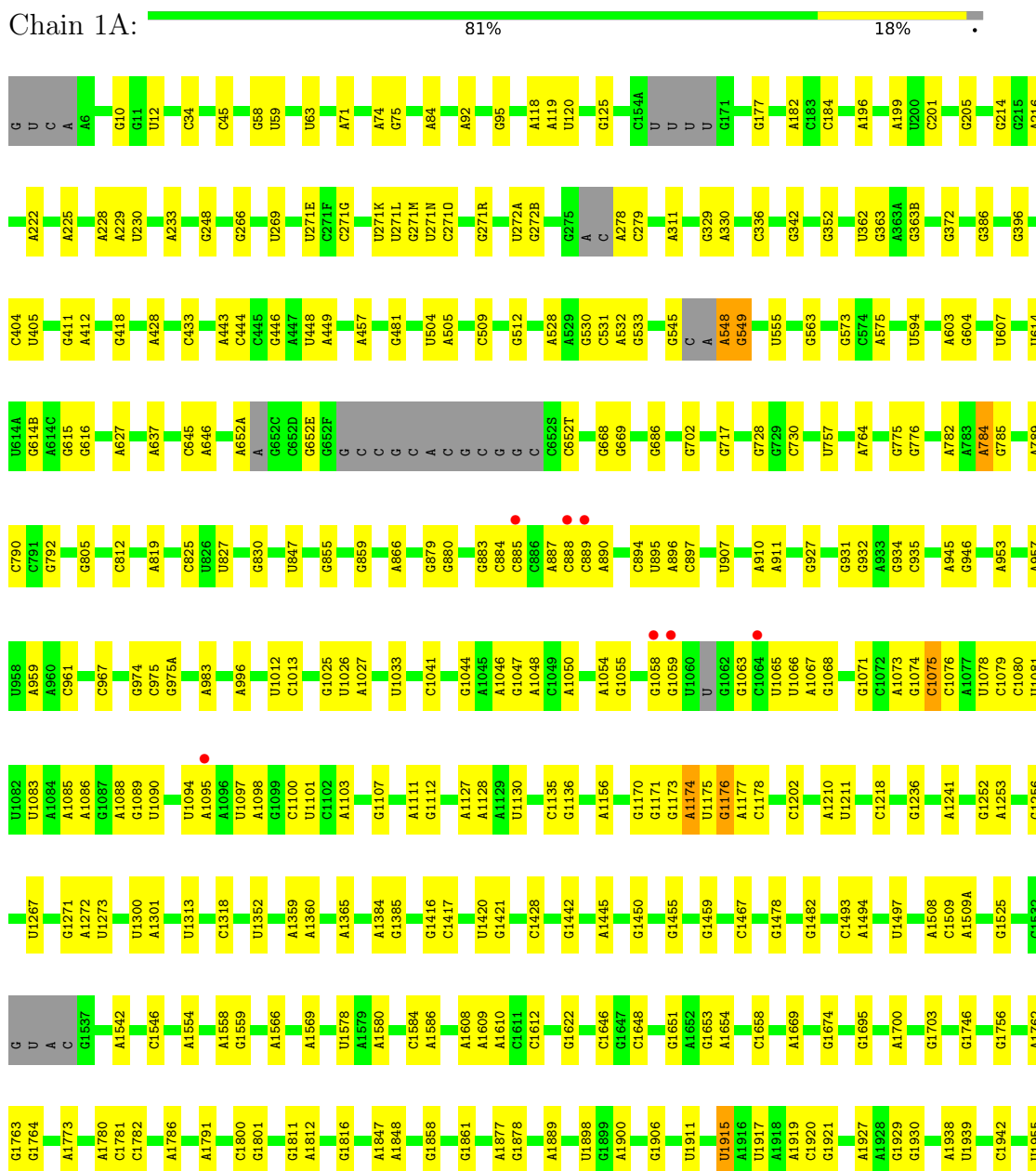
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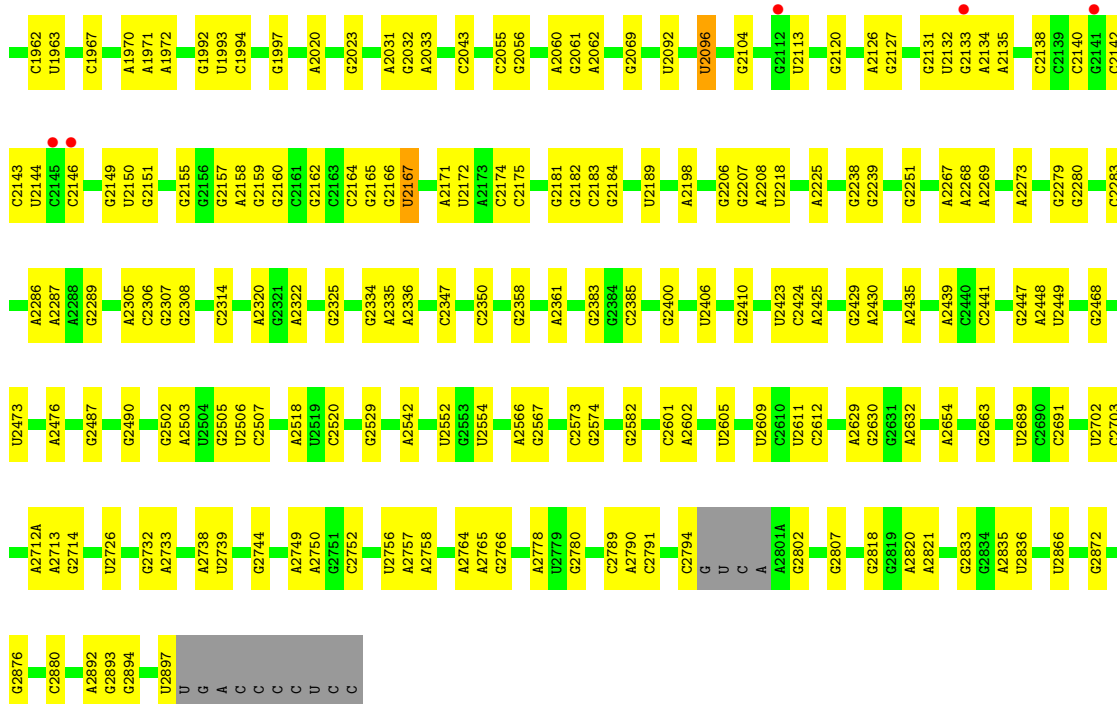
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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60	2r	1	Total O 1 1	0	0
60	2t	2	Total O 2 2	0	0
60	2v	1	Total O 1 1	0	0
60	2x	2	Total O 2 2	0	0
60	2x	2	Total O 2 2	0	0
60	2x	4	Total O 4 4	0	0
60	2y	1	Total O 1 1	0	0
60	2y	10	Total O 10 10	0	0

3 Residue-property plots

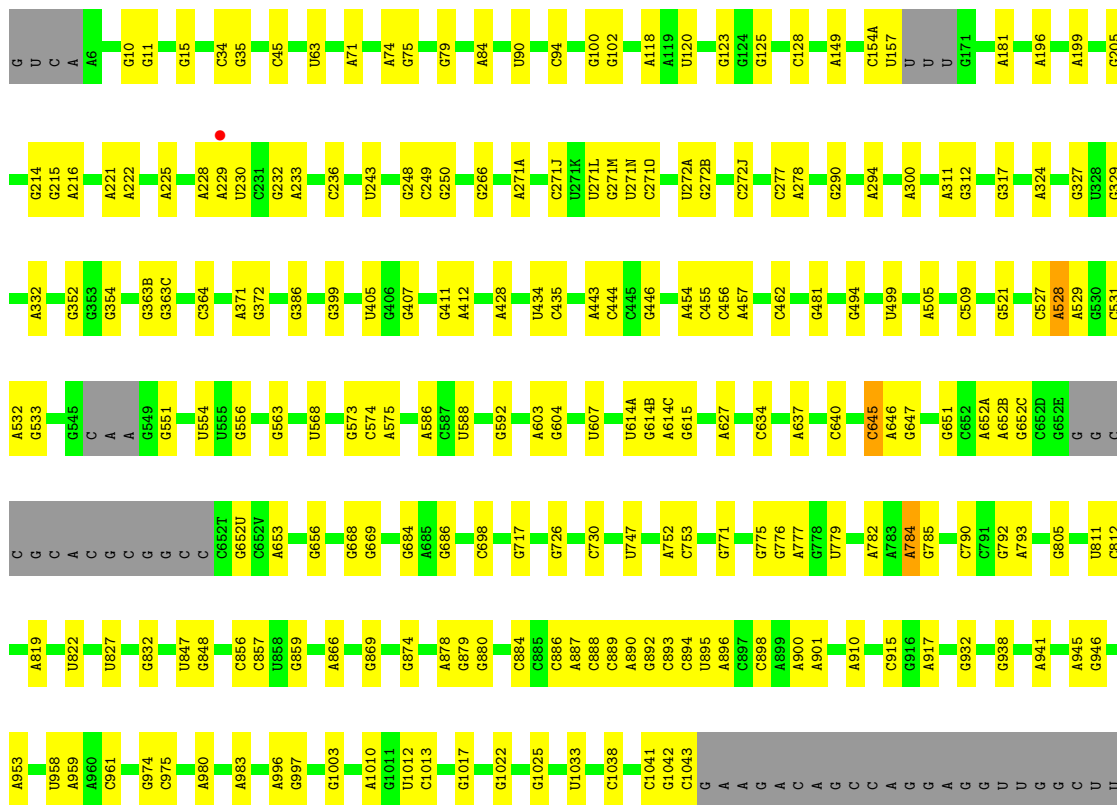
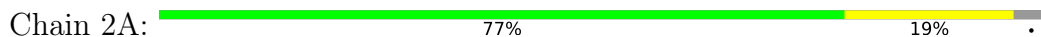
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

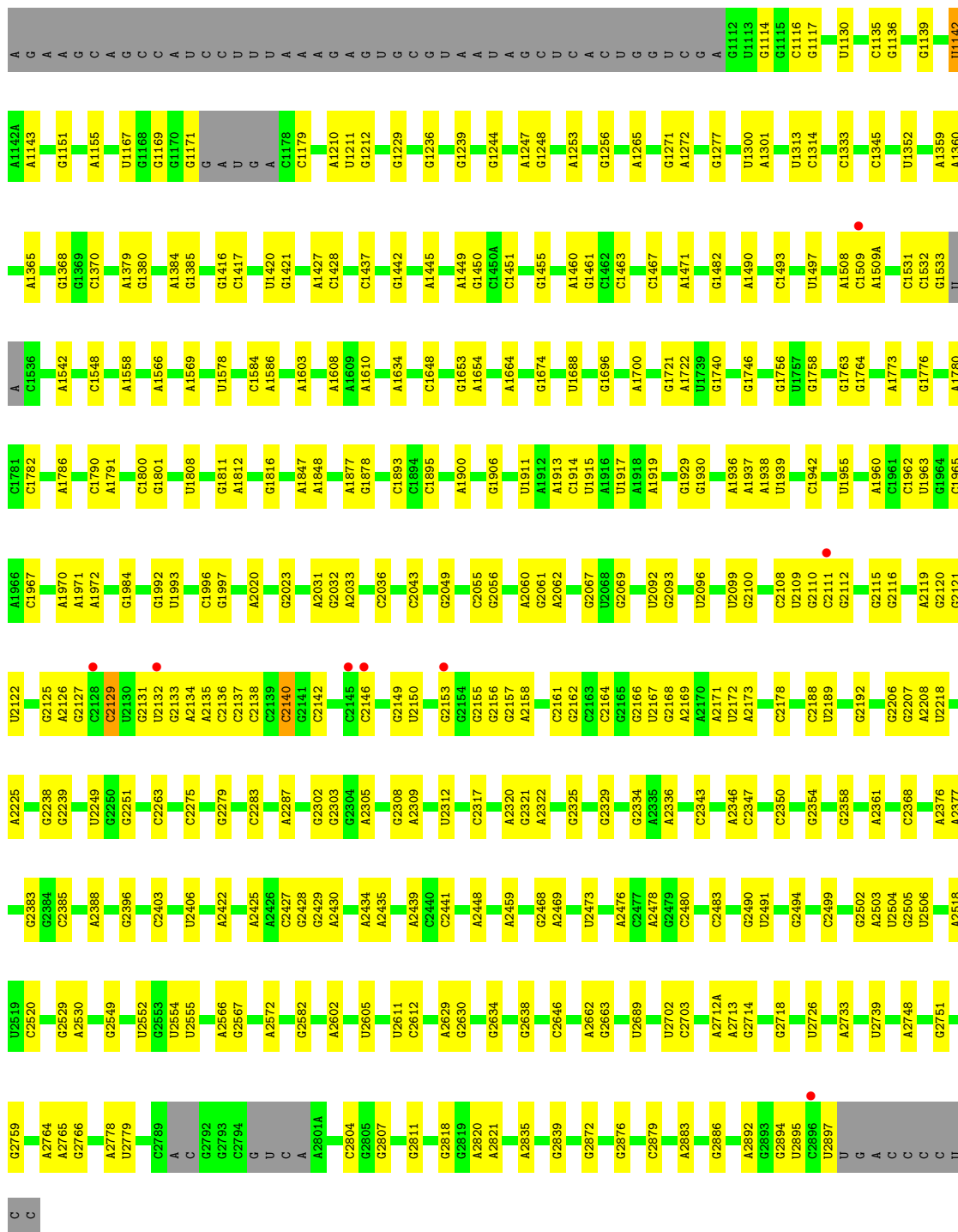
• Molecule 1: 23S Ribosomal RNA





• Molecule 1: 23S Ribosomal RNA



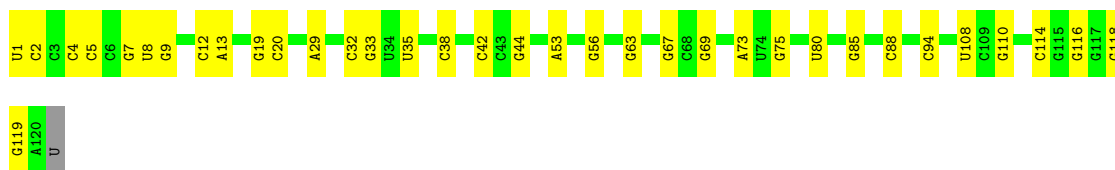


• Molecule 2: 5S Ribosomal RNA



• Molecule 2: 5S Ribosomal RNA

Chain 2B:  70% 29%



• Molecule 3: 50S ribosomal protein L2

Chain 1D:  97%



• Molecule 3: 50S ribosomal protein L2

Chain 2D:  5% 96%

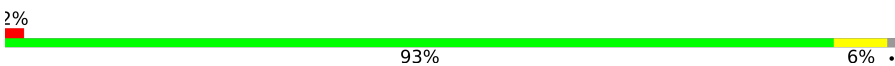


• Molecule 4: 50S ribosomal protein L3

Chain 1E:  92% 7%




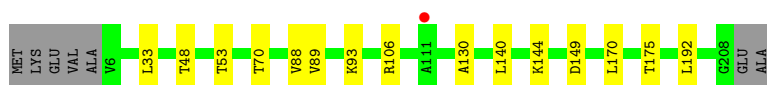
• Molecule 4: 50S ribosomal protein L3

Chain 2E:  2% 93% 6%

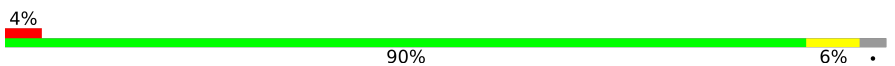


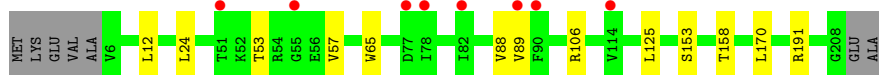
• Molecule 5: 50S ribosomal protein L4

Chain 1F:  90% 7%

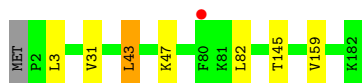


• Molecule 5: 50S ribosomal protein L4

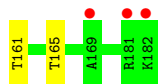
Chain 2F:  4% 90% 6%



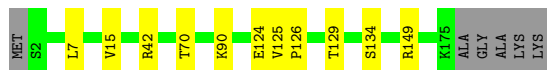
- Molecule 6: 50S ribosomal protein L5



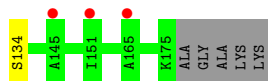
- Molecule 6: 50S ribosomal protein L5



- Molecule 7: 50S ribosomal protein L6



- Molecule 7: 50S ribosomal protein L6

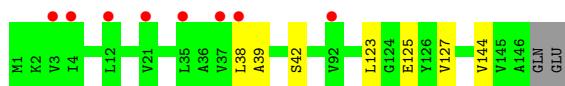


- Molecule 8: 50S ribosomal protein L9



- Molecule 8: 50S ribosomal protein L9





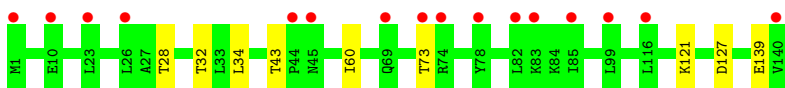
- Molecule 9: 50S ribosomal protein L13

Chain 1N: 94% 6%



- Molecule 9: 50S ribosomal protein L13

Chain 2N: 11% 94% 6%



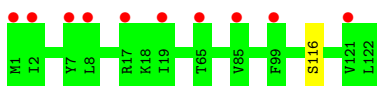
- Molecule 10: 50S ribosomal protein L14

Chain 1O: 96%



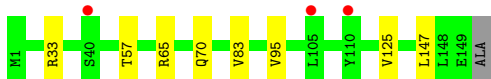
- Molecule 10: 50S ribosomal protein L14

Chain 2O: 8% 99%



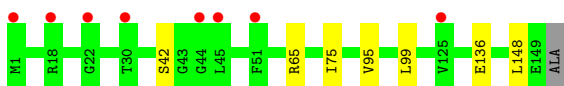
- Molecule 11: 50S ribosomal protein L15

Chain 1P: 2% 94% 5%

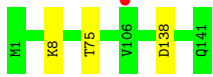


- Molecule 11: 50S ribosomal protein L15

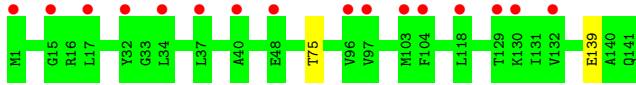
Chain 2P: 5% 95% 5%



- Molecule 12: 50S ribosomal protein L16



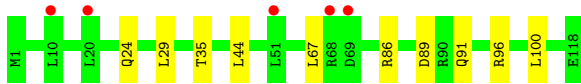
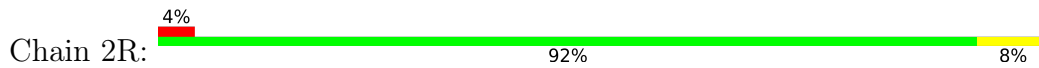
- Molecule 12: 50S ribosomal protein L16



- Molecule 13: 50S ribosomal protein L17



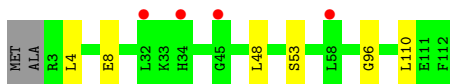
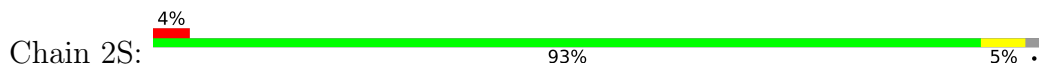
- Molecule 13: 50S ribosomal protein L17



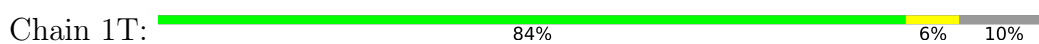
- Molecule 14: 50S ribosomal protein L18



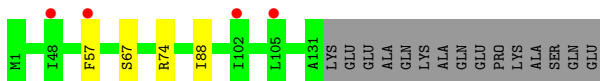
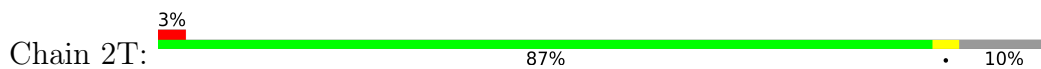
- Molecule 14: 50S ribosomal protein L18



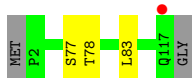
- Molecule 15: 50S ribosomal protein L19



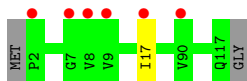
- Molecule 15: 50S ribosomal protein L19



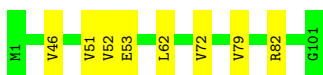
- Molecule 16: 50S ribosomal protein L20



- 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



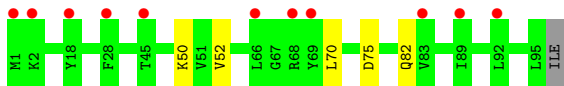
- Molecule 19: 50S ribosomal protein L23

Chain 1X:  95% ..



• Molecule 19: 50S ribosomal protein L23

Chain 2X:  11% 94% 5% .

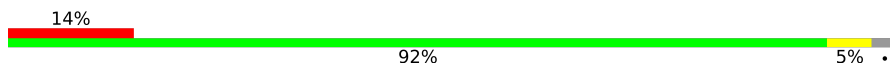


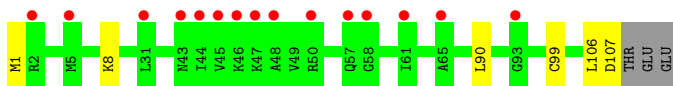
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:  92% 5% .



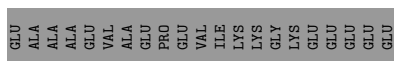
• Molecule 20: 50S ribosomal protein L24

Chain 2Y:  14% 92% 5% .




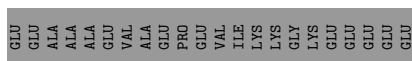
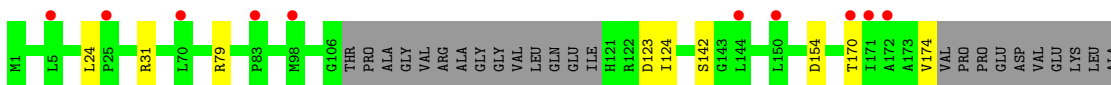
• Molecule 21: 50S ribosomal protein L25

Chain 1Z:  % 69% 5% 25%



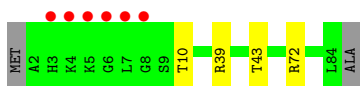
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:  5% 73% 22%

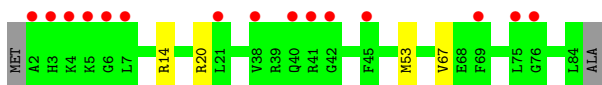


• Molecule 22: 50S ribosomal protein L27

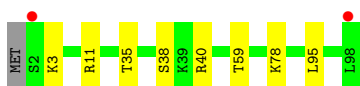
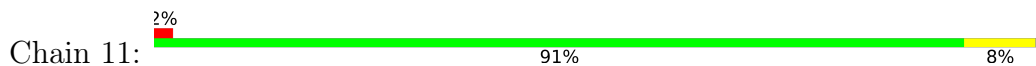
Chain 10:  7% 93% 5% .



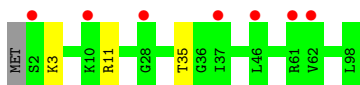
- Molecule 22: 50S ribosomal protein L27



- Molecule 23: 50S ribosomal protein L28



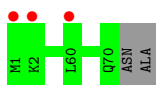
- Molecule 23: 50S ribosomal protein L28



- Molecule 24: 50S ribosomal protein L29



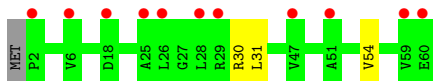
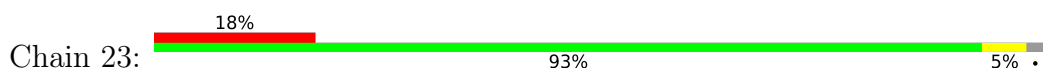
- Molecule 24: 50S ribosomal protein L29



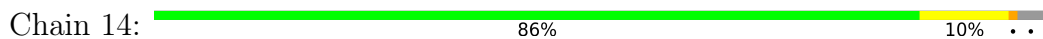
- Molecule 25: 50S ribosomal protein L30



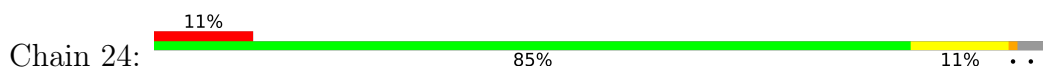
- Molecule 25: 50S ribosomal protein L30



- Molecule 26: 50S ribosomal protein L31



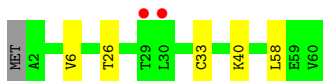
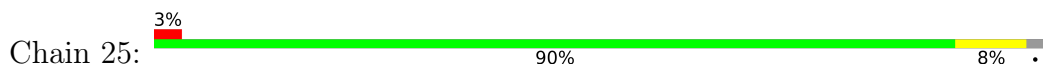
- Molecule 26: 50S ribosomal protein L31



- Molecule 27: 50S ribosomal protein L32



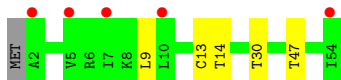
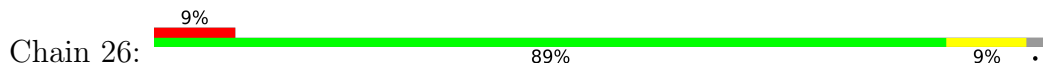
- Molecule 27: 50S ribosomal protein L32



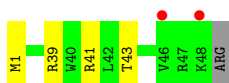
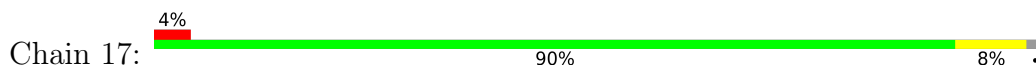
- Molecule 28: 50S ribosomal protein L33



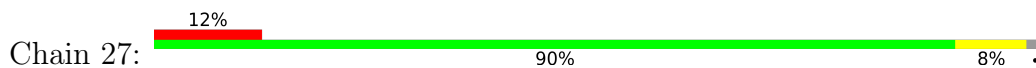
- Molecule 28: 50S ribosomal protein L33



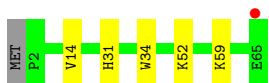
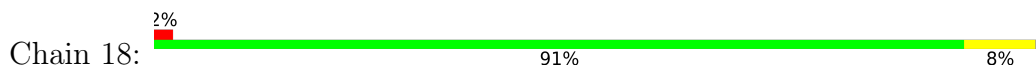
- Molecule 29: 50S ribosomal protein L34



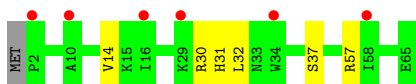
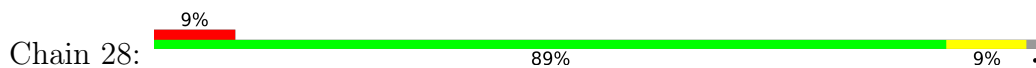
- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



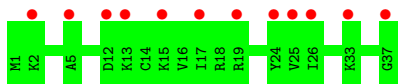
- Molecule 30: 50S ribosomal protein L35



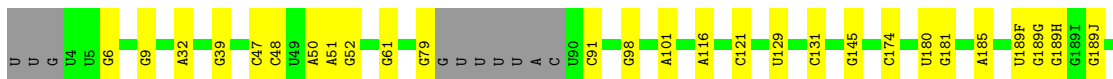
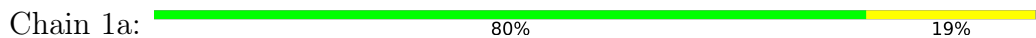
- Molecule 31: 50S ribosomal protein L36

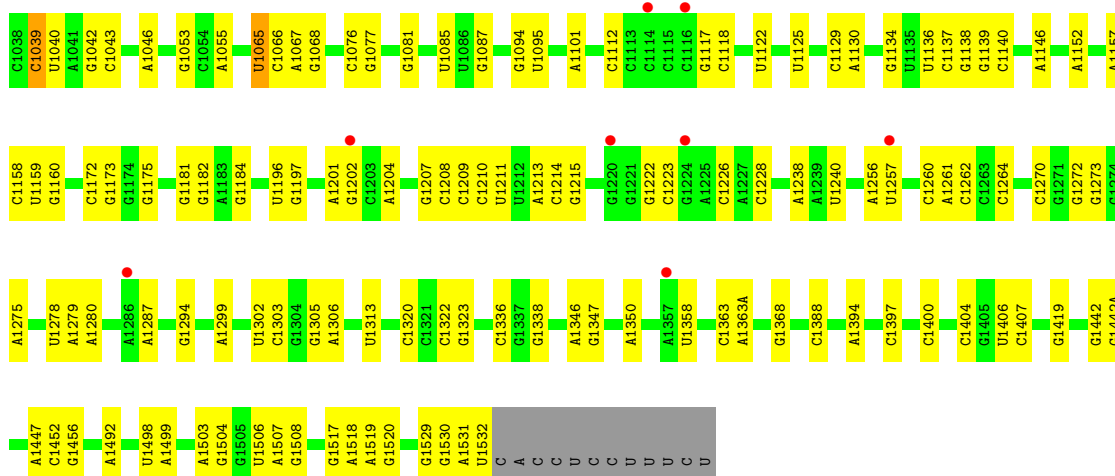


- Molecule 31: 50S ribosomal protein L36

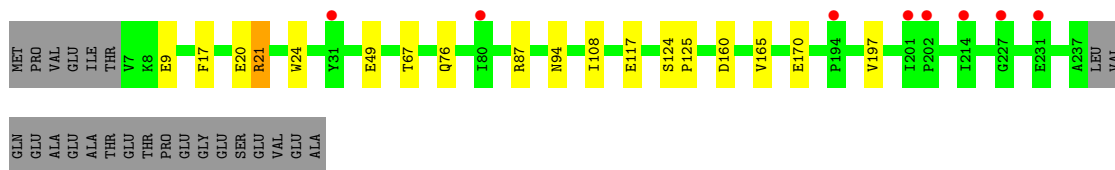
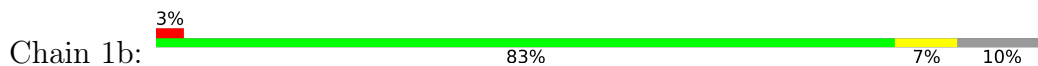


- Molecule 32: 16S Ribosomal RNA

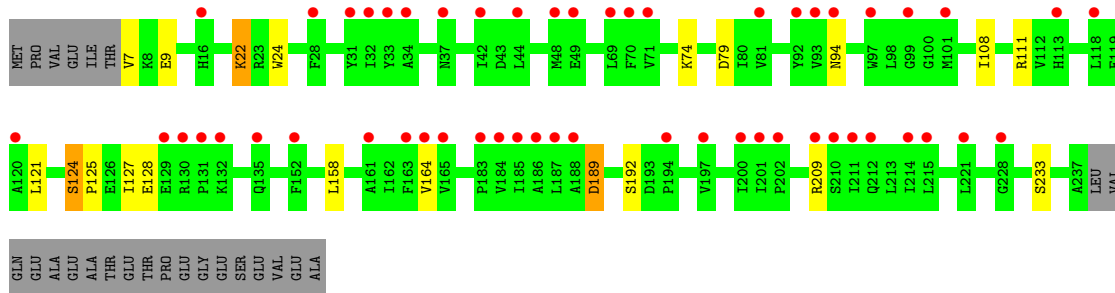
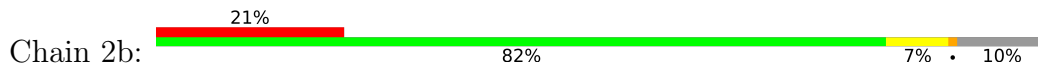




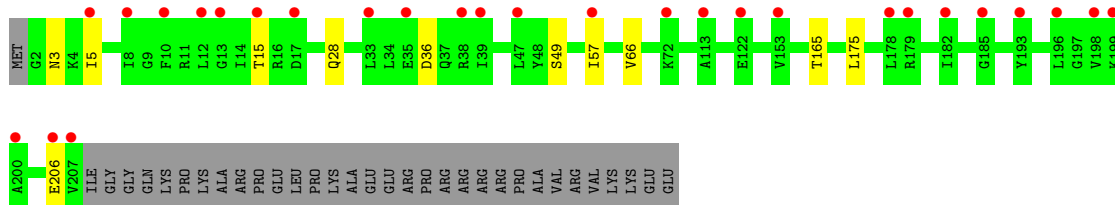
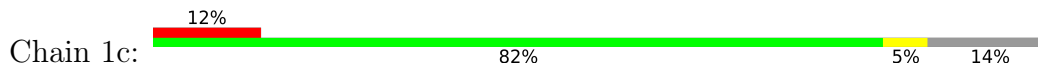
• Molecule 33: 30S ribosomal protein S2



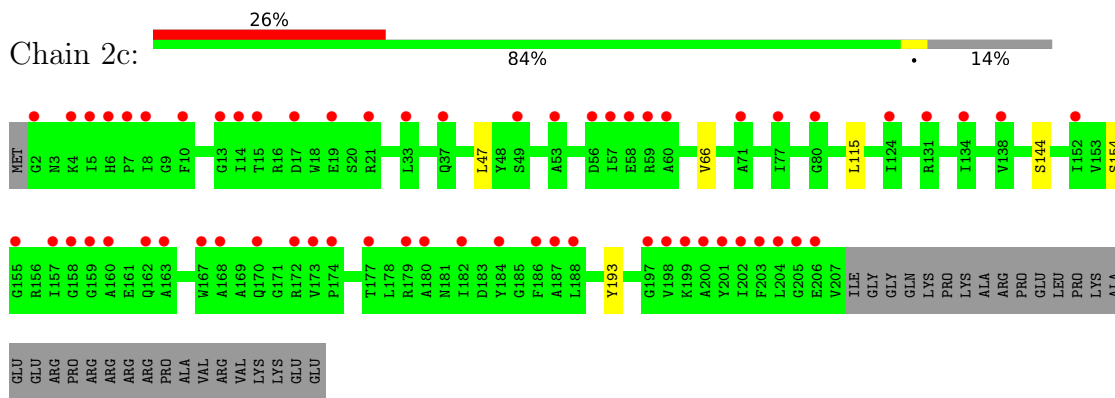
• Molecule 33: 30S ribosomal protein S2



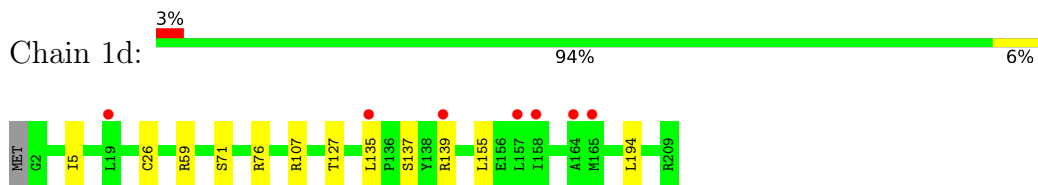
• Molecule 34: 30S ribosomal protein S3



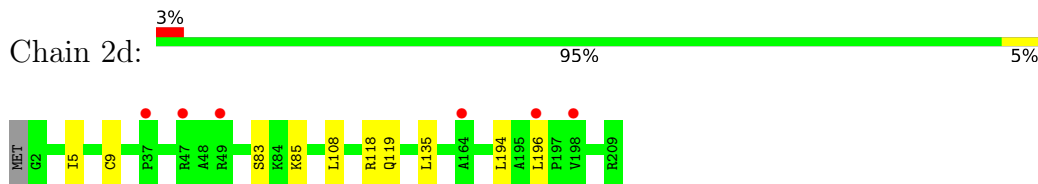
• Molecule 34: 30S ribosomal protein S3



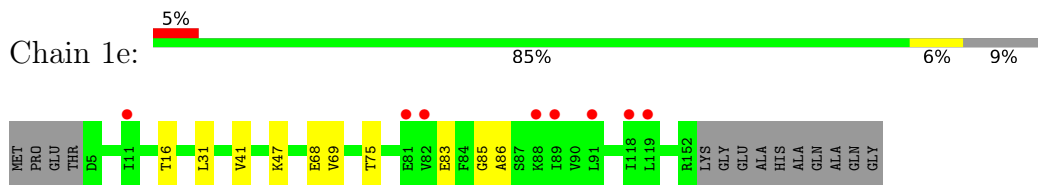
• Molecule 35: 30S ribosomal protein S4



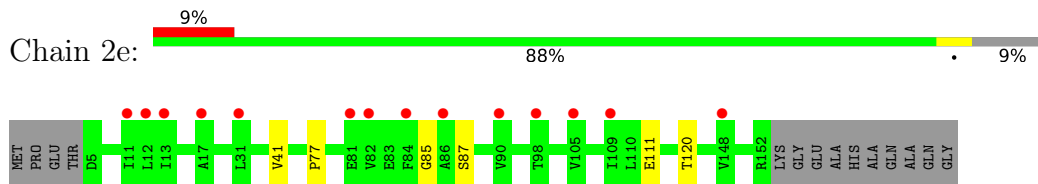
• Molecule 35: 30S ribosomal protein S4



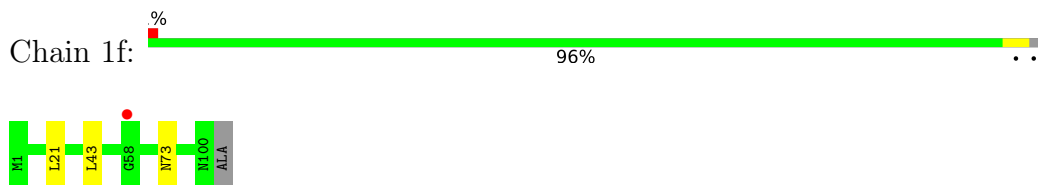
• Molecule 36: 30S ribosomal protein S5



• Molecule 36: 30S ribosomal protein S5



• Molecule 37: 30S ribosomal protein S6



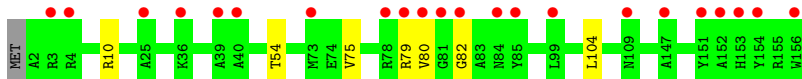
• Molecule 37: 30S ribosomal protein S6



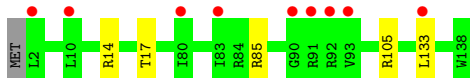
- Molecule 38: 30S ribosomal protein S7



- Molecule 38: 30S ribosomal protein S7



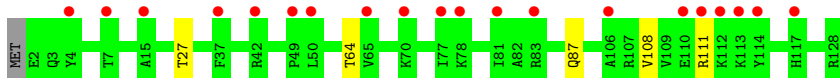
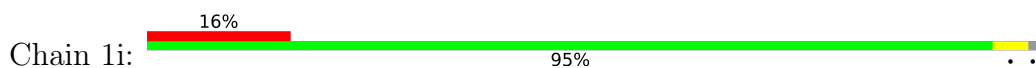
- Molecule 39: 30S ribosomal protein S8



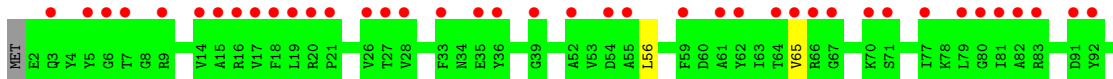
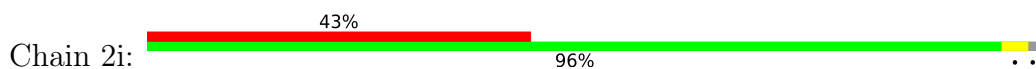
- Molecule 39: 30S ribosomal protein S8

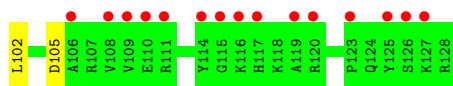


- Molecule 40: 30S ribosomal protein S9

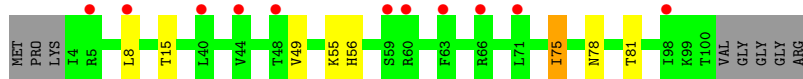
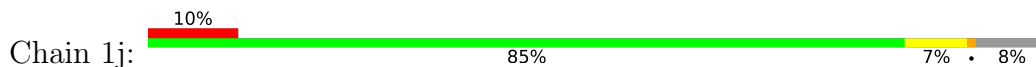


- Molecule 40: 30S ribosomal protein S9

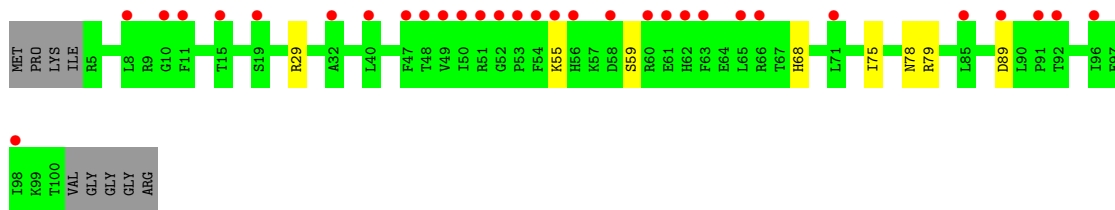
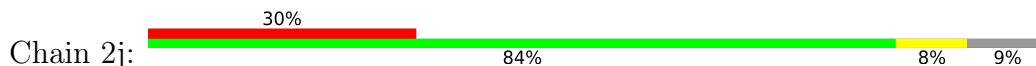




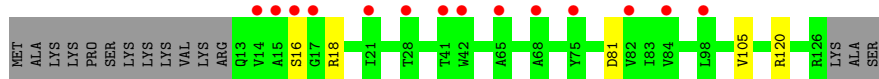
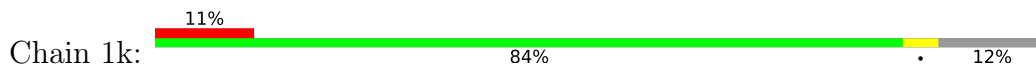
- Molecule 41: 30S ribosomal protein S10



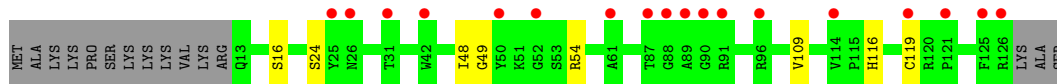
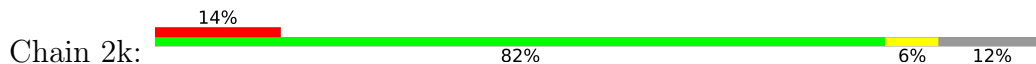
- Molecule 41: 30S ribosomal protein S10



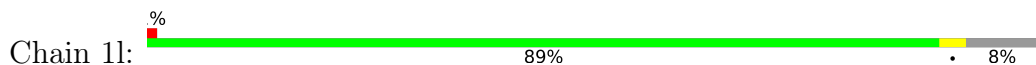
- Molecule 42: 30S ribosomal protein S11



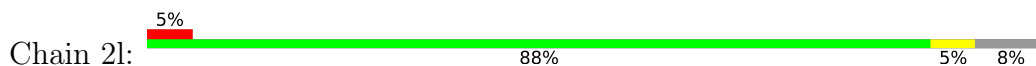
- Molecule 42: 30S ribosomal protein S11

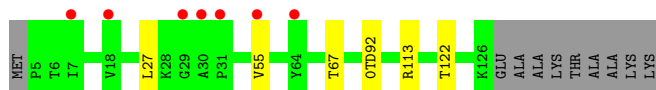


- Molecule 43: 30S ribosomal protein S12

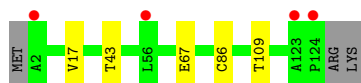


- Molecule 43: 30S ribosomal protein S12

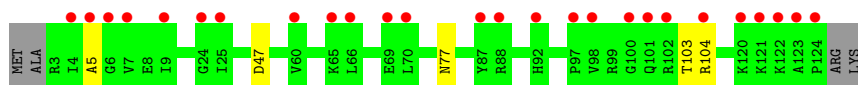




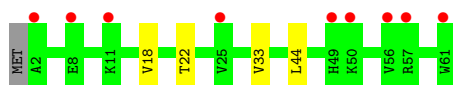
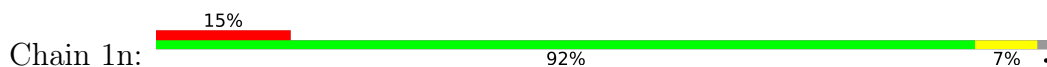
- Molecule 44: 30S ribosomal protein S13



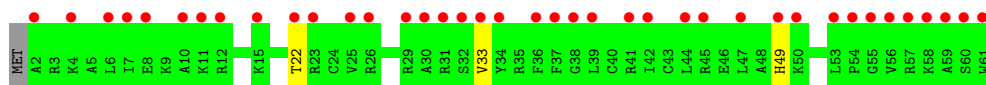
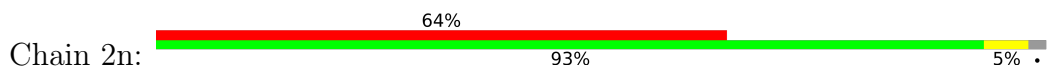
- Molecule 44: 30S ribosomal protein S13



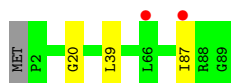
- Molecule 45: 30S ribosomal protein S14 type Z



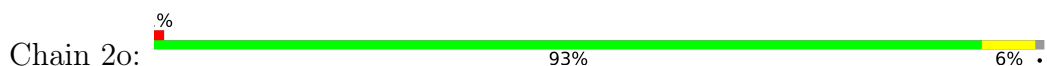
- Molecule 45: 30S ribosomal protein S14 type Z



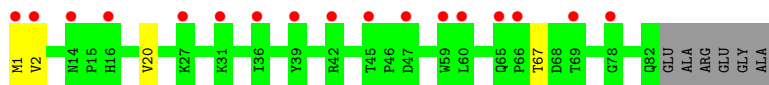
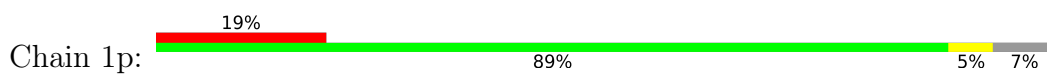
- Molecule 46: 30S ribosomal protein S15



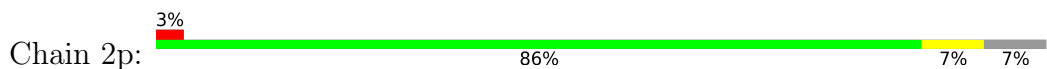
- Molecule 46: 30S ribosomal protein S15



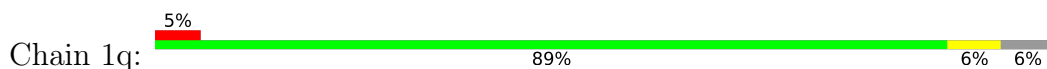
- Molecule 47: 30S ribosomal protein S16



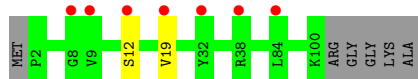
- Molecule 47: 30S ribosomal protein S16



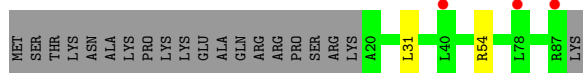
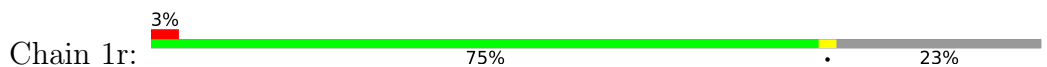
- Molecule 48: 30S ribosomal protein S17



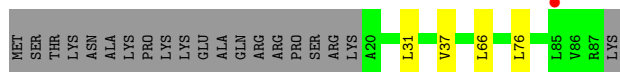
- Molecule 48: 30S ribosomal protein S17



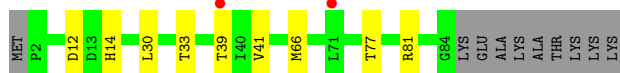
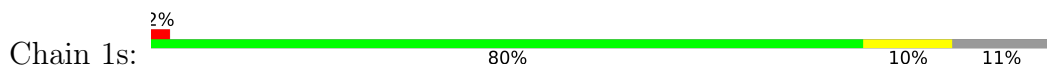
- Molecule 49: 30S ribosomal protein S18



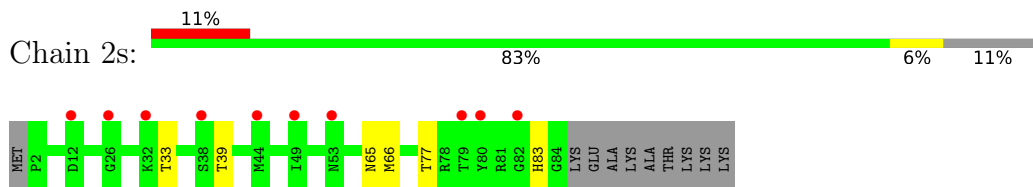
- Molecule 49: 30S ribosomal protein S18



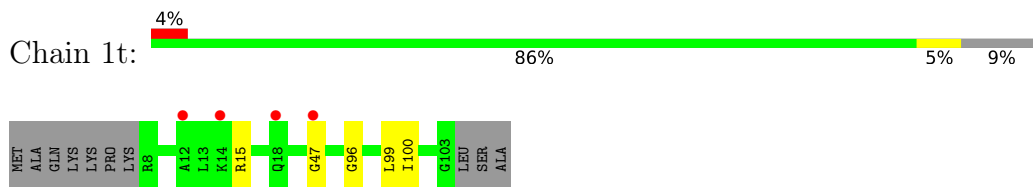
- Molecule 50: 30S ribosomal protein S19



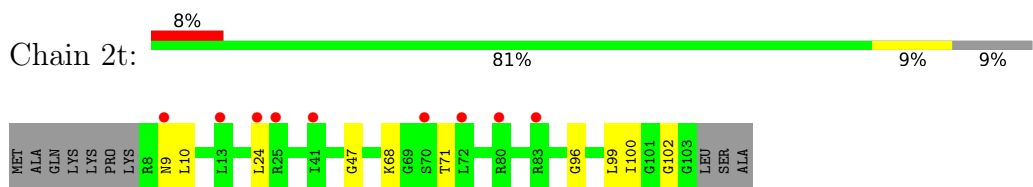
• Molecule 50: 30S ribosomal protein S19



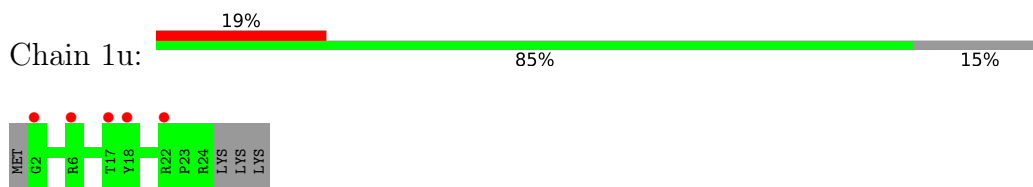
• Molecule 51: 30S ribosomal protein S20



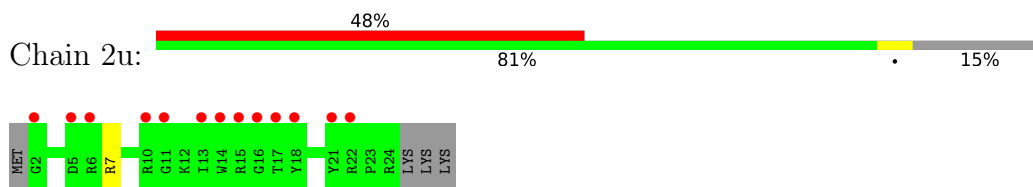
• Molecule 51: 30S ribosomal protein S20



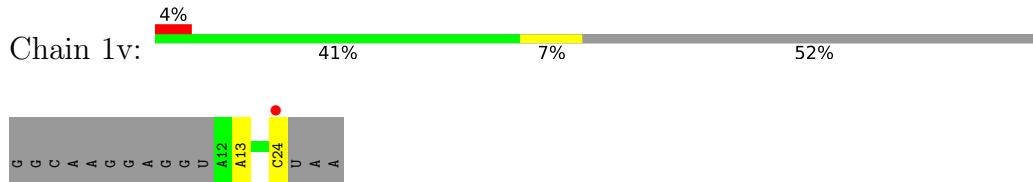
• Molecule 52: 30S ribosomal protein Thx



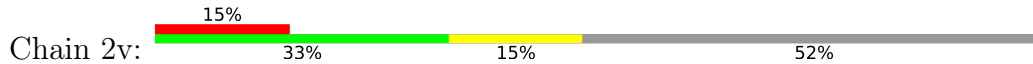
• Molecule 52: 30S ribosomal protein Thx

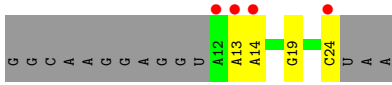


• Molecule 53: mRNA

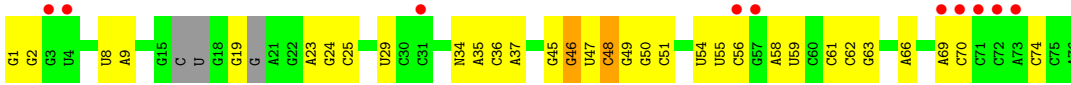


• Molecule 53: mRNA

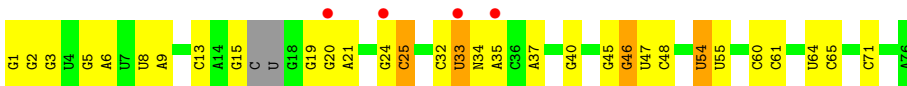




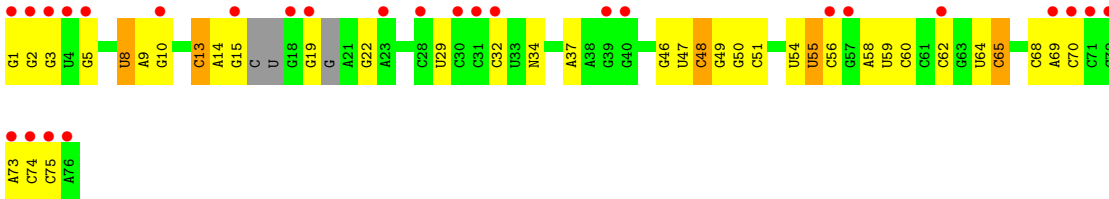
- Molecule 54: A-site and E-site tRNAs



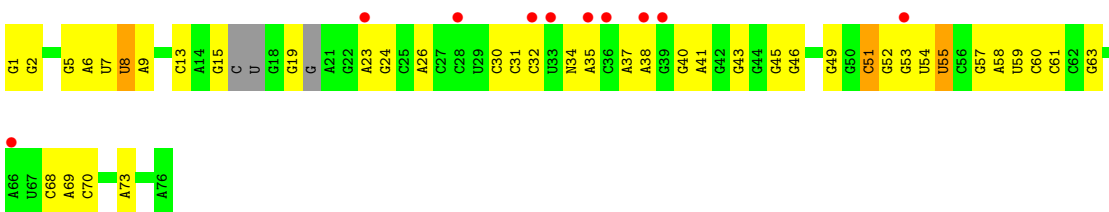
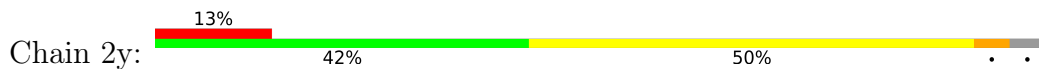
- Molecule 54: A-site and E-site tRNAs



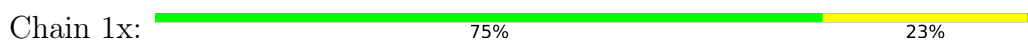
- Molecule 54: A-site and E-site tRNAs



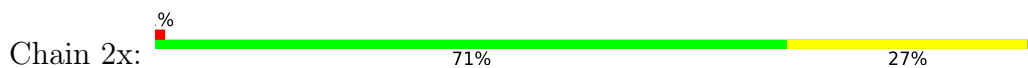
- Molecule 54: A-site and E-site tRNAs

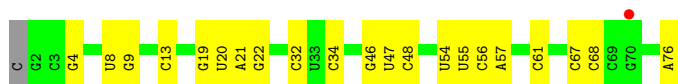


- Molecule 55: P-site tRNA



- 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)	Xtrriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.249 , 0.305 0.250 , 0.305	Depositor DCC
R_{free} test set	66731 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	54.2	Xtrriage
Anisotropy	0.151	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 59.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.34$, $\langle L^2 \rangle = 0.17$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
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

Xtrriage'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: 4SU, MA6, PSU, 7MG, UR3, OMG, ERY, 2MU, 0TD, M2G, 5MC, ZN, MG, 2MG, 2MA, SF4, 4OC, 6MZ, 5MU, CM0

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	0.33	0/69009	0.82	26/107712 (0.0%)
1	2A	0.26	0/67293	0.80	19/105034 (0.0%)
2	1B	0.33	1/2882 (0.0%)	0.78	0/4494
2	2B	0.31	1/2879 (0.0%)	0.80	1/4487 (0.0%)
3	1D	0.31	0/2186	0.49	0/2944
3	2D	0.29	0/2186	0.48	0/2944
4	1E	0.29	0/1592	0.49	0/2149
4	2E	0.27	0/1592	0.47	0/2149
5	1F	0.28	0/1619	0.47	0/2193
5	2F	0.27	0/1615	0.44	0/2188
6	1G	0.26	0/1448	0.44	0/1957
6	2G	0.26	0/1453	0.44	0/1963
7	1H	0.27	0/1356	0.46	0/1834
7	2H	0.26	0/1356	0.44	0/1834
8	1I	0.26	0/1112	0.45	0/1514
8	2I	0.25	0/1079	0.46	0/1475
9	1N	0.28	0/1144	0.45	0/1543
9	2N	0.26	0/1144	0.45	0/1543
10	1O	0.29	0/943	0.49	0/1269
10	2O	0.28	0/943	0.48	0/1269
11	1P	0.28	0/1152	0.53	1/1533 (0.1%)
11	2P	0.28	0/1152	0.47	0/1533
12	1Q	0.29	0/1143	0.46	0/1527
12	2Q	0.26	0/1143	0.46	0/1527
13	1R	0.27	0/982	0.48	0/1312
13	2R	0.24	0/982	0.45	0/1312
14	1S	0.26	0/883	0.45	0/1176
14	2S	0.25	0/880	0.44	0/1172
15	1T	0.27	0/1105	0.46	0/1477
15	2T	0.26	0/1097	0.44	0/1468
16	1U	0.28	0/977	0.43	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.26	0/977	0.39	0/1301
17	1V	0.30	0/782	0.53	0/1049
17	2V	0.28	0/782	0.50	0/1049
18	1W	0.29	0/897	0.48	0/1205
18	2W	0.26	0/897	0.45	0/1205
19	1X	0.28	0/764	0.48	0/1025
19	2X	0.27	0/764	0.45	0/1025
20	1Y	0.28	0/819	0.48	0/1095
20	2Y	0.27	0/819	0.47	0/1095
21	1Z	0.27	0/1267	0.48	0/1717
21	2Z	0.28	0/1299	0.50	0/1763
22	10	0.30	0/662	0.47	0/881
22	20	0.28	0/662	0.47	0/881
23	11	0.28	0/762	0.46	0/1014
23	21	0.28	0/762	0.44	0/1014
24	12	0.26	0/590	0.41	0/781
24	22	0.24	0/590	0.38	0/781
25	13	0.27	0/474	0.44	0/635
25	23	0.24	0/469	0.42	0/630
26	14	0.28	0/565	0.56	0/761
26	24	0.27	0/545	0.53	0/737
27	15	0.29	0/469	0.47	0/635
27	25	0.27	0/469	0.45	0/635
28	16	0.29	0/460	0.47	0/613
28	26	0.27	0/456	0.46	0/608
29	17	0.26	0/426	0.45	0/561
29	27	0.25	0/426	0.46	0/561
30	18	0.28	0/525	0.47	0/691
30	28	0.25	0/525	0.46	0/691
31	19	0.30	0/310	0.46	0/407
31	29	0.26	0/310	0.49	0/407
32	1a	0.26	0/35795	0.82	25/55864 (0.0%)
32	2a	0.26	0/35886	0.84	46/56005 (0.1%)
33	1b	0.26	0/1881	0.45	0/2542
33	2b	0.25	0/1860	0.45	0/2518
34	1c	0.26	0/1572	0.45	0/2126
34	2c	0.25	0/1566	0.44	0/2119
35	1d	0.26	0/1685	0.45	0/2262
35	2d	0.31	1/1704 (0.1%)	0.44	0/2284
36	1e	0.26	0/1145	0.46	0/1543
36	2e	0.27	0/1149	0.48	0/1548
37	1f	0.26	0/823	0.46	0/1115
37	2f	0.27	0/829	0.46	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.26	0/1250	0.41	0/1679
38	2g	0.25	0/1254	0.40	0/1683
39	1h	0.24	0/1108	0.44	0/1494
39	2h	0.25	0/1108	0.45	0/1494
40	1i	0.27	0/1002	0.45	0/1346
40	2i	0.27	0/997	0.51	0/1343
41	1j	0.24	0/722	0.48	1/982 (0.1%)
41	2j	0.24	0/727	0.47	0/988
42	1k	0.25	0/844	0.44	0/1145
42	2k	0.25	0/848	0.45	0/1149
43	1l	0.27	0/937	0.48	0/1260
43	2l	0.27	0/937	0.46	0/1260
44	1m	0.26	0/969	0.49	0/1302
44	2m	0.25	0/961	0.46	0/1291
45	1n	0.25	0/501	0.40	0/664
45	2n	0.25	0/501	0.42	0/664
46	1o	0.23	0/739	0.40	0/985
46	2o	0.25	0/739	0.44	0/985
47	1p	0.25	0/697	0.45	0/939
47	2p	0.25	0/693	0.45	0/935
48	1q	0.26	0/836	0.45	0/1117
48	2q	0.26	0/836	0.47	0/1117
49	1r	0.25	0/560	0.43	0/746
49	2r	0.24	0/560	0.42	0/746
50	1s	0.25	0/667	0.49	0/900
50	2s	0.27	0/661	0.52	0/893
51	1t	0.25	0/730	0.42	0/965
51	2t	0.24	0/729	0.46	0/965
52	1u	0.25	0/203	0.50	0/266
52	2u	0.25	0/203	0.48	0/266
53	1v	0.29	0/308	0.82	0/477
53	2v	0.30	0/308	0.83	0/477
54	1w	0.45	1/1600 (0.1%)	1.05	5/2482 (0.2%)
54	1y	0.43	1/1627 (0.1%)	1.01	3/2527 (0.1%)
54	2w	0.46	1/1600 (0.1%)	1.16	10/2482 (0.4%)
54	2y	0.47	1/1600 (0.1%)	1.11	6/2482 (0.2%)
55	1x	0.38	0/1725	0.98	7/2689 (0.3%)
55	2x	0.35	0/1725	1.02	2/2689 (0.1%)
All	All	0.29	7/316758 (0.0%)	0.75	152/474209 (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 (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	1	G	OP3-P	-10.58	1.48	1.61
2	2B	1	U	OP3-P	-10.49	1.48	1.61
54	1y	1	G	OP3-P	-10.45	1.48	1.61
54	1w	1	G	OP3-P	-10.42	1.48	1.61
54	2y	1	G	OP3-P	-10.40	1.48	1.61
2	1B	1	U	OP3-P	-10.37	1.48	1.61
35	2d	196	LEU	C-N	5.52	1.44	1.34

All (152) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	2136	C	N1-C2-O2	11.11	125.56	118.90
32	1a	1027	C	N3-C4-C5	-9.53	118.09	121.90
32	1a	1030(B)	C	C2-N1-C1'	9.04	128.74	118.80
2	2B	80	U	O4'-C1'-N1	8.80	115.24	108.20
1	2A	2155	G	N3-C2-N2	8.55	125.88	119.90
32	2a	1158	C	N1-C2-O2	8.43	123.96	118.90
32	2a	1158	C	C2-N1-C1'	8.35	127.99	118.80
32	2a	1001(A)	G	N3-C4-N9	8.32	130.99	126.00
32	1a	1030(B)	C	N1-C2-O2	8.30	123.88	118.90
32	2a	754	C	C2-N1-C1'	8.29	127.92	118.80
1	1A	1075	C	N1-C2-O2	8.03	123.72	118.90
32	1a	1027	C	C5-C4-N4	7.96	125.77	120.20
1	1A	2167	U	N1-C2-O2	7.85	128.29	122.80
55	1x	14	A	C4-C5-C6	7.77	120.89	117.00
1	1A	2167	U	C2-N1-C1'	7.74	126.99	117.70
32	2a	754	C	N1-C2-O2	7.63	123.48	118.90
54	1w	23	A	N1-C6-N6	7.63	123.18	118.60
1	1A	2167	U	N3-C2-O2	-7.57	116.90	122.20
32	2a	1028	C	C2-N3-C4	7.56	123.68	119.90
54	2w	50	G	C5-C6-O6	-7.40	124.16	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1272	G	C8-N9-C1'	-7.38	117.41	127.00
32	2a	1039	C	C5-C4-N4	-7.36	115.05	120.20
32	2a	1272	G	C4-N9-C1'	7.35	136.06	126.50
1	1A	1063	G	C5-C6-O6	7.34	133.00	128.60
1	2A	1142	U	C2-N1-C1'	7.15	126.28	117.70
32	2a	1272	G	N3-C2-N2	7.12	124.89	119.90
32	2a	1272	G	N3-C4-N9	7.11	130.27	126.00
1	2A	2136	C	N3-C2-O2	-7.09	116.94	121.90
1	1A	847	U	C2-N1-C1'	7.09	126.20	117.70
1	2A	2155	G	C6-N1-C2	7.07	129.34	125.10
32	2a	1001(A)	G	C6-C5-N7	-6.95	126.23	130.40
54	2w	65	C	N1-C2-O2	6.93	123.06	118.90
1	2A	2473	U	C2-N1-C1'	6.87	125.94	117.70
32	1a	1030(B)	C	C6-N1-C2	-6.82	117.57	120.30
32	2a	1264	C	N1-C2-O2	6.79	122.98	118.90
32	2a	1158	C	N3-C2-O2	-6.73	117.19	121.90
1	2A	1313	U	C2-N1-C1'	6.73	125.77	117.70
1	1A	1313	U	C2-N1-C1'	6.72	125.77	117.70
1	1A	1075	C	C2-N3-C4	6.70	123.25	119.90
32	1a	1030(B)	C	N3-C2-O2	-6.68	117.22	121.90
32	1a	1027	C	C2-N3-C4	6.66	123.23	119.90
32	1a	1027	C	C6-N1-C1'	6.62	128.74	120.80
32	1a	1020	U	C2-N1-C1'	6.56	125.57	117.70
32	1a	841	U	C2-N1-C1'	6.44	125.43	117.70
32	2a	754	C	C6-N1-C1'	-6.43	113.08	120.80
54	2w	15	G	N3-C2-N2	6.41	124.39	119.90
32	2a	1272	G	N1-C2-N2	-6.39	110.45	116.20
54	2y	23	A	N1-C6-N6	6.39	122.43	118.60
54	2w	48	C	N1-C2-O2	-6.32	115.11	118.90
32	2a	1033	G	C6-N1-C2	6.30	128.88	125.10
32	1a	1034	G	N3-C2-N2	6.30	124.31	119.90
32	2a	1039	C	C2-N1-C1'	6.28	125.71	118.80
1	1A	1176	G	OP1-P-O3'	6.22	118.88	105.20
32	2a	1025	U	C2-N1-C1'	6.17	125.10	117.70
32	2a	1272	G	C5-C6-O6	6.11	132.27	128.60
32	2a	1039	C	C5-C6-N1	6.11	124.06	121.00
32	1a	266	G	P-O3'-C3'	6.10	127.02	119.70
54	1y	15	G	N3-C2-N2	6.08	124.16	119.90
54	2y	60	C	C6-N1-C2	-6.06	117.88	120.30
32	2a	1001(A)	G	C4-C5-N7	6.04	113.22	110.80
32	1a	1030(B)	C	C6-N1-C1'	-6.02	113.57	120.80
1	1A	1063	G	C6-N1-C2	6.01	128.71	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	549	G	O5'-P-OP1	-6.00	100.30	105.70
1	1A	12	U	C2-N1-C1'	5.99	124.89	117.70
1	1A	2473	U	C2-N1-C1'	5.94	124.83	117.70
54	2y	51	C	C5-C4-N4	5.93	124.35	120.20
55	1x	22	G	N1-C6-O6	-5.92	116.35	119.90
32	2a	563	A	O4'-C1'-N9	5.88	112.90	108.20
32	1a	1020	U	N1-C2-O2	5.88	126.91	122.80
11	1P	33	ARG	C-N-CA	-5.87	109.97	122.30
54	1w	23	A	C5-C6-N6	-5.87	119.00	123.70
32	2a	1039	C	N3-C4-N4	5.85	122.10	118.00
32	2a	1001(A)	G	C4-N9-C1'	5.84	134.09	126.50
32	1a	1020	U	N3-C2-O2	-5.83	118.12	122.20
1	1A	548	A	P-O3'-C3'	5.82	126.68	119.70
1	1A	512	G	O4'-C1'-N9	5.81	112.85	108.20
41	1j	75	ILE	C-N-CA	-5.80	107.21	121.70
54	2w	13	C	OP1-P-O3'	5.80	117.95	105.20
32	1a	1034	G	C6-N1-C2	5.79	128.57	125.10
1	1A	847	U	N1-C2-O2	5.73	126.81	122.80
32	2a	1158	C	C6-N1-C2	-5.73	118.01	120.30
54	1y	25	C	C2-N1-C1'	5.72	125.09	118.80
32	2a	998	G	C5-C6-O6	5.71	132.03	128.60
32	1a	1027	C	C2-N1-C1'	-5.70	112.53	118.80
54	1w	23	A	C6-C5-N7	-5.69	128.32	132.30
54	2w	13	C	P-O3'-C3'	5.68	126.52	119.70
32	2a	1001(A)	G	C5-C6-O6	-5.67	125.20	128.60
1	2A	847	U	C2-N1-C1'	5.67	124.51	117.70
32	2a	1158	C	C6-N1-C1'	-5.66	114.00	120.80
32	2a	266	G	P-O3'-C3'	5.65	126.47	119.70
32	2a	1001(A)	G	N3-C4-C5	-5.63	125.78	128.60
1	1A	1075	C	C5-C4-N4	5.62	124.14	120.20
1	1A	1313	U	N3-C2-O2	-5.62	118.27	122.20
55	1x	14	A	C5-C6-N1	-5.58	114.91	117.70
1	1A	614	U	C2-N1-C1'	5.58	124.40	117.70
32	2a	1025	U	N1-C2-O2	5.57	126.69	122.80
1	2A	2155	G	C5-C6-O6	5.55	131.93	128.60
55	2x	46	G	C6-N1-C2	-5.53	121.78	125.10
32	1a	1030(B)	C	C5-C6-N1	5.52	123.76	121.00
1	2A	2149	G	N3-C4-N9	5.52	129.31	126.00
54	2w	50	G	N3-C4-N9	5.50	129.30	126.00
54	1w	48	C	N1-C2-O2	5.50	122.20	118.90
54	2w	64	U	N1-C2-O2	5.50	126.65	122.80
54	2y	68	C	N1-C2-O2	5.50	122.20	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1174	A	OP1-P-O3'	5.48	117.26	105.20
32	2a	754	C	N3-C2-O2	-5.48	118.06	121.90
32	2a	1067	A	P-O3'-C3'	5.48	126.28	119.70
32	2a	1001(A)	G	N9-C4-C5	-5.43	103.23	105.40
55	1x	14	A	C5-N7-C8	5.42	106.61	103.90
1	1A	1313	U	N1-C2-O2	5.41	126.59	122.80
32	2a	1272	G	N3-C4-C5	-5.40	125.90	128.60
54	2w	64	U	C2-N3-C4	5.40	130.24	127.00
32	1a	1065	U	P-O3'-C3'	5.39	126.17	119.70
1	1A	1063	G	N3-C2-N2	5.38	123.67	119.90
1	1A	2473	U	N1-C2-O2	5.38	126.56	122.80
1	2A	784	A	O4'-C1'-N9	5.35	112.48	108.20
55	1x	14	A	C4-N9-C1'	5.34	135.91	126.30
32	2a	1025	U	C6-N1-C1'	-5.31	113.76	121.20
32	1a	1158	C	C2-N1-C1'	5.30	124.63	118.80
32	2a	1030	C	N1-C2-O2	5.30	122.08	118.90
32	1a	1067	A	P-O3'-C3'	5.29	126.05	119.70
55	1x	14	A	C8-N9-C1'	-5.29	118.17	127.70
54	2y	51	C	N3-C4-N4	-5.29	114.30	118.00
32	1a	1034	G	C5-C6-O6	5.29	131.77	128.60
1	2A	1313	U	N1-C2-O2	5.27	126.49	122.80
54	2w	65	C	C2-N3-C4	5.26	122.53	119.90
1	2A	2129	C	N1-C2-O2	5.25	122.05	118.90
32	2a	953	G	N3-C4-N9	5.23	129.14	126.00
32	1a	841	U	C5-C6-N1	5.23	125.31	122.70
32	2a	204	U	C2-N1-C1'	5.22	123.96	117.70
1	2A	645	C	C2-N1-C1'	5.18	124.50	118.80
55	2x	22	G	N1-C6-O6	-5.16	116.80	119.90
54	1y	33	U	C2-N1-C1'	5.15	123.88	117.70
1	2A	528	A	OP1-P-O3'	5.13	116.48	105.20
54	1w	23	A	N9-C4-C5	-5.12	103.75	105.80
32	2a	1001(A)	G	C8-N9-C1'	-5.12	120.34	127.00
32	2a	1028	C	C5-C6-N1	5.11	123.55	121.00
1	1A	784	A	O4'-C1'-N9	5.10	112.28	108.20
1	2A	2140	C	N1-C2-O2	5.08	121.95	118.90
32	2a	1033	G	C5-C6-O6	5.08	131.65	128.60
32	2a	1043	C	C2-N3-C4	5.08	122.44	119.90
55	1x	46	G	C6-N1-C2	-5.07	122.06	125.10
32	1a	1027	C	N3-C2-O2	-5.05	118.36	121.90
32	2a	1065	U	P-O3'-C3'	5.04	125.75	119.70
32	1a	1034	G	N9-C4-C5	-5.03	103.39	105.40
54	2y	63	G	C6-N1-C2	5.03	128.12	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2096	U	N1-C2-O2	5.02	126.31	122.80
1	2A	1142	U	C6-N1-C1'	-5.02	114.17	121.20
1	2A	2321	G	C4-N9-C1'	5.01	133.02	126.50
1	1A	1086	A	N1-C6-N6	-5.01	115.59	118.60
1	2A	1313	U	N3-C2-O2	-5.01	118.69	122.20
32	2a	65	U	P-O3'-C3'	5.00	125.71	119.70

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 [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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%)	34	62
3	2D	273/276 (99%)	256 (94%)	17 (6%)	0	100	100
4	1E	202/206 (98%)	188 (93%)	13 (6%)	1 (0%)	29	57
4	2E	202/206 (98%)	190 (94%)	10 (5%)	2 (1%)	15	40
5	1F	201/210 (96%)	196 (98%)	3 (2%)	2 (1%)	15	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	2F	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	29	57
6	1G	179/182 (98%)	166 (93%)	11 (6%)	2 (1%)	14	38
6	2G	179/182 (98%)	159 (89%)	18 (10%)	2 (1%)	14	38
7	1H	172/180 (96%)	163 (95%)	8 (5%)	1 (1%)	25	53
7	2H	172/180 (96%)	158 (92%)	11 (6%)	3 (2%)	9	27
8	1I	144/148 (97%)	130 (90%)	13 (9%)	1 (1%)	22	50
8	2I	144/148 (97%)	131 (91%)	12 (8%)	1 (1%)	22	50
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%)	17	43
14	2S	108/112 (96%)	101 (94%)	6 (6%)	1 (1%)	17	43
15	1T	129/146 (88%)	122 (95%)	6 (5%)	1 (1%)	19	46
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%)	15	40
17	2V	99/101 (98%)	92 (93%)	5 (5%)	2 (2%)	7	23
18	1W	110/113 (97%)	105 (96%)	4 (4%)	1 (1%)	17	43
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%)	15	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
21	1Z	148/206 (72%)	135 (91%)	12 (8%)	1 (1%)	22	50
21	2Z	156/206 (76%)	131 (84%)	22 (14%)	3 (2%)	8	24
22	10	81/85 (95%)	79 (98%)	2 (2%)	0	100	100
22	20	81/85 (95%)	75 (93%)	6 (7%)	0	100	100
23	11	95/98 (97%)	92 (97%)	2 (2%)	1 (1%)	14	38
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	4
26	24	67/71 (94%)	51 (76%)	13 (19%)	3 (4%)	2	7
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%)	5	17
33	2b	229/256 (90%)	199 (87%)	24 (10%)	6 (3%)	5	17
34	1c	204/239 (85%)	189 (93%)	14 (7%)	1 (0%)	29	57
34	2c	204/239 (85%)	185 (91%)	18 (9%)	1 (0%)	29	57
35	1d	206/209 (99%)	193 (94%)	13 (6%)	0	100	100
35	2d	206/209 (99%)	195 (95%)	10 (5%)	1 (0%)	29	57
36	1e	146/162 (90%)	129 (88%)	14 (10%)	3 (2%)	7	22
36	2e	146/162 (90%)	134 (92%)	10 (7%)	2 (1%)	11	31
37	1f	98/101 (97%)	93 (95%)	5 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	2f	98/101 (97%)	90 (92%)	8 (8%)	0	100	100
38	1g	153/156 (98%)	137 (90%)	13 (8%)	3 (2%)	7	23
38	2g	153/156 (98%)	142 (93%)	8 (5%)	3 (2%)	7	23
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%)	19	46
41	1j	95/105 (90%)	83 (87%)	8 (8%)	4 (4%)	3	8
41	2j	94/105 (90%)	81 (86%)	8 (8%)	5 (5%)	2	5
42	1k	112/129 (87%)	106 (95%)	5 (4%)	1 (1%)	17	43
42	2k	112/129 (87%)	102 (91%)	8 (7%)	2 (2%)	8	25
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%)	19	46
44	2m	120/126 (95%)	107 (89%)	11 (9%)	2 (2%)	9	27
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%)	13	35
46	2o	86/89 (97%)	81 (94%)	4 (5%)	1 (1%)	13	35
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%)	15	40
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%)	13	35
50	2s	81/93 (87%)	73 (90%)	8 (10%)	0	100	100
51	1t	94/106 (89%)	86 (92%)	5 (5%)	3 (3%)	4	13
51	2t	94/106 (89%)	80 (85%)	7 (7%)	7 (7%)	1	2
52	1u	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
52	2u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	11370/12128 (94%)	10568 (93%)	709 (6%)	93 (1%)	19	46

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

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Mol	Chain	Res	Type
51	1t	100	ILE
17	2V	24	LYS
21	2Z	142	SER
33	2b	9	GLU
36	2e	77	PRO
41	2j	55	LYS
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

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Mol	Chain	Res	Type
26	24	64	GLY
33	2b	189	ASP
34	2c	66	VAL
34	1c	66	VAL
36	1e	69	VAL
38	2g	80	VAL
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 [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	215/218 (99%)	208 (97%)	7 (3%)	38	68
3	2D	215/218 (99%)	204 (95%)	11 (5%)	24	52
4	1E	164/166 (99%)	151 (92%)	13 (8%)	12	31
4	2E	164/166 (99%)	152 (93%)	12 (7%)	14	35
5	1F	160/166 (96%)	147 (92%)	13 (8%)	11	30
5	2F	159/166 (96%)	147 (92%)	12 (8%)	13	34
6	1G	143/156 (92%)	137 (96%)	6 (4%)	30	60
6	2G	143/156 (92%)	133 (93%)	10 (7%)	15	37
7	1H	144/148 (97%)	134 (93%)	10 (7%)	15	38
7	2H	144/148 (97%)	140 (97%)	4 (3%)	43	73
8	1I	113/124 (91%)	103 (91%)	10 (9%)	10	26
8	2I	105/124 (85%)	99 (94%)	6 (6%)	20	47
9	1N	118/119 (99%)	110 (93%)	8 (7%)	16	38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	2N	118/119 (99%)	109 (92%)	9 (8%)	13	33
10	1O	100/100 (100%)	95 (95%)	5 (5%)	24	53
10	2O	100/100 (100%)	99 (99%)	1 (1%)	76	91
11	1P	115/116 (99%)	108 (94%)	7 (6%)	18	43
11	2P	115/116 (99%)	108 (94%)	7 (6%)	18	43
12	1Q	111/111 (100%)	108 (97%)	3 (3%)	44	74
12	2Q	111/111 (100%)	109 (98%)	2 (2%)	59	82
13	1R	101/101 (100%)	92 (91%)	9 (9%)	9	26
13	2R	101/101 (100%)	91 (90%)	10 (10%)	8	21
14	1S	86/88 (98%)	81 (94%)	5 (6%)	20	46
14	2S	85/88 (97%)	80 (94%)	5 (6%)	19	45
15	1T	115/127 (91%)	107 (93%)	8 (7%)	15	37
15	2T	113/127 (89%)	109 (96%)	4 (4%)	36	67
16	1U	93/94 (99%)	90 (97%)	3 (3%)	39	69
16	2U	93/94 (99%)	92 (99%)	1 (1%)	73	90
17	1V	80/82 (98%)	73 (91%)	7 (9%)	10	26
17	2V	80/82 (98%)	77 (96%)	3 (4%)	33	64
18	1W	90/92 (98%)	87 (97%)	3 (3%)	38	68
18	2W	90/92 (98%)	89 (99%)	1 (1%)	73	90
19	1X	77/78 (99%)	73 (95%)	4 (5%)	23	51
19	2X	77/78 (99%)	72 (94%)	5 (6%)	17	41
20	1Y	85/91 (93%)	79 (93%)	6 (7%)	14	36
20	2Y	85/91 (93%)	80 (94%)	5 (6%)	19	45
21	1Z	135/179 (75%)	123 (91%)	12 (9%)	9	26
21	2Z	137/179 (76%)	131 (96%)	6 (4%)	28	58
22	10	65/67 (97%)	61 (94%)	4 (6%)	18	43
22	20	65/67 (97%)	61 (94%)	4 (6%)	18	43
23	11	80/83 (96%)	73 (91%)	7 (9%)	10	26
23	21	80/83 (96%)	77 (96%)	3 (4%)	33	64
24	12	65/67 (97%)	65 (100%)	0	100	100
24	22	65/67 (97%)	65 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
25	13	51/52 (98%)	49 (96%)	2 (4%)	32	63
25	23	50/52 (96%)	47 (94%)	3 (6%)	19	45
26	14	59/63 (94%)	55 (93%)	4 (7%)	16	38
26	24	53/63 (84%)	48 (91%)	5 (9%)	8	23
27	15	50/52 (96%)	46 (92%)	4 (8%)	12	31
27	25	50/52 (96%)	45 (90%)	5 (10%)	7	21
28	16	51/52 (98%)	48 (94%)	3 (6%)	19	45
28	26	50/52 (96%)	45 (90%)	5 (10%)	7	21
29	17	41/42 (98%)	37 (90%)	4 (10%)	8	21
29	27	41/42 (98%)	37 (90%)	4 (10%)	8	21
30	18	54/55 (98%)	49 (91%)	5 (9%)	9	24
30	28	54/55 (98%)	48 (89%)	6 (11%)	6	16
31	19	34/34 (100%)	33 (97%)	1 (3%)	42	72
31	29	34/34 (100%)	34 (100%)	0	100	100
33	1b	192/220 (87%)	180 (94%)	12 (6%)	18	42
33	2b	187/220 (85%)	171 (91%)	16 (9%)	10	27
34	1c	142/188 (76%)	132 (93%)	10 (7%)	15	37
34	2c	140/188 (74%)	135 (96%)	5 (4%)	35	66
35	1d	169/181 (93%)	157 (93%)	12 (7%)	14	36
35	2d	173/181 (96%)	165 (95%)	8 (5%)	27	56
36	1e	113/123 (92%)	106 (94%)	7 (6%)	18	43
36	2e	114/123 (93%)	110 (96%)	4 (4%)	36	67
37	1f	84/90 (93%)	81 (96%)	3 (4%)	35	66
37	2f	85/90 (94%)	81 (95%)	4 (5%)	26	56
38	1g	119/127 (94%)	115 (97%)	4 (3%)	37	67
38	2g	120/127 (94%)	116 (97%)	4 (3%)	38	68
39	1h	114/119 (96%)	109 (96%)	5 (4%)	28	58
39	2h	114/119 (96%)	106 (93%)	8 (7%)	15	37
40	1i	90/99 (91%)	85 (94%)	5 (6%)	21	47
40	2i	89/99 (90%)	86 (97%)	3 (3%)	37	67
41	1j	66/92 (72%)	62 (94%)	4 (6%)	18	43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	2j	69/92 (75%)	66 (96%)	3 (4%)	29	59
42	1k	82/99 (83%)	78 (95%)	4 (5%)	25	54
42	2k	83/99 (84%)	77 (93%)	6 (7%)	14	35
43	1l	96/108 (89%)	93 (97%)	3 (3%)	40	71
43	2l	96/108 (89%)	91 (95%)	5 (5%)	23	51
44	1m	93/101 (92%)	89 (96%)	4 (4%)	29	59
44	2m	92/101 (91%)	89 (97%)	3 (3%)	38	68
45	1n	49/50 (98%)	45 (92%)	4 (8%)	11	29
45	2n	49/50 (98%)	46 (94%)	3 (6%)	18	43
46	1o	78/80 (98%)	76 (97%)	2 (3%)	46	75
46	2o	78/80 (98%)	74 (95%)	4 (5%)	24	52
47	1p	69/74 (93%)	65 (94%)	4 (6%)	20	46
47	2p	68/74 (92%)	62 (91%)	6 (9%)	10	26
48	1q	94/97 (97%)	89 (95%)	5 (5%)	22	50
48	2q	94/97 (97%)	92 (98%)	2 (2%)	53	79
49	1r	59/77 (77%)	57 (97%)	2 (3%)	37	67
49	2r	59/77 (77%)	55 (93%)	4 (7%)	16	38
50	1s	69/80 (86%)	61 (88%)	8 (12%)	5	14
50	2s	67/80 (84%)	61 (91%)	6 (9%)	9	25
51	1t	70/82 (85%)	69 (99%)	1 (1%)	67	86
51	2t	70/82 (85%)	67 (96%)	3 (4%)	29	59
52	1u	18/22 (82%)	18 (100%)	0	100	100
52	2u	18/22 (82%)	17 (94%)	1 (6%)	21	47
All	All	9303/10064 (92%)	8784 (94%)	519 (6%)	21	47

All (519) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	10	THR
3	1D	111	LEU
3	1D	155	LEU
3	1D	193	VAL
3	1D	221	VAL
3	1D	229	VAL

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Mol	Chain	Res	Type
3	1D	242	ARG
4	1E	2	LYS
4	1E	12	THR
4	1E	21	VAL
4	1E	24	THR
4	1E	34	VAL
4	1E	47	VAL
4	1E	81	ILE
4	1E	113	PHE
4	1E	116	VAL
4	1E	128	SER
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	70	THR
5	1F	88	VAL
5	1F	93	LYS
5	1F	106	ARG
5	1F	140	LEU
5	1F	144	LYS
5	1F	149	ASP
5	1F	170	LEU
5	1F	175	THR
5	1F	192	LEU
6	1G	3	LEU
6	1G	31	VAL
6	1G	43	LEU
6	1G	82	LEU
6	1G	145	THR
6	1G	159	VAL
7	1H	7	LEU
7	1H	15	VAL
7	1H	42	ARG
7	1H	70	THR
7	1H	90	LYS
7	1H	124	GLU
7	1H	125	VAL
7	1H	129	THR
7	1H	134	SER

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Mol	Chain	Res	Type
7	1H	149	ARG
8	1I	12	LEU
8	1I	20	ASP
8	1I	38	LEU
8	1I	75	LEU
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	28	THR
9	1N	35	ARG
9	1N	46	VAL
9	1N	48	MET
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	57	THR
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	75	THR
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	67	LEU
13	1R	96	ARG

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Mol	Chain	Res	Type
13	1R	111	LEU
14	1S	3	ARG
14	1S	14	VAL
14	1S	21	THR
14	1S	46	VAL
14	1S	53	SER
15	1T	6	LEU
15	1T	21	GLU
15	1T	28	VAL
15	1T	49	VAL
15	1T	82	LEU
15	1T	90	GLN
15	1T	95	ARG
15	1T	96	ARG
16	1U	77	SER
16	1U	78	THR
16	1U	83	LEU
17	1V	46	VAL
17	1V	51	VAL
17	1V	52	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	79	VAL
17	1V	82	ARG
18	1W	92	ARG
18	1W	96	ILE
18	1W	107	LEU
19	1X	27	THR
19	1X	50	LYS
19	1X	75	ASP
19	1X	80	ILE
20	1Y	1	MET
20	1Y	7	VAL
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	41	LEU
21	1Z	75	ASN
21	1Z	76	LEU

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Mol	Chain	Res	Type
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	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	78	LYS
23	11	95	LEU
25	13	30	ARG
25	13	34	GLU
26	14	46	GLN
26	14	49	PHE
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	6	ARG
28	16	24	GLU
28	16	48	VAL
29	17	1	MET
29	17	39	ARG
29	17	41	ARG
29	17	43	THR
30	18	14	VAL
30	18	31	HIS
30	18	34	TRP
30	18	52	LYS
30	18	59	LYS
31	19	6	SER
33	1b	21	ARG

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Mol	Chain	Res	Type
33	1b	24	TRP
33	1b	49	GLU
33	1b	67	THR
33	1b	76	GLN
33	1b	87	ARG
33	1b	94	ASN
33	1b	108	ILE
33	1b	117	GLU
33	1b	160	ASP
33	1b	170	GLU
33	1b	197	VAL
34	1c	3	ASN
34	1c	5	ILE
34	1c	15	THR
34	1c	28	GLN
34	1c	36	ASP
34	1c	49	SER
34	1c	57	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	107	ARG
35	1d	127	THR
35	1d	135	LEU
35	1d	137	SER
35	1d	139	ARG
35	1d	155	LEU
35	1d	194	LEU
36	1e	16	THR
36	1e	31	LEU
36	1e	41	VAL
36	1e	47	LYS
36	1e	68	GLU
36	1e	75	THR
36	1e	83	GLU
37	1f	21	LEU
37	1f	43	LEU

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Mol	Chain	Res	Type
37	1f	73	ASN
38	1g	20	ASP
38	1g	75	VAL
38	1g	79	ARG
38	1g	92	SER
39	1h	14	ARG
39	1h	17	THR
39	1h	85	ARG
39	1h	105	ARG
39	1h	133	LEU
40	1i	27	THR
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
42	1k	16	SER
42	1k	18	ARG
42	1k	81	ASP
42	1k	120	ARG
43	1l	44	THR
43	1l	58	VAL
43	1l	117	ARG
44	1m	17	VAL
44	1m	43	THR
44	1m	86	CYS
44	1m	109	THR
45	1n	18	VAL
45	1n	22	THR
45	1n	33	VAL
45	1n	44	LEU
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	36	ILE

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Mol	Chain	Res	Type
48	1q	53	LEU
48	1q	63	ARG
48	1q	72	ARG
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	66	MET
50	1s	77	THR
51	1t	15	ARG
3	2D	10	THR
3	2D	15	PHE
3	2D	32	SER
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
4	2E	12	THR
4	2E	21	VAL
4	2E	27	LEU
4	2E	38	THR
4	2E	55	ASN
4	2E	76	ARG
4	2E	113	PHE
4	2E	116	VAL
4	2E	119	ARG
4	2E	163	GLU
4	2E	195	LEU
5	2F	12	LEU
5	2F	24	LEU
5	2F	53	THR
5	2F	57	VAL
5	2F	65	TRP

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Mol	Chain	Res	Type
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	191	ARG
6	2G	5	VAL
6	2G	43	LEU
6	2G	79	ASN
6	2G	97	ASP
6	2G	109	VAL
6	2G	130	ASN
6	2G	145	THR
6	2G	150	ASP
6	2G	161	THR
6	2G	165	THR
7	2H	67	LEU
7	2H	105	LEU
7	2H	107	VAL
7	2H	134	SER
8	2I	38	LEU
8	2I	42	SER
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	60	ILE
9	2N	73	THR
9	2N	121	LYS
9	2N	127	ASP
9	2N	139	GLU
10	2O	116	SER
11	2P	42	SER
11	2P	65	ARG
11	2P	75	ILE
11	2P	95	VAL
11	2P	99	LEU

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Mol	Chain	Res	Type
11	2P	136	GLU
11	2P	148	LEU
12	2Q	75	THR
12	2Q	139	GLU
13	2R	24	GLN
13	2R	29	LEU
13	2R	35	THR
13	2R	44	LEU
13	2R	67	LEU
13	2R	86	ARG
13	2R	89	ASP
13	2R	91	GLN
13	2R	96	ARG
13	2R	100	LEU
14	2S	4	LEU
14	2S	8	GLU
14	2S	48	LEU
14	2S	53	SER
14	2S	110	LEU
15	2T	57	PHE
15	2T	67	SER
15	2T	74	ARG
15	2T	88	ILE
16	2U	17	ILE
17	2V	7	THR
17	2V	51	VAL
17	2V	79	VAL
18	2W	49	LYS
19	2X	50	LYS
19	2X	52	VAL
19	2X	70	LEU
19	2X	75	ASP
19	2X	82	GLN
20	2Y	1	MET
20	2Y	8	LYS
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	154	ASP

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Mol	Chain	Res	Type
21	2Z	170	THR
21	2Z	174	VAL
22	20	14	ARG
22	20	20	ARG
22	20	53	MET
22	20	67	VAL
23	21	3	LYS
23	21	11	ARG
23	21	35	THR
25	23	30	ARG
25	23	31	LEU
25	23	54	VAL
26	24	3	GLU
26	24	26	SER
26	24	37	SER
26	24	52	THR
26	24	67	TYR
27	25	6	VAL
27	25	26	THR
27	25	33	CYS
27	25	40	LYS
27	25	58	LEU
28	26	9	LEU
28	26	13	CYS
28	26	14	THR
28	26	30	THR
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	31	HIS
30	28	32	LEU
30	28	37	SER
30	28	57	ARG
33	2b	7	VAL
33	2b	22	LYS
33	2b	24	TRP
33	2b	79	ASP
33	2b	94	ASN

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Mol	Chain	Res	Type
33	2b	108	ILE
33	2b	111	ARG
33	2b	121	LEU
33	2b	124	SER
33	2b	127	ILE
33	2b	158	LEU
33	2b	164	VAL
33	2b	189	ASP
33	2b	192	SER
33	2b	209	ARG
33	2b	233	SER
34	2c	47	LEU
34	2c	115	LEU
34	2c	144	SER
34	2c	154	SER
34	2c	193	TYR
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	194	LEU
36	2e	41	VAL
36	2e	87	SER
36	2e	111	GLU
36	2e	120	THR
37	2f	19	LEU
37	2f	48	LEU
37	2f	61	LEU
37	2f	83	ASP
38	2g	10	ARG
38	2g	75	VAL
38	2g	79	ARG
38	2g	104	LEU
39	2h	2	LEU
39	2h	3	THR
39	2h	25	ASP
39	2h	63	LEU
39	2h	83	ILE
39	2h	105	ARG

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Mol	Chain	Res	Type
39	2h	135	CYS
39	2h	137	VAL
40	2i	65	VAL
40	2i	102	LEU
40	2i	105	ASP
41	2j	59	SER
41	2j	68	HIS
41	2j	89	ASP
42	2k	16	SER
42	2k	24	SER
42	2k	48	ILE
42	2k	109	VAL
42	2k	116	HIS
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	47	ASP
44	2m	77	ASN
44	2m	103	THR
45	2n	22	THR
45	2n	33	VAL
45	2n	49	HIS
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
49	2r	31	LEU
49	2r	37	VAL
49	2r	66	LEU
49	2r	76	LEU
50	2s	33	THR

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Mol	Chain	Res	Type
50	2s	39	THR
50	2s	65	ASN
50	2s	66	MET
50	2s	77	THR
50	2s	83	HIS
51	2t	24	LEU
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 (97) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	96	HIS
3	1D	116	GLN
3	1D	143	HIS
3	1D	201	HIS
5	1F	69	HIS
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
11	1P	35	HIS
11	1P	128	HIS
13	1R	71	GLN
14	1S	38	GLN
15	1T	58	ASN
16	1U	94	ASN
18	1W	60	ASN
20	1Y	6	HIS
21	1Z	34	ASN
22	10	29	GLN
22	10	50	ASN
24	12	65	ASN
26	14	20	ASN
26	14	40	HIS
30	18	35	GLN
31	19	34	GLN
33	1b	40	HIS

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Mol	Chain	Res	Type
33	1b	78	GLN
34	1c	6	HIS
34	1c	162	GLN
34	1c	176	HIS
36	1e	78	HIS
36	1e	130	ASN
37	1f	73	ASN
38	1g	28	ASN
38	1g	64	GLN
38	1g	86	GLN
38	1g	153	HIS
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	56	HIS
44	1m	92	HIS
46	1o	51	HIS
50	1s	14	HIS
50	1s	23	ASN
50	1s	47	HIS
51	1t	42	GLN
3	2D	87	ASN
3	2D	116	GLN
8	2I	11	ASN
10	2O	5	GLN
12	2Q	123	HIS
16	2U	44	ASN
18	2W	62	HIS
19	2X	31	HIS
21	2Z	32	HIS
21	2Z	132	ASN
22	20	29	GLN
22	20	35	ASN
23	21	56	GLN
24	22	65	ASN
28	26	32	ASN
31	29	34	GLN
33	2b	40	HIS
33	2b	78	GLN

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Mol	Chain	Res	Type
33	2b	212	GLN
34	2c	6	HIS
34	2c	104	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	119	GLN
35	2d	123	HIS
35	2d	125	HIS
36	2e	20	GLN
36	2e	78	HIS
36	2e	130	ASN
37	2f	13	ASN
37	2f	32	ASN
37	2f	100	ASN
40	2i	23	ASN
40	2i	31	GLN
40	2i	38	GLN
40	2i	117	HIS
41	2j	21	GLN
41	2j	56	HIS
44	2m	62	ASN
47	2p	16	HIS
49	2r	63	GLN
50	2s	23	ASN
50	2s	69	HIS
51	2t	42	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2861/2915 (98%)	492 (17%)	23 (0%)
1	2A	2788/2915 (95%)	540 (19%)	19 (0%)
2	1B	119/121 (98%)	10 (8%)	0
2	2B	118/121 (97%)	33 (27%)	0
32	1a	1494/1521 (98%)	276 (18%)	0
32	2a	1498/1521 (98%)	319 (21%)	0
53	1v	12/27 (44%)	2 (16%)	0
53	2v	12/27 (44%)	4 (33%)	0
54	1w	68/76 (89%)	25 (36%)	0
54	1y	70/76 (92%)	25 (35%)	0
54	2w	68/76 (89%)	29 (42%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
54	2y	68/76 (89%)	32 (47%)	0
55	1x	75/77 (97%)	11 (14%)	0
55	2x	75/77 (97%)	15 (20%)	0
All	All	9326/9626 (96%)	1813 (19%)	42 (0%)

All (1813) 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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	1921	G
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	2A	827	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	2504	U
1	2A	2505	G
1	2A	2506	U
1	2A	2518	A
1	2A	2520	C
1	2A	2529	G
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	1406	U

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Mol	Chain	Res	Type
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	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
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

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Mol	Chain	Res	Type
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
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	35	A
54	2y	38	A
54	2y	40	G

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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 [i](#)

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$
54	CM0	1y	34	54	22,26,27	1.60	4 (18%)	28,37,40	1.99	4 (14%)
54	5MU	1y	54	54	19,22,23	1.42	5 (26%)	28,32,35	2.14	7 (25%)
1	5MU	2A	1939	56,1	19,22,23	1.42	6 (31%)	28,32,35	2.19	6 (21%)
32	MA6	2a	1518	32	19,26,27	0.99	1 (5%)	18,38,41	1.73	6 (33%)
55	5MC	2x	32	55	18,22,23	1.01	2 (11%)	26,32,35	1.27	3 (11%)
54	7MG	1w	46	54	22,26,27	1.37	2 (9%)	29,39,42	2.51	7 (24%)
32	5MC	2a	1404	32	18,22,23	0.99	2 (11%)	26,32,35	1.20	3 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	2MU	2A	2552	56,1	19,22,24	1.24	2 (10%)	26,31,36	1.80	6 (23%)
54	CM0	2w	34	54	22,26,27	1.54	4 (18%)	28,37,40	1.77	4 (14%)
32	5MC	2a	1400	32	18,22,23	1.01	2 (11%)	26,32,35	1.24	2 (7%)
54	4SU	1w	8	54	18,21,22	1.75	5 (27%)	26,30,33	2.10	5 (19%)
1	5MC	2A	1962	56,1	18,22,23	0.94	2 (11%)	26,32,35	1.10	2 (7%)
54	PSU	1y	55	54	18,21,22	1.33	2 (11%)	22,30,33	1.92	4 (18%)
54	7MG	2y	46	54	22,26,27	1.44	3 (13%)	29,39,42	2.63	6 (20%)
32	7MG	2a	527	56,32	22,26,27	1.32	3 (13%)	29,39,42	2.52	7 (24%)
1	5MC	1A	1942	1	18,22,23	0.96	2 (11%)	26,32,35	1.18	3 (11%)
1	5MU	1A	1915	1	19,22,23	1.48	4 (21%)	28,32,35	1.98	7 (25%)
1	PSU	1A	1911	1	18,21,22	1.36	2 (11%)	22,30,33	1.89	3 (13%)
54	6MZ	1w	37	54	18,25,26	0.96	1 (5%)	16,36,39	2.04	4 (25%)
54	5MU	2y	54	54	19,22,23	1.35	5 (26%)	28,32,35	2.23	9 (32%)
1	PSU	2A	1917	56,1	18,21,22	1.33	2 (11%)	22,30,33	1.89	4 (18%)
1	PSU	1A	2605	56,1	18,21,22	1.39	3 (16%)	22,30,33	1.84	3 (13%)
55	4SU	1x	8	55	18,21,22	1.99	6 (33%)	26,30,33	1.72	7 (26%)
32	2MG	1a	1207	56,32	18,26,27	1.02	1 (5%)	16,38,41	0.99	1 (6%)
1	4OC	1A	1920	1	19,22,24	0.84	0	26,31,35	1.03	1 (3%)
1	PSU	2A	1911	1	18,21,22	1.35	2 (11%)	22,30,33	1.83	3 (13%)
1	2MU	1A	2552	56,1	19,22,24	1.27	4 (21%)	26,31,36	1.75	5 (19%)
1	5MU	1A	1939	1	19,22,23	1.45	6 (31%)	28,32,35	2.12	5 (17%)
54	PSU	2y	55	54	18,21,22	1.32	2 (11%)	22,30,33	1.90	3 (13%)
32	M2G	1a	966	32	20,27,28	1.43	3 (15%)	22,40,43	0.95	2 (9%)
32	2MG	2a	1207	56,32	18,26,27	0.89	1 (5%)	16,38,41	1.11	2 (12%)
55	5MU	1x	54	55	19,22,23	1.42	4 (21%)	28,32,35	1.78	6 (21%)
54	CM0	1w	34	54	22,26,27	1.48	4 (18%)	28,37,40	1.73	4 (14%)
54	PSU	2w	55	54	18,21,22	1.36	2 (11%)	22,30,33	1.89	4 (18%)
55	5MU	2x	54	55	19,22,23	1.41	6 (31%)	28,32,35	2.00	6 (21%)
55	5MC	1x	32	55	18,22,23	1.01	2 (11%)	26,32,35	1.18	3 (11%)
32	PSU	1a	516	56,32	18,21,22	1.35	2 (11%)	22,30,33	1.90	4 (18%)
54	7MG	1y	46	54	22,26,27	1.31	3 (13%)	29,39,42	2.55	6 (20%)
1	OMG	2A	2251	56,55,1	18,26,27	0.93	1 (5%)	19,38,41	1.05	2 (10%)
32	PSU	2a	516	32	18,21,22	1.33	2 (11%)	22,30,33	1.83	3 (13%)
32	UR3	1a	1498	32	19,22,23	0.97	0	26,32,35	1.45	1 (3%)
55	PSU	1x	55	55	18,21,22	1.32	2 (11%)	22,30,33	1.91	4 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	7MG	2w	46	54	22,26,27	1.31	4 (18%)	29,39,42	2.43	6 (20%)
32	7MG	1a	527	32	22,26,27	1.39	5 (22%)	29,39,42	2.57	7 (24%)
32	UR3	2a	1498	32	19,22,23	1.07	2 (10%)	26,32,35	1.46	3 (11%)
32	5MC	1a	967	32	18,22,23	0.96	2 (11%)	26,32,35	1.13	3 (11%)
43	0TD	1l	92	43	7,9,10	4.82	1 (14%)	6,11,13	8.98	3 (50%)
32	4OC	2a	1402	56,32	20,23,24	0.79	0	26,32,35	0.92	0
54	6MZ	2y	37	32,54	18,25,26	0.95	1 (5%)	16,36,39	2.02	4 (25%)
32	5MC	1a	1404	32	18,22,23	0.96	2 (11%)	26,32,35	1.12	2 (7%)
32	MA6	1a	1518	32	19,26,27	0.99	1 (5%)	18,38,41	1.74	6 (33%)
32	M2G	2a	966	32	20,27,28	1.48	3 (15%)	22,40,43	0.94	2 (9%)
55	PSU	2x	55	55	18,21,22	1.33	2 (11%)	22,30,33	1.84	3 (13%)
32	5MC	1a	1400	32	18,22,23	0.98	2 (11%)	26,32,35	1.11	2 (7%)
1	5MC	1A	1962	56,1	18,22,23	0.97	2 (11%)	26,32,35	1.14	2 (7%)
54	4SU	1y	8	54	18,21,22	1.84	4 (22%)	26,30,33	2.44	8 (30%)
54	5MU	1w	54	54	19,22,23	1.35	5 (26%)	28,32,35	2.08	6 (21%)
1	5MC	2A	1942	1	18,22,23	0.96	2 (11%)	26,32,35	1.09	2 (7%)
1	2MA	1A	2503	56,1	17,25,26	0.94	0	17,37,40	1.02	2 (11%)
54	6MZ	2w	37	54	18,25,26	0.96	1 (5%)	16,36,39	1.72	3 (18%)
54	5MU	2w	54	54	19,22,23	1.38	4 (21%)	28,32,35	1.90	6 (21%)
32	MA6	2a	1519	32	19,26,27	0.99	1 (5%)	18,38,41	1.66	5 (27%)
32	MA6	1a	1519	32	19,26,27	1.04	1 (5%)	18,38,41	1.75	6 (33%)
54	CM0	2y	34	54	22,26,27	1.63	4 (18%)	28,37,40	1.78	4 (14%)
54	4SU	2y	8	54	18,21,22	1.76	4 (22%)	26,30,33	2.68	6 (23%)
55	4SU	2x	8	55	18,21,22	1.95	5 (27%)	26,30,33	1.75	8 (30%)
54	6MZ	1y	37	54	18,25,26	0.99	1 (5%)	16,36,39	2.21	4 (25%)
32	4OC	1a	1402	32	20,23,24	0.76	0	26,32,35	0.87	1 (3%)
1	PSU	1A	1917	1	18,21,22	1.35	2 (11%)	22,30,33	1.90	3 (13%)
32	5MC	2a	1407	56,32	18,22,23	0.96	2 (11%)	26,32,35	1.12	2 (7%)
32	5MC	1a	1407	32	18,22,23	0.96	2 (11%)	26,32,35	1.13	2 (7%)
1	5MU	2A	1915	1	19,22,23	1.41	5 (26%)	28,32,35	2.02	6 (21%)
32	5MC	2a	967	32	18,22,23	0.99	2 (11%)	26,32,35	1.10	2 (7%)
54	4SU	2w	8	54	18,21,22	1.70	4 (22%)	26,30,33	2.27	5 (19%)
54	PSU	1w	55	54	18,21,22	1.40	2 (11%)	22,30,33	1.97	4 (18%)
1	OMG	1A	2251	56,55,1	18,26,27	0.95	1 (5%)	19,38,41	1.11	2 (10%)
1	4OC	2A	1920	1	19,22,24	0.81	0	26,31,35	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	2MA	2A	2503	1	17,25,26	1.00	1 (5%)	17,37,40	0.96	2 (11%)
43	0TD	2l	92	43	7,9,10	4.73	1 (14%)	6,11,13	2.31	3 (50%)
1	PSU	2A	2605	1	18,21,22	1.33	2 (11%)	22,30,33	1.84	3 (13%)

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
54	CM0	1y	34	54	-	2/12/30/31	0/2/2/2
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	1/7/29/30	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
54	7MG	1w	46	54	-	2/7/37/38	0/3/3/3
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
1	2MU	2A	2552	56,1	-	0/9/27/28	0/2/2/2
54	CM0	2w	34	54	-	5/12/30/31	0/2/2/2
32	5MC	2a	1400	32	-	5/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	56,1	-	0/7/25/26	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
54	7MG	2y	46	54	-	1/7/37/38	0/3/3/3
32	7MG	2a	527	56,32	-	3/7/37/38	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	3/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
54	6MZ	1w	37	54	-	0/5/27/28	0/3/3/3
54	5MU	2y	54	54	-	2/7/25/26	0/2/2/2
1	PSU	2A	1917	56,1	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	56,1	-	0/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
32	2MG	1a	1207	56,32	-	0/5/27/28	0/3/3/3
1	4OC	1A	1920	1	-	1/9/27/30	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
1	2MU	1A	2552	56,1	-	0/9/27/28	0/2/2/2
1	5MU	1A	1939	1	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	2/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	2MG	2a	1207	56,32	-	2/5/27/28	0/3/3/3
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
54	CM0	1w	34	54	-	7/12/30/31	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	56,32	-	0/7/25/26	0/2/2/2
54	7MG	1y	46	54	-	5/7/37/38	0/3/3/3
1	OMG	2A	2251	56,55,1	-	0/5/27/28	0/3/3/3
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
54	7MG	2w	46	54	-	2/7/37/38	0/3/3/3
32	7MG	1a	527	32	-	1/7/37/38	0/3/3/3
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
43	0TD	1l	92	43	-	3/7/12/14	-
32	4OC	2a	1402	56,32	-	2/9/29/30	0/2/2/2
54	6MZ	2y	37	32,54	-	1/5/27/28	0/3/3/3
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	1/7/29/30	0/3/3/3
32	M2G	2a	966	32	-	4/7/29/30	0/3/3/3
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
1	5MC	1A	1962	56,1	-	0/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	2/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
1	2MA	1A	2503	56,1	-	2/3/25/26	0/3/3/3
54	6MZ	2w	37	54	-	2/5/27/28	0/3/3/3
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	4/7/29/30	0/3/3/3
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3
54	CM0	2y	34	54	-	5/12/30/31	0/2/2/2
54	4SU	2y	8	54	-	2/7/25/26	0/2/2/2
55	4SU	2x	8	55	-	1/7/25/26	0/2/2/2
54	6MZ	1y	37	54	-	0/5/27/28	0/3/3/3
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	56,32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	2/7/25/26	0/2/2/2
54	4SU	2w	8	54	-	1/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	56,55,1	-	0/5/27/28	0/3/3/3
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2
1	2MA	2A	2503	1	-	2/3/25/26	0/3/3/3
43	0TD	2l	92	43	-	1/7/12/14	-
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2

All (200) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.45	1.69	1.82
43	2l	92	0TD	CB-SB	-12.19	1.69	1.82
54	2y	34	CM0	C6-C5	5.31	1.40	1.34
54	1y	34	CM0	C6-C5	5.05	1.40	1.34
54	2w	34	CM0	C6-C5	4.84	1.39	1.34
32	2a	966	M2G	C2-N3	4.84	1.36	1.30
54	2y	8	4SU	C4-S4	-4.77	1.59	1.68
32	1a	966	M2G	C2-N3	4.48	1.36	1.30
54	1w	34	CM0	C6-C5	4.47	1.39	1.34
54	1w	8	4SU	C4-S4	-4.46	1.59	1.68
55	1x	8	4SU	C4-S4	-4.44	1.60	1.68
54	1y	8	4SU	C4-S4	-4.33	1.60	1.68
54	2w	8	4SU	C4-S4	-4.33	1.60	1.68
55	2x	8	4SU	C4-N3	-4.30	1.33	1.37
55	2x	8	4SU	C4-S4	-4.21	1.60	1.68
55	1x	8	4SU	C4-N3	-4.21	1.33	1.37
54	1w	55	PSU	C6-C5	3.98	1.40	1.35
54	2w	55	PSU	C6-C5	3.71	1.39	1.35
54	1w	46	7MG	C4-N9	-3.58	1.33	1.37
55	2x	55	PSU	C6-C5	3.44	1.39	1.35
54	1y	8	4SU	C2-N1	3.43	1.43	1.38
54	1y	8	4SU	C4-N3	-3.35	1.34	1.37
32	1a	516	PSU	C6-C5	3.34	1.39	1.35
1	1A	1911	PSU	C6-C5	3.34	1.39	1.35
54	1y	55	PSU	C6-C5	3.33	1.39	1.35
32	2a	516	PSU	C6-C5	3.31	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	1911	PSU	C6-C5	3.30	1.39	1.35
1	2A	1917	PSU	C6-C5	3.22	1.39	1.35
54	1w	8	4SU	C4-N3	-3.22	1.34	1.37
55	1x	55	PSU	C6-C5	3.19	1.39	1.35
55	2x	8	4SU	C2-N3	-3.17	1.32	1.38
54	2y	46	7MG	C5-C4	3.16	1.48	1.38
1	2A	2605	PSU	C6-C5	3.16	1.39	1.35
55	1x	8	4SU	C5-C4	-3.13	1.38	1.42
54	2w	46	7MG	C4-N9	-3.12	1.34	1.37
1	1A	1915	5MU	C2-N1	3.11	1.43	1.38
54	1y	46	7MG	C5-C4	3.08	1.48	1.38
1	1A	1917	PSU	C6-C5	3.07	1.38	1.35
55	1x	8	4SU	C2-N3	-3.05	1.32	1.38
1	1A	2605	PSU	C6-C5	3.03	1.38	1.35
55	1x	32	5MC	C6-C5	3.02	1.39	1.34
32	1a	527	7MG	C5-C4	3.01	1.47	1.38
32	2a	527	7MG	C4-N9	-2.99	1.34	1.37
1	1A	1915	5MU	C6-C5	2.97	1.39	1.34
32	2a	1400	5MC	C6-C5	2.96	1.39	1.34
55	1x	54	5MU	C6-C5	2.95	1.39	1.34
54	2w	8	4SU	C4-N3	-2.95	1.34	1.37
54	1w	46	7MG	C5-C4	2.95	1.47	1.38
54	2y	55	PSU	C6-C5	2.94	1.38	1.35
32	1a	1400	5MC	C6-C5	2.93	1.39	1.34
54	2y	8	4SU	C5-C4	-2.91	1.38	1.42
55	2x	32	5MC	C6-C5	2.91	1.39	1.34
32	2a	527	7MG	C5-C4	2.91	1.47	1.38
54	2w	46	7MG	C5-C4	2.91	1.47	1.38
1	1A	1939	5MU	C6-C5	2.87	1.39	1.34
54	1y	54	5MU	C6-C5	2.87	1.39	1.34
32	2a	967	5MC	C6-C5	2.86	1.39	1.34
1	1A	2605	PSU	C4-N3	-2.86	1.33	1.38
1	2A	1939	5MU	C6-C5	2.84	1.39	1.34
1	1A	1962	5MC	C6-C5	2.82	1.39	1.34
1	2A	1915	5MU	C6-C5	2.82	1.39	1.34
32	2a	966	M2G	C2-N2	2.82	1.40	1.35
32	1a	966	M2G	C2-N2	2.81	1.40	1.35
54	1y	34	CM0	C4-N3	-2.80	1.33	1.38
54	2y	46	7MG	C6-N1	-2.80	1.33	1.38
32	2a	1407	5MC	C6-C5	2.80	1.39	1.34
32	1a	967	5MC	C6-C5	2.79	1.39	1.34
54	2y	34	CM0	C4-N3	-2.79	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	46	7MG	C8-N9	2.79	1.47	1.46
54	1w	54	5MU	C6-C5	2.79	1.39	1.34
54	2w	54	5MU	C6-C5	2.79	1.39	1.34
1	1A	2251	OMG	C6-N1	-2.78	1.33	1.37
1	2A	1962	5MC	C6-C5	2.77	1.39	1.34
1	2A	1942	5MC	C6-C5	2.77	1.39	1.34
32	1a	1207	2MG	C6-N1	-2.75	1.33	1.37
1	1A	1939	5MU	C4-N3	-2.74	1.33	1.38
54	1w	34	CM0	C4-N3	-2.74	1.33	1.38
54	1y	55	PSU	C4-N3	-2.74	1.33	1.38
55	2x	8	4SU	C5-C4	-2.73	1.39	1.42
1	2A	2605	PSU	C4-N3	-2.73	1.33	1.38
32	1a	1407	5MC	C6-C5	2.73	1.39	1.34
55	1x	54	5MU	C4-N3	-2.71	1.33	1.38
1	2A	1939	5MU	C4-N3	-2.70	1.33	1.38
54	2y	37	6MZ	C5-C4	2.68	1.48	1.40
32	1a	1404	5MC	C6-C5	2.67	1.39	1.34
54	2y	8	4SU	C4-N3	-2.67	1.34	1.37
1	1A	1917	PSU	C4-N3	-2.66	1.33	1.38
55	2x	54	5MU	C6-C5	2.66	1.39	1.34
54	2w	54	5MU	C4-N3	-2.65	1.33	1.38
54	1y	8	4SU	C5-C4	-2.64	1.39	1.42
54	2y	55	PSU	C4-N3	-2.64	1.33	1.38
32	1a	516	PSU	C4-N3	-2.63	1.34	1.38
54	1w	37	6MZ	C5-C4	2.62	1.47	1.40
32	2a	1404	5MC	C6-C5	2.62	1.38	1.34
32	2a	1519	MA6	C5-C4	2.61	1.47	1.40
54	2w	34	CM0	C4-N3	-2.61	1.34	1.38
32	1a	527	7MG	C4-N9	-2.60	1.34	1.37
55	1x	55	PSU	C4-N3	-2.60	1.34	1.38
1	2A	2552	2MU	C4-N3	-2.60	1.33	1.38
54	2y	8	4SU	C2-N1	2.59	1.42	1.38
54	1y	37	6MZ	C5-C4	2.59	1.47	1.40
32	2a	1518	MA6	C5-C4	2.58	1.47	1.40
1	2A	1917	PSU	C4-N3	-2.58	1.34	1.38
54	1w	8	4SU	C5-C4	-2.56	1.39	1.42
54	2w	37	6MZ	C5-C4	2.56	1.47	1.40
55	2x	54	5MU	C4-N3	-2.56	1.34	1.38
54	1y	54	5MU	C2-N1	2.53	1.42	1.38
54	1w	54	5MU	C4-N3	-2.53	1.34	1.38
54	2y	34	CM0	C2-N1	2.52	1.42	1.38
1	1A	2552	2MU	C4-N3	-2.52	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	1911	PSU	C4-N3	-2.52	1.34	1.38
1	1A	1942	5MC	C6-C5	2.51	1.38	1.34
32	1a	1518	MA6	C5-C4	2.51	1.47	1.40
1	1A	1915	5MU	C4-N3	-2.50	1.34	1.38
1	1A	1911	PSU	C4-N3	-2.50	1.34	1.38
54	2w	8	4SU	C2-N1	2.49	1.42	1.38
32	2a	516	PSU	C4-N3	-2.49	1.34	1.38
54	2y	54	5MU	C6-C5	2.49	1.38	1.34
55	2x	55	PSU	C4-N3	-2.47	1.34	1.38
32	1a	1519	MA6	C5-C4	2.47	1.47	1.40
1	2A	1915	5MU	C4-C5	2.47	1.48	1.44
1	1A	1939	5MU	C2-N1	2.44	1.42	1.38
1	1A	2552	2MU	C5-C4	2.43	1.49	1.43
54	2y	54	5MU	C2-N1	2.42	1.42	1.38
1	2A	2251	OMG	C6-N1	-2.42	1.34	1.37
1	1A	1942	5MC	C6-N1	-2.40	1.33	1.38
1	1A	1915	5MU	C4-C5	2.40	1.48	1.44
1	2A	1915	5MU	C4-N3	-2.40	1.34	1.38
54	1y	46	7MG	C6-N1	-2.40	1.34	1.38
54	1y	54	5MU	C4-N3	-2.40	1.34	1.38
32	1a	966	M2G	C6-N1	-2.40	1.34	1.37
32	1a	527	7MG	C6-N1	-2.39	1.34	1.38
54	2w	55	PSU	C4-N3	-2.39	1.34	1.38
54	1y	46	7MG	C4-N9	-2.38	1.34	1.37
1	2A	1939	5MU	C4-C5	2.38	1.48	1.44
32	2a	966	M2G	C6-N1	-2.38	1.34	1.37
54	2w	8	4SU	C5-C4	-2.36	1.39	1.42
1	2A	2552	2MU	C5-C4	2.36	1.48	1.43
55	2x	54	5MU	C4-C5	2.35	1.48	1.44
54	2y	54	5MU	C4-C5	2.34	1.48	1.44
32	1a	527	7MG	C8-N9	2.34	1.47	1.46
32	2a	1498	UR3	C2-N1	2.34	1.41	1.38
32	2a	1207	2MG	C6-N1	-2.33	1.34	1.37
1	2A	1915	5MU	C6-N1	-2.32	1.34	1.38
54	2y	54	5MU	C6-N1	-2.32	1.34	1.38
54	1y	54	5MU	C4-C5	2.32	1.48	1.44
55	2x	8	4SU	C2-N1	2.30	1.42	1.38
54	2y	54	5MU	C4-N3	-2.30	1.34	1.38
1	2A	1939	5MU	C6-N1	-2.29	1.34	1.38
54	2w	34	CM0	C2-N1	2.27	1.42	1.38
54	1y	34	CM0	C2-N1	2.27	1.42	1.38
1	1A	1939	5MU	C4-C5	2.26	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1400	5MC	C6-N1	-2.25	1.34	1.38
54	1w	8	4SU	C2-N1	2.25	1.42	1.38
32	2a	527	7MG	C6-N1	-2.25	1.34	1.38
55	2x	54	5MU	C2-N1	2.25	1.42	1.38
32	1a	1407	5MC	C6-N1	-2.23	1.34	1.38
54	1y	54	5MU	C6-N1	-2.21	1.34	1.38
32	1a	1404	5MC	C6-N1	-2.19	1.34	1.38
55	1x	8	4SU	C2-N1	2.19	1.42	1.38
55	1x	54	5MU	C4-C5	2.19	1.48	1.44
1	1A	1962	5MC	C6-N1	-2.18	1.34	1.38
32	1a	967	5MC	C6-N1	-2.18	1.34	1.38
54	1w	55	PSU	C4-N3	-2.18	1.34	1.38
1	2A	2503	2MA	C2-N3	2.18	1.35	1.31
32	2a	1407	5MC	C6-N1	-2.17	1.34	1.38
1	1A	1939	5MU	C6-N1	-2.17	1.34	1.38
1	1A	2605	PSU	C2-N3	-2.17	1.33	1.37
1	2A	1915	5MU	C2-N1	2.16	1.41	1.38
55	1x	54	5MU	C2-N1	2.16	1.41	1.38
54	1w	54	5MU	C2-N1	2.15	1.41	1.38
1	2A	1942	5MC	C6-N1	-2.15	1.34	1.38
55	2x	32	5MC	C6-N1	-2.15	1.34	1.38
54	2w	54	5MU	C2-N1	2.14	1.41	1.38
1	2A	1962	5MC	C6-N1	-2.14	1.34	1.38
55	1x	32	5MC	C6-N1	-2.13	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.13	1.34	1.38
54	2y	34	CM0	C2-N3	-2.12	1.34	1.38
1	2A	1939	5MU	C2-N1	2.12	1.41	1.38
32	2a	1498	UR3	C6-C5	2.12	1.40	1.35
54	2w	54	5MU	C4-C5	2.12	1.48	1.44
54	1w	34	CM0	C2-N3	-2.11	1.34	1.38
55	2x	54	5MU	C6-N1	-2.11	1.34	1.38
1	1A	2552	2MU	C2-N1	2.11	1.41	1.38
54	1y	34	CM0	C2-N3	-2.11	1.34	1.38
1	1A	1939	5MU	C2-N3	-2.11	1.34	1.38
32	2a	967	5MC	C6-N1	-2.09	1.34	1.38
54	1w	54	5MU	C6-N1	-2.08	1.34	1.38
54	2w	46	7MG	C5-C6	2.08	1.48	1.43
1	2A	1939	5MU	C2-N3	-2.05	1.34	1.38
1	1A	2552	2MU	C2-N3	-2.05	1.34	1.38
54	1w	8	4SU	C2-N3	-2.05	1.34	1.38
32	2a	1404	5MC	C6-N1	-2.04	1.34	1.38
54	2w	46	7MG	C8-N9	2.04	1.47	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	34	CM0	C2-N1	2.04	1.41	1.38
55	2x	54	5MU	C2-N3	-2.04	1.34	1.38
54	2w	34	CM0	C2-N3	-2.03	1.34	1.38
55	1x	8	4SU	O2-C2	2.01	1.26	1.23
54	1w	54	5MU	C4-C5	2.01	1.48	1.44
32	1a	527	7MG	C5-N7	-2.00	1.33	1.35

All (315) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	1l	92	0TD	CSB-SB-CB	-21.65	63.27	102.44
54	2y	46	7MG	N9-C4-N3	9.65	139.90	125.47
32	1a	527	7MG	N9-C4-N3	9.24	139.29	125.47
54	1y	46	7MG	N9-C4-N3	9.13	139.12	125.47
32	2a	527	7MG	N9-C4-N3	8.74	138.54	125.47
54	1w	46	7MG	N9-C4-N3	8.50	138.19	125.47
54	2w	46	7MG	N9-C4-N3	7.85	137.22	125.47
54	2y	8	4SU	C4-N3-C2	-7.23	120.31	127.34
54	2w	8	4SU	C4-N3-C2	-6.98	120.56	127.34
54	2y	8	4SU	C5-C4-N3	6.85	121.04	114.69
54	1y	8	4SU	C1'-N1-C2	6.32	129.00	117.57
54	1y	37	6MZ	C2-N1-C6	6.21	121.91	116.59
54	1w	8	4SU	C4-N3-C2	-6.17	121.34	127.34
32	1a	1498	UR3	C4-N3-C2	-6.14	118.78	124.56
1	1A	1917	PSU	N1-C2-N3	6.12	122.07	115.13
54	2y	55	PSU	N1-C2-N3	6.02	121.95	115.13
54	1y	55	PSU	N1-C2-N3	5.98	121.91	115.13
32	1a	516	PSU	N1-C2-N3	5.97	121.89	115.13
1	1A	1911	PSU	N1-C2-N3	5.94	121.86	115.13
55	1x	55	PSU	N1-C2-N3	5.94	121.86	115.13
1	2A	1917	PSU	N1-C2-N3	5.92	121.84	115.13
54	1w	37	6MZ	C2-N1-C6	5.92	121.67	116.59
54	1w	8	4SU	C5-C4-N3	5.92	120.18	114.69
54	2w	8	4SU	C5-C4-N3	5.81	120.08	114.69
54	2y	37	6MZ	C2-N1-C6	5.77	121.54	116.59
55	2x	55	PSU	N1-C2-N3	5.76	121.66	115.13
1	2A	1911	PSU	N1-C2-N3	5.76	121.66	115.13
32	1a	527	7MG	C5-C4-N3	-5.74	117.19	128.13
32	2a	1498	UR3	C4-N3-C2	-5.67	119.22	124.56
54	2y	46	7MG	C5-C4-N3	-5.66	117.35	128.13
54	1y	34	CM0	C4-N3-C2	-5.65	120.03	127.35
1	2A	2605	PSU	N1-C2-N3	5.63	121.51	115.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	516	PSU	N1-C2-N3	5.59	121.47	115.13
54	2w	55	PSU	N1-C2-N3	5.58	121.45	115.13
1	1A	2605	PSU	N1-C2-N3	5.58	121.45	115.13
54	1w	46	7MG	N9-C8-N7	-5.57	95.42	103.38
54	1y	34	CM0	N3-C2-N1	5.56	122.28	114.89
54	1w	55	PSU	N1-C2-N3	5.56	121.43	115.13
1	2A	1939	5MU	C4-N3-C2	-5.50	120.23	127.35
54	2y	34	CM0	N3-C2-N1	5.46	122.14	114.89
54	1y	46	7MG	C5-C4-N3	-5.45	117.75	128.13
54	2w	37	6MZ	C2-N1-C6	5.44	121.25	116.59
54	2y	54	5MU	C4-N3-C2	-5.41	120.35	127.35
54	2y	8	4SU	C5-C4-S4	-5.40	117.51	124.47
32	2a	527	7MG	N9-C8-N7	-5.39	95.67	103.38
54	1y	54	5MU	C4-N3-C2	-5.36	120.41	127.35
1	1A	1939	5MU	C4-N3-C2	-5.33	120.44	127.35
54	1w	34	CM0	C4-N3-C2	-5.33	120.46	127.35
54	2w	34	CM0	C4-N3-C2	-5.29	120.50	127.35
1	1A	2552	2MU	N3-C2-N1	5.25	121.86	114.89
1	2A	1939	5MU	N3-C2-N1	5.24	121.85	114.89
54	2w	46	7MG	C5-C4-N3	-5.24	118.14	128.13
54	1y	8	4SU	C4-N3-C2	-5.22	122.27	127.34
54	2w	34	CM0	N3-C2-N1	5.20	121.79	114.89
32	2a	527	7MG	C5-C4-N3	-5.20	118.22	128.13
54	2y	34	CM0	C4-N3-C2	-5.19	120.63	127.35
54	1y	46	7MG	N9-C8-N7	-5.19	95.96	103.38
54	2w	46	7MG	N9-C8-N7	-5.16	96.00	103.38
54	1w	54	5MU	C4-N3-C2	-5.15	120.69	127.35
54	1y	54	5MU	N3-C2-N1	5.11	121.67	114.89
1	2A	2552	2MU	N3-C2-N1	5.07	121.63	114.89
54	1w	34	CM0	N3-C2-N1	5.06	121.60	114.89
1	2A	1915	5MU	C4-N3-C2	-5.00	120.88	127.35
54	2y	54	5MU	C5-C4-N3	4.96	119.55	115.31
54	1w	54	5MU	N3-C2-N1	4.93	121.43	114.89
1	1A	1939	5MU	C5-C4-N3	4.93	119.52	115.31
54	1y	8	4SU	C5-C4-N3	4.87	119.21	114.69
32	1a	527	7MG	N9-C8-N7	-4.86	96.43	103.38
55	2x	54	5MU	C4-N3-C2	-4.85	121.07	127.35
54	1w	46	7MG	C5-C4-N3	-4.85	118.89	128.13
1	1A	1939	5MU	N3-C2-N1	4.81	121.27	114.89
1	2A	1915	5MU	N3-C2-N1	4.80	121.27	114.89
55	2x	54	5MU	N3-C2-N1	4.79	121.25	114.89
1	1A	1915	5MU	N3-C2-N1	4.76	121.20	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1w	54	5MU	O4-C4-C5	-4.68	119.48	124.90
54	1y	54	5MU	C5-C4-N3	4.65	119.28	115.31
55	1x	8	4SU	C5-C4-N3	4.63	118.98	114.69
1	2A	1939	5MU	C5-C4-N3	4.61	119.25	115.31
54	2y	46	7MG	C2-N3-C4	4.60	120.50	112.30
54	2y	8	4SU	C1'-N1-C2	4.60	125.90	117.57
54	2y	54	5MU	N3-C2-N1	4.58	120.97	114.89
54	2y	46	7MG	N9-C8-N7	-4.57	96.84	103.38
54	2w	54	5MU	C4-N3-C2	-4.57	121.43	127.35
54	1y	34	CM0	C7-O5-C5	4.54	123.52	117.58
1	1A	1915	5MU	C4-N3-C2	-4.53	121.49	127.35
54	2w	54	5MU	N3-C2-N1	4.51	120.88	114.89
1	1A	2552	2MU	C4-N3-C2	-4.50	120.65	126.58
54	2w	46	7MG	C2-N3-C4	4.48	120.28	112.30
55	1x	54	5MU	N3-C2-N1	4.47	120.83	114.89
54	1w	54	5MU	C5-C4-N3	4.41	119.08	115.31
54	1y	46	7MG	C2-N3-C4	4.41	120.15	112.30
54	2y	54	5MU	O4-C4-C5	-4.40	119.81	124.90
1	2A	2552	2MU	C4-N3-C2	-4.38	120.81	126.58
55	2x	8	4SU	C5-C4-N3	4.37	118.75	114.69
32	1a	527	7MG	C2-N3-C4	4.36	120.07	112.30
54	1w	55	PSU	O2-C2-N1	-4.35	118.00	122.79
54	1y	54	5MU	O4-C4-C5	-4.34	119.88	124.90
54	2w	8	4SU	N3-C2-N1	4.33	120.64	114.89
1	1A	1939	5MU	C5-C6-N1	-4.32	118.90	123.34
32	2a	527	7MG	C2-N3-C4	4.28	119.92	112.30
54	1w	46	7MG	C2-N3-C4	4.22	119.83	112.30
1	2A	1915	5MU	C5-C4-N3	4.19	118.89	115.31
55	2x	54	5MU	C5-C4-N3	4.15	118.85	115.31
32	2a	1400	5MC	C5-C6-N1	-4.14	119.08	123.34
55	1x	54	5MU	C4-N3-C2	-4.13	122.00	127.35
54	2w	54	5MU	C5-C4-N3	4.12	118.83	115.31
1	2A	1939	5MU	O4-C4-C5	-4.11	120.14	124.90
54	1y	37	6MZ	C9-N6-C6	-4.10	119.34	122.87
54	2w	54	5MU	O4-C4-C5	-4.10	120.15	124.90
54	1y	55	PSU	C4-N3-C2	-4.08	120.46	126.34
1	2A	1939	5MU	C5-C6-N1	-4.08	119.14	123.34
1	1A	1939	5MU	O4-C4-C5	-4.05	120.20	124.90
1	2A	1915	5MU	O4-C4-C5	-4.03	120.23	124.90
55	1x	55	PSU	C4-N3-C2	-4.00	120.57	126.34
55	2x	54	5MU	O4-C4-C5	-4.00	120.27	124.90
1	1A	1915	5MU	C5-C4-N3	3.99	118.72	115.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	55	PSU	C4-N3-C2	-3.98	120.61	126.34
54	1y	8	4SU	N3-C2-N1	3.97	120.16	114.89
1	1A	1915	5MU	O4-C4-C5	-3.97	120.30	124.90
1	2A	1917	PSU	C4-N3-C2	-3.93	120.67	126.34
1	2A	2605	PSU	C4-N3-C2	-3.93	120.67	126.34
32	1a	516	PSU	C4-N3-C2	-3.93	120.68	126.34
55	2x	8	4SU	C1'-N1-C2	3.93	124.68	117.57
1	1A	1917	PSU	C4-N3-C2	-3.92	120.69	126.34
55	1x	8	4SU	C1'-N1-C2	3.86	124.56	117.57
55	2x	55	PSU	C4-N3-C2	-3.85	120.79	126.34
1	1A	2605	PSU	C4-N3-C2	-3.84	120.80	126.34
32	2a	516	PSU	C4-N3-C2	-3.78	120.89	126.34
1	1A	1911	PSU	C4-N3-C2	-3.77	120.90	126.34
54	2w	8	4SU	C5-C4-S4	-3.76	119.62	124.47
1	2A	1911	PSU	C4-N3-C2	-3.72	120.97	126.34
1	1A	1911	PSU	O2-C2-N1	-3.71	118.70	122.79
54	1w	54	5MU	C5-C6-N1	-3.69	119.54	123.34
32	1a	1400	5MC	C5-C6-N1	-3.69	119.54	123.34
54	2w	55	PSU	C4-N3-C2	-3.63	121.11	126.34
43	2l	92	0TD	CSB-SB-CB	-3.63	95.88	102.44
55	1x	54	5MU	C5-C4-N3	3.62	118.41	115.31
54	1w	8	4SU	N3-C2-N1	3.59	119.66	114.89
1	1A	1962	5MC	C5-C6-N1	-3.54	119.70	123.34
55	1x	54	5MU	O4-C4-C5	-3.52	120.82	124.90
32	2a	1518	MA6	C9-N6-C6	-3.51	108.90	119.51
54	1w	8	4SU	C5-C4-S4	-3.50	119.96	124.47
32	1a	1519	MA6	C4-C5-N7	-3.48	105.77	109.40
32	1a	1407	5MC	C5-C6-N1	-3.47	119.77	123.34
32	1a	1519	MA6	N3-C2-N1	-3.47	123.26	128.68
54	2w	54	5MU	C5-C6-N1	-3.45	119.79	123.34
32	2a	967	5MC	C5-C6-N1	-3.44	119.80	123.34
54	1w	37	6MZ	C9-N6-C6	-3.44	119.91	122.87
54	2y	8	4SU	N3-C2-N1	3.42	119.42	114.89
54	2w	55	PSU	O2-C2-N1	-3.41	119.04	122.79
32	2a	1518	MA6	N3-C2-N1	-3.41	123.35	128.68
32	2a	1519	MA6	N1-C6-N6	3.39	120.63	117.06
1	2A	1915	5MU	C5-C6-N1	-3.39	119.85	123.34
55	1x	32	5MC	C5-C6-N1	-3.38	119.87	123.34
1	2A	1917	PSU	O2-C2-N1	-3.37	119.08	122.79
55	2x	54	5MU	C5-C6-N1	-3.37	119.87	123.34
1	2A	1962	5MC	C5-C6-N1	-3.37	119.88	123.34
1	1A	1917	PSU	O2-C2-N1	-3.36	119.09	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1w	55	PSU	C4-N3-C2	-3.36	121.49	126.34
54	1y	8	4SU	O2-C2-N3	-3.35	115.25	121.50
32	2a	1407	5MC	C5-C6-N1	-3.35	119.89	123.34
32	1a	1404	5MC	C5-C6-N1	-3.34	119.90	123.34
32	1a	1518	MA6	C9-N6-C6	-3.34	109.41	119.51
32	2a	516	PSU	O2-C2-N1	-3.32	119.13	122.79
54	2y	54	5MU	C5-C6-N1	-3.31	119.93	123.34
54	1y	37	6MZ	N3-C2-N1	-3.31	123.50	128.68
55	1x	55	PSU	O2-C2-N1	-3.31	119.14	122.79
54	1y	54	5MU	C5-C6-N1	-3.30	119.94	123.34
32	1a	1518	MA6	N3-C2-N1	-3.30	123.53	128.68
32	1a	967	5MC	C5-C6-N1	-3.29	119.95	123.34
1	1A	1942	5MC	C5-C6-N1	-3.29	119.96	123.34
32	2a	1404	5MC	C5-C6-N1	-3.28	119.96	123.34
54	2y	55	PSU	O2-C2-N1	-3.28	119.18	122.79
43	2l	92	0TD	OD2-CG-CB	3.27	120.22	113.15
55	2x	32	5MC	C5-C6-N1	-3.25	119.99	123.34
1	2A	1911	PSU	O2-C2-N1	-3.24	119.22	122.79
32	2a	1519	MA6	C4-C5-N7	-3.24	106.02	109.40
1	2A	1942	5MC	C5-C6-N1	-3.23	120.02	123.34
54	2y	37	6MZ	C4-C5-N7	-3.22	106.04	109.40
54	1y	8	4SU	C1 [?] -N1-C6	-3.21	113.83	120.84
55	1x	8	4SU	C6-C5-C4	-3.21	117.17	119.95
1	2A	2552	2MU	O2-C2-N1	-3.21	118.52	122.79
54	1y	55	PSU	O2-C2-N1	-3.18	119.29	122.79
54	2w	34	CM0	C7-O5-C5	3.16	121.71	117.58
32	1a	1519	MA6	C9-N6-C6	-3.14	109.99	119.51
54	2y	37	6MZ	C9-N6-C6	-3.14	120.16	122.87
54	2y	34	CM0	C7-O5-C5	3.13	121.67	117.58
32	1a	516	PSU	O2-C2-N1	-3.07	119.41	122.79
55	2x	55	PSU	O2-C2-N1	-3.06	119.42	122.79
54	1y	8	4SU	C6-N1-C2	-3.05	117.09	120.99
54	1w	37	6MZ	N3-C2-N1	-3.04	123.92	128.68
54	1y	8	4SU	C5-C4-S4	-3.04	120.55	124.47
55	2x	8	4SU	O2-C2-N3	-3.04	115.84	121.50
54	1w	34	CM0	C7-O5-C5	3.03	121.55	117.58
54	2y	8	4SU	C1 [?] -N1-C6	-3.03	114.24	120.84
32	2a	1519	MA6	C9-N6-C6	-3.02	110.36	119.51
32	1a	1518	MA6	C4-C5-N7	-2.99	106.28	109.40
55	1x	54	5MU	C5-C6-N1	-2.98	120.27	123.34
55	2x	32	5MC	O2-C2-N3	-2.97	117.50	122.33
43	1l	92	0TD	OD2-CG-CB	2.96	119.55	113.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	2a	1519	MA6	N3-C2-N1	-2.95	124.07	128.68
32	1a	1518	MA6	N1-C6-N6	2.91	120.12	117.06
54	1y	34	CM0	O2-C2-N1	-2.89	118.94	122.79
32	2a	1518	MA6	C4-C5-N7	-2.89	106.39	109.40
1	1A	1942	5MC	C5-C4-N3	-2.88	118.56	121.67
54	2w	46	7MG	C5-C6-N1	2.87	116.05	110.99
55	2x	8	4SU	O2-C2-N1	2.83	126.55	122.79
55	1x	8	4SU	O2-C2-N1	2.83	126.55	122.79
54	1w	37	6MZ	C4-C5-N7	-2.81	106.47	109.40
1	2A	2605	PSU	O2-C2-N1	-2.79	119.72	122.79
55	1x	32	5MC	C5-C4-N3	-2.79	118.67	121.67
54	1y	37	6MZ	C4-C5-N7	-2.78	106.50	109.40
32	1a	527	7MG	C5-C6-N1	2.78	115.89	110.99
54	2y	46	7MG	C5-C4-N9	-2.78	102.74	106.35
54	1w	34	CM0	O2-C2-N1	-2.78	119.10	122.79
55	2x	32	5MC	C5-C4-N3	-2.77	118.69	121.67
32	2a	527	7MG	C5-C6-N1	2.76	115.85	110.99
1	1A	1915	5MU	C1'-N1-C2	2.76	122.56	117.57
1	1A	2605	PSU	O2-C2-N1	-2.75	119.76	122.79
1	2A	2552	2MU	C5-C4-N3	2.75	118.95	114.84
54	2y	54	5MU	C1'-N1-C6	-2.73	116.58	121.12
54	2y	37	6MZ	N3-C2-N1	-2.73	124.41	128.68
1	1A	1915	5MU	C5-C6-N1	-2.73	120.53	123.34
54	2w	37	6MZ	N3-C2-N1	-2.71	124.44	128.68
54	2y	54	5MU	C1'-N1-C2	2.71	122.47	117.57
1	1A	2552	2MU	C5-C4-N3	2.67	118.84	114.84
1	1A	2552	2MU	O2-C2-N1	-2.67	119.24	122.79
1	2A	1939	5MU	O2-C2-N1	-2.67	119.24	122.79
54	1w	46	7MG	C5-C4-N9	-2.64	102.92	106.35
54	2w	34	CM0	O2-C2-N1	-2.63	119.28	122.79
54	1w	54	5MU	O2-C2-N1	-2.62	119.31	122.79
32	1a	1407	5MC	C5-C4-N3	-2.61	118.86	121.67
32	2a	1518	MA6	N1-C6-N6	2.61	119.80	117.06
54	2w	55	PSU	C6-C5-C4	-2.61	116.37	118.20
54	2w	8	4SU	C1'-N1-C2	2.60	122.28	117.57
32	2a	1400	5MC	C5-C4-N3	-2.60	118.87	121.67
54	1y	46	7MG	C5-C6-N1	2.58	115.54	110.99
54	1w	46	7MG	C5-C6-N1	2.56	115.50	110.99
32	1a	1404	5MC	C5-C4-N3	-2.56	118.92	121.67
32	1a	1518	MA6	C10-N6-C9	-2.55	107.92	116.12
1	1A	2251	OMG	C5-C6-N1	2.54	118.43	113.95
1	2A	2552	2MU	O4-C4-C5	-2.52	120.72	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1942	5MC	C5-C4-N3	-2.52	118.96	121.67
32	2a	1518	MA6	C10-N6-C9	-2.50	108.05	116.12
32	1a	967	5MC	C5-C4-N3	-2.50	118.98	121.67
32	2a	1407	5MC	C5-C4-N3	-2.49	118.99	121.67
1	2A	1962	5MC	C5-C4-N3	-2.48	118.99	121.67
54	1y	46	7MG	C5-C4-N9	-2.48	103.12	106.35
32	1a	1400	5MC	C5-C4-N3	-2.46	119.02	121.67
54	2y	54	5MU	C5M-C5-C4	2.46	121.47	118.77
32	1a	1207	2MG	C8-N7-C5	2.45	107.65	102.99
55	1x	32	5MC	O2-C2-N3	-2.44	118.36	122.33
54	1w	55	PSU	C6-C5-C4	-2.44	116.49	118.20
1	1A	2552	2MU	O4-C4-C5	-2.44	120.88	125.16
1	2A	1915	5MU	O2-C2-N1	-2.44	119.55	122.79
1	1A	1962	5MC	C5-C4-N3	-2.42	119.07	121.67
1	1A	1920	4OC	O2-C2-N3	-2.41	118.40	122.33
1	2A	2503	2MA	C8-N7-C5	2.41	107.59	102.99
54	2w	54	5MU	O2-C2-N1	-2.41	119.58	122.79
32	2a	527	7MG	C5-C4-N9	-2.40	103.23	106.35
54	1w	8	4SU	C1'-N1-C2	2.37	121.86	117.57
32	2a	967	5MC	C5-C4-N3	-2.34	119.15	121.67
32	1a	966	M2G	C5-C6-N1	2.33	118.07	113.95
1	1A	1915	5MU	O2-C2-N3	-2.33	117.16	121.50
1	1A	2251	OMG	C8-N7-C5	2.33	107.43	102.99
32	2a	1207	2MG	C8-N7-C5	2.32	107.42	102.99
54	1w	46	7MG	O6-C6-C5	-2.32	121.84	127.54
32	2a	1207	2MG	C5-C6-N1	2.32	118.05	113.95
32	2a	1404	5MC	C5-C4-N3	-2.32	119.17	121.67
32	1a	1402	4OC	C6-C5-C4	2.30	119.78	116.96
55	2x	8	4SU	C4-N3-C2	-2.30	125.11	127.34
1	2A	2251	OMG	C5-C6-N1	2.30	118.01	113.95
32	1a	527	7MG	O6-C6-C5	-2.29	121.92	127.54
1	2A	2251	OMG	C8-N7-C5	2.28	107.34	102.99
1	1A	2503	2MA	C8-N7-C5	2.28	107.34	102.99
55	1x	8	4SU	O2-C2-N3	-2.28	117.26	121.50
54	2y	54	5MU	O2-C2-N1	-2.28	119.76	122.79
32	1a	516	PSU	O4'-C1'-C2'	2.27	108.35	105.14
1	2A	2503	2MA	C5-C6-N1	2.25	117.90	114.02
43	2l	92	0TD	OD1-CG-CB	-2.24	117.75	122.44
1	2A	2552	2MU	C2'-C1'-N1	-2.23	109.90	114.22
32	2a	966	M2G	C8-N7-C5	2.23	107.23	102.99
55	1x	8	4SU	C1'-N1-C6	-2.22	116.00	120.84
55	2x	54	5MU	O2-C2-N1	-2.22	119.83	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	1518	MA6	C10-N6-C6	-2.22	112.80	119.51
32	1a	966	M2G	C8-N7-C5	2.22	107.22	102.99
54	2w	37	6MZ	C4-C5-N7	-2.21	107.09	109.40
32	1a	527	7MG	C5-C4-N9	-2.19	103.51	106.35
55	1x	54	5MU	O2-C2-N1	-2.18	119.89	122.79
32	2a	1498	UR3	C6-N1-C2	-2.17	119.84	121.79
1	1A	2503	2MA	C5-C6-N1	2.17	117.76	114.02
1	2A	1917	PSU	C5-C6-N1	-2.15	118.88	122.11
1	1A	1942	5MC	CM5-C5-C6	-2.15	119.97	122.85
54	1y	55	PSU	C5-C6-N1	-2.14	118.90	122.11
32	2a	527	7MG	O6-C6-C5	-2.14	122.30	127.54
32	2a	1498	UR3	C1'-N1-C2	2.13	120.59	116.99
32	2a	966	M2G	C5-C6-N1	2.11	117.67	113.95
55	1x	55	PSU	C5-C6-N1	-2.11	118.95	122.11
54	2y	46	7MG	C5-C6-N1	2.10	114.69	110.99
54	2w	46	7MG	O6-C6-C5	-2.10	122.39	127.54
55	2x	8	4SU	C1'-N1-C6	-2.09	116.28	120.84
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	2y	34	CM0	O2-C2-N1	-2.09	120.01	122.79
32	1a	967	5MC	O2-C2-N3	-2.09	118.94	122.33
54	1y	54	5MU	C1'-N1-C2	2.09	121.35	117.57
32	2a	1404	5MC	O2-C2-N3	-2.07	118.96	122.33
32	1a	1519	MA6	N1-C6-N6	2.06	119.23	117.06
32	1a	1519	MA6	C1'-N9-C4	-2.05	123.04	126.64
55	2x	8	4SU	N3-C2-N1	2.05	117.61	114.89
32	2a	1518	MA6	C10-N6-C6	-2.04	113.32	119.51
32	2a	1519	MA6	C10-N6-C6	-2.04	113.33	119.51
55	1x	8	4SU	C5-C4-S4	-2.03	121.86	124.47
32	1a	1519	MA6	C10-N6-C6	-2.02	113.40	119.51
54	1y	54	5MU	O2-C2-N1	-2.01	120.12	122.79

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	967	5MC	C3'-C4'-C5'-O5'
32	1a	1400	5MC	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C5-C6-N6-C10
32	2a	966	M2G	N1-C2-N2-CM2
32	2a	966	M2G	N3-C2-N2-CM1

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Mol	Chain	Res	Type	Atoms
32	2a	966	M2G	N3-C2-N2-CM2
32	2a	1207	2MG	C3'-C4'-C5'-O5'
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
1	1A	1915	5MU	C3'-C4'-C5'-O5'
54	1y	34	CM0	O5-C7-C8-O8
54	2w	34	CM0	C4-C5-O5-C7
54	2y	34	CM0	O5-C7-C8-O8
54	2y	34	CM0	O5-C7-C8-O9
54	2w	37	6MZ	N1-C6-N6-C9
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	1y	46	7MG	C3'-C4'-C5'-O5'
54	2y	46	7MG	C2'-C1'-N9-C8
54	1y	54	5MU	C3'-C4'-C5'-O5'
54	1y	54	5MU	O4'-C4'-C5'-O5'
54	2y	54	5MU	C3'-C4'-C5'-O5'
54	1y	8	4SU	C2'-C1'-N1-C6
54	1y	8	4SU	C2'-C1'-N1-C2
32	1a	1400	5MC	C3'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1207	2MG	O4'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
1	1A	1915	5MU	O4'-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	1y	34	CM0	O5-C7-C8-O9
54	2w	34	CM0	O5-C7-C8-O9
32	2a	1400	5MC	C2'-C1'-N1-C6
32	2a	527	7MG	C4'-C5'-O5'-P
32	1a	1519	MA6	C3'-C4'-C5'-O5'
54	2w	34	CM0	C6-C5-O5-C7
32	2a	1400	5MC	C2'-C1'-N1-C2
32	2a	527	7MG	C3'-C4'-C5'-O5'
54	1w	34	CM0	O4'-C4'-C5'-O5'
54	1y	46	7MG	O4'-C4'-C5'-O5'
54	1w	34	CM0	O5-C7-C8-O8
54	2w	34	CM0	O5-C7-C8-O8
54	2w	34	CM0	C8-C7-O5-C5

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Mol	Chain	Res	Type	Atoms
32	1a	1518	MA6	C5-C6-N6-C10
32	2a	527	7MG	O4'-C4'-C5'-O5'
54	2w	37	6MZ	C5-C6-N6-C9
32	2a	966	M2G	N1-C2-N2-CM1
54	1w	34	CM0	C6-C5-O5-C7
54	1w	34	CM0	C3'-C4'-C5'-O5'
54	1w	34	CM0	O5-C7-C8-O9
43	2l	92	0TD	CG-CB-SB-CSB
32	2a	1400	5MC	O4'-C1'-N1-C6
54	1w	34	CM0	C8-C7-O5-C5
54	1y	46	7MG	C2'-C1'-N9-C8
54	2w	46	7MG	C2'-C1'-N9-C8
32	1a	1402	4OC	C3'-C4'-C5'-O5'
32	2a	967	5MC	C3'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C1'-N1-C2
32	2a	1518	MA6	C5-C6-N6-C10
32	2a	1519	MA6	C5-C6-N6-C10
1	2A	2503	2MA	O4'-C4'-C5'-O5'
54	2y	8	4SU	C2'-C1'-N1-C6
1	2A	2503	2MA	C4'-C5'-O5'-P
1	1A	2503	2MA	C4'-C5'-O5'-P
32	2a	1519	MA6	C4'-C5'-O5'-P
54	1w	34	CM0	C4-C5-O5-C7
32	1a	527	7MG	C4'-C5'-O5'-P
54	2y	37	6MZ	C4'-C5'-O5'-P
54	2y	55	PSU	O4'-C1'-C5-C4
43	1l	92	0TD	CA-CB-SB-CSB
43	1l	92	0TD	SB-CB-CG-OD2
54	1y	46	7MG	O4'-C1'-N9-C8
54	2w	46	7MG	O4'-C1'-N9-C8
54	2y	34	CM0	C6-C5-O5-C7
1	1A	1915	5MU	C2'-C1'-N1-C2
55	2x	8	4SU	C2'-C1'-N1-C2
43	1l	92	0TD	CG-CB-SB-CSB
54	2y	55	PSU	O4'-C1'-C5-C6
54	2w	8	4SU	C2'-C1'-N1-C2
54	2y	8	4SU	C2'-C1'-N1-C2
32	2a	1400	5MC	O4'-C4'-C5'-O5'
54	2y	34	CM0	C8-C7-O5-C5
1	1A	2503	2MA	O4'-C4'-C5'-O5'
54	2y	34	CM0	O4'-C4'-C5'-O5'
1	1A	1920	4OC	C2'-C1'-N1-C2

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no monosaccharides 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
57	ERY	2A	3875	-	53,53,53	0.93	2 (3%)	82,82,82	1.65	16 (19%)
57	ERY	1A	4074	-	53,53,53	0.93	2 (3%)	82,82,82	1.73	23 (28%)
59	SF4	2d	302	35	0,12,12	-	-	-	-	-
59	SF4	1d	302	35	0,12,12	-	-	-	-	-

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
57	ERY	2A	3875	-	-	12/72/107/107	0/3/3/3
57	ERY	1A	4074	-	-	5/72/107/107	0/3/3/3
59	SF4	2d	302	35	-	-	0/6/5/5
59	SF4	1d	302	35	-	-	0/6/5/5

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	2A	3875	ERY	O2-C1	4.88	1.45	1.34
57	1A	4074	ERY	O2-C1	4.85	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	1A	4074	ERY	O2-C13	-2.12	1.42	1.46
57	2A	3875	ERY	O2-C13	-2.05	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	4.73	116.78	109.97
57	1A	4074	ERY	O5-C16-C15	-4.27	106.11	112.96
57	2A	3875	ERY	C13-O2-C1	-4.04	111.00	118.18
57	2A	3875	ERY	O5-C16-C15	-4.00	106.55	112.96
57	2A	3875	ERY	O2-C1-C2	3.93	120.18	111.56
57	2A	3875	ERY	O5-C16-C17	3.91	109.61	103.81
57	2A	3875	ERY	C26-C25-C24	3.65	116.86	110.46
57	1A	4074	ERY	O7-C5-C6	3.50	110.71	106.39
57	1A	4074	ERY	O2-C1-C2	3.42	119.08	111.56
57	2A	3875	ERY	C16-C15-C14	-3.38	109.22	115.07
57	2A	3875	ERY	C25-C24-C23	3.36	114.80	109.97
57	1A	4074	ERY	C15-C16-C17	3.33	113.64	107.67
57	1A	4074	ERY	C22-C23-C24	3.26	114.52	109.19
57	1A	4074	ERY	O3-C3-C4	3.12	111.98	108.22
57	1A	4074	ERY	C26-C25-C24	3.09	115.87	110.46
57	2A	3875	ERY	C12-C11-C10	-3.09	112.55	116.43
57	1A	4074	ERY	C13-O2-C1	-3.03	112.80	118.18
57	2A	3875	ERY	C34-C10-C11	-2.95	110.71	114.38
57	1A	4074	ERY	C6-C5-C4	-2.92	109.92	114.05
57	1A	4074	ERY	O4-C18-C21	2.91	112.99	106.70
57	2A	3875	ERY	C25-C24-N1	-2.88	107.52	115.67
57	1A	4074	ERY	C22-O9-C26	-2.75	108.56	112.91
57	1A	4074	ERY	O5-C16-C17	2.72	107.84	103.81
57	2A	3875	ERY	O4-C18-C21	2.66	112.44	106.70
57	2A	3875	ERY	O7-C5-C6	2.54	109.53	106.39
57	1A	4074	ERY	C16-C17-C18	2.53	115.01	111.14
57	1A	4074	ERY	C7-C8-C9	-2.46	109.09	113.32
57	2A	3875	ERY	C20-O5-C16	2.45	122.66	117.55
57	1A	4074	ERY	C6-C7-C8	-2.43	110.19	115.38
57	1A	4074	ERY	O2-C1-O1	-2.40	119.46	123.94
57	2A	3875	ERY	C22-O9-C26	-2.39	109.12	112.91
57	1A	4074	ERY	C20-O5-C16	2.36	122.48	117.55
57	2A	3875	ERY	O2-C1-O1	-2.35	119.54	123.94
57	1A	4074	ERY	C25-C24-N1	-2.25	109.32	115.67
57	2A	3875	ERY	C22-C23-C24	2.20	112.79	109.19
57	1A	4074	ERY	C14-O4-C18	2.18	119.72	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	1A	4074	ERY	C16-C15-C14	-2.13	111.37	115.07
57	1A	4074	ERY	C2-C3-C4	-2.08	107.02	113.05
57	1A	4074	ERY	C22-O7-C5	-2.02	112.75	116.25

There are no chirality outliers.

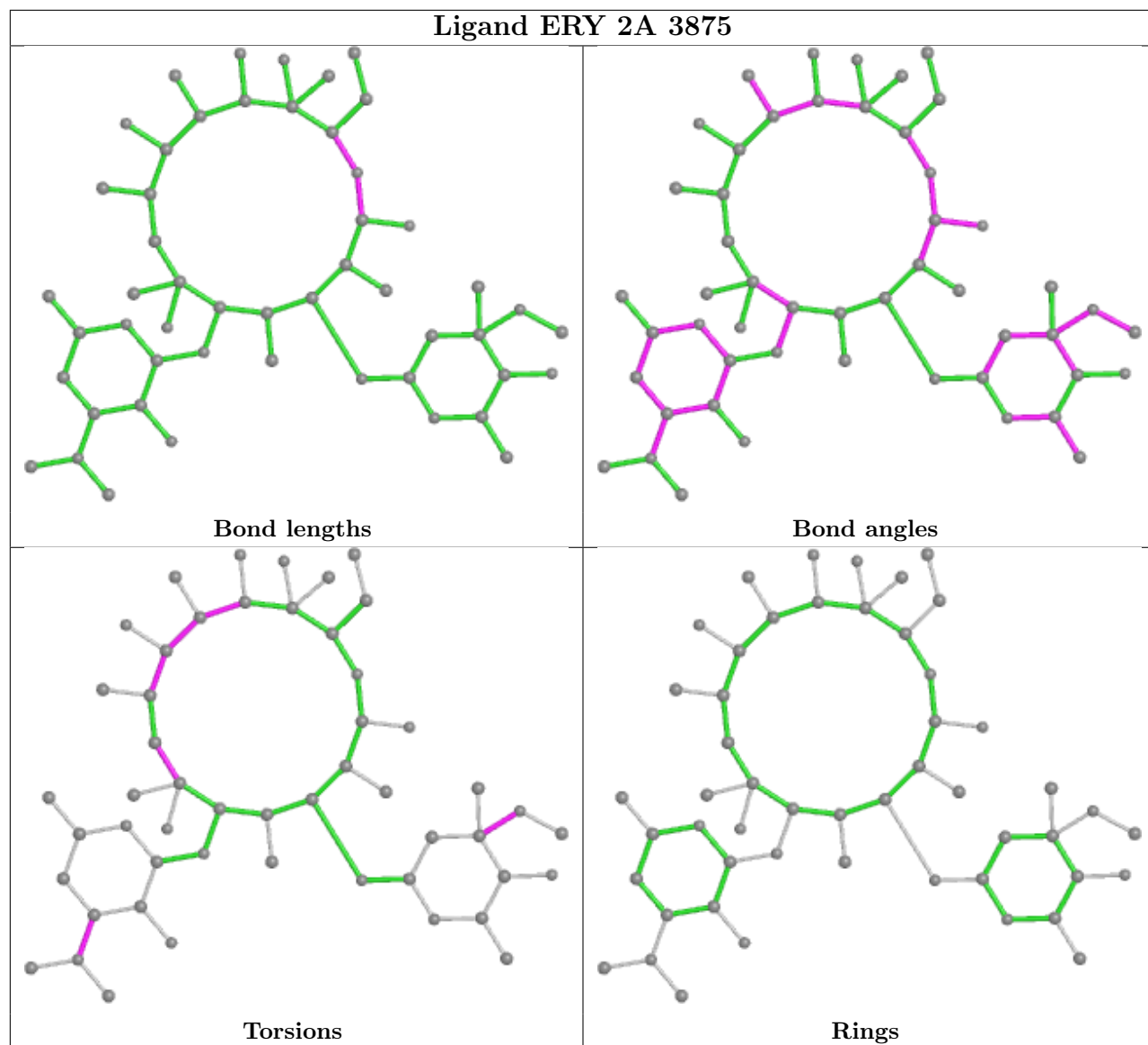
All (17) torsion outliers are listed below:

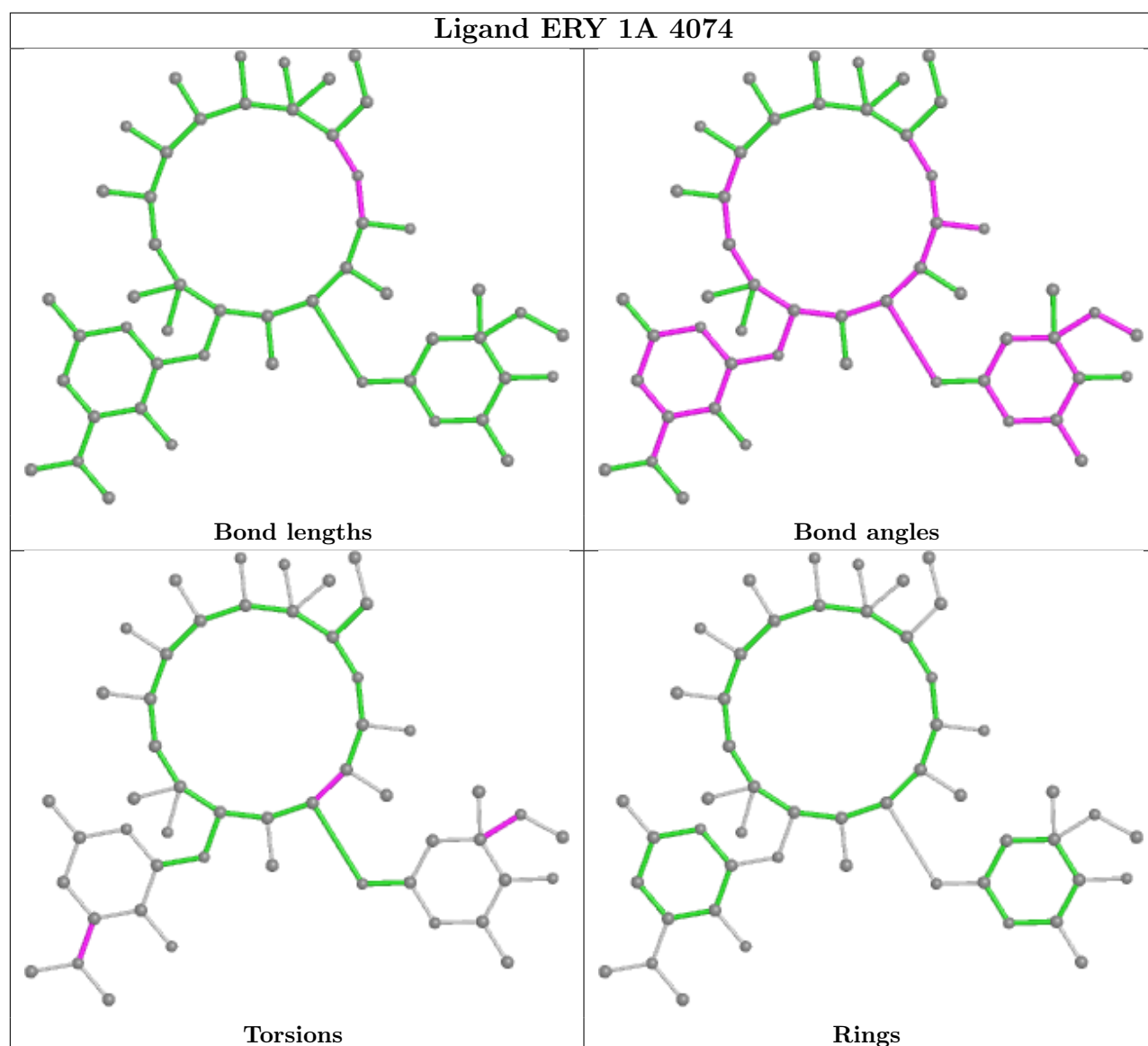
Mol	Chain	Res	Type	Atoms
57	1A	4074	ERY	C15-C16-O5-C20
57	1A	4074	ERY	C17-C16-O5-C20
57	1A	4074	ERY	C19-C16-O5-C20
57	2A	3875	ERY	C9-C10-C11-C12
57	2A	3875	ERY	C34-C10-C11-C12
57	2A	3875	ERY	C15-C16-O5-C20
57	2A	3875	ERY	C17-C16-O5-C20
57	2A	3875	ERY	C19-C16-O5-C20
57	1A	4074	ERY	C25-C24-N1-C29
57	2A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

There are no ring outliers.

No monomer is involved in short contacts.

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 i

6.1 Protein, DNA and RNA chains i

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%)	0.08	12 (0%) 92 92	10, 28, 83, 100	0
1	2A	2789/2915 (95%)	0.00	9 (0%) 94 94	28, 51, 82, 99	0
2	1B	120/121 (99%)	-0.10	0 100 100	19, 42, 58, 77	0
2	2B	120/121 (99%)	-0.11	0 100 100	53, 72, 81, 86	0
3	1D	275/276 (99%)	0.03	1 (0%) 92 92	13, 30, 43, 72	0
3	2D	275/276 (99%)	0.64	15 (5%) 25 20	25, 44, 58, 68	0
4	1E	204/206 (99%)	0.08	0 100 100	11, 33, 48, 71	0
4	2E	204/206 (99%)	0.32	5 (2%) 57 54	27, 54, 65, 72	0
5	1F	203/210 (96%)	0.17	1 (0%) 91 90	13, 33, 57, 76	0
5	2F	203/210 (96%)	0.41	8 (3%) 39 34	29, 56, 70, 79	0
6	1G	181/182 (99%)	0.02	1 (0%) 89 89	32, 51, 66, 76	0
6	2G	181/182 (99%)	0.95	27 (14%) 2 1	61, 72, 79, 89	0
7	1H	174/180 (96%)	-0.13	0 100 100	27, 44, 55, 61	0
7	2H	174/180 (96%)	1.15	34 (19%) 1 1	62, 73, 81, 89	0
8	1I	146/148 (98%)	-0.10	0 100 100	39, 62, 73, 79	0
8	2I	146/148 (98%)	0.22	8 (5%) 25 20	45, 65, 77, 83	0
9	1N	140/140 (100%)	0.01	0 100 100	14, 32, 49, 60	0
9	2N	140/140 (100%)	0.74	16 (11%) 5 3	43, 58, 69, 77	0
10	1O	122/122 (100%)	0.23	0 100 100	22, 33, 51, 56	0
10	2O	122/122 (100%)	0.67	10 (8%) 11 8	36, 52, 62, 70	0
11	1P	149/150 (99%)	0.25	3 (2%) 65 62	13, 38, 59, 67	0
11	2P	149/150 (99%)	0.42	8 (5%) 25 21	34, 56, 71, 86	0
12	1Q	141/141 (100%)	0.14	1 (0%) 87 87	20, 34, 46, 70	0
12	2Q	141/141 (100%)	0.89	16 (11%) 5 3	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%)	0.11	0 100 100	16, 26, 38, 56	0
13	2R	118/118 (100%)	0.45	5 (4%) 36 31	32, 46, 56, 66	0
14	1S	110/112 (98%)	-0.05	0 100 100	29, 41, 53, 56	0
14	2S	110/112 (98%)	0.38	4 (3%) 42 37	56, 67, 75, 78	0
15	1T	131/146 (89%)	0.09	0 100 100	26, 38, 56, 70	0
15	2T	131/146 (89%)	0.37	4 (3%) 49 44	43, 55, 68, 76	0
16	1U	116/118 (98%)	0.21	1 (0%) 84 84	13, 21, 38, 53	0
16	2U	116/118 (98%)	0.59	6 (5%) 27 22	35, 56, 65, 71	0
17	1V	101/101 (100%)	-0.01	0 100 100	16, 29, 48, 57	0
17	2V	101/101 (100%)	0.55	7 (6%) 16 12	42, 61, 71, 76	0
18	1W	112/113 (99%)	0.06	0 100 100	13, 22, 37, 61	0
18	2W	112/113 (99%)	0.57	11 (9%) 7 5	33, 43, 56, 79	0
19	1X	95/96 (98%)	-0.06	0 100 100	16, 31, 46, 64	0
19	2X	95/96 (98%)	0.81	11 (11%) 4 3	34, 53, 63, 78	0
20	1Y	107/110 (97%)	0.04	0 100 100	23, 40, 58, 71	0
20	2Y	107/110 (97%)	0.85	15 (14%) 2 2	45, 60, 74, 81	0
21	1Z	154/206 (74%)	0.31	2 (1%) 77 76	31, 53, 75, 81	0
21	2Z	160/206 (77%)	0.60	10 (6%) 20 15	60, 72, 83, 87	0
22	10	83/85 (97%)	0.40	6 (7%) 15 11	19, 29, 53, 72	0
22	20	83/85 (97%)	1.18	15 (18%) 1 1	43, 57, 68, 75	0
23	11	97/98 (98%)	0.17	2 (2%) 63 60	15, 37, 62, 70	0
23	21	97/98 (98%)	0.69	7 (7%) 15 11	37, 50, 63, 70	0
24	12	70/72 (97%)	0.14	0 100 100	25, 37, 49, 65	0
24	22	70/72 (97%)	0.30	3 (4%) 35 30	45, 60, 70, 71	0
25	13	59/60 (98%)	0.07	0 100 100	15, 27, 55, 70	0
25	23	59/60 (98%)	1.22	11 (18%) 1 1	49, 58, 68, 75	0
26	14	69/71 (97%)	-0.05	0 100 100	48, 67, 79, 85	0
26	24	69/71 (97%)	0.57	8 (11%) 4 3	69, 79, 86, 90	0
27	15	59/60 (98%)	0.06	0 100 100	11, 22, 40, 53	0
27	25	59/60 (98%)	0.27	2 (3%) 45 39	33, 43, 59, 68	0
28	16	53/54 (98%)	-0.05	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%)	0.63	5 (9%) 8 5	42, 53, 64, 69	0
29	17	48/49 (97%)	0.17	2 (4%) 36 31	14, 20, 43, 59	0
29	27	48/49 (97%)	1.09	6 (12%) 3 2	25, 36, 57, 75	0
30	18	64/65 (98%)	0.23	1 (1%) 72 70	20, 26, 33, 47	0
30	28	64/65 (98%)	0.85	6 (9%) 8 5	38, 49, 58, 62	0
31	19	37/37 (100%)	0.16	0 100 100	22, 32, 44, 53	0
31	29	37/37 (100%)	1.47	12 (32%) 0 0	51, 61, 71, 75	0
32	1a	1488/1521 (97%)	-0.06	4 (0%) 94 94	28, 60, 83, 97	0
32	2a	1491/1521 (98%)	0.05	16 (1%) 80 80	45, 68, 87, 97	0
33	1b	231/256 (90%)	0.31	8 (3%) 44 38	54, 69, 78, 88	0
33	2b	231/256 (90%)	1.21	53 (22%) 0 0	60, 77, 86, 92	0
34	1c	206/239 (86%)	0.93	28 (13%) 3 2	53, 65, 74, 81	0
34	2c	206/239 (86%)	1.32	61 (29%) 0 0	58, 75, 83, 100	0
35	1d	208/209 (99%)	0.27	7 (3%) 45 39	52, 64, 72, 80	0
35	2d	208/209 (99%)	0.38	6 (2%) 51 47	43, 60, 68, 79	0
36	1e	148/162 (91%)	0.42	8 (5%) 25 21	48, 58, 66, 71	0
36	2e	148/162 (91%)	0.78	14 (9%) 8 5	58, 69, 77, 83	0
37	1f	100/101 (99%)	0.04	1 (1%) 82 81	45, 59, 67, 70	0
37	2f	100/101 (99%)	-0.07	1 (1%) 82 81	53, 63, 69, 74	0
38	1g	155/156 (99%)	0.34	12 (7%) 13 10	52, 62, 72, 80	0
38	2g	155/156 (99%)	0.72	22 (14%) 2 2	58, 70, 79, 88	0
39	1h	137/138 (99%)	0.44	9 (6%) 18 14	48, 58, 67, 70	0
39	2h	137/138 (99%)	0.69	12 (8%) 10 6	55, 67, 74, 75	0
40	1i	127/128 (99%)	0.98	20 (15%) 2 1	51, 68, 78, 86	0
40	2i	127/128 (99%)	1.95	55 (43%) 0 0	60, 76, 83, 88	0
41	1j	97/105 (92%)	0.69	11 (11%) 5 3	56, 70, 79, 84	0
41	2j	96/105 (91%)	1.47	31 (32%) 0 0	65, 75, 84, 89	0
42	1k	114/129 (88%)	0.80	14 (12%) 4 2	36, 57, 67, 71	0
42	2k	114/129 (88%)	0.99	18 (15%) 2 1	50, 65, 73, 77	0
43	1l	121/132 (91%)	0.09	1 (0%) 86 85	41, 52, 63, 70	0
43	2l	121/132 (91%)	0.44	7 (5%) 23 18	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%)	0.23	4 (3%) 46 41	48, 61, 73, 82	0
44	2m	122/126 (96%)	1.34	26 (21%) 0 0	64, 75, 84, 89	0
45	1n	60/61 (98%)	0.99	9 (15%) 2 1	52, 62, 70, 75	0
45	2n	60/61 (98%)	2.68	39 (65%) 0 0	68, 76, 82, 84	0
46	1o	88/89 (98%)	0.10	2 (2%) 60 57	42, 55, 68, 73	0
46	2o	88/89 (98%)	0.33	1 (1%) 80 80	53, 64, 74, 78	0
47	1p	82/88 (93%)	1.28	17 (20%) 1 0	50, 62, 74, 76	0
47	2p	82/88 (93%)	0.51	3 (3%) 41 36	48, 59, 66, 78	0
48	1q	99/105 (94%)	0.41	5 (5%) 28 23	42, 55, 66, 73	0
48	2q	99/105 (94%)	0.55	7 (7%) 16 12	54, 63, 72, 77	0
49	1r	68/88 (77%)	0.32	3 (4%) 34 29	47, 58, 68, 73	0
49	2r	68/88 (77%)	0.33	1 (1%) 73 72	57, 62, 72, 76	0
50	1s	83/93 (89%)	0.15	2 (2%) 59 56	52, 63, 72, 77	0
50	2s	83/93 (89%)	0.81	10 (12%) 4 3	66, 76, 83, 92	0
51	1t	96/106 (90%)	0.41	4 (4%) 36 31	45, 61, 69, 72	0
51	2t	96/106 (90%)	0.55	9 (9%) 8 5	44, 60, 74, 79	0
52	1u	23/27 (85%)	1.03	5 (21%) 0 0	57, 63, 67, 72	0
52	2u	23/27 (85%)	2.50	13 (56%) 0 0	65, 74, 78, 79	0
53	1v	13/27 (48%)	0.77	1 (7%) 13 10	40, 63, 82, 88	0
53	2v	13/27 (48%)	1.12	4 (30%) 0 0	61, 75, 87, 90	0
54	1w	67/76 (88%)	0.99	10 (14%) 2 1	54, 83, 92, 98	0
54	1y	68/76 (89%)	0.52	4 (5%) 22 17	33, 86, 92, 98	0
54	2w	67/76 (88%)	1.88	27 (40%) 0 0	65, 89, 93, 98	0
54	2y	67/76 (88%)	1.04	10 (14%) 2 1	50, 89, 94, 96	0
55	1x	72/77 (93%)	-0.02	0 100 100	36, 61, 72, 78	0
55	2x	72/77 (93%)	0.05	1 (1%) 75 74	49, 73, 82, 92	0
All	All	20879/21754 (95%)	0.30	973 (4%) 31 27	10, 56, 81, 100	0

All (973) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	13.8
45	2n	25	VAL	9.7

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Mol	Chain	Res	Type	RSRZ
44	2m	102	ARG	8.8
44	2m	6	GLY	8.7
44	2m	123	ALA	8.4
33	2b	165	VAL	8.4
22	10	5	LYS	7.6
45	2n	39	LEU	7.5
12	2Q	104	PHE	7.2
44	2m	5	ALA	7.2
22	10	7	LEU	7.0
40	1i	106	ALA	6.9
52	2u	14	TRP	6.4
41	2j	58	ASP	6.2
33	2b	187	LEU	6.1
54	2w	1	G	6.1
22	20	2	ALA	6.1
34	2c	56	ASP	6.0
52	2u	2	GLY	6.0
45	2n	38	GLY	6.0
29	27	48	LYS	5.9
40	2i	17	VAL	5.9
38	2g	82	GLY	5.9
41	2j	49	VAL	5.9
40	2i	7	THR	5.8
45	2n	37	PHE	5.8
33	2b	163	PHE	5.6
22	10	6	GLY	5.5
36	2e	31	LEU	5.5
38	2g	80	VAL	5.5
33	2b	70	PHE	5.4
34	1c	200	ALA	5.4
6	2G	28	VAL	5.3
7	2H	100	GLY	5.3
29	27	47	ARG	5.2
45	2n	34	TYR	5.2
6	2G	34	LEU	5.1
45	2n	7	ILE	5.1
38	2g	79	ARG	5.1
34	2c	15	THR	5.1
34	2c	157	ILE	5.0
34	2c	184	TYR	4.9
34	2c	80	GLY	4.9
44	1m	123	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
34	1c	179	ARG	4.8
22	20	6	GLY	4.8
40	2i	110	GLU	4.7
42	2k	90	GLY	4.7
44	2m	122	LYS	4.7
36	2e	13	ILE	4.7
45	2n	42	ILE	4.7
54	2w	71	C	4.7
54	2w	72	C	4.7
34	2c	201	TYR	4.7
41	2j	63	PHE	4.7
45	2n	11	LYS	4.7
40	1i	113	LYS	4.6
6	2G	140	ILE	4.6
31	29	37	GLY	4.6
52	2u	6	ARG	4.5
32	2a	1030(B)	C	4.5
1	2A	2146	C	4.5
19	2X	92	LEU	4.5
22	20	7	LEU	4.5
45	2n	44	LEU	4.5
33	2b	81	VAL	4.5
33	2b	197	VAL	4.5
54	2w	4	U	4.5
26	24	49	PHE	4.5
34	2c	202	ILE	4.4
40	2i	19	LEU	4.4
33	2b	120	ALA	4.4
33	2b	31	TYR	4.4
40	2i	115	GLY	4.4
9	2N	10	GLU	4.4
34	2c	206	GLU	4.4
7	2H	103	LEU	4.4
34	1c	12	LEU	4.4
3	2D	217	ARG	4.4
45	2n	29	ARG	4.4
40	2i	26	VAL	4.3
34	1c	206	GLU	4.3
42	2k	50	TYR	4.3
54	2w	73	A	4.3
41	2j	55	LYS	4.3
1	1A	2145	C	4.3

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Mol	Chain	Res	Type	RSRZ
41	2j	60	ARG	4.3
51	2t	24	LEU	4.3
54	2w	76	A	4.2
54	2w	56	C	4.2
33	2b	186	ALA	4.2
38	2g	85	TYR	4.2
40	2i	125	TYR	4.2
20	2Y	48	ALA	4.2
49	1r	78	LEU	4.2
33	1b	231	GLU	4.2
29	17	46	VAL	4.1
25	23	51	ALA	4.1
25	23	2	PRO	4.1
44	2m	120	LYS	4.1
41	2j	47	PHE	4.1
34	2c	199	LYS	4.1
38	1g	156	TRP	4.1
40	2i	15	ALA	4.1
54	2w	31	C	4.0
40	2i	9	ARG	4.0
50	2s	38	SER	4.0
42	2k	89	ALA	4.0
40	2i	65	VAL	4.0
7	2H	113	VAL	4.0
41	2j	50	ILE	4.0
20	2Y	57	GLN	4.0
24	22	1	MET	3.9
54	2y	36	C	3.9
34	1c	113	ALA	3.9
1	1A	2141	G	3.9
38	2g	81	GLY	3.9
44	1m	56	LEU	3.9
53	2v	24	C	3.9
8	2I	38	LEU	3.9
45	2n	10	ALA	3.9
29	27	46	VAL	3.9
40	2i	83	ARG	3.9
33	2b	97	TRP	3.9
33	2b	214	ILE	3.8
34	2c	198	VAL	3.8
36	2e	84	PHE	3.8
40	2i	18	PHE	3.8

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Mol	Chain	Res	Type	RSRZ
31	29	13	LYS	3.8
9	2N	45	ASN	3.8
34	2c	167	TRP	3.8
40	2i	77	ILE	3.8
44	2m	4	ILE	3.8
54	1w	70	C	3.8
44	1m	124	PRO	3.8
41	2j	48	THR	3.8
34	2c	186	PHE	3.8
34	2c	188	LEU	3.8
39	2h	133	LEU	3.8
7	2H	102	ALA	3.7
40	2i	79	LEU	3.7
40	2i	114	TYR	3.7
40	1i	65	VAL	3.7
7	2H	72	ILE	3.7
10	2O	1	MET	3.7
41	2j	62	HIS	3.7
33	2b	101	MET	3.6
40	2i	80	GLY	3.6
21	2Z	172	ALA	3.6
34	2c	173	VAL	3.6
49	2r	85	LEU	3.6
51	1t	14	LYS	3.6
34	2c	160	ALA	3.6
23	2l	46	LEU	3.6
54	2y	33	U	3.6
44	1m	2	ALA	3.6
20	2Y	46	LYS	3.6
40	2i	5	TYR	3.6
52	2u	17	THR	3.6
25	23	60	GLU	3.6
33	2b	201	ILE	3.6
34	2c	53	ALA	3.6
14	2S	32	LEU	3.6
6	2G	142	PRO	3.6
54	1w	56	C	3.6
54	2w	3	G	3.6
34	2c	4	LYS	3.5
9	2N	1	MET	3.5
36	2e	12	LEU	3.5
47	1p	42	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
22	20	38	VAL	3.5
52	2u	5	ASP	3.5
40	2i	36	TYR	3.5
32	1a	1036	G	3.5
23	11	2	SER	3.5
40	1i	42	ARG	3.5
40	2i	27	THR	3.5
45	2n	36	PHE	3.5
41	2j	91	PRO	3.5
33	2b	48	MET	3.5
33	2b	92	TYR	3.5
33	2b	215	LEU	3.5
7	2H	101	ARG	3.5
34	2c	60	ALA	3.5
34	1c	13	GLY	3.4
39	1h	2	LEU	3.4
45	2n	6	LEU	3.4
23	21	62	VAL	3.4
33	2b	71	VAL	3.4
34	1c	39	ILE	3.4
40	2i	33	PHE	3.4
43	2l	29	GLY	3.4
44	2m	104	ARG	3.4
53	2v	12	A	3.4
41	2j	65	LEU	3.4
7	2H	115	VAL	3.4
22	20	5	LYS	3.4
40	1i	111	ARG	3.4
45	2n	53	LEU	3.4
34	2c	180	ALA	3.4
45	2n	50	LYS	3.4
33	2b	164	VAL	3.4
39	2h	83	ILE	3.4
42	2k	87	THR	3.4
52	2u	15	ARG	3.4
7	2H	56	SER	3.4
42	2k	121	PRO	3.4
44	2m	9	ILE	3.4
38	1g	84	ASN	3.4
45	2n	60	SER	3.4
44	2m	121	LYS	3.4
42	2k	25	TYR	3.4

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Mol	Chain	Res	Type	RSRZ
32	2a	1220	G	3.4
47	1p	1	MET	3.4
51	2t	72	LEU	3.3
41	2j	53	PRO	3.3
3	2D	51	VAL	3.3
52	2u	22	ARG	3.3
40	1i	110	GLU	3.3
7	2H	145	ALA	3.3
34	1c	185	GLY	3.3
34	2c	205	GLY	3.3
52	1u	17	THR	3.3
38	2g	156	TRP	3.3
21	2Z	83	PRO	3.3
51	2t	9	ASN	3.3
44	2m	66	LEU	3.3
6	2G	39	ILE	3.3
47	1p	36	ILE	3.3
33	2b	200	ILE	3.3
41	2j	51	ARG	3.3
45	2n	59	ALA	3.3
33	2b	184	VAL	3.3
45	2n	8	GLU	3.3
32	2a	1202	G	3.3
34	2c	179	ARG	3.2
36	2e	11	ILE	3.2
54	2w	40	G	3.2
25	23	47	VAL	3.2
34	2c	174	PRO	3.2
45	2n	31	ARG	3.2
54	1y	20	G	3.2
55	2x	70	G	3.2
38	2g	3	ARG	3.2
9	2N	44	PRO	3.2
54	2w	2	G	3.2
34	1c	8	ILE	3.2
6	2G	159	VAL	3.2
9	2N	140	VAL	3.2
5	2F	55	GLY	3.2
33	2b	202	PRO	3.2
22	20	45	PHE	3.2
45	2n	32	SER	3.2
17	2V	94	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
20	2Y	44	ILE	3.2
44	2m	25	ILE	3.2
22	20	3	HIS	3.2
6	2G	12	TYR	3.2
38	2g	40	ALA	3.1
44	2m	92	HIS	3.1
38	1g	85	TYR	3.1
41	1j	8	LEU	3.1
16	1U	117	GLN	3.1
7	2H	47	GLU	3.1
9	2N	82	LEU	3.1
34	1c	10	PHE	3.1
33	2b	99	GLY	3.1
40	2i	117	HIS	3.1
50	2s	80	TYR	3.1
53	1v	24	C	3.1
33	2b	185	ILE	3.1
6	2G	115	ARG	3.1
54	2w	75	C	3.1
31	29	25	VAL	3.1
54	2w	70	C	3.1
34	1c	57	ILE	3.1
40	2i	14	VAL	3.1
44	2m	7	VAL	3.1
45	2n	61	TRP	3.1
9	2N	85	ILE	3.1
32	2a	973	G	3.1
40	1i	15	ALA	3.0
31	29	15	LYS	3.0
7	2H	123	PHE	3.0
6	2G	48	GLU	3.0
39	1h	90	GLY	3.0
41	1j	98	ILE	3.0
19	2X	83	VAL	3.0
24	22	60	LEU	3.0
39	2h	2	LEU	3.0
3	1D	276	LYS	3.0
31	29	2	LYS	3.0
33	2b	118	LEU	3.0
34	1c	33	LEU	3.0
45	2n	4	LYS	3.0
40	2i	21	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
23	2l	2	SER	3.0
42	1k	98	LEU	3.0
31	29	33	LYS	3.0
43	2l	64	TYR	3.0
44	2m	88	ARG	3.0
9	2N	26	LEU	3.0
12	2Q	17	LEU	3.0
47	1p	45	THR	3.0
44	2m	100	GLY	3.0
31	29	26	ILE	3.0
34	2c	14	ILE	3.0
38	1g	153	HIS	3.0
32	2a	1030(A)	G	3.0
32	2a	1034	G	3.0
22	20	75	LEU	3.0
35	1d	139	ARG	3.0
36	2e	82	VAL	3.0
11	1P	105	LEU	3.0
50	1s	71	LEU	3.0
40	2i	66	ARG	3.0
9	2N	73	THR	3.0
26	24	46	GLN	2.9
52	2u	13	ILE	2.9
12	2Q	97	VAL	2.9
36	1e	82	VAL	2.9
33	2b	16	HIS	2.9
35	1d	157	LEU	2.9
40	2i	116	LYS	2.9
40	2i	92	TYR	2.9
41	2j	61	GLU	2.9
54	2w	57	G	2.9
35	2d	49	ARG	2.9
33	2b	135	GLN	2.9
3	2D	38	LYS	2.9
17	2V	71	LEU	2.9
34	2c	155	GLY	2.9
51	1t	18	GLN	2.9
41	1j	44	VAL	2.9
41	2j	92	THR	2.9
54	2y	28	C	2.9
13	2R	10	LEU	2.9
25	23	26	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
34	2c	159	GLY	2.9
54	2y	53	G	2.9
40	2i	62	TYR	2.9
38	1g	79	ARG	2.9
12	2Q	103	MET	2.9
25	23	28	LEU	2.9
33	2b	49	GLU	2.9
36	1e	119	LEU	2.9
41	2j	85	LEU	2.9
20	2Y	65	ALA	2.9
19	2X	18	TYR	2.9
41	2j	96	ILE	2.9
22	20	76	GLY	2.9
42	1k	84	VAL	2.9
5	2F	89	VAL	2.9
23	11	98	LEU	2.9
19	2X	69	TYR	2.8
7	2H	99	VAL	2.8
38	2g	39	ALA	2.8
44	2m	70	LEU	2.8
40	2i	127	LYS	2.8
21	1Z	171	ILE	2.8
12	2Q	34	LEU	2.8
34	2c	33	LEU	2.8
11	2P	1	MET	2.8
45	2n	2	ALA	2.8
50	2s	79	THR	2.8
18	2W	103	ILE	2.8
43	2l	7	ILE	2.8
30	28	2	PRO	2.8
19	2X	89	ILE	2.8
23	21	10	LYS	2.8
32	2a	1026	G	2.8
34	1c	207	VAL	2.8
45	2n	56	VAL	2.8
41	1j	66	ARG	2.8
6	2G	137	GLU	2.8
12	2Q	1	MET	2.8
18	2W	92	ARG	2.8
34	2c	77	ILE	2.8
50	2s	82	GLY	2.8
45	1n	25	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
7	2H	124	GLU	2.8
33	2b	132	LYS	2.8
35	1d	165	MET	2.8
38	2g	73	MET	2.8
44	2m	65	LYS	2.8
34	2c	124	ILE	2.8
44	2m	97	PRO	2.8
52	2u	11	GLY	2.8
8	2I	12	LEU	2.8
29	27	1	MET	2.8
20	2Y	58	GLY	2.8
47	1p	78	GLY	2.8
28	26	54	ILE	2.8
38	2g	4	ARG	2.8
10	2O	99	PHE	2.7
22	20	69	PHE	2.7
45	2n	23	ARG	2.7
1	1A	1059	G	2.7
50	2s	12	ASP	2.7
14	2S	58	LEU	2.7
6	2G	169	ALA	2.7
40	2i	52	ALA	2.7
54	2w	74	C	2.7
32	2a	1357	A	2.7
5	2F	90	PHE	2.7
17	2V	75	PHE	2.7
41	2j	54	PHE	2.7
42	1k	21	ILE	2.7
47	2p	9	PHE	2.7
33	2b	183	PRO	2.7
40	2i	82	ALA	2.7
10	2O	65	THR	2.7
19	2X	45	THR	2.7
45	2n	15	LYS	2.7
6	2G	152	LEU	2.7
34	2c	17	ASP	2.7
34	2c	197	GLY	2.7
42	2k	119	CYS	2.7
54	1w	69	A	2.7
39	2h	10	LEU	2.7
40	1i	50	LEU	2.7
35	1d	164	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
52	1u	18	TYR	2.7
23	2l	37	ILE	2.7
22	20	4	LYS	2.7
54	1w	72	C	2.7
7	2H	105	LEU	2.7
34	2c	7	PRO	2.7
41	2j	10	GLY	2.7
36	2e	105	VAL	2.7
20	2Y	93	GLY	2.7
42	2k	88	GLY	2.7
12	2Q	130	LYS	2.7
41	2j	11	PHE	2.7
34	2c	8	ILE	2.7
1	2A	1509	C	2.7
4	2E	116	VAL	2.7
31	29	5	ALA	2.7
21	2Z	150	LEU	2.7
34	2c	170	GLN	2.7
3	2D	275	LYS	2.7
35	2d	198	VAL	2.7
41	2j	52	GLY	2.7
18	2W	81	ALA	2.7
34	1c	193	TYR	2.6
36	2e	109	ILE	2.6
9	2N	23	LEU	2.6
33	2b	131	PRO	2.6
7	2H	165	ALA	2.6
54	2y	32	C	2.6
41	2j	56	HIS	2.6
34	1c	72	LYS	2.6
36	1e	88	LYS	2.6
44	2m	60	VAL	2.6
26	24	45	GLY	2.6
42	1k	28	THR	2.6
40	1i	49	PRO	2.6
36	1e	89	ILE	2.6
40	2i	126	SER	2.6
31	29	12	ASP	2.6
40	2i	111	ARG	2.6
45	2n	12	ARG	2.6
33	2b	188	ALA	2.6
15	2T	57	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
1	2A	2132	U	2.6
11	2P	125	VAL	2.6
36	2e	90	VAL	2.6
40	2i	109	VAL	2.6
54	2y	66	A	2.6
38	1g	83	ALA	2.6
6	2G	41	GLN	2.6
33	1b	80	ILE	2.6
22	20	21	LEU	2.6
34	2c	204	LEU	2.6
39	1h	133	LEU	2.6
40	2i	119	ALA	2.6
40	1i	7	THR	2.6
54	2y	39	G	2.6
7	2H	130	ARG	2.6
40	1i	81	ILE	2.6
46	2o	87	ILE	2.6
34	1c	47	LEU	2.6
25	23	18	ASP	2.6
38	2g	154	TYR	2.6
4	2E	114	ALA	2.6
34	2c	168	ALA	2.6
40	2i	61	ALA	2.6
40	2i	64	THR	2.6
34	2c	182	ILE	2.6
44	2m	101	GLN	2.6
54	1y	24	G	2.6
12	2Q	132	VAL	2.6
39	1h	80	ILE	2.6
39	1h	83	ILE	2.6
12	2Q	37	LEU	2.6
35	1d	135	LEU	2.6
45	2n	47	LEU	2.6
32	1a	1030(B)	C	2.6
54	2w	15	G	2.6
40	2i	16	ARG	2.6
38	2g	84	ASN	2.6
7	2H	151	ILE	2.5
10	2O	2	ILE	2.5
12	2Q	129	THR	2.5
33	1b	227	GLY	2.5
36	2e	81	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
40	2i	39	GLY	2.5
25	23	29	ARG	2.5
54	2w	32	C	2.5
40	2i	71	SER	2.5
41	1j	59	SER	2.5
40	2i	55	ALA	2.5
40	2i	106	ALA	2.5
48	1q	27	PHE	2.5
15	2T	102	ILE	2.5
30	28	16	ILE	2.5
3	2D	50	THR	2.5
9	2N	83	LYS	2.5
36	2e	98	THR	2.5
6	2G	70	VAL	2.5
19	2X	68	ARG	2.5
3	2D	56	GLY	2.5
6	2G	157	ILE	2.5
11	2P	44	GLY	2.5
51	2t	83	ARG	2.5
14	2S	34	HIS	2.5
42	1k	82	VAL	2.5
3	2D	2	ALA	2.5
34	1c	5	ILE	2.5
34	2c	5	ILE	2.5
42	1k	42	TRP	2.5
38	1g	80	VAL	2.5
42	1k	14	VAL	2.5
33	2b	129	GLU	2.5
40	1i	4	TYR	2.5
45	2n	58	LYS	2.5
3	2D	273	ARG	2.5
6	2G	138	GLN	2.5
51	2t	41	ILE	2.5
12	2Q	118	LEU	2.5
7	2H	76	VAL	2.5
34	2c	177	THR	2.5
29	27	27	GLY	2.5
34	2c	13	GLY	2.5
13	2R	51	LEU	2.5
27	25	30	LEU	2.5
16	2U	9	VAL	2.5
23	21	61	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
42	2k	31	THR	2.5
12	2Q	32	TYR	2.5
1	1A	889	C	2.5
33	1b	201	ILE	2.5
41	2j	40	LEU	2.5
6	2G	181	ARG	2.5
34	2c	58	GLU	2.5
42	2k	42	TRP	2.5
54	2w	39	G	2.5
19	2X	66	LEU	2.5
34	2c	57	ILE	2.5
40	2i	81	ILE	2.5
47	1p	39	TYR	2.5
7	2H	133	VAL	2.5
32	2a	1257	U	2.5
45	2n	45	ARG	2.5
54	1w	4	U	2.5
39	2h	3	THR	2.5
41	1j	48	THR	2.5
6	2G	62	LEU	2.5
28	26	7	ILE	2.5
40	1i	114	TYR	2.5
47	1p	60	LEU	2.5
54	2w	10	G	2.5
1	2A	2145	C	2.4
9	2N	74	ARG	2.4
34	2c	49	SER	2.4
40	2i	123	PRO	2.4
52	1u	6	ARG	2.4
26	24	42	PHE	2.4
33	2b	28	PHE	2.4
3	2D	206	LEU	2.4
31	29	17	ILE	2.4
36	1e	81	GLU	2.4
38	1g	12	LEU	2.4
42	2k	91	ARG	2.4
42	2k	126	ARG	2.4
45	2n	41	ARG	2.4
52	2u	21	TYR	2.4
7	2H	35	VAL	2.4
42	2k	114	VAL	2.4
16	2U	7	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
34	2c	2	GLY	2.4
28	26	2	ALA	2.4
38	2g	152	ALA	2.4
34	2c	131	ARG	2.4
41	2j	98	ILE	2.4
51	2t	13	LEU	2.4
33	2b	152	PHE	2.4
33	2b	130	ARG	2.4
34	1c	38	ARG	2.4
34	2c	21	ARG	2.4
40	2i	91	ASP	2.4
9	2N	69	GLN	2.4
5	2F	82	ILE	2.4
8	2I	37	VAL	2.4
21	2Z	25	PRO	2.4
34	2c	138	VAL	2.4
18	2W	13	SER	2.4
45	1n	50	LYS	2.4
1	1A	888	C	2.4
30	28	58	ILE	2.4
34	1c	178	LEU	2.4
45	2n	49	HIS	2.4
47	2p	19	ILE	2.4
49	1r	40	LEU	2.4
6	2G	182	LYS	2.4
7	2H	77	LYS	2.4
23	2l	28	GLY	2.4
41	1j	60	ARG	2.4
43	2l	55	VAL	2.4
11	1P	40	SER	2.4
47	1p	14	ASN	2.4
34	2c	152	ILE	2.4
36	1e	91	LEU	2.4
50	2s	49	ILE	2.4
34	2c	6	HIS	2.4
3	2D	52	ARG	2.4
3	2D	53	PHE	2.4
41	2j	66	ARG	2.4
35	2d	37	PRO	2.4
38	2g	151	TYR	2.4
45	1n	56	VAL	2.4
52	1u	2	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
38	1g	86	GLN	2.4
12	2Q	40	ALA	2.4
11	2P	45	LEU	2.4
32	2a	1116	C	2.4
42	2k	96	ARG	2.4
7	2H	32	GLU	2.4
11	2P	51	PHE	2.4
45	1n	8	GLU	2.4
40	2i	54	ASP	2.4
9	2N	116	LEU	2.4
21	2Z	144	LEU	2.4
41	2j	71	LEU	2.4
1	1A	1064	C	2.4
7	2H	119	GLU	2.3
33	2b	93	VAL	2.3
40	2i	6	GLY	2.3
13	2R	69	ASP	2.3
18	2W	94	ASP	2.3
41	2j	89	ASP	2.3
47	1p	27	LYS	2.3
47	1p	69	THR	2.3
54	2w	5	G	2.3
33	2b	42	ILE	2.3
7	2H	34	GLU	2.3
28	26	5	VAL	2.3
45	2n	33	VAL	2.3
26	24	32	TYR	2.3
33	2b	161	ALA	2.3
42	2k	26	ASN	2.3
43	1l	7	ILE	2.3
54	2w	19	G	2.3
54	2y	23	A	2.3
12	1Q	106	VAL	2.3
20	2Y	5	MET	2.3
15	2T	105	LEU	2.3
17	2V	25	LEU	2.3
37	1f	58	GLY	2.3
47	1p	31	LYS	2.3
54	2w	18	G	2.3
7	2H	114	VAL	2.3
20	2Y	45	VAL	2.3
43	2l	18	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
16	2U	2	PRO	2.3
47	2p	39	TYR	2.3
7	2H	46	GLU	2.3
4	2E	195	LEU	2.3
15	2T	48	ILE	2.3
50	2s	32	LYS	2.3
40	2i	3	GLN	2.3
45	2n	26	ARG	2.3
3	2D	221	VAL	2.3
7	2H	52	VAL	2.3
1	1A	2112	G	2.3
6	2G	32	PRO	2.3
43	2l	31	PRO	2.3
10	2O	7	TYR	2.3
11	1P	110	TYR	2.3
6	2G	43	LEU	2.3
30	28	29	LYS	2.3
34	2c	187	ALA	2.3
44	2m	87	TYR	2.3
12	2Q	15	GLY	2.3
19	2X	28	PHE	2.3
7	2H	43	VAL	2.3
54	1w	31	C	2.3
19	2X	1	MET	2.3
21	2Z	5	LEU	2.3
20	2Y	2	ARG	2.3
38	2g	78	ARG	2.3
40	1i	37	PHE	2.3
7	2H	80	SER	2.3
48	1q	26	GLN	2.3
50	2s	53	ASN	2.3
1	1A	2146	C	2.3
42	1k	68	ALA	2.3
51	2t	25	ARG	2.3
34	2c	158	GLY	2.3
39	2h	86	ILE	2.3
6	2G	27	ASN	2.3
24	22	2	LYS	2.3
40	2i	28	VAL	2.3
48	1q	35	VAL	2.3
33	1b	202	PRO	2.3
42	1k	65	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
33	2b	32	ILE	2.3
33	2b	33	TYR	2.3
42	1k	75	TYR	2.3
40	1i	78	LYS	2.3
29	27	36	GLN	2.3
33	2b	209	ARG	2.2
52	1u	22	ARG	2.2
17	2V	85	LYS	2.2
34	1c	196	LEU	2.2
36	2e	86	ALA	2.2
45	1n	2	ALA	2.2
45	2n	30	ALA	2.2
34	1c	182	ILE	2.2
50	2s	44	MET	2.2
25	23	6	VAL	2.2
44	2m	98	VAL	2.2
54	2w	69	A	2.2
54	2y	35	A	2.2
49	1r	87	ARG	2.2
19	2X	2	LYS	2.2
7	2H	96	ALA	2.2
36	2e	17	ALA	2.2
41	2j	8	LEU	2.2
47	1p	16	HIS	2.2
40	2i	35	GLU	2.2
31	29	19	ARG	2.2
47	1p	2	VAL	2.2
32	2a	1286	A	2.2
33	2b	37	ASN	2.2
5	2F	77	ASP	2.2
45	2n	22	THR	2.2
18	2W	86	LEU	2.2
32	2a	1224	G	2.2
40	1i	117	HIS	2.2
54	1w	3	G	2.2
10	2O	19	ILE	2.2
16	2U	17	ILE	2.2
40	2i	59	PHE	2.2
40	2i	120	ARG	2.2
47	1p	65	GLN	2.2
3	2D	5	LYS	2.2
38	2g	36	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
39	1h	93	VAL	2.2
40	2i	108	VAL	2.2
32	1a	1035	A	2.2
39	2h	123	GLU	2.2
41	1j	40	LEU	2.2
45	2n	55	GLY	2.2
5	2F	78	ILE	2.2
42	2k	125	PHE	2.2
11	2P	18	ARG	2.2
45	1n	61	TRP	2.2
52	2u	18	TYR	2.2
8	2I	92	VAL	2.2
54	2w	28	C	2.2
20	2Y	43	ASN	2.2
33	2b	94	ASN	2.2
9	2N	99	LEU	2.2
17	2V	18	LEU	2.2
34	1c	122	GLU	2.2
33	1b	194	PRO	2.2
33	2b	211	ILE	2.2
34	2c	10	PHE	2.2
42	1k	16	SER	2.2
54	2y	38	A	2.2
9	2N	78	TYR	2.2
32	1a	1027	C	2.2
34	2c	19	GLU	2.2
42	2k	52	GLY	2.2
33	2b	69	LEU	2.2
35	1d	19	LEU	2.2
47	1p	47	ASP	2.2
1	2A	229	A	2.2
45	2n	54	PRO	2.2
1	2A	2128	C	2.2
7	2H	95	ARG	2.2
32	2a	1036	G	2.2
22	10	4	LYS	2.2
41	1j	5	ARG	2.2
42	1k	17	GLY	2.2
38	2g	99	LEU	2.2
38	2g	147	ALA	2.2
39	2h	135	CYS	2.2
34	1c	15	THR	2.2

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Mol	Chain	Res	Type	RSRZ
41	2j	19	SER	2.2
36	2e	148	VAL	2.2
48	2q	32	TYR	2.2
20	2Y	50	ARG	2.2
39	1h	91	ARG	2.2
44	2m	24	GLY	2.2
1	2A	2896	C	2.2
34	2c	37	GLN	2.2
34	2c	134	ILE	2.2
22	10	3	HIS	2.2
26	24	40	HIS	2.2
26	24	33	VAL	2.2
34	1c	153	VAL	2.2
38	1g	78	ARG	2.2
45	1n	57	ARG	2.2
53	2v	13	A	2.2
6	2G	139	LEU	2.1
35	1d	158	ILE	2.1
36	1e	11	ILE	2.1
30	18	65	GLU	2.1
47	1p	66	PRO	2.1
10	2O	121	VAL	2.1
6	2G	146	TYR	2.1
34	1c	17	ASP	2.1
34	2c	162	GLN	2.1
47	1p	59	TRP	2.1
6	2G	136	ARG	2.1
34	1c	35	GLU	2.1
39	1h	92	ARG	2.1
44	2m	69	GLU	2.1
54	1w	71	C	2.1
21	2Z	170	THR	2.1
22	10	8	GLY	2.1
27	25	29	THR	2.1
39	2h	90	GLY	2.1
48	2q	9	VAL	2.1
33	1b	31	TYR	2.1
33	2b	44	LEU	2.1
22	20	40	GLN	2.1
34	2c	71	ALA	2.1
48	1q	28	PRO	2.1
10	2O	85	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
33	2b	210	SER	2.1
40	2i	67	GLY	2.1
32	2a	1030(C)	G	2.1
33	2b	221	LEU	2.1
39	1h	10	LEU	2.1
48	1q	43	LEU	2.1
34	2c	59	ARG	2.1
51	2t	80	ARG	2.1
21	1Z	124	ILE	2.1
33	1b	214	ILE	2.1
34	2c	163	ALA	2.1
36	1e	118	ILE	2.1
54	1y	35	A	2.1
54	2w	23	A	2.1
40	1i	70	LYS	2.1
48	2q	12	SER	2.1
10	2O	8	LEU	2.1
10	2O	17	ARG	2.1
18	2W	99	ARG	2.1
22	20	41	ARG	2.1
46	1o	66	LEU	2.1
52	2u	10	ARG	2.1
42	1k	15	ALA	2.1
3	2D	210	GLY	2.1
50	2s	26	GLY	2.1
54	1w	73	A	2.1
7	2H	117	PRO	2.1
54	2w	30	C	2.1
31	29	24	TYR	2.1
21	2Z	171	ILE	2.1
25	23	25	ALA	2.1
1	1A	2133	G	2.1
29	17	48	LYS	2.1
39	2h	16	ALA	2.1
41	2j	32	ALA	2.1
13	2R	68	ARG	2.1
37	2f	6	VAL	2.1
40	2i	20	ARG	2.1
45	2n	57	ARG	2.1
54	2w	62	C	2.1
42	1k	41	THR	2.1
35	2d	164	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
39	2h	13	ILE	2.1
40	1i	77	ILE	2.1
43	2l	30	ALA	2.1
14	2S	45	GLY	2.1
51	1t	47	GLY	2.1
18	2W	8	ARG	2.1
18	2W	80	PRO	2.1
25	23	59	VAL	2.1
48	2q	19	VAL	2.1
6	1G	80	PHE	2.1
17	2V	20	LEU	2.1
35	2d	196	LEU	2.1
41	1j	63	PHE	2.1
45	1n	49	HIS	2.1
51	2t	70	SER	2.1
18	2W	35	ILE	2.1
33	2b	34	ALA	2.1
48	2q	38	ARG	2.1
52	2u	16	GLY	2.1
8	2I	21	VAL	2.1
12	2Q	96	VAL	2.1
38	1g	17	VAL	2.1
45	1n	11	LYS	2.1
38	2g	153	HIS	2.0
1	1A	1095	A	2.0
53	2v	14	A	2.0
20	2Y	61	ILE	2.0
35	2d	47	ARG	2.0
38	2g	25	ALA	2.0
39	2h	106	GLY	2.0
20	2Y	47	LYS	2.0
40	2i	70	LYS	2.0
5	2F	114	VAL	2.0
34	1c	198	VAL	2.0
34	2c	203	PHE	2.0
7	2H	111	HIS	2.0
33	2b	113	HIS	2.0
1	2A	2153	G	2.0
3	2D	250	TRP	2.0
22	20	42	GLY	2.0
30	28	10	ALA	2.0
30	28	34	TRP	2.0

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Mol	Chain	Res	Type	RSRZ
42	2k	61	ALA	2.0
46	1o	87	ILE	2.0
33	2b	228	GLY	2.0
40	1i	112	LYS	2.0
54	1y	33	U	2.0
18	2W	39	THR	2.0
41	2j	15	THR	2.0
7	2H	45	VAL	2.0
8	2I	3	VAL	2.0
20	2Y	31	LEU	2.0
28	26	10	LEU	2.0
48	2q	84	LEU	2.0
40	1i	83	ARG	2.0
5	1F	111	ALA	2.0
1	1A	1058	G	2.0
1	2A	2111	C	2.0
4	2E	115	GLY	2.0
4	2E	134	ILE	2.0
12	2Q	48	GLU	2.0
48	2q	8	GLY	2.0
5	2F	51	THR	2.0
11	2P	30	THR	2.0
50	1s	39	THR	2.0
16	2U	8	VAL	2.0
16	2U	90	VAL	2.0
21	2Z	98	MET	2.0
13	2R	20	LEU	2.0
21	2Z	70	LEU	2.0
34	2c	172	ARG	2.0
38	1g	22	LEU	2.0
41	1j	71	LEU	2.0
6	2G	77	ILE	2.0
8	2I	4	ILE	2.0
11	2P	22	GLY	2.0
34	2c	200	ALA	2.0
51	1t	12	ALA	2.0
1	1A	885	C	2.0
32	2a	1114	C	2.0
6	2G	109	VAL	2.0
26	24	56	VAL	2.0
32	2a	1035	A	2.0
54	1w	57	G	2.0

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Mol	Chain	Res	Type	RSRZ
8	2I	35	LEU	2.0
33	2b	194	PRO	2.0
33	2b	212	GLN	2.0
34	1c	199	LYS	2.0
38	2g	109	ASN	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	0.48	0.35	82,96,107,108	0
54	6MZ	2y	37	23/24	0.72	0.44	71,85,103,113	0
54	7MG	2y	46	24/25	0.75	0.25	75,93,100,110	0
54	PSU	1w	55	20/21	0.75	0.24	72,82,89,91	0
54	4SU	2y	8	20/21	0.75	0.19	82,92,104,109	0
54	4SU	1y	8	20/21	0.76	0.16	81,86,90,99	0
54	CM0	2y	34	25/26	0.77	0.39	76,88,100,116	0
54	5MU	2y	54	21/22	0.78	0.30	72,85,94,106	0
54	7MG	2w	46	24/25	0.82	0.28	79,92,98,107	0
54	4SU	2w	8	20/21	0.83	0.26	89,95,100,101	0
54	4SU	1w	8	20/21	0.83	0.20	70,83,99,103	0
54	7MG	1y	46	24/25	0.83	0.21	79,89,97,106	0
54	CM0	1y	34	25/26	0.83	0.32	59,84,89,100	0
54	5MU	1y	54	21/22	0.84	0.27	75,82,94,96	0
54	7MG	1w	46	24/25	0.84	0.19	75,83,91,102	0
54	6MZ	1y	37	23/24	0.85	0.17	77,82,90,98	0
54	PSU	2y	55	20/21	0.85	0.20	75,83,91,100	0
1	5MU	2A	1915	21/22	0.86	0.17	62,69,78,91	0
54	5MU	2w	54	21/22	0.86	0.20	75,83,90,98	0
55	4SU	2x	8	20/21	0.87	0.14	58,74,79,80	0
54	PSU	1y	55	20/21	0.88	0.23	74,82,94,99	0
54	5MU	1w	54	21/22	0.89	0.22	68,74,81,86	0
54	CM0	2w	34	25/26	0.89	0.24	67,82,89,101	0
32	2MG	2a	1207	24/25	0.89	0.16	65,76,81,84	0
54	6MZ	1w	37	23/24	0.90	0.23	55,64,71,73	0
32	M2G	2a	966	25/26	0.90	0.24	54,67,78,82	0
32	PSU	2a	516	20/21	0.90	0.13	60,64,69,69	0
54	CM0	1w	34	25/26	0.90	0.20	58,70,74,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	PSU	2x	55	20/21	0.90	0.12	70,78,86,93	0
55	4SU	1x	8	20/21	0.91	0.16	55,63,69,69	0
32	5MC	2a	1404	21/22	0.92	0.15	45,53,57,60	0
43	0TD	1l	92	10/11	0.92	0.16	46,52,54,68	0
32	5MC	2a	967	21/22	0.92	0.23	54,67,73,79	0
54	6MZ	2w	37	23/24	0.92	0.20	70,77,83,86	0
55	5MU	2x	54	21/22	0.92	0.15	71,78,83,85	0
1	PSU	2A	1911	20/21	0.92	0.14	47,60,70,71	0
1	5MC	2A	1942	21/22	0.93	0.17	48,62,68,77	0
1	4OC	2A	1920	21/23	0.93	0.18	57,64,67,72	0
32	MA6	2a	1518	24/25	0.93	0.21	49,60,64,66	0
55	PSU	1x	55	20/21	0.93	0.15	54,59,74,77	0
43	0TD	2l	92	10/11	0.93	0.16	57,62,65,66	0
1	5MU	1A	1915	21/22	0.94	0.15	40,51,57,58	0
32	4OC	2a	1402	22/23	0.94	0.15	48,60,64,65	0
1	PSU	2A	1917	20/21	0.94	0.15	51,60,66,71	0
55	5MC	2x	32	21/22	0.94	0.21	63,69,74,76	0
55	5MU	1x	54	21/22	0.94	0.15	48,61,64,74	0
32	UR3	2a	1498	21/22	0.94	0.20	42,52,58,62	0
32	PSU	1a	516	20/21	0.94	0.14	51,60,66,73	0
32	7MG	2a	527	24/25	0.94	0.14	57,67,69,71	0
1	5MC	2A	1962	21/22	0.95	0.15	30,47,54,66	0
1	PSU	1A	1911	20/21	0.95	0.16	29,39,51,52	0
32	2MG	1a	1207	24/25	0.95	0.17	48,60,66,66	0
1	PSU	1A	1917	20/21	0.95	0.15	32,52,55,56	0
32	5MC	1a	1400	21/22	0.95	0.17	41,49,54,59	0
32	5MC	2a	1400	21/22	0.95	0.20	61,66,68,71	0
32	MA6	2a	1519	24/25	0.95	0.24	41,56,60,62	0
1	5MU	2A	1939	21/22	0.96	0.19	35,41,47,47	0
32	M2G	1a	966	25/26	0.96	0.20	46,52,60,65	0
32	5MC	1a	967	21/22	0.96	0.22	49,56,65,68	0
1	5MC	1A	1942	21/22	0.96	0.17	29,38,46,52	0
1	PSU	1A	2605	20/21	0.96	0.20	14,20,26,27	0
1	OMG	2A	2251	24/25	0.96	0.21	33,39,44,46	0
1	2MU	2A	2552	21/23	0.96	0.19	35,42,50,58	0
55	5MC	1x	32	21/22	0.96	0.20	47,56,62,64	0
32	5MC	2a	1407	21/22	0.96	0.15	45,51,54,56	0
1	PSU	2A	2605	20/21	0.96	0.16	27,34,40,43	0
32	5MC	1a	1404	21/22	0.96	0.18	30,34,39,40	0
32	5MC	1a	1407	21/22	0.96	0.16	25,36,40,42	0
32	MA6	1a	1518	24/25	0.96	0.17	32,36,40,43	0
32	UR3	1a	1498	21/22	0.97	0.20	31,35,39,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
32	7MG	1a	527	24/25	0.97	0.15	32,41,45,46	0
32	MA6	1a	1519	24/25	0.97	0.17	34,37,47,51	0
1	4OC	1A	1920	21/23	0.97	0.18	31,40,45,46	0
1	5MU	1A	1939	21/22	0.97	0.20	21,26,32,34	0
32	4OC	1a	1402	22/23	0.97	0.16	33,40,46,55	0
1	5MC	1A	1962	21/22	0.97	0.20	26,31,35,36	0
1	2MA	2A	2503	23/24	0.97	0.20	24,31,38,40	0
1	OMG	1A	2251	24/25	0.98	0.18	10,15,22,23	0
1	2MA	1A	2503	23/24	0.98	0.20	6,12,15,18	0
1	2MU	1A	2552	21/23	0.98	0.15	16,22,26,27	0

6.3 Carbohydrates [i](#)

There are no monosaccharides 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(\AA^2)	Q<0.9
56	MG	1A	3959	1/1	0.30	0.16	50,50,50,50	0
56	MG	2A	3670	1/1	0.35	0.22	67,67,67,67	0
56	MG	2A	3766	1/1	0.42	0.38	80,80,80,80	0
56	MG	2A	3819	1/1	0.42	0.16	76,76,76,76	0
56	MG	1A	3923	1/1	0.43	0.12	68,68,68,68	0
56	MG	2a	1777	1/1	0.43	0.11	69,69,69,69	0
56	MG	2A	3775	1/1	0.44	0.26	83,83,83,83	0
56	MG	1A	4073	1/1	0.45	0.40	66,66,66,66	0
56	MG	2A	3826	1/1	0.48	0.16	70,70,70,70	0
56	MG	2A	3786	1/1	0.49	0.25	67,67,67,67	0
56	MG	2A	3794	1/1	0.50	0.36	68,68,68,68	0
56	MG	1A	3912	1/1	0.51	0.18	60,60,60,60	0
56	MG	1A	3624	1/1	0.54	0.11	31,31,31,31	0
56	MG	2A	3219	1/1	0.58	0.21	57,57,57,57	0
56	MG	2A	3643	1/1	0.60	0.16	71,71,71,71	0
56	MG	1m	201	1/1	0.60	0.20	64,64,64,64	0
56	MG	1a	3218	1/1	0.60	0.15	65,65,65,65	0
56	MG	2A	3469	1/1	0.62	0.35	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4010	1/1	0.62	0.14	51,51,51,51	0
56	MG	2A	3784	1/1	0.63	0.11	58,58,58,58	0
56	MG	2A	3372	1/1	0.63	0.18	57,57,57,57	0
56	MG	2T	202	1/1	0.63	0.49	55,55,55,55	0
56	MG	26	101	1/1	0.63	0.27	54,54,54,54	0
56	MG	2A	3693	1/1	0.63	0.33	55,55,55,55	0
56	MG	1A	3971	1/1	0.64	0.18	27,27,27,27	0
56	MG	2A	3521	1/1	0.64	0.13	60,60,60,60	0
56	MG	2A	3390	1/1	0.64	0.35	53,53,53,53	0
56	MG	2a	1788	1/1	0.64	0.14	70,70,70,70	0
56	MG	2A	3698	1/1	0.65	0.08	51,51,51,51	0
56	MG	2a	1749	1/1	0.65	0.18	68,68,68,68	0
56	MG	2A	3206	1/1	0.66	0.18	48,48,48,48	0
56	MG	2a	1612	1/1	0.66	0.15	62,62,62,62	0
56	MG	2A	3477	1/1	0.66	0.35	56,56,56,56	0
56	MG	2A	3243	1/1	0.66	0.33	59,59,59,59	0
56	MG	2A	3632	1/1	0.66	0.28	61,61,61,61	0
56	MG	1A	3309	1/1	0.67	0.18	35,35,35,35	0
56	MG	2a	1603	1/1	0.67	0.17	50,50,50,50	0
56	MG	2A	3491	1/1	0.67	0.12	33,33,33,33	0
56	MG	1A	3690	1/1	0.67	0.18	21,21,21,21	0
56	MG	2B	216	1/1	0.67	0.15	61,61,61,61	0
56	MG	2A	3115	1/1	0.67	0.14	61,61,61,61	0
56	MG	2A	3678	1/1	0.68	0.12	76,76,76,76	0
56	MG	1A	3706	1/1	0.68	0.18	26,26,26,26	0
56	MG	1A	3270	1/1	0.69	0.22	61,61,61,61	0
56	MG	2A	3256	1/1	0.70	0.29	58,58,58,58	0
56	MG	1d	301	1/1	0.70	0.19	56,56,56,56	0
56	MG	1a	3207	1/1	0.71	0.07	46,46,46,46	0
56	MG	2a	1752	1/1	0.71	0.06	64,64,64,64	0
56	MG	2A	3656	1/1	0.71	0.38	45,45,45,45	0
56	MG	1A	3343	1/1	0.71	0.14	43,43,43,43	0
56	MG	1A	3795	1/1	0.72	0.07	69,69,69,69	0
56	MG	1A	3957	1/1	0.72	0.07	57,57,57,57	0
56	MG	1A	3472	1/1	0.72	0.24	60,60,60,60	0
56	MG	1F	314	1/1	0.72	0.58	45,45,45,45	0
56	MG	2A	3787	1/1	0.72	0.15	46,46,46,46	0
56	MG	2A	3505	1/1	0.72	0.12	36,36,36,36	0
56	MG	1a	3104	1/1	0.72	0.12	72,72,72,72	0
56	MG	2a	1758	1/1	0.72	0.09	70,70,70,70	0
56	MG	2A	3821	1/1	0.72	0.18	26,26,26,26	0
56	MG	2A	3597	1/1	0.72	0.12	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1721	1/1	0.73	0.25	55,55,55,55	0
56	MG	2A	3789	1/1	0.73	0.20	74,74,74,74	0
56	MG	2a	1832	1/1	0.73	0.17	51,51,51,51	0
56	MG	1A	3626	1/1	0.74	0.15	17,17,17,17	0
56	MG	2a	1649	1/1	0.74	0.16	54,54,54,54	0
56	MG	2a	1710	1/1	0.74	0.14	70,70,70,70	0
56	MG	1a	3151	1/1	0.74	0.12	62,62,62,62	0
56	MG	1A	3438	1/1	0.74	0.16	51,51,51,51	0
56	MG	2A	3864	1/1	0.74	0.37	49,49,49,49	0
56	MG	2A	3359	1/1	0.74	0.45	57,57,57,57	0
56	MG	2A	3183	1/1	0.74	0.13	35,35,35,35	0
56	MG	2A	3528	1/1	0.74	0.10	66,66,66,66	0
56	MG	1a	3075	1/1	0.74	0.29	63,63,63,63	0
56	MG	2A	3462	1/1	0.75	0.22	41,41,41,41	0
56	MG	1A	3116	1/1	0.75	0.22	36,36,36,36	0
56	MG	2A	3818	1/1	0.75	0.26	56,56,56,56	0
56	MG	2a	1685	1/1	0.75	0.15	49,49,49,49	0
56	MG	2A	3058	1/1	0.75	0.14	67,67,67,67	0
56	MG	2A	3285	1/1	0.75	0.26	66,66,66,66	0
56	MG	2i	201	1/1	0.75	0.17	60,60,60,60	0
56	MG	2a	1748	1/1	0.76	0.11	59,59,59,59	0
56	MG	2A	3026	1/1	0.76	0.11	40,40,40,40	0
56	MG	2A	3358	1/1	0.76	0.25	51,51,51,51	0
56	MG	1A	3085	1/1	0.76	0.18	16,16,16,16	0
56	MG	2a	1763	1/1	0.76	0.06	70,70,70,70	0
56	MG	2P	202	1/1	0.76	0.23	55,55,55,55	0
56	MG	2a	1706	1/1	0.76	0.13	67,67,67,67	0
56	MG	1A	3539	1/1	0.76	0.19	25,25,25,25	0
56	MG	1x	106	1/1	0.76	0.15	66,66,66,66	0
56	MG	2A	3480	1/1	0.77	0.09	58,58,58,58	0
56	MG	1A	3348	1/1	0.77	0.41	33,33,33,33	0
56	MG	2A	3498	1/1	0.77	0.17	51,51,51,51	0
56	MG	1A	3939	1/1	0.77	0.23	47,47,47,47	0
56	MG	2A	3741	1/1	0.77	0.12	49,49,49,49	0
56	MG	2A	3839	1/1	0.77	0.12	47,47,47,47	0
56	MG	2A	3840	1/1	0.77	0.09	41,41,41,41	0
56	MG	1A	3981	1/1	0.77	0.31	29,29,29,29	0
56	MG	2A	3375	1/1	0.77	0.30	59,59,59,59	0
56	MG	2a	1759	1/1	0.77	0.20	61,61,61,61	0
56	MG	2A	3776	1/1	0.77	0.28	74,74,74,74	0
56	MG	1A	3953	1/1	0.77	0.23	12,12,12,12	0
56	MG	1A	4046	1/1	0.77	0.13	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3277	1/1	0.77	0.31	55,55,55,55	0
56	MG	1A	3067	1/1	0.77	0.26	44,44,44,44	0
56	MG	2A	3502	1/1	0.78	0.32	53,53,53,53	0
56	MG	2A	3396	1/1	0.78	0.15	50,50,50,50	0
56	MG	1A	3941	1/1	0.78	0.15	32,32,32,32	0
56	MG	1A	3888	1/1	0.78	0.15	62,62,62,62	0
56	MG	2A	3806	1/1	0.78	0.15	50,50,50,50	0
56	MG	2A	3569	1/1	0.78	0.10	62,62,62,62	0
56	MG	2A	3222	1/1	0.78	0.20	29,29,29,29	0
56	MG	2A	3771	1/1	0.78	0.14	50,50,50,50	0
56	MG	1a	3084	1/1	0.78	0.31	56,56,56,56	0
56	MG	1A	3473	1/1	0.78	0.18	51,51,51,51	0
56	MG	1a	3133	1/1	0.78	0.16	53,53,53,53	0
56	MG	2A	3709	1/1	0.79	0.19	60,60,60,60	0
56	MG	2A	3797	1/1	0.79	0.07	78,78,78,78	0
56	MG	2A	3801	1/1	0.79	0.40	63,63,63,63	0
56	MG	1a	3167	1/1	0.79	0.07	54,54,54,54	0
56	MG	2A	3812	1/1	0.79	0.16	59,59,59,59	0
56	MG	2A	3762	1/1	0.79	0.10	57,57,57,57	0
56	MG	1A	3676	1/1	0.79	0.21	28,28,28,28	0
56	MG	2A	3634	1/1	0.79	0.16	68,68,68,68	0
56	MG	2A	3774	1/1	0.79	0.59	66,66,66,66	0
56	MG	2A	3316	1/1	0.79	0.50	48,48,48,48	0
56	MG	2A	3405	1/1	0.79	0.12	50,50,50,50	0
56	MG	2A	3860	1/1	0.79	0.18	62,62,62,62	0
56	MG	2A	3781	1/1	0.79	0.11	51,51,51,51	0
56	MG	2A	3428	1/1	0.79	0.15	66,66,66,66	0
56	MG	1A	3497	1/1	0.79	0.16	33,33,33,33	0
56	MG	1A	3388	1/1	0.79	0.16	53,53,53,53	0
56	MG	1A	4034	1/1	0.79	0.07	44,44,44,44	0
56	MG	2a	1627	1/1	0.80	0.51	53,53,53,53	0
56	MG	1A	3364	1/1	0.80	0.22	31,31,31,31	0
56	MG	2A	3665	1/1	0.80	0.09	48,48,48,48	0
56	MG	2a	1695	1/1	0.80	0.15	63,63,63,63	0
56	MG	2a	1698	1/1	0.80	0.14	43,43,43,43	0
56	MG	1a	3188	1/1	0.80	0.13	48,48,48,48	0
56	MG	2A	3289	1/1	0.80	0.11	60,60,60,60	0
56	MG	2a	1720	1/1	0.80	0.21	55,55,55,55	0
56	MG	2A	3783	1/1	0.80	0.08	53,53,53,53	0
56	MG	2a	1736	1/1	0.80	0.15	65,65,65,65	0
56	MG	2a	1738	1/1	0.80	0.20	76,76,76,76	0
56	MG	2A	3525	1/1	0.80	0.08	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3848	1/1	0.80	0.05	55,55,55,55	0
56	MG	1A	3827	1/1	0.80	0.36	38,38,38,38	0
56	MG	1A	3835	1/1	0.80	0.13	22,22,22,22	0
56	MG	1A	3867	1/1	0.80	0.20	13,13,13,13	0
56	MG	2A	3750	1/1	0.80	0.15	28,28,28,28	0
56	MG	1A	3509	1/1	0.80	0.19	23,23,23,23	0
56	MG	1A	3713	1/1	0.80	0.17	22,22,22,22	0
56	MG	1a	3153	1/1	0.80	0.12	27,27,27,27	0
56	MG	2A	3773	1/1	0.80	0.73	71,71,71,71	0
56	MG	1a	3113	1/1	0.81	0.13	41,41,41,41	0
56	MG	1a	3191	1/1	0.81	0.10	42,42,42,42	0
56	MG	17	105	1/1	0.81	0.20	22,22,22,22	0
56	MG	1a	3138	1/1	0.81	0.16	58,58,58,58	0
56	MG	1A	3999	1/1	0.81	0.20	39,39,39,39	0
56	MG	2A	3829	1/1	0.81	0.06	42,42,42,42	0
56	MG	2A	3779	1/1	0.81	0.09	47,47,47,47	0
56	MG	2A	3339	1/1	0.81	0.17	68,68,68,68	0
56	MG	2A	3842	1/1	0.81	0.18	62,62,62,62	0
56	MG	2A	3843	1/1	0.81	0.08	40,40,40,40	0
56	MG	2A	3701	1/1	0.81	0.11	40,40,40,40	0
56	MG	2A	3851	1/1	0.81	0.16	37,37,37,37	0
56	MG	2A	3853	1/1	0.81	0.12	33,33,33,33	0
56	MG	2A	3208	1/1	0.81	0.24	48,48,48,48	0
56	MG	2A	3716	1/1	0.81	0.22	56,56,56,56	0
56	MG	2A	3600	1/1	0.81	0.11	69,69,69,69	0
56	MG	2A	3745	1/1	0.81	0.26	49,49,49,49	0
56	MG	2A	3749	1/1	0.81	0.25	41,41,41,41	0
56	MG	1A	3893	1/1	0.81	0.12	48,48,48,48	0
56	MG	1A	3175	1/1	0.81	0.20	19,19,19,19	0
56	MG	1y	103	1/1	0.81	0.33	66,66,66,66	0
56	MG	2G	201	1/1	0.82	0.09	59,59,59,59	0
56	MG	2A	3676	1/1	0.82	0.21	64,64,64,64	0
56	MG	2R	202	1/1	0.82	0.15	46,46,46,46	0
56	MG	1A	3292	1/1	0.82	0.14	35,35,35,35	0
56	MG	1a	3195	1/1	0.82	0.16	47,47,47,47	0
56	MG	1P	203	1/1	0.82	0.96	27,27,27,27	0
56	MG	1A	3440	1/1	0.82	0.20	38,38,38,38	0
56	MG	2A	3799	1/1	0.82	0.47	68,68,68,68	0
56	MG	2A	3800	1/1	0.82	0.06	47,47,47,47	0
56	MG	2A	3499	1/1	0.82	0.12	50,50,50,50	0
56	MG	2A	3804	1/1	0.82	0.11	60,60,60,60	0
56	MG	1a	3068	1/1	0.82	0.30	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3446	1/1	0.82	0.12	43,43,43,43	0
56	MG	1A	3016	1/1	0.82	0.14	26,26,26,26	0
56	MG	2A	3347	1/1	0.82	0.13	41,41,41,41	0
56	MG	1A	3288	1/1	0.82	0.25	32,32,32,32	0
56	MG	1y	104	1/1	0.82	0.14	61,61,61,61	0
56	MG	2A	3593	1/1	0.82	0.11	31,31,31,31	0
56	MG	1A	3997	1/1	0.82	0.18	57,57,57,57	0
56	MG	1A	3911	1/1	0.82	0.16	59,59,59,59	0
56	MG	1A	3389	1/1	0.82	0.16	39,39,39,39	0
56	MG	1A	3708	1/1	0.82	0.10	25,25,25,25	0
56	MG	1A	3505	1/1	0.82	0.12	44,44,44,44	0
56	MG	2A	3778	1/1	0.82	0.16	61,61,61,61	0
56	MG	2a	1769	1/1	0.82	0.08	60,60,60,60	0
56	MG	2A	3644	1/1	0.82	0.16	54,54,54,54	0
56	MG	1A	4071	1/1	0.82	0.30	52,52,52,52	0
56	MG	2a	1795	1/1	0.82	0.17	53,53,53,53	0
56	MG	1a	3175	1/1	0.82	0.22	66,66,66,66	0
56	MG	1A	3426	1/1	0.82	0.17	28,28,28,28	0
56	MG	2A	3541	1/1	0.83	0.13	53,53,53,53	0
56	MG	1A	3772	1/1	0.83	0.17	12,12,12,12	0
56	MG	2A	3571	1/1	0.83	0.19	53,53,53,53	0
56	MG	2E	307	1/1	0.83	0.12	25,25,25,25	0
56	MG	1a	3080	1/1	0.83	0.17	62,62,62,62	0
56	MG	1A	3915	1/1	0.83	0.10	29,29,29,29	0
56	MG	1A	3325	1/1	0.83	0.24	42,42,42,42	0
56	MG	2A	3618	1/1	0.83	0.20	39,39,39,39	0
56	MG	2I	101	1/1	0.83	0.16	57,57,57,57	0
56	MG	22	101	1/1	0.83	0.12	42,42,42,42	0
56	MG	1x	111	1/1	0.83	0.20	49,49,49,49	0
56	MG	1a	3109	1/1	0.83	0.20	40,40,40,40	0
56	MG	2a	1606	1/1	0.83	0.11	59,59,59,59	0
56	MG	1A	3276	1/1	0.83	0.14	38,38,38,38	0
56	MG	1a	3131	1/1	0.83	0.22	53,53,53,53	0
56	MG	2a	1645	1/1	0.83	0.20	44,44,44,44	0
56	MG	1A	4035	1/1	0.83	0.10	39,39,39,39	0
56	MG	2a	1652	1/1	0.83	0.35	60,60,60,60	0
56	MG	2a	1674	1/1	0.83	0.46	55,55,55,55	0
56	MG	2A	3795	1/1	0.83	0.27	61,61,61,61	0
56	MG	2A	3796	1/1	0.83	0.20	45,45,45,45	0
56	MG	2A	3664	1/1	0.83	0.41	54,54,54,54	0
56	MG	1A	3238	1/1	0.83	0.14	27,27,27,27	0
56	MG	2A	3129	1/1	0.83	0.09	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3410	1/1	0.83	0.13	48,48,48,48	0
56	MG	2A	3424	1/1	0.83	0.28	42,42,42,42	0
56	MG	1A	3841	1/1	0.83	0.11	34,34,34,34	0
56	MG	2A	3197	1/1	0.83	0.15	32,32,32,32	0
56	MG	1A	3704	1/1	0.83	0.09	34,34,34,34	0
56	MG	1B	201	1/1	0.83	0.18	40,40,40,40	0
56	MG	2A	3217	1/1	0.83	0.42	47,47,47,47	0
56	MG	1B	223	1/1	0.83	0.16	43,43,43,43	0
56	MG	1A	3353	1/1	0.83	0.40	41,41,41,41	0
56	MG	1A	3966	1/1	0.83	0.17	15,15,15,15	0
56	MG	1a	3193	1/1	0.83	0.07	57,57,57,57	0
56	MG	2A	3751	1/1	0.83	0.32	37,37,37,37	0
56	MG	2A	3270	1/1	0.83	0.26	50,50,50,50	0
56	MG	1A	3186	1/1	0.83	0.39	31,31,31,31	0
56	MG	1A	3272	1/1	0.83	0.21	24,24,24,24	0
56	MG	2A	3287	1/1	0.83	0.17	58,58,58,58	0
56	MG	2p	101	1/1	0.83	0.14	43,43,43,43	0
56	MG	2y	102	1/1	0.83	0.13	51,51,51,51	0
56	MG	1A	3220	1/1	0.84	0.14	53,53,53,53	0
56	MG	1A	4021	1/1	0.84	0.10	32,32,32,32	0
56	MG	1A	3728	1/1	0.84	0.15	54,54,54,54	0
56	MG	1a	3106	1/1	0.84	0.16	20,20,20,20	0
56	MG	1A	3326	1/1	0.84	0.28	29,29,29,29	0
56	MG	2A	3540	1/1	0.84	0.10	28,28,28,28	0
56	MG	2a	1666	1/1	0.84	0.20	50,50,50,50	0
56	MG	1A	3179	1/1	0.84	0.35	60,60,60,60	0
56	MG	2a	1681	1/1	0.84	0.24	51,51,51,51	0
56	MG	2A	3556	1/1	0.84	0.08	44,44,44,44	0
56	MG	2A	3566	1/1	0.84	0.17	44,44,44,44	0
56	MG	1A	3659	1/1	0.84	0.17	12,12,12,12	0
56	MG	2A	3770	1/1	0.84	0.34	65,65,65,65	0
56	MG	1A	3423	1/1	0.84	0.17	50,50,50,50	0
56	MG	2a	1711	1/1	0.84	0.12	47,47,47,47	0
56	MG	1A	3836	1/1	0.84	0.19	47,47,47,47	0
56	MG	2A	3071	1/1	0.84	0.24	30,30,30,30	0
56	MG	2A	3090	1/1	0.84	0.13	59,59,59,59	0
56	MG	2A	3614	1/1	0.84	0.11	23,23,23,23	0
56	MG	1B	222	1/1	0.84	0.13	53,53,53,53	0
56	MG	1A	3684	1/1	0.84	0.21	16,16,16,16	0
56	MG	1A	3490	1/1	0.84	0.13	18,18,18,18	0
56	MG	1A	3046	1/1	0.84	0.30	44,44,44,44	0
56	MG	2D	303	1/1	0.84	0.40	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1762	1/1	0.84	0.10	66,66,66,66	0
56	MG	1A	3435	1/1	0.84	0.23	50,50,50,50	0
56	MG	19	101	1/1	0.84	0.23	43,43,43,43	0
56	MG	1a	3031	1/1	0.84	0.14	53,53,53,53	0
56	MG	1A	3910	1/1	0.84	0.06	58,58,58,58	0
56	MG	1a	3202	1/1	0.84	0.14	46,46,46,46	0
56	MG	2A	3239	1/1	0.84	0.22	45,45,45,45	0
56	MG	1a	3206	1/1	0.84	0.11	52,52,52,52	0
56	MG	1A	3200	1/1	0.84	0.21	37,37,37,37	0
56	MG	1a	3214	1/1	0.84	0.08	49,49,49,49	0
56	MG	1A	3640	1/1	0.85	0.17	31,31,31,31	0
56	MG	2A	3160	1/1	0.85	0.10	50,50,50,50	0
56	MG	2E	301	1/1	0.85	0.10	45,45,45,45	0
56	MG	2A	3765	1/1	0.85	0.30	62,62,62,62	0
56	MG	1A	3824	1/1	0.85	0.15	25,25,25,25	0
56	MG	1a	3194	1/1	0.85	0.09	58,58,58,58	0
56	MG	1A	3333	1/1	0.85	0.26	42,42,42,42	0
56	MG	1A	3159	1/1	0.85	0.14	23,23,23,23	0
56	MG	1a	3204	1/1	0.85	0.08	49,49,49,49	0
56	MG	1A	4072	1/1	0.85	0.14	52,52,52,52	0
56	MG	1A	3683	1/1	0.85	0.11	28,28,28,28	0
56	MG	1a	3107	1/1	0.85	0.13	34,34,34,34	0
56	MG	1A	3437	1/1	0.85	0.14	39,39,39,39	0
56	MG	2a	1608	1/1	0.85	0.16	55,55,55,55	0
56	MG	2A	3245	1/1	0.85	0.37	58,58,58,58	0
56	MG	2a	1619	1/1	0.85	0.20	44,44,44,44	0
56	MG	1B	216	1/1	0.85	0.15	60,60,60,60	0
56	MG	2a	1639	1/1	0.85	0.24	60,60,60,60	0
56	MG	1a	3119	1/1	0.85	0.30	42,42,42,42	0
56	MG	2A	3568	1/1	0.85	0.17	46,46,46,46	0
56	MG	1w	104	1/1	0.85	0.15	51,51,51,51	0
56	MG	2a	1653	1/1	0.85	0.18	71,71,71,71	0
56	MG	2a	1664	1/1	0.85	0.16	49,49,49,49	0
56	MG	2a	1665	1/1	0.85	0.10	48,48,48,48	0
56	MG	1w	105	1/1	0.85	0.16	51,51,51,51	0
56	MG	1a	3128	1/1	0.85	0.18	34,34,34,34	0
56	MG	1A	3074	1/1	0.85	0.16	36,36,36,36	0
56	MG	2A	3294	1/1	0.85	0.11	44,44,44,44	0
56	MG	1A	3409	1/1	0.85	0.26	30,30,30,30	0
56	MG	2A	3327	1/1	0.85	0.63	44,44,44,44	0
56	MG	1A	3420	1/1	0.85	0.79	47,47,47,47	0
56	MG	2A	3345	1/1	0.85	0.84	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3014	1/1	0.85	0.18	38,38,38,38	0
56	MG	2A	3356	1/1	0.85	0.14	55,55,55,55	0
56	MG	2A	3021	1/1	0.85	1.13	52,52,52,52	0
56	MG	2a	1724	1/1	0.85	0.23	64,64,64,64	0
56	MG	1A	3566	1/1	0.85	0.25	38,38,38,38	0
56	MG	2A	3034	1/1	0.85	0.36	37,37,37,37	0
56	MG	2A	3046	1/1	0.85	0.13	59,59,59,59	0
56	MG	2A	3379	1/1	0.85	0.62	49,49,49,49	0
56	MG	2A	3387	1/1	0.85	0.18	72,72,72,72	0
56	MG	2a	1754	1/1	0.85	0.11	52,52,52,52	0
56	MG	2A	3838	1/1	0.85	0.11	61,61,61,61	0
56	MG	1A	3595	1/1	0.85	0.34	40,40,40,40	0
56	MG	1A	3460	1/1	0.85	0.15	25,25,25,25	0
56	MG	2A	3074	1/1	0.85	0.41	42,42,42,42	0
56	MG	1A	3133	1/1	0.85	0.47	19,19,19,19	0
56	MG	2a	1770	1/1	0.85	0.16	51,51,51,51	0
56	MG	2a	1773	1/1	0.85	0.13	71,71,71,71	0
56	MG	2A	3099	1/1	0.85	0.26	51,51,51,51	0
56	MG	2a	1784	1/1	0.85	0.13	60,60,60,60	0
56	MG	2A	3104	1/1	0.85	0.15	48,48,48,48	0
56	MG	2A	3446	1/1	0.85	0.12	39,39,39,39	0
56	MG	1a	3066	1/1	0.85	0.16	44,44,44,44	0
56	MG	2A	3120	1/1	0.85	0.45	48,48,48,48	0
56	MG	2B	208	1/1	0.85	0.34	57,57,57,57	0
56	MG	2B	209	1/1	0.85	0.12	41,41,41,41	0
56	MG	2A	3397	1/1	0.86	0.10	53,53,53,53	0
56	MG	2A	3176	1/1	0.86	0.13	43,43,43,43	0
56	MG	2A	3708	1/1	0.86	0.33	55,55,55,55	0
56	MG	1A	3129	1/1	0.86	0.10	29,29,29,29	0
56	MG	1a	3215	1/1	0.86	0.09	55,55,55,55	0
56	MG	2A	3723	1/1	0.86	0.09	60,60,60,60	0
56	MG	2A	3736	1/1	0.86	0.25	48,48,48,48	0
56	MG	1A	3714	1/1	0.86	0.11	25,25,25,25	0
56	MG	2A	3743	1/1	0.86	0.47	62,62,62,62	0
56	MG	2A	3439	1/1	0.86	0.12	43,43,43,43	0
56	MG	2A	3207	1/1	0.86	0.45	61,61,61,61	0
56	MG	1A	3494	1/1	0.86	0.21	35,35,35,35	0
56	MG	1A	3406	1/1	0.86	0.14	35,35,35,35	0
56	MG	1A	3056	1/1	0.86	0.24	40,40,40,40	0
56	MG	1A	3926	1/1	0.86	0.10	28,28,28,28	0
56	MG	1A	3662	1/1	0.86	0.14	44,44,44,44	0
56	MG	2a	1617	1/1	0.86	0.11	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3826	1/1	0.86	0.18	29,29,29,29	0
56	MG	2a	1620	1/1	0.86	0.22	46,46,46,46	0
56	MG	1A	3094	1/1	0.86	0.26	27,27,27,27	0
56	MG	2A	3501	1/1	0.86	0.07	42,42,42,42	0
56	MG	1A	3526	1/1	0.86	0.17	31,31,31,31	0
56	MG	2a	1648	1/1	0.86	0.13	46,46,46,46	0
56	MG	1a	3139	1/1	0.86	0.13	58,58,58,58	0
56	MG	2A	3512	1/1	0.86	0.27	36,36,36,36	0
56	MG	2A	3273	1/1	0.86	0.28	40,40,40,40	0
56	MG	2a	1663	1/1	0.86	0.09	33,33,33,33	0
56	MG	1A	3958	1/1	0.86	0.05	63,63,63,63	0
56	MG	1A	3165	1/1	0.86	0.15	23,23,23,23	0
56	MG	2A	3533	1/1	0.86	0.10	33,33,33,33	0
56	MG	2A	3538	1/1	0.86	0.14	33,33,33,33	0
56	MG	2a	1679	1/1	0.86	0.13	58,58,58,58	0
56	MG	2A	3032	1/1	0.86	0.14	54,54,54,54	0
56	MG	1Z	302	1/1	0.86	0.24	50,50,50,50	0
56	MG	2A	3788	1/1	0.86	0.13	40,40,40,40	0
56	MG	2A	3551	1/1	0.86	0.08	35,35,35,35	0
56	MG	2a	1705	1/1	0.86	0.14	51,51,51,51	0
56	MG	2A	3035	1/1	0.86	0.13	59,59,59,59	0
56	MG	2A	3558	1/1	0.86	0.25	58,58,58,58	0
56	MG	2A	3303	1/1	0.86	0.20	56,56,56,56	0
56	MG	2A	3312	1/1	0.86	0.10	32,32,32,32	0
56	MG	1A	3103	1/1	0.86	0.13	46,46,46,46	0
56	MG	2A	3049	1/1	0.86	0.12	54,54,54,54	0
56	MG	2A	3576	1/1	0.86	0.12	40,40,40,40	0
56	MG	2A	3802	1/1	0.86	0.07	54,54,54,54	0
56	MG	2A	3591	1/1	0.86	0.07	62,62,62,62	0
56	MG	2A	3330	1/1	0.86	0.11	47,47,47,47	0
56	MG	1a	3177	1/1	0.86	0.11	37,37,37,37	0
56	MG	2A	3343	1/1	0.86	0.17	60,60,60,60	0
56	MG	2A	3608	1/1	0.86	0.09	50,50,50,50	0
56	MG	1A	3844	1/1	0.86	0.08	29,29,29,29	0
56	MG	1A	3856	1/1	0.86	0.11	28,28,28,28	0
56	MG	1a	3054	1/1	0.86	0.19	46,46,46,46	0
56	MG	2A	3095	1/1	0.86	0.10	66,66,66,66	0
56	MG	2A	3640	1/1	0.86	0.14	72,72,72,72	0
56	MG	1a	3055	1/1	0.86	0.20	58,58,58,58	0
56	MG	1A	3993	1/1	0.86	0.12	33,33,33,33	0
56	MG	2a	1783	1/1	0.86	0.09	42,42,42,42	0
56	MG	2A	3373	1/1	0.86	0.66	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3075	1/1	0.86	0.24	34,34,34,34	0
56	MG	1A	3598	1/1	0.86	0.17	36,36,36,36	0
56	MG	2a	1807	1/1	0.86	0.14	60,60,60,60	0
56	MG	1A	3890	1/1	0.86	0.16	17,17,17,17	0
56	MG	2A	3154	1/1	0.86	0.13	50,50,50,50	0
56	MG	2i	202	1/1	0.86	0.13	42,42,42,42	0
56	MG	2A	3391	1/1	0.86	0.40	57,57,57,57	0
56	MG	1A	3605	1/1	0.86	0.14	35,35,35,35	0
58	ZN	14	102	1/1	0.86	0.10	99,99,99,99	0
56	MG	1a	3224	1/1	0.87	0.13	40,40,40,40	0
56	MG	1a	3226	1/1	0.87	0.07	63,63,63,63	0
56	MG	1A	3028	1/1	0.87	0.17	32,32,32,32	0
56	MG	1A	3710	1/1	0.87	0.16	17,17,17,17	0
56	MG	2A	3820	1/1	0.87	0.12	32,32,32,32	0
56	MG	2A	3555	1/1	0.87	0.09	33,33,33,33	0
56	MG	2A	3822	1/1	0.87	0.24	44,44,44,44	0
56	MG	2A	3825	1/1	0.87	0.15	31,31,31,31	0
56	MG	2A	3265	1/1	0.87	0.60	46,46,46,46	0
56	MG	2a	1669	1/1	0.87	0.18	41,41,41,41	0
56	MG	2A	3268	1/1	0.87	0.16	57,57,57,57	0
56	MG	2A	3833	1/1	0.87	0.09	48,48,48,48	0
56	MG	2A	3559	1/1	0.87	0.17	39,39,39,39	0
56	MG	2A	3269	1/1	0.87	0.43	44,44,44,44	0
56	MG	1A	3569	1/1	0.87	0.20	26,26,26,26	0
56	MG	1A	3139	1/1	0.87	0.32	34,34,34,34	0
56	MG	1A	3508	1/1	0.87	0.20	31,31,31,31	0
56	MG	1a	3095	1/1	0.87	0.19	40,40,40,40	0
56	MG	2a	1709	1/1	0.87	0.20	60,60,60,60	0
56	MG	1y	101	1/1	0.87	1.09	43,43,43,43	0
56	MG	2A	3769	1/1	0.87	0.12	68,68,68,68	0
56	MG	2A	3147	1/1	0.87	0.19	41,41,41,41	0
56	MG	2A	3596	1/1	0.87	0.10	37,37,37,37	0
56	MG	2a	1722	1/1	0.87	0.19	53,53,53,53	0
56	MG	2A	3153	1/1	0.87	0.21	47,47,47,47	0
56	MG	2a	1730	1/1	0.87	0.15	52,52,52,52	0
56	MG	1B	231	1/1	0.87	0.13	41,41,41,41	0
56	MG	2a	1737	1/1	0.87	0.10	52,52,52,52	0
56	MG	2B	214	1/1	0.87	0.09	63,63,63,63	0
56	MG	2A	3308	1/1	0.87	0.12	50,50,50,50	0
56	MG	2A	3156	1/1	0.87	0.14	46,46,46,46	0
56	MG	1F	306	1/1	0.87	0.21	42,42,42,42	0
56	MG	2A	3484	1/1	0.87	0.27	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4004	1/1	0.87	0.20	45,45,45,45	0
56	MG	1A	3770	1/1	0.87	0.16	46,46,46,46	0
56	MG	1A	3319	1/1	0.87	0.45	41,41,41,41	0
56	MG	2A	3201	1/1	0.87	0.15	40,40,40,40	0
56	MG	2A	3650	1/1	0.87	0.19	47,47,47,47	0
56	MG	1A	3877	1/1	0.87	0.14	43,43,43,43	0
56	MG	2A	3663	1/1	0.87	0.10	41,41,41,41	0
56	MG	1A	3782	1/1	0.87	0.13	18,18,18,18	0
56	MG	2A	3506	1/1	0.87	0.24	56,56,56,56	0
56	MG	1a	3003	1/1	0.87	0.13	55,55,55,55	0
56	MG	2a	1610	1/1	0.87	0.23	64,64,64,64	0
56	MG	1A	3155	1/1	0.87	0.12	29,29,29,29	0
56	MG	1A	3397	1/1	0.87	0.13	33,33,33,33	0
56	MG	2A	3365	1/1	0.87	0.15	48,48,48,48	0
56	MG	2A	3531	1/1	0.87	0.36	49,49,49,49	0
56	MG	2A	3699	1/1	0.87	0.09	39,39,39,39	0
56	MG	2a	1632	1/1	0.87	0.31	62,62,62,62	0
56	MG	2q	202	1/1	0.87	0.14	58,58,58,58	0
56	MG	2v	101	1/1	0.87	0.12	51,51,51,51	0
56	MG	2v	102	1/1	0.87	0.31	71,71,71,71	0
56	MG	1A	3564	1/1	0.87	0.14	28,28,28,28	0
56	MG	2a	1640	1/1	0.87	0.11	56,56,56,56	0
56	MG	2A	3304	1/1	0.88	0.39	50,50,50,50	0
56	MG	2A	3871	1/1	0.88	0.16	34,34,34,34	0
56	MG	1A	3631	1/1	0.88	0.17	24,24,24,24	0
56	MG	1A	3798	1/1	0.88	0.08	31,31,31,31	0
56	MG	1A	3807	1/1	0.88	0.16	40,40,40,40	0
56	MG	2A	3325	1/1	0.88	0.32	60,60,60,60	0
56	MG	2A	3019	1/1	0.88	0.07	47,47,47,47	0
56	MG	1A	3819	1/1	0.88	0.17	42,42,42,42	0
56	MG	2A	3023	1/1	0.88	0.08	42,42,42,42	0
56	MG	1A	3823	1/1	0.88	0.17	30,30,30,30	0
56	MG	2A	3344	1/1	0.88	0.21	49,49,49,49	0
56	MG	1A	3347	1/1	0.88	0.21	9,9,9,9	0
56	MG	2A	3667	1/1	0.88	0.11	53,53,53,53	0
56	MG	2Z	301	1/1	0.88	0.11	61,61,61,61	0
56	MG	1a	3086	1/1	0.88	0.10	46,46,46,46	0
56	MG	1A	3976	1/1	0.88	0.13	24,24,24,24	0
56	MG	25	101	1/1	0.88	0.12	33,33,33,33	0
56	MG	1a	3098	1/1	0.88	0.17	38,38,38,38	0
56	MG	1A	3495	1/1	0.88	0.15	29,29,29,29	0
56	MG	1A	3982	1/1	0.88	0.20	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3371	1/1	0.88	0.58	43,43,43,43	0
56	MG	2A	3068	1/1	0.88	0.09	31,31,31,31	0
56	MG	1A	3282	1/1	0.88	0.40	22,22,22,22	0
56	MG	1A	3673	1/1	0.88	0.23	49,49,49,49	0
56	MG	2A	3378	1/1	0.88	0.12	53,53,53,53	0
56	MG	2A	3076	1/1	0.88	0.30	42,42,42,42	0
56	MG	2A	3728	1/1	0.88	0.28	66,66,66,66	0
56	MG	1A	3039	1/1	0.88	0.46	29,29,29,29	0
56	MG	1A	3677	1/1	0.88	0.16	18,18,18,18	0
56	MG	2A	3096	1/1	0.88	0.11	38,38,38,38	0
56	MG	2A	3098	1/1	0.88	0.12	43,43,43,43	0
56	MG	1A	3354	1/1	0.88	0.19	29,29,29,29	0
56	MG	1A	4014	1/1	0.88	0.15	21,21,21,21	0
56	MG	2A	3406	1/1	0.88	0.08	37,37,37,37	0
56	MG	1A	3206	1/1	0.88	0.24	16,16,16,16	0
56	MG	2a	1655	1/1	0.88	0.10	58,58,58,58	0
56	MG	1A	3861	1/1	0.88	0.16	29,29,29,29	0
56	MG	1A	3863	1/1	0.88	0.11	20,20,20,20	0
56	MG	2A	3768	1/1	0.88	0.37	60,60,60,60	0
56	MG	2A	3435	1/1	0.88	0.24	51,51,51,51	0
56	MG	2A	3144	1/1	0.88	0.08	43,43,43,43	0
56	MG	1A	3107	1/1	0.88	0.19	40,40,40,40	0
56	MG	2a	1678	1/1	0.88	0.10	57,57,57,57	0
56	MG	1A	4070	1/1	0.88	0.17	43,43,43,43	0
56	MG	2A	3468	1/1	0.88	0.75	45,45,45,45	0
56	MG	1a	3166	1/1	0.88	0.13	53,53,53,53	0
56	MG	1A	3534	1/1	0.88	0.51	50,50,50,50	0
56	MG	2A	3478	1/1	0.88	0.17	59,59,59,59	0
56	MG	2a	1701	1/1	0.88	0.16	64,64,64,64	0
56	MG	1A	3879	1/1	0.88	0.10	16,16,16,16	0
56	MG	2A	3482	1/1	0.88	0.10	40,40,40,40	0
56	MG	2A	3173	1/1	0.88	0.13	33,33,33,33	0
56	MG	2A	3487	1/1	0.88	0.16	49,49,49,49	0
56	MG	2A	3174	1/1	0.88	0.13	47,47,47,47	0
56	MG	1A	3111	1/1	0.88	0.13	28,28,28,28	0
56	MG	2A	3182	1/1	0.88	0.18	40,40,40,40	0
56	MG	1A	3889	1/1	0.88	0.11	35,35,35,35	0
56	MG	2A	3792	1/1	0.88	0.25	52,52,52,52	0
56	MG	2A	3193	1/1	0.88	0.16	40,40,40,40	0
56	MG	2a	1734	1/1	0.88	0.12	63,63,63,63	0
56	MG	1B	207	1/1	0.88	0.13	29,29,29,29	0
56	MG	1A	3448	1/1	0.88	0.39	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3453	1/1	0.88	0.15	54,54,54,54	0
56	MG	1A	3909	1/1	0.88	0.13	19,19,19,19	0
56	MG	1A	3145	1/1	0.88	0.41	40,40,40,40	0
56	MG	1F	305	1/1	0.88	0.22	35,35,35,35	0
56	MG	2A	3218	1/1	0.88	0.12	52,52,52,52	0
56	MG	1A	3471	1/1	0.88	0.20	50,50,50,50	0
56	MG	1A	3184	1/1	0.88	0.05	46,46,46,46	0
56	MG	2A	3227	1/1	0.88	0.26	36,36,36,36	0
56	MG	1a	3213	1/1	0.88	0.09	66,66,66,66	0
56	MG	2A	3240	1/1	0.88	0.20	40,40,40,40	0
56	MG	1A	3273	1/1	0.88	0.16	28,28,28,28	0
56	MG	1Q	205	1/1	0.88	0.41	44,44,44,44	0
56	MG	1V	201	1/1	0.88	0.33	17,17,17,17	0
56	MG	2A	3260	1/1	0.88	0.19	37,37,37,37	0
56	MG	1V	202	1/1	0.88	0.42	24,24,24,24	0
56	MG	1A	3771	1/1	0.88	0.17	30,30,30,30	0
56	MG	10	102	1/1	0.88	0.17	38,38,38,38	0
56	MG	1l	201	1/1	0.88	0.14	22,22,22,22	0
56	MG	2a	1817	1/1	0.88	0.15	38,38,38,38	0
56	MG	1A	3480	1/1	0.88	0.16	49,49,49,49	0
56	MG	1w	101	1/1	0.88	0.11	49,49,49,49	0
56	MG	1A	3935	1/1	0.88	0.13	34,34,34,34	0
56	MG	1A	3032	1/1	0.88	0.22	44,44,44,44	0
56	MG	1A	3787	1/1	0.88	0.13	36,36,36,36	0
56	MG	2A	3290	1/1	0.88	0.17	39,39,39,39	0
56	MG	1a	3033	1/1	0.88	0.17	52,52,52,52	0
56	MG	2A	3858	1/1	0.88	0.23	43,43,43,43	0
56	MG	1A	3946	1/1	0.88	0.12	35,35,35,35	0
56	MG	1A	3355	1/1	0.89	0.15	42,42,42,42	0
56	MG	1B	213	1/1	0.89	0.08	57,57,57,57	0
56	MG	1A	3729	1/1	0.89	0.26	39,39,39,39	0
56	MG	2A	3121	1/1	0.89	0.20	49,49,49,49	0
56	MG	2A	3684	1/1	0.89	0.06	64,64,64,64	0
56	MG	2Q	202	1/1	0.89	0.36	39,39,39,39	0
56	MG	2A	3686	1/1	0.89	0.15	41,41,41,41	0
56	MG	1A	3592	1/1	0.89	0.28	33,33,33,33	0
56	MG	2A	3697	1/1	0.89	0.11	53,53,53,53	0
56	MG	1A	3298	1/1	0.89	0.11	32,32,32,32	0
56	MG	2A	3386	1/1	0.89	0.16	41,41,41,41	0
56	MG	1a	3176	1/1	0.89	0.10	45,45,45,45	0
56	MG	1A	3596	1/1	0.89	0.37	43,43,43,43	0
56	MG	1a	3178	1/1	0.89	0.14	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1E	302	1/1	0.89	0.41	30,30,30,30	0
56	MG	1A	3775	1/1	0.89	0.26	10,10,10,10	0
56	MG	2A	3724	1/1	0.89	0.15	45,45,45,45	0
56	MG	1A	3386	1/1	0.89	0.17	38,38,38,38	0
56	MG	2a	1614	1/1	0.89	0.08	53,53,53,53	0
56	MG	1A	3927	1/1	0.89	0.10	54,54,54,54	0
56	MG	1A	3307	1/1	0.89	0.14	41,41,41,41	0
56	MG	2A	3180	1/1	0.89	0.31	48,48,48,48	0
56	MG	1a	3196	1/1	0.89	0.07	38,38,38,38	0
56	MG	1P	206	1/1	0.89	0.13	17,17,17,17	0
56	MG	2A	3192	1/1	0.89	0.15	38,38,38,38	0
56	MG	2A	3445	1/1	0.89	0.68	57,57,57,57	0
56	MG	1a	3203	1/1	0.89	0.13	32,32,32,32	0
56	MG	1A	3791	1/1	0.89	0.16	25,25,25,25	0
56	MG	2A	3199	1/1	0.89	0.14	27,27,27,27	0
56	MG	1A	3038	1/1	0.89	0.13	27,27,27,27	0
56	MG	2A	3472	1/1	0.89	0.72	64,64,64,64	0
56	MG	1A	3392	1/1	0.89	0.22	24,24,24,24	0
56	MG	1W	203	1/1	0.89	0.15	36,36,36,36	0
56	MG	1A	3949	1/1	0.89	0.13	40,40,40,40	0
56	MG	2A	3213	1/1	0.89	0.30	38,38,38,38	0
56	MG	1A	3474	1/1	0.89	0.11	38,38,38,38	0
56	MG	1l	101	1/1	0.89	0.09	39,39,39,39	0
56	MG	2a	1672	1/1	0.89	0.27	43,43,43,43	0
56	MG	15	101	1/1	0.89	0.28	34,34,34,34	0
56	MG	1A	3395	1/1	0.89	0.16	32,32,32,32	0
56	MG	1A	3645	1/1	0.89	0.15	19,19,19,19	0
56	MG	1A	3653	1/1	0.89	0.12	19,19,19,19	0
56	MG	1A	3314	1/1	0.89	0.12	39,39,39,39	0
56	MG	1r	101	1/1	0.89	0.10	48,48,48,48	0
56	MG	2a	1696	1/1	0.89	0.14	33,33,33,33	0
56	MG	1A	3970	1/1	0.89	0.12	19,19,19,19	0
56	MG	2A	3250	1/1	0.89	0.18	46,46,46,46	0
56	MG	1a	3053	1/1	0.89	0.10	62,62,62,62	0
56	MG	1A	3244	1/1	0.89	0.13	38,38,38,38	0
56	MG	1x	105	1/1	0.89	0.10	60,60,60,60	0
56	MG	1A	3830	1/1	0.89	0.09	28,28,28,28	0
56	MG	1x	110	1/1	0.89	0.10	43,43,43,43	0
56	MG	2a	1716	1/1	0.89	0.14	44,44,44,44	0
56	MG	2a	1719	1/1	0.89	0.10	49,49,49,49	0
56	MG	1A	3664	1/1	0.89	0.17	20,20,20,20	0
56	MG	1A	3257	1/1	0.89	0.14	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3170	1/1	0.89	0.12	30,30,30,30	0
56	MG	2A	3279	1/1	0.89	0.14	32,32,32,32	0
56	MG	1A	3498	1/1	0.89	0.17	57,57,57,57	0
56	MG	1A	3847	1/1	0.89	0.10	38,38,38,38	0
56	MG	1a	3085	1/1	0.89	0.10	41,41,41,41	0
56	MG	2A	3810	1/1	0.89	0.23	49,49,49,49	0
56	MG	1A	3189	1/1	0.89	0.14	18,18,18,18	0
56	MG	2A	3291	1/1	0.89	0.08	32,32,32,32	0
56	MG	1a	3093	1/1	0.89	0.23	40,40,40,40	0
56	MG	1A	3425	1/1	0.89	0.16	43,43,43,43	0
56	MG	1A	3049	1/1	0.89	0.11	17,17,17,17	0
56	MG	2a	1755	1/1	0.89	0.10	40,40,40,40	0
56	MG	2A	3305	1/1	0.89	0.11	44,44,44,44	0
56	MG	2A	3823	1/1	0.89	0.16	38,38,38,38	0
56	MG	1a	3100	1/1	0.89	0.12	42,42,42,42	0
56	MG	1A	3514	1/1	0.89	0.14	15,15,15,15	0
56	MG	2a	1765	1/1	0.89	0.10	45,45,45,45	0
56	MG	2A	3594	1/1	0.89	0.16	42,42,42,42	0
56	MG	1a	3105	1/1	0.89	0.14	51,51,51,51	0
56	MG	2A	3319	1/1	0.89	0.09	32,32,32,32	0
56	MG	1A	4030	1/1	0.89	0.08	20,20,20,20	0
56	MG	2a	1779	1/1	0.89	0.09	51,51,51,51	0
56	MG	1A	3203	1/1	0.89	0.26	17,17,17,17	0
56	MG	2A	3328	1/1	0.89	0.40	51,51,51,51	0
56	MG	1A	3178	1/1	0.89	0.10	45,45,45,45	0
56	MG	2A	3847	1/1	0.89	0.17	62,62,62,62	0
56	MG	1A	4043	1/1	0.89	0.14	30,30,30,30	0
56	MG	2A	3340	1/1	0.89	0.11	38,38,38,38	0
56	MG	2A	3072	1/1	0.89	0.19	52,52,52,52	0
56	MG	1A	3887	1/1	0.89	0.10	21,21,21,21	0
56	MG	1A	3352	1/1	0.89	0.13	28,28,28,28	0
56	MG	1A	3044	1/1	0.89	0.37	37,37,37,37	0
56	MG	1A	3222	1/1	0.89	0.13	25,25,25,25	0
56	MG	2A	3658	1/1	0.89	0.19	61,61,61,61	0
56	MG	1a	3137	1/1	0.89	0.13	43,43,43,43	0
56	MG	2x	101	1/1	0.89	0.11	55,55,55,55	0
56	MG	1A	3721	1/1	0.89	0.18	24,24,24,24	0
56	MG	1A	3903	1/1	0.89	0.21	18,18,18,18	0
58	ZN	24	501	1/1	0.89	0.07	108,108,108,108	0
56	MG	1A	3657	1/1	0.90	0.23	24,24,24,24	0
56	MG	1A	3788	1/1	0.90	0.12	27,27,27,27	0
56	MG	1y	105	1/1	0.90	0.25	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3463	1/1	0.90	0.39	25,25,25,25	0
56	MG	2A	3570	1/1	0.90	0.17	56,56,56,56	0
56	MG	2A	3845	1/1	0.90	0.10	49,49,49,49	0
56	MG	2A	3015	1/1	0.90	0.34	30,30,30,30	0
56	MG	2A	3574	1/1	0.90	0.09	36,36,36,36	0
56	MG	1A	4044	1/1	0.90	0.17	29,29,29,29	0
56	MG	1A	3235	1/1	0.90	0.12	47,47,47,47	0
56	MG	1A	4064	1/1	0.90	0.24	36,36,36,36	0
56	MG	1A	3559	1/1	0.90	0.20	42,42,42,42	0
56	MG	2A	3306	1/1	0.90	0.09	35,35,35,35	0
56	MG	1A	3914	1/1	0.90	0.19	44,44,44,44	0
56	MG	2A	3874	1/1	0.90	0.09	53,53,53,53	0
56	MG	2A	3598	1/1	0.90	0.07	47,47,47,47	0
56	MG	1A	3313	1/1	0.90	0.14	31,31,31,31	0
56	MG	2B	212	1/1	0.90	0.09	68,68,68,68	0
56	MG	2A	3313	1/1	0.90	0.26	52,52,52,52	0
56	MG	2A	3611	1/1	0.90	0.09	27,27,27,27	0
56	MG	1A	3919	1/1	0.90	0.12	38,38,38,38	0
56	MG	2D	306	1/1	0.90	0.12	35,35,35,35	0
56	MG	1A	3808	1/1	0.90	0.09	28,28,28,28	0
56	MG	2E	305	1/1	0.90	0.10	36,36,36,36	0
56	MG	2A	3619	1/1	0.90	0.08	46,46,46,46	0
56	MG	2F	303	1/1	0.90	0.24	30,30,30,30	0
56	MG	2A	3623	1/1	0.90	0.15	44,44,44,44	0
56	MG	2A	3626	1/1	0.90	0.13	51,51,51,51	0
56	MG	1a	3112	1/1	0.90	0.11	48,48,48,48	0
56	MG	1A	3017	1/1	0.90	0.14	17,17,17,17	0
56	MG	1A	3567	1/1	0.90	0.22	37,37,37,37	0
56	MG	1a	3123	1/1	0.90	0.15	53,53,53,53	0
56	MG	2A	3336	1/1	0.90	0.62	47,47,47,47	0
56	MG	1A	3932	1/1	0.90	0.12	37,37,37,37	0
56	MG	1B	220	1/1	0.90	0.15	32,32,32,32	0
56	MG	1A	3279	1/1	0.90	0.17	40,40,40,40	0
56	MG	26	102	1/1	0.90	0.31	58,58,58,58	0
56	MG	1A	3574	1/1	0.90	0.41	21,21,21,21	0
56	MG	1A	3033	1/1	0.90	0.10	21,21,21,21	0
56	MG	1A	3693	1/1	0.90	0.17	5,5,5,5	0
56	MG	2a	1609	1/1	0.90	0.16	50,50,50,50	0
56	MG	2A	3355	1/1	0.90	0.19	42,42,42,42	0
56	MG	2A	3668	1/1	0.90	0.10	38,38,38,38	0
56	MG	1a	3143	1/1	0.90	0.08	48,48,48,48	0
56	MG	2a	1615	1/1	0.90	0.20	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1616	1/1	0.90	0.16	55,55,55,55	0
56	MG	1a	3145	1/1	0.90	0.14	32,32,32,32	0
56	MG	1E	307	1/1	0.90	0.45	36,36,36,36	0
56	MG	2A	3683	1/1	0.90	0.08	53,53,53,53	0
56	MG	2a	1623	1/1	0.90	0.18	44,44,44,44	0
56	MG	2A	3107	1/1	0.90	0.41	44,44,44,44	0
56	MG	2a	1631	1/1	0.90	0.18	54,54,54,54	0
56	MG	2A	3366	1/1	0.90	0.40	39,39,39,39	0
56	MG	2A	3688	1/1	0.90	0.12	58,58,58,58	0
56	MG	2A	3368	1/1	0.90	0.15	30,30,30,30	0
56	MG	1F	304	1/1	0.90	0.26	31,31,31,31	0
56	MG	2a	1647	1/1	0.90	0.10	52,52,52,52	0
56	MG	1a	3162	1/1	0.90	0.07	30,30,30,30	0
56	MG	1A	3948	1/1	0.90	0.10	17,17,17,17	0
56	MG	1A	3377	1/1	0.90	0.11	38,38,38,38	0
56	MG	1a	3168	1/1	0.90	0.08	47,47,47,47	0
56	MG	2A	3145	1/1	0.90	0.23	42,42,42,42	0
56	MG	2A	3715	1/1	0.90	0.17	48,48,48,48	0
56	MG	2A	3383	1/1	0.90	0.12	34,34,34,34	0
56	MG	2A	3720	1/1	0.90	0.11	46,46,46,46	0
56	MG	1a	3174	1/1	0.90	0.06	48,48,48,48	0
56	MG	1A	3380	1/1	0.90	0.21	32,32,32,32	0
56	MG	1N	203	1/1	0.90	0.21	34,34,34,34	0
56	MG	2A	3729	1/1	0.90	0.46	66,66,66,66	0
56	MG	2A	3733	1/1	0.90	0.68	73,73,73,73	0
56	MG	1A	3384	1/1	0.90	0.14	37,37,37,37	0
56	MG	1A	3284	1/1	0.90	0.19	16,16,16,16	0
56	MG	2A	3164	1/1	0.90	0.13	54,54,54,54	0
56	MG	2A	3170	1/1	0.90	0.08	64,64,64,64	0
56	MG	2A	3746	1/1	0.90	0.10	34,34,34,34	0
56	MG	1a	3186	1/1	0.90	0.08	66,66,66,66	0
56	MG	2A	3409	1/1	0.90	0.14	41,41,41,41	0
56	MG	2a	1703	1/1	0.90	0.12	69,69,69,69	0
56	MG	1A	3617	1/1	0.90	0.31	18,18,18,18	0
56	MG	1A	3963	1/1	0.90	0.17	36,36,36,36	0
56	MG	2a	1707	1/1	0.90	0.20	52,52,52,52	0
56	MG	2a	1708	1/1	0.90	0.09	54,54,54,54	0
56	MG	2A	3426	1/1	0.90	0.15	42,42,42,42	0
56	MG	1A	3619	1/1	0.90	0.19	25,25,25,25	0
56	MG	2A	3434	1/1	0.90	0.14	30,30,30,30	0
56	MG	2a	1713	1/1	0.90	0.13	59,59,59,59	0
56	MG	2a	1715	1/1	0.90	0.21	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1V	203	1/1	0.90	0.55	24,24,24,24	0
56	MG	1W	201	1/1	0.90	0.23	24,24,24,24	0
56	MG	2A	3186	1/1	0.90	0.19	36,36,36,36	0
56	MG	1A	3623	1/1	0.90	0.14	20,20,20,20	0
56	MG	2A	3451	1/1	0.90	0.10	37,37,37,37	0
56	MG	1A	3724	1/1	0.90	0.10	33,33,33,33	0
56	MG	2A	3467	1/1	0.90	0.11	50,50,50,50	0
56	MG	2a	1731	1/1	0.90	0.14	42,42,42,42	0
56	MG	10	101	1/1	0.90	0.30	32,32,32,32	0
56	MG	1A	3973	1/1	0.90	0.13	37,37,37,37	0
56	MG	2A	3780	1/1	0.90	0.13	48,48,48,48	0
56	MG	1A	3093	1/1	0.90	0.51	32,32,32,32	0
56	MG	2A	3782	1/1	0.90	0.07	53,53,53,53	0
56	MG	1A	3980	1/1	0.90	0.08	18,18,18,18	0
56	MG	1A	3868	1/1	0.90	0.10	30,30,30,30	0
56	MG	1A	3871	1/1	0.90	0.32	16,16,16,16	0
56	MG	19	103	1/1	0.90	0.09	42,42,42,42	0
56	MG	1A	3984	1/1	0.90	0.09	60,60,60,60	0
56	MG	1a	3011	1/1	0.90	0.14	49,49,49,49	0
56	MG	1A	3339	1/1	0.90	0.08	21,21,21,21	0
56	MG	2A	3496	1/1	0.90	0.12	28,28,28,28	0
56	MG	1b	301	1/1	0.90	0.10	52,52,52,52	0
56	MG	1A	3756	1/1	0.90	0.16	31,31,31,31	0
56	MG	2A	3230	1/1	0.90	0.26	36,36,36,36	0
56	MG	1A	3885	1/1	0.90	0.09	9,9,9,9	0
56	MG	2a	1775	1/1	0.90	0.08	49,49,49,49	0
56	MG	2a	1776	1/1	0.90	0.12	53,53,53,53	0
56	MG	1A	3269	1/1	0.90	0.18	22,22,22,22	0
56	MG	1A	3637	1/1	0.90	0.12	34,34,34,34	0
56	MG	1a	3056	1/1	0.90	0.13	45,45,45,45	0
56	MG	2A	3513	1/1	0.90	0.10	32,32,32,32	0
56	MG	2A	3249	1/1	0.90	0.26	54,54,54,54	0
56	MG	2A	3807	1/1	0.90	0.14	46,46,46,46	0
56	MG	2a	1796	1/1	0.90	0.22	48,48,48,48	0
56	MG	1w	102	1/1	0.90	0.25	48,48,48,48	0
56	MG	2a	1812	1/1	0.90	0.18	42,42,42,42	0
56	MG	1w	103	1/1	0.90	0.14	44,44,44,44	0
56	MG	2a	1827	1/1	0.90	0.11	45,45,45,45	0
56	MG	1a	3059	1/1	0.90	0.07	48,48,48,48	0
56	MG	1A	4013	1/1	0.90	0.09	40,40,40,40	0
56	MG	1A	3225	1/1	0.90	0.15	46,46,46,46	0
56	MG	2l	203	1/1	0.90	0.12	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	3070	1/1	0.90	0.21	47,47,47,47	0
56	MG	1x	107	1/1	0.90	0.12	59,59,59,59	0
56	MG	2A	3543	1/1	0.90	0.09	47,47,47,47	0
56	MG	1A	3454	1/1	0.90	0.21	31,31,31,31	0
56	MG	2A	3275	1/1	0.90	0.24	44,44,44,44	0
56	MG	1A	4026	1/1	0.90	0.13	24,24,24,24	0
56	MG	1A	3229	1/1	0.90	0.15	29,29,29,29	0
56	MG	2A	3836	1/1	0.90	0.09	33,33,33,33	0
56	MG	1A	3271	1/1	0.91	0.20	28,28,28,28	0
56	MG	2A	3844	1/1	0.91	0.11	58,58,58,58	0
56	MG	1A	3898	1/1	0.91	0.20	42,42,42,42	0
56	MG	2A	3567	1/1	0.91	0.08	35,35,35,35	0
56	MG	1a	3041	1/1	0.91	0.10	52,52,52,52	0
56	MG	1A	3502	1/1	0.91	0.23	44,44,44,44	0
56	MG	1A	3053	1/1	0.91	0.19	45,45,45,45	0
56	MG	2A	3856	1/1	0.91	0.07	45,45,45,45	0
56	MG	1A	3778	1/1	0.91	0.13	26,26,26,26	0
56	MG	1A	3635	1/1	0.91	0.10	26,26,26,26	0
56	MG	2A	3575	1/1	0.91	0.11	43,43,43,43	0
56	MG	2A	3868	1/1	0.91	0.10	32,32,32,32	0
56	MG	2A	3869	1/1	0.91	0.16	49,49,49,49	0
56	MG	1A	3115	1/1	0.91	0.36	13,13,13,13	0
56	MG	2A	3873	1/1	0.91	0.18	44,44,44,44	0
56	MG	2A	3577	1/1	0.91	0.13	41,41,41,41	0
56	MG	2B	201	1/1	0.91	0.10	57,57,57,57	0
56	MG	2A	3586	1/1	0.91	0.17	43,43,43,43	0
56	MG	1A	4055	1/1	0.91	0.09	41,41,41,41	0
56	MG	1A	4056	1/1	0.91	0.12	43,43,43,43	0
56	MG	1A	4059	1/1	0.91	0.12	30,30,30,30	0
56	MG	1a	3071	1/1	0.91	0.14	36,36,36,36	0
56	MG	2A	3292	1/1	0.91	0.16	31,31,31,31	0
56	MG	1y	102	1/1	0.91	0.17	60,60,60,60	0
56	MG	2D	307	1/1	0.91	0.10	34,34,34,34	0
56	MG	2A	3298	1/1	0.91	0.15	68,68,68,68	0
56	MG	1a	3074	1/1	0.91	0.09	55,55,55,55	0
56	MG	1A	3156	1/1	0.91	0.09	30,30,30,30	0
56	MG	1a	3078	1/1	0.91	0.08	35,35,35,35	0
56	MG	2A	3617	1/1	0.91	0.11	36,36,36,36	0
56	MG	2A	3003	1/1	0.91	0.14	41,41,41,41	0
56	MG	2A	3008	1/1	0.91	0.08	49,49,49,49	0
56	MG	2Q	205	1/1	0.91	0.50	50,50,50,50	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(\AA^2)	Q<0.9
56	MG	1A	4065	1/1	0.91	0.18	14,14,14,14	0
56	MG	2A	3631	1/1	0.91	0.16	41,41,41,41	0
56	MG	20	102	1/1	0.91	0.21	68,68,68,68	0
56	MG	1a	3081	1/1	0.91	0.14	43,43,43,43	0
56	MG	1a	3082	1/1	0.91	0.12	51,51,51,51	0
56	MG	23	101	1/1	0.91	0.30	43,43,43,43	0
56	MG	2A	3324	1/1	0.91	0.27	45,45,45,45	0
56	MG	25	103	1/1	0.91	0.14	25,25,25,25	0
56	MG	2A	3642	1/1	0.91	0.13	56,56,56,56	0
56	MG	1A	3315	1/1	0.91	0.13	42,42,42,42	0
56	MG	1A	3647	1/1	0.91	0.08	27,27,27,27	0
56	MG	1A	3516	1/1	0.91	0.13	26,26,26,26	0
56	MG	1A	3799	1/1	0.91	0.06	30,30,30,30	0
56	MG	1a	3094	1/1	0.91	0.17	29,29,29,29	0
56	MG	2A	3338	1/1	0.91	0.09	64,64,64,64	0
56	MG	1A	3800	1/1	0.91	0.11	31,31,31,31	0
56	MG	1A	3372	1/1	0.91	0.13	37,37,37,37	0
56	MG	2A	3341	1/1	0.91	0.08	52,52,52,52	0
56	MG	1B	208	1/1	0.91	0.12	44,44,44,44	0
56	MG	2A	3050	1/1	0.91	0.13	53,53,53,53	0
56	MG	1A	3933	1/1	0.91	0.20	58,58,58,58	0
56	MG	2A	3059	1/1	0.91	0.12	34,34,34,34	0
56	MG	2A	3349	1/1	0.91	0.13	43,43,43,43	0
56	MG	2a	1626	1/1	0.91	0.40	56,56,56,56	0
56	MG	2A	3353	1/1	0.91	0.28	51,51,51,51	0
56	MG	2A	3685	1/1	0.91	0.07	27,27,27,27	0
56	MG	2A	3067	1/1	0.91	0.28	36,36,36,36	0
56	MG	1A	3317	1/1	0.91	0.19	44,44,44,44	0
56	MG	1B	219	1/1	0.91	0.15	53,53,53,53	0
56	MG	2a	1641	1/1	0.91	0.11	47,47,47,47	0
56	MG	1A	3810	1/1	0.91	0.07	28,28,28,28	0
56	MG	1A	3813	1/1	0.91	0.06	24,24,24,24	0
56	MG	1a	3110	1/1	0.91	0.14	56,56,56,56	0
56	MG	1A	3660	1/1	0.91	0.14	60,60,60,60	0
56	MG	1B	226	1/1	0.91	0.08	51,51,51,51	0
56	MG	1A	3003	1/1	0.91	0.12	15,15,15,15	0
56	MG	1E	301	1/1	0.91	0.17	25,25,25,25	0
56	MG	1A	3549	1/1	0.91	0.13	21,21,21,21	0
56	MG	2A	3717	1/1	0.91	0.13	44,44,44,44	0
56	MG	1E	305	1/1	0.91	0.26	26,26,26,26	0
56	MG	1A	3553	1/1	0.91	0.19	36,36,36,36	0
56	MG	2A	3108	1/1	0.91	0.16	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3385	1/1	0.91	0.15	52,52,52,52	0
56	MG	2A	3109	1/1	0.91	0.12	36,36,36,36	0
56	MG	2a	1677	1/1	0.91	0.10	60,60,60,60	0
56	MG	1F	301	1/1	0.91	0.49	25,25,25,25	0
56	MG	1A	3382	1/1	0.91	0.14	36,36,36,36	0
56	MG	1A	3194	1/1	0.91	0.35	28,28,28,28	0
56	MG	2A	3128	1/1	0.91	0.65	44,44,44,44	0
56	MG	2a	1688	1/1	0.91	0.11	42,42,42,42	0
56	MG	1a	3142	1/1	0.91	0.10	49,49,49,49	0
56	MG	2A	3401	1/1	0.91	0.10	33,33,33,33	0
56	MG	2A	3131	1/1	0.91	0.10	58,58,58,58	0
56	MG	2A	3136	1/1	0.91	0.09	43,43,43,43	0
56	MG	1A	3095	1/1	0.91	0.11	26,26,26,26	0
56	MG	2A	3758	1/1	0.91	0.11	47,47,47,47	0
56	MG	2A	3760	1/1	0.91	0.12	35,35,35,35	0
56	MG	1F	307	1/1	0.91	0.11	23,23,23,23	0
56	MG	1A	3461	1/1	0.91	0.25	36,36,36,36	0
56	MG	1G	201	1/1	0.91	0.10	34,34,34,34	0
56	MG	1a	3155	1/1	0.91	0.11	29,29,29,29	0
56	MG	2A	3430	1/1	0.91	0.25	45,45,45,45	0
56	MG	2A	3431	1/1	0.91	0.17	37,37,37,37	0
56	MG	1a	3158	1/1	0.91	0.12	51,51,51,51	0
56	MG	2A	3772	1/1	0.91	0.09	55,55,55,55	0
56	MG	1A	3964	1/1	0.91	0.21	63,63,63,63	0
56	MG	1O	202	1/1	0.91	0.12	41,41,41,41	0
56	MG	1A	3688	1/1	0.91	0.12	19,19,19,19	0
56	MG	1P	204	1/1	0.91	0.18	18,18,18,18	0
56	MG	1A	3330	1/1	0.91	0.23	17,17,17,17	0
56	MG	1P	208	1/1	0.91	0.19	45,45,45,45	0
56	MG	1A	3573	1/1	0.91	0.10	40,40,40,40	0
56	MG	2a	1732	1/1	0.91	0.12	52,52,52,52	0
56	MG	1A	3697	1/1	0.91	0.18	36,36,36,36	0
56	MG	2a	1735	1/1	0.91	0.23	46,46,46,46	0
56	MG	1A	3081	1/1	0.91	0.15	40,40,40,40	0
56	MG	2A	3185	1/1	0.91	0.27	41,41,41,41	0
56	MG	1A	3334	1/1	0.91	0.11	35,35,35,35	0
56	MG	2a	1739	1/1	0.91	0.10	48,48,48,48	0
56	MG	2a	1741	1/1	0.91	0.12	55,55,55,55	0
56	MG	2a	1745	1/1	0.91	0.12	62,62,62,62	0
56	MG	1A	3335	1/1	0.91	0.17	23,23,23,23	0
56	MG	1A	3052	1/1	0.91	0.14	48,48,48,48	0
56	MG	2A	3481	1/1	0.91	0.12	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1Z	301	1/1	0.91	0.22	32,32,32,32	0
56	MG	2A	3791	1/1	0.91	0.18	46,46,46,46	0
56	MG	1A	3295	1/1	0.91	0.14	30,30,30,30	0
56	MG	1A	3875	1/1	0.91	0.19	33,33,33,33	0
56	MG	2a	1761	1/1	0.91	0.04	68,68,68,68	0
56	MG	2A	3204	1/1	0.91	0.12	39,39,39,39	0
56	MG	2A	3495	1/1	0.91	0.13	55,55,55,55	0
56	MG	1A	3994	1/1	0.91	0.07	50,50,50,50	0
56	MG	10	103	1/1	0.91	0.18	32,32,32,32	0
56	MG	1A	3142	1/1	0.91	0.11	44,44,44,44	0
56	MG	2A	3500	1/1	0.91	0.16	53,53,53,53	0
56	MG	1A	3609	1/1	0.91	0.40	54,54,54,54	0
56	MG	2A	3803	1/1	0.91	0.15	54,54,54,54	0
56	MG	15	106	1/1	0.91	0.38	30,30,30,30	0
56	MG	17	103	1/1	0.91	0.25	28,28,28,28	0
56	MG	2a	1782	1/1	0.91	0.08	40,40,40,40	0
56	MG	1A	3610	1/1	0.91	0.13	27,27,27,27	0
56	MG	1A	3413	1/1	0.91	0.14	21,21,21,21	0
56	MG	1A	3301	1/1	0.91	0.15	38,38,38,38	0
56	MG	2a	1789	1/1	0.91	0.13	54,54,54,54	0
56	MG	2a	1792	1/1	0.91	0.22	66,66,66,66	0
56	MG	2a	1793	1/1	0.91	0.23	55,55,55,55	0
56	MG	2A	3816	1/1	0.91	0.12	40,40,40,40	0
56	MG	2A	3228	1/1	0.91	0.80	42,42,42,42	0
56	MG	2a	1802	1/1	0.91	0.14	40,40,40,40	0
56	MG	2a	1806	1/1	0.91	0.11	63,63,63,63	0
56	MG	1A	3620	1/1	0.91	0.23	29,29,29,29	0
56	MG	2a	1808	1/1	0.91	0.21	52,52,52,52	0
56	MG	2A	3233	1/1	0.91	0.20	47,47,47,47	0
56	MG	1a	3220	1/1	0.91	0.10	46,46,46,46	0
56	MG	2a	1825	1/1	0.91	0.10	58,58,58,58	0
56	MG	2A	3532	1/1	0.91	0.06	31,31,31,31	0
56	MG	1a	3006	1/1	0.91	0.10	29,29,29,29	0
56	MG	1a	3010	1/1	0.91	0.13	58,58,58,58	0
56	MG	1a	3228	1/1	0.91	0.10	51,51,51,51	0
56	MG	1A	3351	1/1	0.91	0.37	25,25,25,25	0
56	MG	2A	3830	1/1	0.91	0.13	58,58,58,58	0
56	MG	1a	3014	1/1	0.91	0.10	48,48,48,48	0
56	MG	2A	3834	1/1	0.91	0.08	24,24,24,24	0
56	MG	2A	3546	1/1	0.91	0.11	22,22,22,22	0
56	MG	1e	202	1/1	0.91	0.18	45,45,45,45	0
56	MG	2A	3258	1/1	0.91	0.55	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	3024	1/1	0.91	0.25	50,50,50,50	0
58	ZN	2Y	501	1/1	0.91	0.13	83,83,83,83	0
56	MG	1a	3029	1/1	0.91	0.14	33,33,33,33	0
56	MG	16	101	1/1	0.92	0.23	35,35,35,35	0
56	MG	1A	3491	1/1	0.92	0.17	24,24,24,24	0
56	MG	2A	3866	1/1	0.92	0.17	37,37,37,37	0
56	MG	1A	3632	1/1	0.92	0.14	38,38,38,38	0
56	MG	1A	3985	1/1	0.92	0.10	39,39,39,39	0
56	MG	19	102	1/1	0.92	0.18	33,33,33,33	0
56	MG	1A	3493	1/1	0.92	0.36	55,55,55,55	0
56	MG	1n	101	1/1	0.92	0.08	52,52,52,52	0
56	MG	1a	3002	1/1	0.92	0.12	42,42,42,42	0
56	MG	2A	3278	1/1	0.92	0.12	26,26,26,26	0
56	MG	1t	201	1/1	0.92	0.09	40,40,40,40	0
56	MG	2A	3284	1/1	0.92	0.16	29,29,29,29	0
56	MG	2A	3595	1/1	0.92	0.07	34,34,34,34	0
56	MG	1A	3318	1/1	0.92	0.15	45,45,45,45	0
56	MG	2B	218	1/1	0.92	0.12	61,61,61,61	0
56	MG	2A	3286	1/1	0.92	0.28	46,46,46,46	0
56	MG	1A	3825	1/1	0.92	0.07	30,30,30,30	0
56	MG	1a	3009	1/1	0.92	0.08	48,48,48,48	0
56	MG	2A	3604	1/1	0.92	0.09	33,33,33,33	0
56	MG	2E	303	1/1	0.92	0.09	15,15,15,15	0
56	MG	2A	3606	1/1	0.92	0.15	45,45,45,45	0
56	MG	2E	306	1/1	0.92	0.24	40,40,40,40	0
56	MG	2A	3607	1/1	0.92	0.20	32,32,32,32	0
56	MG	2F	302	1/1	0.92	0.33	53,53,53,53	0
56	MG	1A	3193	1/1	0.92	0.16	24,24,24,24	0
56	MG	2F	305	1/1	0.92	0.10	46,46,46,46	0
56	MG	1A	3323	1/1	0.92	0.18	45,45,45,45	0
56	MG	1x	104	1/1	0.92	0.11	67,67,67,67	0
56	MG	2Q	201	1/1	0.92	0.10	33,33,33,33	0
56	MG	1A	4008	1/1	0.92	0.11	37,37,37,37	0
56	MG	1A	3117	1/1	0.92	0.75	38,38,38,38	0
56	MG	1A	4012	1/1	0.92	0.24	42,42,42,42	0
56	MG	2A	3622	1/1	0.92	0.09	37,37,37,37	0
56	MG	1A	3499	1/1	0.92	0.10	50,50,50,50	0
56	MG	20	101	1/1	0.92	0.11	50,50,50,50	0
56	MG	1A	3500	1/1	0.92	0.31	27,27,27,27	0
56	MG	2A	3629	1/1	0.92	0.14	36,36,36,36	0
56	MG	2A	3630	1/1	0.92	0.36	37,37,37,37	0
56	MG	1a	3038	1/1	0.92	0.11	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3837	1/1	0.92	0.14	27,27,27,27	0
56	MG	1a	3047	1/1	0.92	0.17	39,39,39,39	0
56	MG	1a	3049	1/1	0.92	0.09	47,47,47,47	0
56	MG	1a	3051	1/1	0.92	0.14	44,44,44,44	0
56	MG	28	101	1/1	0.92	0.12	58,58,58,58	0
56	MG	2A	3318	1/1	0.92	0.27	45,45,45,45	0
56	MG	1A	3122	1/1	0.92	0.30	14,14,14,14	0
56	MG	1A	4027	1/1	0.92	0.10	48,48,48,48	0
56	MG	1A	3503	1/1	0.92	0.16	21,21,21,21	0
56	MG	2A	3657	1/1	0.92	0.06	38,38,38,38	0
56	MG	2a	1611	1/1	0.92	0.32	51,51,51,51	0
56	MG	1A	3401	1/1	0.92	0.27	38,38,38,38	0
56	MG	1A	3851	1/1	0.92	0.44	36,36,36,36	0
56	MG	2A	3016	1/1	0.92	0.12	43,43,43,43	0
56	MG	1A	3507	1/1	0.92	0.12	35,35,35,35	0
56	MG	1A	3666	1/1	0.92	0.13	39,39,39,39	0
56	MG	2A	3022	1/1	0.92	0.23	49,49,49,49	0
56	MG	1A	4045	1/1	0.92	0.16	35,35,35,35	0
56	MG	2a	1621	1/1	0.92	0.18	65,65,65,65	0
56	MG	2A	3674	1/1	0.92	0.05	53,53,53,53	0
56	MG	1A	3202	1/1	0.92	0.23	26,26,26,26	0
56	MG	2A	3342	1/1	0.92	0.18	55,55,55,55	0
56	MG	2A	3680	1/1	0.92	0.15	50,50,50,50	0
56	MG	1A	4052	1/1	0.92	0.21	55,55,55,55	0
56	MG	2a	1634	1/1	0.92	0.09	50,50,50,50	0
56	MG	1A	3162	1/1	0.92	0.15	18,18,18,18	0
56	MG	1A	3510	1/1	0.92	0.29	26,26,26,26	0
56	MG	2A	3043	1/1	0.92	0.18	35,35,35,35	0
56	MG	1A	3680	1/1	0.92	0.11	18,18,18,18	0
56	MG	2A	3692	1/1	0.92	0.14	29,29,29,29	0
56	MG	1A	3102	1/1	0.92	0.16	18,18,18,18	0
56	MG	1A	3214	1/1	0.92	0.13	32,32,32,32	0
56	MG	2a	1650	1/1	0.92	0.37	63,63,63,63	0
56	MG	2a	1651	1/1	0.92	0.11	43,43,43,43	0
56	MG	2A	3053	1/1	0.92	0.13	53,53,53,53	0
56	MG	2A	3357	1/1	0.92	0.13	43,43,43,43	0
56	MG	2A	3057	1/1	0.92	0.14	29,29,29,29	0
56	MG	2A	3702	1/1	0.92	0.10	29,29,29,29	0
56	MG	1A	3687	1/1	0.92	0.10	21,21,21,21	0
56	MG	1A	3884	1/1	0.92	0.11	15,15,15,15	0
56	MG	2A	3711	1/1	0.92	0.18	51,51,51,51	0
56	MG	2A	3062	1/1	0.92	0.09	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3008	1/1	0.92	0.18	16,16,16,16	0
56	MG	1A	3529	1/1	0.92	0.41	27,27,27,27	0
56	MG	1A	3691	1/1	0.92	0.14	16,16,16,16	0
56	MG	1B	204	1/1	0.92	0.20	30,30,30,30	0
56	MG	1A	3530	1/1	0.92	0.15	33,33,33,33	0
56	MG	1a	3099	1/1	0.92	0.08	39,39,39,39	0
56	MG	1A	3342	1/1	0.92	0.24	19,19,19,19	0
56	MG	2A	3731	1/1	0.92	0.21	45,45,45,45	0
56	MG	2A	3091	1/1	0.92	0.21	36,36,36,36	0
56	MG	1B	211	1/1	0.92	0.25	54,54,54,54	0
56	MG	1A	3703	1/1	0.92	0.11	38,38,38,38	0
56	MG	2a	1699	1/1	0.92	0.23	54,54,54,54	0
56	MG	1A	3897	1/1	0.92	0.12	55,55,55,55	0
56	MG	2A	3389	1/1	0.92	0.24	38,38,38,38	0
56	MG	1B	218	1/1	0.92	0.10	21,21,21,21	0
56	MG	1A	3537	1/1	0.92	0.16	31,31,31,31	0
56	MG	2A	3393	1/1	0.92	0.20	42,42,42,42	0
56	MG	2A	3394	1/1	0.92	0.31	50,50,50,50	0
56	MG	2A	3105	1/1	0.92	0.15	50,50,50,50	0
56	MG	1A	3031	1/1	0.92	0.35	20,20,20,20	0
56	MG	1A	3904	1/1	0.92	0.35	19,19,19,19	0
56	MG	2a	1712	1/1	0.92	0.14	48,48,48,48	0
56	MG	2A	3404	1/1	0.92	0.26	44,44,44,44	0
56	MG	1A	3541	1/1	0.92	0.14	14,14,14,14	0
56	MG	1A	3224	1/1	0.92	0.14	23,23,23,23	0
56	MG	2a	1717	1/1	0.92	0.14	52,52,52,52	0
56	MG	1A	3023	1/1	0.92	0.12	13,13,13,13	0
56	MG	1a	3125	1/1	0.92	0.14	35,35,35,35	0
56	MG	2A	3416	1/1	0.92	0.14	45,45,45,45	0
56	MG	1a	3126	1/1	0.92	0.14	39,39,39,39	0
56	MG	1D	301	1/1	0.92	0.17	19,19,19,19	0
56	MG	1D	306	1/1	0.92	0.10	22,22,22,22	0
56	MG	1D	312	1/1	0.92	0.20	36,36,36,36	0
56	MG	2A	3143	1/1	0.92	0.16	33,33,33,33	0
56	MG	2a	1733	1/1	0.92	0.06	66,66,66,66	0
56	MG	1a	3134	1/1	0.92	0.29	45,45,45,45	0
56	MG	1A	3558	1/1	0.92	0.33	21,21,21,21	0
56	MG	2A	3438	1/1	0.92	0.11	32,32,32,32	0
56	MG	1A	3715	1/1	0.92	0.09	34,34,34,34	0
56	MG	2A	3150	1/1	0.92	0.10	47,47,47,47	0
56	MG	1E	304	1/1	0.92	0.25	25,25,25,25	0
56	MG	1A	3293	1/1	0.92	0.13	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1E	306	1/1	0.92	0.24	22,22,22,22	0
56	MG	1A	3026	1/1	0.92	0.45	17,17,17,17	0
56	MG	1A	3922	1/1	0.92	0.07	24,24,24,24	0
56	MG	2a	1751	1/1	0.92	0.07	72,72,72,72	0
56	MG	1F	302	1/1	0.92	0.38	22,22,22,22	0
56	MG	2A	3790	1/1	0.92	0.16	48,48,48,48	0
56	MG	1A	3297	1/1	0.92	0.21	28,28,28,28	0
56	MG	1A	3152	1/1	0.92	0.09	18,18,18,18	0
56	MG	1A	3452	1/1	0.92	0.14	22,22,22,22	0
56	MG	1a	3163	1/1	0.92	0.10	33,33,33,33	0
56	MG	1A	3757	1/1	0.92	0.18	9,9,9,9	0
56	MG	1A	3760	1/1	0.92	0.12	14,14,14,14	0
56	MG	1A	3761	1/1	0.92	0.23	39,39,39,39	0
56	MG	1a	3173	1/1	0.92	0.10	44,44,44,44	0
56	MG	1A	3300	1/1	0.92	0.12	28,28,28,28	0
56	MG	1A	3360	1/1	0.92	0.30	27,27,27,27	0
56	MG	2A	3194	1/1	0.92	0.16	38,38,38,38	0
56	MG	1A	3580	1/1	0.92	0.11	40,40,40,40	0
56	MG	1A	3456	1/1	0.92	0.20	40,40,40,40	0
56	MG	1A	3362	1/1	0.92	0.15	28,28,28,28	0
56	MG	2a	1781	1/1	0.92	0.34	41,41,41,41	0
56	MG	2A	3808	1/1	0.92	0.10	55,55,55,55	0
56	MG	1A	3952	1/1	0.92	0.10	19,19,19,19	0
56	MG	2A	3205	1/1	0.92	0.10	33,33,33,33	0
56	MG	1A	3236	1/1	0.92	0.14	28,28,28,28	0
56	MG	1Q	206	1/1	0.92	0.14	26,26,26,26	0
56	MG	1Q	208	1/1	0.92	0.15	15,15,15,15	0
56	MG	1A	3369	1/1	0.92	0.14	37,37,37,37	0
56	MG	2A	3517	1/1	0.92	0.08	37,37,37,37	0
56	MG	1A	3470	1/1	0.92	0.12	36,36,36,36	0
56	MG	2a	1799	1/1	0.92	0.21	45,45,45,45	0
56	MG	2a	1800	1/1	0.92	0.08	56,56,56,56	0
56	MG	1A	3185	1/1	0.92	0.10	39,39,39,39	0
56	MG	1A	3154	1/1	0.92	0.22	25,25,25,25	0
56	MG	1A	3797	1/1	0.92	0.07	19,19,19,19	0
56	MG	2A	3223	1/1	0.92	0.13	41,41,41,41	0
56	MG	1X	102	1/1	0.92	0.13	29,29,29,29	0
56	MG	1A	3251	1/1	0.92	0.09	32,32,32,32	0
56	MG	1A	3968	1/1	0.92	0.14	20,20,20,20	0
56	MG	1A	3097	1/1	0.92	0.18	31,31,31,31	0
56	MG	2A	3235	1/1	0.92	0.26	31,31,31,31	0
56	MG	2A	3545	1/1	0.92	0.10	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3266	1/1	0.92	0.19	25,25,25,25	0
56	MG	2l	201	1/1	0.92	0.12	48,48,48,48	0
56	MG	1A	3806	1/1	0.92	0.13	16,16,16,16	0
56	MG	2A	3553	1/1	0.92	0.08	27,27,27,27	0
56	MG	1A	3486	1/1	0.92	0.10	24,24,24,24	0
56	MG	2q	203	1/1	0.92	0.12	41,41,41,41	0
56	MG	13	105	1/1	0.92	0.12	48,48,48,48	0
56	MG	2A	3246	1/1	0.92	0.06	54,54,54,54	0
56	MG	1a	3222	1/1	0.92	0.09	41,41,41,41	0
56	MG	2x	102	1/1	0.92	0.12	59,59,59,59	0
56	MG	2x	103	1/1	0.92	0.09	46,46,46,46	0
56	MG	2A	3563	1/1	0.92	0.19	50,50,50,50	0
56	MG	1a	3223	1/1	0.92	0.08	40,40,40,40	0
56	MG	1A	3488	1/1	0.92	0.17	44,44,44,44	0
56	MG	1A	3267	1/1	0.92	0.15	33,33,33,33	0
56	MG	1A	3130	1/1	0.93	0.08	21,21,21,21	0
56	MG	2A	3139	1/1	0.93	0.34	44,44,44,44	0
56	MG	1A	3365	1/1	0.93	0.51	28,28,28,28	0
56	MG	2A	3479	1/1	0.93	0.24	49,49,49,49	0
56	MG	1a	3130	1/1	0.93	0.13	52,52,52,52	0
56	MG	1A	3579	1/1	0.93	0.18	32,32,32,32	0
56	MG	2A	3146	1/1	0.93	0.21	29,29,29,29	0
56	MG	1A	3367	1/1	0.93	0.12	18,18,18,18	0
56	MG	2A	3148	1/1	0.93	0.33	41,41,41,41	0
56	MG	2A	3488	1/1	0.93	0.12	43,43,43,43	0
56	MG	2A	3835	1/1	0.93	0.07	51,51,51,51	0
56	MG	1A	3764	1/1	0.93	0.11	20,20,20,20	0
56	MG	1a	3135	1/1	0.93	0.21	33,33,33,33	0
56	MG	1a	3136	1/1	0.93	0.16	44,44,44,44	0
56	MG	2A	3497	1/1	0.93	0.34	72,72,72,72	0
56	MG	2A	3841	1/1	0.93	0.08	39,39,39,39	0
56	MG	1A	3765	1/1	0.93	0.13	33,33,33,33	0
56	MG	1F	303	1/1	0.93	0.55	23,23,23,23	0
56	MG	1A	3769	1/1	0.93	0.16	21,21,21,21	0
56	MG	2A	3169	1/1	0.93	0.21	35,35,35,35	0
56	MG	1A	3943	1/1	0.93	0.09	24,24,24,24	0
56	MG	2A	3504	1/1	0.93	0.18	59,59,59,59	0
56	MG	1A	3468	1/1	0.93	0.19	25,25,25,25	0
56	MG	1A	3368	1/1	0.93	0.10	18,18,18,18	0
56	MG	2A	3508	1/1	0.93	0.09	43,43,43,43	0
56	MG	2A	3510	1/1	0.93	0.17	49,49,49,49	0
56	MG	2A	3511	1/1	0.93	0.21	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3861	1/1	0.93	0.08	33,33,33,33	0
56	MG	1a	3147	1/1	0.93	0.09	54,54,54,54	0
56	MG	1a	3148	1/1	0.93	0.13	46,46,46,46	0
56	MG	1a	3149	1/1	0.93	0.07	33,33,33,33	0
56	MG	1a	3150	1/1	0.93	0.09	43,43,43,43	0
56	MG	2A	3524	1/1	0.93	0.12	31,31,31,31	0
56	MG	1F	311	1/1	0.93	0.19	29,29,29,29	0
56	MG	1F	312	1/1	0.93	0.10	28,28,28,28	0
56	MG	2A	3188	1/1	0.93	0.24	36,36,36,36	0
56	MG	2A	3189	1/1	0.93	0.11	46,46,46,46	0
56	MG	2A	3190	1/1	0.93	0.14	26,26,26,26	0
56	MG	2B	211	1/1	0.93	0.13	61,61,61,61	0
56	MG	2A	3537	1/1	0.93	0.13	27,27,27,27	0
56	MG	2B	213	1/1	0.93	0.13	35,35,35,35	0
56	MG	1a	3154	1/1	0.93	0.19	34,34,34,34	0
56	MG	1A	3255	1/1	0.93	0.19	20,20,20,20	0
56	MG	1A	3164	1/1	0.93	0.11	26,26,26,26	0
56	MG	2B	221	1/1	0.93	0.13	56,56,56,56	0
56	MG	1A	3374	1/1	0.93	0.21	40,40,40,40	0
56	MG	1A	3956	1/1	0.93	0.10	50,50,50,50	0
56	MG	1a	3164	1/1	0.93	0.08	49,49,49,49	0
56	MG	2A	3547	1/1	0.93	0.11	18,18,18,18	0
56	MG	2A	3549	1/1	0.93	0.27	58,58,58,58	0
56	MG	2E	304	1/1	0.93	0.30	57,57,57,57	0
56	MG	2A	3202	1/1	0.93	0.16	22,22,22,22	0
56	MG	2A	3203	1/1	0.93	0.32	34,34,34,34	0
56	MG	1a	3165	1/1	0.93	0.14	63,63,63,63	0
56	MG	1A	3258	1/1	0.93	0.57	39,39,39,39	0
56	MG	1A	3783	1/1	0.93	0.11	17,17,17,17	0
56	MG	1A	3478	1/1	0.93	0.27	22,22,22,22	0
56	MG	2A	3562	1/1	0.93	0.44	65,65,65,65	0
56	MG	1P	207	1/1	0.93	0.35	29,29,29,29	0
56	MG	2A	3212	1/1	0.93	0.15	38,38,38,38	0
56	MG	1A	3961	1/1	0.93	0.10	57,57,57,57	0
56	MG	2A	3216	1/1	0.93	0.13	39,39,39,39	0
56	MG	1A	3263	1/1	0.93	0.28	24,24,24,24	0
56	MG	1A	3264	1/1	0.93	0.17	26,26,26,26	0
56	MG	2V	201	1/1	0.93	0.71	44,44,44,44	0
56	MG	2X	102	1/1	0.93	0.11	45,45,45,45	0
56	MG	1A	3965	1/1	0.93	0.10	44,44,44,44	0
56	MG	1R	202	1/1	0.93	0.12	23,23,23,23	0
56	MG	1T	202	1/1	0.93	0.37	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1U	204	1/1	0.93	0.52	27,27,27,27	0
56	MG	1a	3189	1/1	0.93	0.11	60,60,60,60	0
56	MG	2A	3579	1/1	0.93	0.14	46,46,46,46	0
56	MG	2A	3581	1/1	0.93	0.12	30,30,30,30	0
56	MG	2A	3583	1/1	0.93	0.08	39,39,39,39	0
56	MG	2A	3584	1/1	0.93	0.14	44,44,44,44	0
56	MG	1a	3190	1/1	0.93	0.14	37,37,37,37	0
56	MG	27	102	1/1	0.93	0.81	51,51,51,51	0
56	MG	1U	208	1/1	0.93	0.34	25,25,25,25	0
56	MG	2a	1602	1/1	0.93	0.33	49,49,49,49	0
56	MG	1a	3192	1/1	0.93	0.08	42,42,42,42	0
56	MG	1A	3088	1/1	0.93	0.18	21,21,21,21	0
56	MG	2a	1607	1/1	0.93	0.11	31,31,31,31	0
56	MG	1A	3385	1/1	0.93	0.10	29,29,29,29	0
56	MG	2A	3241	1/1	0.93	0.20	38,38,38,38	0
56	MG	1A	3969	1/1	0.93	0.13	13,13,13,13	0
56	MG	1V	206	1/1	0.93	0.16	31,31,31,31	0
56	MG	1a	3199	1/1	0.93	0.06	45,45,45,45	0
56	MG	2A	3603	1/1	0.93	0.08	39,39,39,39	0
56	MG	1A	3134	1/1	0.93	0.31	22,22,22,22	0
56	MG	1A	3492	1/1	0.93	0.09	26,26,26,26	0
56	MG	1A	3090	1/1	0.93	0.62	28,28,28,28	0
56	MG	1a	3205	1/1	0.93	0.10	39,39,39,39	0
56	MG	1X	104	1/1	0.93	0.12	43,43,43,43	0
56	MG	1A	3801	1/1	0.93	0.16	46,46,46,46	0
56	MG	2A	3615	1/1	0.93	0.17	28,28,28,28	0
56	MG	1A	3177	1/1	0.93	0.19	21,21,21,21	0
56	MG	1A	3048	1/1	0.93	0.08	27,27,27,27	0
56	MG	1A	3496	1/1	0.93	0.13	28,28,28,28	0
56	MG	1A	3223	1/1	0.93	0.13	29,29,29,29	0
56	MG	1A	3641	1/1	0.93	0.11	18,18,18,18	0
56	MG	2a	1637	1/1	0.93	0.23	45,45,45,45	0
56	MG	2A	3624	1/1	0.93	0.29	58,58,58,58	0
56	MG	2A	3625	1/1	0.93	0.19	53,53,53,53	0
56	MG	1A	3987	1/1	0.93	0.11	16,16,16,16	0
56	MG	1A	3990	1/1	0.93	0.11	43,43,43,43	0
56	MG	1A	3991	1/1	0.93	0.15	24,24,24,24	0
56	MG	1A	3327	1/1	0.93	0.44	31,31,31,31	0
56	MG	16	104	1/1	0.93	0.20	33,33,33,33	0
56	MG	2A	3633	1/1	0.93	0.10	41,41,41,41	0
56	MG	17	101	1/1	0.93	0.15	21,21,21,21	0
56	MG	2A	3635	1/1	0.93	0.18	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3398	1/1	0.93	0.47	33,33,33,33	0
56	MG	2A	3288	1/1	0.93	0.12	51,51,51,51	0
56	MG	2a	1659	1/1	0.93	0.10	49,49,49,49	0
56	MG	1A	3045	1/1	0.93	0.25	41,41,41,41	0
56	MG	18	101	1/1	0.93	0.27	36,36,36,36	0
56	MG	2A	3645	1/1	0.93	0.12	38,38,38,38	0
56	MG	2A	3646	1/1	0.93	0.21	34,34,34,34	0
56	MG	2a	1668	1/1	0.93	0.09	48,48,48,48	0
56	MG	1A	3656	1/1	0.93	0.11	36,36,36,36	0
56	MG	1A	3331	1/1	0.93	0.32	42,42,42,42	0
56	MG	1A	3148	1/1	0.93	0.40	29,29,29,29	0
56	MG	2a	1675	1/1	0.93	0.07	55,55,55,55	0
56	MG	1A	3411	1/1	0.93	0.08	36,36,36,36	0
56	MG	2A	3660	1/1	0.93	0.27	56,56,56,56	0
56	MG	1A	3832	1/1	0.93	0.12	35,35,35,35	0
56	MG	1A	3506	1/1	0.93	0.16	43,43,43,43	0
56	MG	1a	3007	1/1	0.93	0.19	54,54,54,54	0
56	MG	1A	3277	1/1	0.93	0.17	36,36,36,36	0
56	MG	1A	4019	1/1	0.93	0.23	9,9,9,9	0
56	MG	2A	3310	1/1	0.93	0.45	24,24,24,24	0
56	MG	2a	1697	1/1	0.93	0.19	55,55,55,55	0
56	MG	2A	3671	1/1	0.93	0.09	35,35,35,35	0
56	MG	1w	106	1/1	0.93	0.13	32,32,32,32	0
56	MG	1A	3665	1/1	0.93	0.12	23,23,23,23	0
56	MG	2A	3677	1/1	0.93	0.22	36,36,36,36	0
56	MG	1A	4023	1/1	0.93	0.09	46,46,46,46	0
56	MG	1A	4024	1/1	0.93	0.17	28,28,28,28	0
56	MG	1a	3025	1/1	0.93	0.18	40,40,40,40	0
56	MG	1x	108	1/1	0.93	0.12	38,38,38,38	0
56	MG	1A	4025	1/1	0.93	0.09	42,42,42,42	0
56	MG	1A	3419	1/1	0.93	0.15	47,47,47,47	0
56	MG	1x	112	1/1	0.93	0.12	58,58,58,58	0
56	MG	2A	3689	1/1	0.93	0.14	48,48,48,48	0
56	MG	1A	3227	1/1	0.93	0.09	56,56,56,56	0
56	MG	2A	3332	1/1	0.93	0.10	59,59,59,59	0
56	MG	2A	3333	1/1	0.93	0.08	37,37,37,37	0
56	MG	1a	3034	1/1	0.93	0.13	42,42,42,42	0
56	MG	1A	3063	1/1	0.93	0.21	26,26,26,26	0
56	MG	1A	4032	1/1	0.93	0.08	43,43,43,43	0
56	MG	1a	3043	1/1	0.93	0.09	36,36,36,36	0
56	MG	2A	3001	1/1	0.93	0.15	41,41,41,41	0
56	MG	1a	3044	1/1	0.93	0.08	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	3045	1/1	0.93	0.16	48,48,48,48	0
56	MG	2A	3010	1/1	0.93	0.08	39,39,39,39	0
56	MG	1A	3084	1/1	0.93	0.08	31,31,31,31	0
56	MG	2A	3346	1/1	0.93	0.14	33,33,33,33	0
56	MG	1A	3515	1/1	0.93	0.09	38,38,38,38	0
56	MG	1A	3860	1/1	0.93	0.08	25,25,25,25	0
56	MG	1A	3101	1/1	0.93	0.32	36,36,36,36	0
56	MG	1A	3862	1/1	0.93	0.09	29,29,29,29	0
56	MG	2A	3020	1/1	0.93	0.11	44,44,44,44	0
56	MG	1A	3518	1/1	0.93	0.45	30,30,30,30	0
56	MG	1A	3428	1/1	0.93	0.31	55,55,55,55	0
56	MG	1a	3058	1/1	0.93	0.12	58,58,58,58	0
56	MG	2A	3740	1/1	0.93	0.22	55,55,55,55	0
56	MG	2A	3361	1/1	0.93	0.09	33,33,33,33	0
56	MG	1A	3527	1/1	0.93	0.20	22,22,22,22	0
56	MG	1A	3432	1/1	0.93	0.30	21,21,21,21	0
56	MG	1A	3433	1/1	0.93	0.27	22,22,22,22	0
56	MG	1a	3069	1/1	0.93	0.16	54,54,54,54	0
56	MG	2A	3039	1/1	0.93	0.09	35,35,35,35	0
56	MG	1A	3532	1/1	0.93	0.23	42,42,42,42	0
56	MG	1A	3696	1/1	0.93	0.16	24,24,24,24	0
56	MG	1A	3883	1/1	0.93	0.10	30,30,30,30	0
56	MG	2A	3761	1/1	0.93	0.10	42,42,42,42	0
56	MG	1A	3290	1/1	0.93	0.13	12,12,12,12	0
56	MG	2a	1768	1/1	0.93	0.14	48,48,48,48	0
56	MG	2A	3764	1/1	0.93	0.20	54,54,54,54	0
56	MG	2A	3381	1/1	0.93	0.21	36,36,36,36	0
56	MG	1a	3077	1/1	0.93	0.16	50,50,50,50	0
56	MG	2a	1774	1/1	0.93	0.18	65,65,65,65	0
56	MG	1A	3698	1/1	0.93	0.13	41,41,41,41	0
56	MG	1A	3535	1/1	0.93	0.15	31,31,31,31	0
56	MG	1A	3237	1/1	0.93	0.13	29,29,29,29	0
56	MG	1A	3705	1/1	0.93	0.14	15,15,15,15	0
56	MG	1A	3127	1/1	0.93	0.44	23,23,23,23	0
56	MG	1A	3294	1/1	0.93	0.18	37,37,37,37	0
56	MG	2A	3069	1/1	0.93	0.31	41,41,41,41	0
56	MG	1A	3709	1/1	0.93	0.14	31,31,31,31	0
56	MG	1a	3090	1/1	0.93	0.21	29,29,29,29	0
56	MG	1A	3444	1/1	0.93	0.17	25,25,25,25	0
56	MG	2A	3400	1/1	0.93	0.12	62,62,62,62	0
56	MG	1A	3242	1/1	0.93	0.28	13,13,13,13	0
56	MG	2A	3402	1/1	0.93	0.17	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3403	1/1	0.93	0.10	51,51,51,51	0
56	MG	2A	3086	1/1	0.93	0.11	34,34,34,34	0
56	MG	2A	3088	1/1	0.93	0.07	47,47,47,47	0
56	MG	1A	3296	1/1	0.93	0.13	16,16,16,16	0
56	MG	1A	3907	1/1	0.93	0.18	10,10,10,10	0
56	MG	2A	3093	1/1	0.93	0.08	29,29,29,29	0
56	MG	1A	3018	1/1	0.93	0.14	17,17,17,17	0
56	MG	1A	3718	1/1	0.93	0.08	22,22,22,22	0
56	MG	2a	1813	1/1	0.93	0.12	60,60,60,60	0
56	MG	2a	1816	1/1	0.93	0.20	38,38,38,38	0
56	MG	1a	3101	1/1	0.93	0.16	43,43,43,43	0
56	MG	1A	3247	1/1	0.93	0.22	19,19,19,19	0
56	MG	2A	3101	1/1	0.93	0.14	39,39,39,39	0
56	MG	1A	3250	1/1	0.93	0.29	31,31,31,31	0
56	MG	2d	301	1/1	0.93	0.08	51,51,51,51	0
56	MG	2f	201	1/1	0.93	0.14	37,37,37,37	0
56	MG	1B	228	1/1	0.93	0.10	35,35,35,35	0
56	MG	1A	3363	1/1	0.93	0.16	34,34,34,34	0
56	MG	1B	232	1/1	0.93	0.11	35,35,35,35	0
56	MG	1A	3457	1/1	0.93	0.18	24,24,24,24	0
56	MG	1A	3918	1/1	0.93	0.15	27,27,27,27	0
56	MG	1D	309	1/1	0.93	0.14	30,30,30,30	0
56	MG	2A	3450	1/1	0.93	0.08	52,52,52,52	0
56	MG	1a	3116	1/1	0.93	0.12	40,40,40,40	0
56	MG	2A	3455	1/1	0.93	0.12	63,63,63,63	0
56	MG	2w	101	1/1	0.93	0.09	50,50,50,50	0
56	MG	2A	3456	1/1	0.93	0.23	37,37,37,37	0
56	MG	2A	3123	1/1	0.93	0.07	34,34,34,34	0
56	MG	2A	3463	1/1	0.93	0.28	45,45,45,45	0
56	MG	2A	3464	1/1	0.93	0.61	41,41,41,41	0
56	MG	2y	103	1/1	0.93	0.06	41,41,41,41	0
56	MG	1A	3733	1/1	0.93	0.17	45,45,45,45	0
56	MG	1A	3741	1/1	0.93	0.09	51,51,51,51	0
56	MG	1A	3750	1/1	0.93	0.13	43,43,43,43	0
56	MG	2A	3422	1/1	0.94	0.21	43,43,43,43	0
56	MG	2A	3094	1/1	0.94	0.13	40,40,40,40	0
56	MG	2A	3798	1/1	0.94	0.09	55,55,55,55	0
56	MG	1A	3005	1/1	0.94	0.20	30,30,30,30	0
56	MG	1A	3695	1/1	0.94	0.14	16,16,16,16	0
56	MG	1A	3424	1/1	0.94	0.10	50,50,50,50	0
56	MG	1A	3268	1/1	0.94	0.11	30,30,30,30	0
56	MG	2A	3433	1/1	0.94	0.15	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3891	1/1	0.94	0.09	37,37,37,37	0
56	MG	1A	3208	1/1	0.94	0.25	19,19,19,19	0
56	MG	2A	3436	1/1	0.94	0.11	44,44,44,44	0
56	MG	1A	3427	1/1	0.94	0.16	38,38,38,38	0
56	MG	1A	3209	1/1	0.94	0.28	15,15,15,15	0
56	MG	1A	3901	1/1	0.94	0.14	32,32,32,32	0
56	MG	2A	3814	1/1	0.94	0.15	30,30,30,30	0
56	MG	2A	3815	1/1	0.94	0.15	36,36,36,36	0
56	MG	1A	3210	1/1	0.94	0.33	18,18,18,18	0
56	MG	1a	3114	1/1	0.94	0.16	34,34,34,34	0
56	MG	2A	3118	1/1	0.94	0.53	67,67,67,67	0
56	MG	1A	3211	1/1	0.94	0.22	33,33,33,33	0
56	MG	1A	3538	1/1	0.94	0.19	20,20,20,20	0
56	MG	2A	3457	1/1	0.94	0.20	24,24,24,24	0
56	MG	2A	3122	1/1	0.94	0.13	50,50,50,50	0
56	MG	2A	3824	1/1	0.94	0.10	37,37,37,37	0
56	MG	1A	3120	1/1	0.94	0.14	39,39,39,39	0
56	MG	2A	3125	1/1	0.94	0.43	44,44,44,44	0
56	MG	2A	3465	1/1	0.94	0.09	31,31,31,31	0
56	MG	1A	3092	1/1	0.94	0.22	26,26,26,26	0
56	MG	1A	3057	1/1	0.94	0.12	29,29,29,29	0
56	MG	1A	3552	1/1	0.94	0.18	23,23,23,23	0
56	MG	2A	3471	1/1	0.94	0.18	34,34,34,34	0
56	MG	2A	3133	1/1	0.94	0.14	27,27,27,27	0
56	MG	2A	3135	1/1	0.94	0.08	47,47,47,47	0
56	MG	1E	308	1/1	0.94	0.10	26,26,26,26	0
56	MG	1A	3169	1/1	0.94	0.15	13,13,13,13	0
56	MG	2A	3142	1/1	0.94	0.07	55,55,55,55	0
56	MG	1A	3716	1/1	0.94	0.14	26,26,26,26	0
56	MG	1A	3443	1/1	0.94	0.20	37,37,37,37	0
56	MG	1A	3719	1/1	0.94	0.09	50,50,50,50	0
56	MG	1A	3921	1/1	0.94	0.14	14,14,14,14	0
56	MG	1A	3280	1/1	0.94	0.19	28,28,28,28	0
56	MG	1A	3281	1/1	0.94	0.40	39,39,39,39	0
56	MG	2A	3494	1/1	0.94	0.12	42,42,42,42	0
56	MG	1A	3726	1/1	0.94	0.10	32,32,32,32	0
56	MG	2A	3855	1/1	0.94	0.11	30,30,30,30	0
56	MG	1A	3727	1/1	0.94	0.18	31,31,31,31	0
56	MG	2A	3857	1/1	0.94	0.08	46,46,46,46	0
56	MG	1A	3930	1/1	0.94	0.09	43,43,43,43	0
56	MG	2A	3859	1/1	0.94	0.07	60,60,60,60	0
56	MG	1A	3020	1/1	0.94	0.12	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3157	1/1	0.94	0.12	57,57,57,57	0
56	MG	2A	3158	1/1	0.94	0.09	39,39,39,39	0
56	MG	1a	3146	1/1	0.94	0.17	38,38,38,38	0
56	MG	2A	3163	1/1	0.94	0.16	71,71,71,71	0
56	MG	1N	201	1/1	0.94	0.43	32,32,32,32	0
56	MG	2A	3165	1/1	0.94	0.08	30,30,30,30	0
56	MG	1A	3174	1/1	0.94	0.14	30,30,30,30	0
56	MG	2A	3507	1/1	0.94	0.09	29,29,29,29	0
56	MG	1A	3287	1/1	0.94	0.16	28,28,28,28	0
56	MG	2B	205	1/1	0.94	0.07	40,40,40,40	0
56	MG	2A	3509	1/1	0.94	0.14	19,19,19,19	0
56	MG	1P	201	1/1	0.94	0.35	20,20,20,20	0
56	MG	1P	202	1/1	0.94	0.40	21,21,21,21	0
56	MG	1A	3937	1/1	0.94	0.09	58,58,58,58	0
56	MG	1A	3570	1/1	0.94	0.18	30,30,30,30	0
56	MG	1A	3359	1/1	0.94	0.38	30,30,30,30	0
56	MG	1A	3942	1/1	0.94	0.06	51,51,51,51	0
56	MG	2A	3522	1/1	0.94	0.10	51,51,51,51	0
56	MG	2A	3523	1/1	0.94	0.09	38,38,38,38	0
56	MG	1A	3752	1/1	0.94	0.10	26,26,26,26	0
56	MG	1A	3944	1/1	0.94	0.12	55,55,55,55	0
56	MG	1A	3065	1/1	0.94	0.22	26,26,26,26	0
56	MG	2A	3529	1/1	0.94	0.10	35,35,35,35	0
56	MG	1A	3361	1/1	0.94	0.07	43,43,43,43	0
56	MG	1A	3459	1/1	0.94	0.13	30,30,30,30	0
56	MG	1S	201	1/1	0.94	0.13	34,34,34,34	0
56	MG	2A	3535	1/1	0.94	0.10	55,55,55,55	0
56	MG	2A	3536	1/1	0.94	0.07	42,42,42,42	0
56	MG	1S	202	1/1	0.94	0.14	51,51,51,51	0
56	MG	1a	3170	1/1	0.94	0.07	52,52,52,52	0
56	MG	2A	3539	1/1	0.94	0.09	56,56,56,56	0
56	MG	2F	307	1/1	0.94	0.14	50,50,50,50	0
56	MG	2A	3195	1/1	0.94	0.17	38,38,38,38	0
56	MG	2A	3196	1/1	0.94	0.17	33,33,33,33	0
56	MG	2A	3542	1/1	0.94	0.11	50,50,50,50	0
56	MG	1A	3582	1/1	0.94	0.11	29,29,29,29	0
56	MG	2Q	203	1/1	0.94	0.24	44,44,44,44	0
56	MG	2Q	204	1/1	0.94	0.11	38,38,38,38	0
56	MG	2A	3544	1/1	0.94	0.09	44,44,44,44	0
56	MG	2R	201	1/1	0.94	0.12	27,27,27,27	0
56	MG	1A	3763	1/1	0.94	0.10	25,25,25,25	0
56	MG	1U	206	1/1	0.94	0.22	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2U	203	1/1	0.94	0.43	36,36,36,36	0
56	MG	1A	3583	1/1	0.94	0.18	23,23,23,23	0
56	MG	1A	3588	1/1	0.94	0.10	27,27,27,27	0
56	MG	1A	3132	1/1	0.94	0.11	35,35,35,35	0
56	MG	1a	3185	1/1	0.94	0.15	64,64,64,64	0
56	MG	1A	3231	1/1	0.94	0.16	22,22,22,22	0
56	MG	1A	3960	1/1	0.94	0.28	52,52,52,52	0
56	MG	1V	207	1/1	0.94	0.53	22,22,22,22	0
56	MG	2A	3209	1/1	0.94	0.42	38,38,38,38	0
56	MG	1V	208	1/1	0.94	0.19	42,42,42,42	0
56	MG	1A	3234	1/1	0.94	0.38	35,35,35,35	0
56	MG	2A	3215	1/1	0.94	0.10	31,31,31,31	0
56	MG	1A	3066	1/1	0.94	0.18	26,26,26,26	0
56	MG	1W	208	1/1	0.94	0.52	36,36,36,36	0
56	MG	1A	3773	1/1	0.94	0.18	30,30,30,30	0
56	MG	1A	3601	1/1	0.94	0.24	43,43,43,43	0
56	MG	1A	3015	1/1	0.94	0.18	31,31,31,31	0
56	MG	1A	3781	1/1	0.94	0.14	21,21,21,21	0
56	MG	1a	3200	1/1	0.94	0.09	53,53,53,53	0
56	MG	1A	3183	1/1	0.94	0.08	26,26,26,26	0
56	MG	1A	3138	1/1	0.94	0.09	31,31,31,31	0
56	MG	1A	3241	1/1	0.94	0.17	32,32,32,32	0
56	MG	10	105	1/1	0.94	0.13	32,32,32,32	0
56	MG	10	107	1/1	0.94	0.10	34,34,34,34	0
56	MG	2a	1613	1/1	0.94	0.08	50,50,50,50	0
56	MG	1A	3036	1/1	0.94	0.20	14,14,14,14	0
56	MG	1a	3208	1/1	0.94	0.08	34,34,34,34	0
56	MG	2A	3588	1/1	0.94	0.05	48,48,48,48	0
56	MG	1a	3209	1/1	0.94	0.15	68,68,68,68	0
56	MG	2A	3244	1/1	0.94	0.13	39,39,39,39	0
56	MG	1a	3212	1/1	0.94	0.10	34,34,34,34	0
56	MG	12	102	1/1	0.94	0.49	28,28,28,28	0
56	MG	2A	3247	1/1	0.94	0.10	32,32,32,32	0
56	MG	2a	1625	1/1	0.94	0.12	25,25,25,25	0
56	MG	13	101	1/1	0.94	0.32	36,36,36,36	0
56	MG	1A	3006	1/1	0.94	0.12	7,7,7,7	0
56	MG	2a	1628	1/1	0.94	0.23	35,35,35,35	0
56	MG	2A	3599	1/1	0.94	0.08	44,44,44,44	0
56	MG	2A	3251	1/1	0.94	0.15	48,48,48,48	0
56	MG	2A	3602	1/1	0.94	0.26	45,45,45,45	0
56	MG	2a	1636	1/1	0.94	0.18	54,54,54,54	0
56	MG	2A	3255	1/1	0.94	0.11	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	14	101	1/1	0.94	0.12	30,30,30,30	0
56	MG	1A	3793	1/1	0.94	0.09	50,50,50,50	0
56	MG	15	103	1/1	0.94	0.40	21,21,21,21	0
56	MG	2a	1644	1/1	0.94	0.16	47,47,47,47	0
56	MG	2A	3263	1/1	0.94	0.11	30,30,30,30	0
56	MG	2A	3264	1/1	0.94	0.38	38,38,38,38	0
56	MG	2A	3612	1/1	0.94	0.11	40,40,40,40	0
56	MG	15	105	1/1	0.94	0.26	13,13,13,13	0
56	MG	1A	3622	1/1	0.94	0.10	22,22,22,22	0
56	MG	1A	3379	1/1	0.94	0.09	32,32,32,32	0
56	MG	16	102	1/1	0.94	0.14	23,23,23,23	0
56	MG	2A	3271	1/1	0.94	0.10	36,36,36,36	0
56	MG	2a	1654	1/1	0.94	0.23	50,50,50,50	0
56	MG	2A	3272	1/1	0.94	0.14	35,35,35,35	0
56	MG	2a	1656	1/1	0.94	0.16	43,43,43,43	0
56	MG	1A	3483	1/1	0.94	0.28	33,33,33,33	0
56	MG	1A	3485	1/1	0.94	0.13	43,43,43,43	0
56	MG	2A	3276	1/1	0.94	0.28	43,43,43,43	0
56	MG	1A	3302	1/1	0.94	0.08	21,21,21,21	0
56	MG	1A	3989	1/1	0.94	0.06	29,29,29,29	0
56	MG	2a	1667	1/1	0.94	0.17	27,27,27,27	0
56	MG	1A	3305	1/1	0.94	0.16	19,19,19,19	0
56	MG	2A	3282	1/1	0.94	0.64	36,36,36,36	0
56	MG	2a	1670	1/1	0.94	0.09	40,40,40,40	0
56	MG	1A	3306	1/1	0.94	0.11	27,27,27,27	0
56	MG	1p	101	1/1	0.94	0.24	51,51,51,51	0
56	MG	1A	3245	1/1	0.94	0.25	22,22,22,22	0
56	MG	1A	3246	1/1	0.94	0.40	22,22,22,22	0
56	MG	2A	3637	1/1	0.94	0.13	50,50,50,50	0
56	MG	1A	3996	1/1	0.94	0.15	37,37,37,37	0
56	MG	1A	3310	1/1	0.94	0.21	19,19,19,19	0
56	MG	2a	1683	1/1	0.94	0.14	41,41,41,41	0
56	MG	2a	1684	1/1	0.94	0.18	45,45,45,45	0
56	MG	1A	3644	1/1	0.94	0.13	46,46,46,46	0
56	MG	1A	3814	1/1	0.94	0.57	26,26,26,26	0
56	MG	2a	1694	1/1	0.94	0.09	44,44,44,44	0
56	MG	1A	3815	1/1	0.94	0.13	26,26,26,26	0
56	MG	1A	4009	1/1	0.94	0.11	25,25,25,25	0
56	MG	2A	3295	1/1	0.94	0.16	54,54,54,54	0
56	MG	2A	3653	1/1	0.94	0.20	57,57,57,57	0
56	MG	2A	3655	1/1	0.94	0.30	39,39,39,39	0
56	MG	2A	3297	1/1	0.94	0.12	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1x	103	1/1	0.94	0.10	57,57,57,57	0
56	MG	2a	1704	1/1	0.94	0.16	52,52,52,52	0
56	MG	2A	3300	1/1	0.94	0.15	49,49,49,49	0
56	MG	2A	3659	1/1	0.94	0.18	57,57,57,57	0
56	MG	1A	3050	1/1	0.94	0.10	22,22,22,22	0
56	MG	1A	3820	1/1	0.94	0.22	31,31,31,31	0
56	MG	1A	3646	1/1	0.94	0.09	28,28,28,28	0
56	MG	1A	3390	1/1	0.94	0.11	25,25,25,25	0
56	MG	1A	3651	1/1	0.94	0.12	8,8,8,8	0
56	MG	2A	3309	1/1	0.94	0.26	41,41,41,41	0
56	MG	1x	109	1/1	0.94	0.21	47,47,47,47	0
56	MG	2a	1714	1/1	0.94	0.18	51,51,51,51	0
56	MG	2A	3311	1/1	0.94	0.28	34,34,34,34	0
56	MG	1A	3051	1/1	0.94	0.12	15,15,15,15	0
56	MG	1A	3654	1/1	0.94	0.07	10,10,10,10	0
56	MG	2A	3314	1/1	0.94	0.16	54,54,54,54	0
56	MG	2A	3315	1/1	0.94	0.21	45,45,45,45	0
56	MG	1A	3655	1/1	0.94	0.16	33,33,33,33	0
56	MG	2A	3681	1/1	0.94	0.07	43,43,43,43	0
56	MG	2A	3317	1/1	0.94	0.51	47,47,47,47	0
56	MG	1A	3831	1/1	0.94	0.11	22,22,22,22	0
56	MG	1a	3039	1/1	0.94	0.13	42,42,42,42	0
56	MG	1A	3113	1/1	0.94	0.07	47,47,47,47	0
56	MG	2A	3687	1/1	0.94	0.14	36,36,36,36	0
56	MG	1A	3396	1/1	0.94	0.10	21,21,21,21	0
56	MG	1A	3195	1/1	0.94	0.13	41,41,41,41	0
56	MG	1A	3199	1/1	0.94	0.12	32,32,32,32	0
56	MG	2A	3002	1/1	0.94	0.16	35,35,35,35	0
56	MG	1A	3839	1/1	0.94	0.17	29,29,29,29	0
56	MG	1a	3048	1/1	0.94	0.08	54,54,54,54	0
56	MG	2a	1740	1/1	0.94	0.07	60,60,60,60	0
56	MG	2A	3009	1/1	0.94	0.24	45,45,45,45	0
56	MG	2a	1742	1/1	0.94	0.09	60,60,60,60	0
56	MG	1A	3840	1/1	0.94	0.10	28,28,28,28	0
56	MG	1a	3050	1/1	0.94	0.09	46,46,46,46	0
56	MG	2A	3703	1/1	0.94	0.08	34,34,34,34	0
56	MG	2A	3706	1/1	0.94	0.16	34,34,34,34	0
56	MG	2A	3013	1/1	0.94	0.40	41,41,41,41	0
56	MG	1A	4039	1/1	0.94	0.11	28,28,28,28	0
56	MG	2A	3710	1/1	0.94	0.16	51,51,51,51	0
56	MG	1a	3052	1/1	0.94	0.11	40,40,40,40	0
56	MG	1A	4040	1/1	0.94	0.13	12,12,12,12	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3114	1/1	0.94	0.14	19,19,19,19	0
56	MG	1A	3843	1/1	0.94	0.12	32,32,32,32	0
56	MG	1A	3663	1/1	0.94	0.20	46,46,46,46	0
56	MG	2a	1764	1/1	0.94	0.13	46,46,46,46	0
56	MG	2A	3721	1/1	0.94	0.06	43,43,43,43	0
56	MG	2a	1766	1/1	0.94	0.16	53,53,53,53	0
56	MG	1a	3057	1/1	0.94	0.16	38,38,38,38	0
56	MG	1A	3404	1/1	0.94	0.14	18,18,18,18	0
56	MG	1A	4048	1/1	0.94	0.11	27,27,27,27	0
56	MG	2A	3030	1/1	0.94	0.29	41,41,41,41	0
56	MG	1a	3061	1/1	0.94	0.51	38,38,38,38	0
56	MG	2A	3033	1/1	0.94	0.24	39,39,39,39	0
56	MG	2A	3734	1/1	0.94	0.12	20,20,20,20	0
56	MG	1A	3850	1/1	0.94	0.11	23,23,23,23	0
56	MG	1a	3067	1/1	0.94	0.17	43,43,43,43	0
56	MG	2A	3360	1/1	0.94	0.12	49,49,49,49	0
56	MG	2A	3038	1/1	0.94	0.15	29,29,29,29	0
56	MG	2A	3362	1/1	0.94	0.12	39,39,39,39	0
56	MG	2A	3364	1/1	0.94	0.14	23,23,23,23	0
56	MG	2a	1787	1/1	0.94	0.06	59,59,59,59	0
56	MG	1A	3260	1/1	0.94	0.22	27,27,27,27	0
56	MG	2A	3041	1/1	0.94	0.61	34,34,34,34	0
56	MG	2a	1791	1/1	0.94	0.08	53,53,53,53	0
56	MG	1A	3855	1/1	0.94	0.13	10,10,10,10	0
56	MG	2A	3752	1/1	0.94	0.12	47,47,47,47	0
56	MG	2A	3756	1/1	0.94	0.47	51,51,51,51	0
56	MG	2A	3757	1/1	0.94	0.09	19,19,19,19	0
56	MG	2A	3044	1/1	0.94	0.11	44,44,44,44	0
56	MG	1A	3407	1/1	0.94	0.11	42,42,42,42	0
56	MG	2a	1801	1/1	0.94	0.09	40,40,40,40	0
56	MG	2A	3047	1/1	0.94	0.07	49,49,49,49	0
56	MG	2a	1803	1/1	0.94	0.10	55,55,55,55	0
56	MG	2a	1805	1/1	0.94	0.27	54,54,54,54	0
56	MG	2A	3048	1/1	0.94	0.10	48,48,48,48	0
56	MG	1A	3408	1/1	0.94	0.17	36,36,36,36	0
56	MG	1A	3675	1/1	0.94	0.17	44,44,44,44	0
56	MG	1A	3324	1/1	0.94	0.28	23,23,23,23	0
56	MG	2A	3382	1/1	0.94	0.19	44,44,44,44	0
56	MG	2A	3055	1/1	0.94	0.10	47,47,47,47	0
56	MG	1A	3007	1/1	0.94	0.08	16,16,16,16	0
56	MG	2a	1821	1/1	0.94	0.13	54,54,54,54	0
56	MG	2a	1822	1/1	0.94	0.13	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2a	1823	1/1	0.94	0.11	51,51,51,51	0
56	MG	1A	3866	1/1	0.94	0.13	31,31,31,31	0
56	MG	1a	3079	1/1	0.94	0.14	48,48,48,48	0
56	MG	1A	3043	1/1	0.94	0.17	13,13,13,13	0
56	MG	2A	3065	1/1	0.94	0.37	37,37,37,37	0
56	MG	1A	3681	1/1	0.94	0.15	37,37,37,37	0
56	MG	2g	201	1/1	0.94	0.09	57,57,57,57	0
56	MG	2A	3392	1/1	0.94	0.24	47,47,47,47	0
56	MG	1A	3513	1/1	0.94	0.31	23,23,23,23	0
56	MG	1a	3083	1/1	0.94	0.12	42,42,42,42	0
56	MG	1A	3873	1/1	0.94	0.27	17,17,17,17	0
56	MG	2l	205	1/1	0.94	0.07	33,33,33,33	0
56	MG	1A	3418	1/1	0.94	0.25	25,25,25,25	0
56	MG	2A	3399	1/1	0.94	0.07	40,40,40,40	0
56	MG	1B	209	1/1	0.94	0.16	43,43,43,43	0
56	MG	2t	201	1/1	0.94	0.15	29,29,29,29	0
56	MG	1A	3876	1/1	0.94	0.17	56,56,56,56	0
56	MG	2A	3785	1/1	0.94	0.10	70,70,70,70	0
56	MG	2A	3077	1/1	0.94	0.20	32,32,32,32	0
56	MG	2A	3085	1/1	0.94	0.22	37,37,37,37	0
56	MG	1A	3686	1/1	0.94	0.12	6,6,6,6	0
56	MG	1A	3204	1/1	0.94	0.26	16,16,16,16	0
56	MG	2A	3089	1/1	0.94	0.14	35,35,35,35	0
56	MG	1A	3329	1/1	0.94	0.16	39,39,39,39	0
57	ERY	1A	4074	51/51	0.94	0.27	15,23,34,44	0
56	MG	1A	3421	1/1	0.94	0.09	28,28,28,28	0
56	MG	1A	3519	1/1	0.94	0.28	20,20,20,20	0
56	MG	2A	3420	1/1	0.94	0.14	36,36,36,36	0
56	MG	2A	3557	1/1	0.95	0.14	41,41,41,41	0
56	MG	1A	3606	1/1	0.95	0.29	32,32,32,32	0
56	MG	1A	3607	1/1	0.95	0.25	31,31,31,31	0
56	MG	1A	3737	1/1	0.95	0.11	14,14,14,14	0
56	MG	1A	3896	1/1	0.95	0.17	23,23,23,23	0
56	MG	2B	202	1/1	0.95	0.11	50,50,50,50	0
56	MG	2B	203	1/1	0.95	0.06	50,50,50,50	0
56	MG	2B	204	1/1	0.95	0.09	52,52,52,52	0
56	MG	2A	3565	1/1	0.95	0.09	25,25,25,25	0
56	MG	1A	3739	1/1	0.95	0.11	21,21,21,21	0
56	MG	1x	113	1/1	0.95	0.10	42,42,42,42	0
56	MG	1A	3341	1/1	0.95	0.16	16,16,16,16	0
56	MG	1B	206	1/1	0.95	0.12	26,26,26,26	0
56	MG	1A	3108	1/1	0.95	0.19	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3611	1/1	0.95	0.19	36,36,36,36	0
56	MG	2B	215	1/1	0.95	0.17	40,40,40,40	0
56	MG	2A	3274	1/1	0.95	0.14	25,25,25,25	0
56	MG	1A	3753	1/1	0.95	0.17	23,23,23,23	0
56	MG	1B	210	1/1	0.95	0.13	39,39,39,39	0
56	MG	2D	302	1/1	0.95	0.22	39,39,39,39	0
56	MG	1A	3905	1/1	0.95	0.12	9,9,9,9	0
56	MG	1B	212	1/1	0.95	0.18	26,26,26,26	0
56	MG	1A	3755	1/1	0.95	0.09	30,30,30,30	0
56	MG	2A	3582	1/1	0.95	0.17	59,59,59,59	0
56	MG	2A	3281	1/1	0.95	0.29	33,33,33,33	0
56	MG	1a	3064	1/1	0.95	0.09	33,33,33,33	0
56	MG	1A	3135	1/1	0.95	0.16	27,27,27,27	0
56	MG	2A	3587	1/1	0.95	0.07	47,47,47,47	0
56	MG	1A	3346	1/1	0.95	0.18	24,24,24,24	0
56	MG	2E	308	1/1	0.95	0.11	38,38,38,38	0
56	MG	2F	301	1/1	0.95	0.14	34,34,34,34	0
56	MG	2A	3012	1/1	0.95	0.20	44,44,44,44	0
56	MG	2A	3592	1/1	0.95	0.09	35,35,35,35	0
56	MG	1A	3758	1/1	0.95	0.14	12,12,12,12	0
56	MG	2F	306	1/1	0.95	0.41	40,40,40,40	0
56	MG	1A	3252	1/1	0.95	0.15	32,32,32,32	0
56	MG	1A	3253	1/1	0.95	0.09	30,30,30,30	0
56	MG	1A	3086	1/1	0.95	0.30	25,25,25,25	0
56	MG	2A	3018	1/1	0.95	0.24	54,54,54,54	0
56	MG	1a	3073	1/1	0.95	0.10	65,65,65,65	0
56	MG	1B	225	1/1	0.95	0.11	33,33,33,33	0
56	MG	1A	3422	1/1	0.95	0.26	36,36,36,36	0
56	MG	1A	3504	1/1	0.95	0.18	24,24,24,24	0
56	MG	1B	229	1/1	0.95	0.08	28,28,28,28	0
56	MG	2A	3299	1/1	0.95	0.07	11,11,11,11	0
56	MG	2T	201	1/1	0.95	0.22	47,47,47,47	0
56	MG	1A	3767	1/1	0.95	0.12	19,19,19,19	0
56	MG	2U	201	1/1	0.95	0.48	38,38,38,38	0
56	MG	2A	3301	1/1	0.95	0.08	28,28,28,28	0
56	MG	2A	3027	1/1	0.95	0.12	32,32,32,32	0
56	MG	2X	101	1/1	0.95	0.90	57,57,57,57	0
56	MG	1A	3215	1/1	0.95	0.19	16,16,16,16	0
56	MG	1B	234	1/1	0.95	0.13	30,30,30,30	0
56	MG	1B	235	1/1	0.95	0.15	40,40,40,40	0
56	MG	1A	3219	1/1	0.95	0.34	28,28,28,28	0
56	MG	1A	3925	1/1	0.95	0.08	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1D	307	1/1	0.95	0.40	24,24,24,24	0
56	MG	1A	3299	1/1	0.95	0.12	6,6,6,6	0
56	MG	23	102	1/1	0.95	0.17	31,31,31,31	0
56	MG	2A	3620	1/1	0.95	0.17	48,48,48,48	0
56	MG	1a	3088	1/1	0.95	0.19	46,46,46,46	0
56	MG	2A	3042	1/1	0.95	0.14	40,40,40,40	0
56	MG	1A	3259	1/1	0.95	0.16	20,20,20,20	0
56	MG	1D	313	1/1	0.95	0.20	17,17,17,17	0
56	MG	2A	3045	1/1	0.95	0.09	52,52,52,52	0
56	MG	1A	3358	1/1	0.95	0.46	23,23,23,23	0
56	MG	1A	3012	1/1	0.95	0.12	26,26,26,26	0
56	MG	2a	1605	1/1	0.95	0.21	36,36,36,36	0
56	MG	1A	3776	1/1	0.95	0.14	13,13,13,13	0
56	MG	2A	3320	1/1	0.95	0.30	47,47,47,47	0
56	MG	1A	3934	1/1	0.95	0.11	29,29,29,29	0
56	MG	1A	3512	1/1	0.95	0.11	13,13,13,13	0
56	MG	1A	3141	1/1	0.95	0.09	15,15,15,15	0
56	MG	2A	3636	1/1	0.95	0.21	49,49,49,49	0
56	MG	2A	3054	1/1	0.95	0.17	35,35,35,35	0
56	MG	1a	3102	1/1	0.95	0.15	53,53,53,53	0
56	MG	2A	3331	1/1	0.95	0.12	28,28,28,28	0
56	MG	1a	3103	1/1	0.95	0.13	37,37,37,37	0
56	MG	1A	3304	1/1	0.95	0.13	25,25,25,25	0
56	MG	1E	309	1/1	0.95	0.19	26,26,26,26	0
56	MG	2A	3337	1/1	0.95	0.13	48,48,48,48	0
56	MG	2A	3060	1/1	0.95	0.09	24,24,24,24	0
56	MG	2A	3651	1/1	0.95	0.21	59,59,59,59	0
56	MG	2a	1622	1/1	0.95	0.06	47,47,47,47	0
56	MG	1E	310	1/1	0.95	0.14	41,41,41,41	0
56	MG	2a	1624	1/1	0.95	0.24	31,31,31,31	0
56	MG	2A	3064	1/1	0.95	0.08	30,30,30,30	0
56	MG	1A	3047	1/1	0.95	0.16	6,6,6,6	0
56	MG	1A	3143	1/1	0.95	0.12	30,30,30,30	0
56	MG	1A	3144	1/1	0.95	0.21	23,23,23,23	0
56	MG	1a	3111	1/1	0.95	0.10	37,37,37,37	0
56	MG	2A	3070	1/1	0.95	0.23	27,27,27,27	0
56	MG	2A	3662	1/1	0.95	0.14	55,55,55,55	0
56	MG	2a	1635	1/1	0.95	0.10	44,44,44,44	0
56	MG	1A	3308	1/1	0.95	0.26	24,24,24,24	0
56	MG	1A	3521	1/1	0.95	0.35	24,24,24,24	0
56	MG	1A	3524	1/1	0.95	0.08	40,40,40,40	0
56	MG	1a	3115	1/1	0.95	0.19	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3226	1/1	0.95	0.28	37,37,37,37	0
56	MG	2A	3078	1/1	0.95	0.07	39,39,39,39	0
56	MG	2A	3084	1/1	0.95	0.11	45,45,45,45	0
56	MG	2A	3672	1/1	0.95	0.08	42,42,42,42	0
56	MG	1a	3117	1/1	0.95	0.19	30,30,30,30	0
56	MG	1F	308	1/1	0.95	0.08	27,27,27,27	0
56	MG	2A	3087	1/1	0.95	0.08	60,60,60,60	0
56	MG	1F	310	1/1	0.95	0.31	15,15,15,15	0
56	MG	1A	3950	1/1	0.95	0.07	42,42,42,42	0
56	MG	1A	3658	1/1	0.95	0.11	28,28,28,28	0
56	MG	2A	3682	1/1	0.95	0.07	39,39,39,39	0
56	MG	1A	3068	1/1	0.95	0.25	22,22,22,22	0
56	MG	1a	3129	1/1	0.95	0.21	51,51,51,51	0
56	MG	1A	3955	1/1	0.95	0.06	23,23,23,23	0
56	MG	1A	3311	1/1	0.95	0.38	28,28,28,28	0
56	MG	1a	3132	1/1	0.95	0.08	27,27,27,27	0
56	MG	1N	202	1/1	0.95	0.10	27,27,27,27	0
56	MG	1A	3071	1/1	0.95	0.11	17,17,17,17	0
56	MG	1A	3802	1/1	0.95	0.12	28,28,28,28	0
56	MG	2A	3103	1/1	0.95	0.11	38,38,38,38	0
56	MG	2A	3695	1/1	0.95	0.25	39,39,39,39	0
56	MG	1A	3804	1/1	0.95	0.10	14,14,14,14	0
56	MG	1A	3805	1/1	0.95	0.17	10,10,10,10	0
56	MG	1A	3451	1/1	0.95	0.17	16,16,16,16	0
56	MG	1A	3962	1/1	0.95	0.20	38,38,38,38	0
56	MG	1A	3191	1/1	0.95	0.24	30,30,30,30	0
56	MG	2A	3110	1/1	0.95	0.35	33,33,33,33	0
56	MG	2A	3112	1/1	0.95	0.10	26,26,26,26	0
56	MG	1A	3233	1/1	0.95	0.18	27,27,27,27	0
56	MG	2A	3117	1/1	0.95	0.07	38,38,38,38	0
56	MG	1A	3059	1/1	0.95	0.09	10,10,10,10	0
56	MG	1A	3667	1/1	0.95	0.20	44,44,44,44	0
56	MG	1A	3274	1/1	0.95	0.12	24,24,24,24	0
56	MG	2a	1690	1/1	0.95	0.14	53,53,53,53	0
56	MG	2A	3395	1/1	0.95	0.46	43,43,43,43	0
56	MG	1A	3674	1/1	0.95	0.10	24,24,24,24	0
56	MG	2A	3719	1/1	0.95	0.18	29,29,29,29	0
56	MG	1A	3816	1/1	0.95	0.10	31,31,31,31	0
56	MG	2A	3398	1/1	0.95	0.13	40,40,40,40	0
56	MG	1A	3118	1/1	0.95	0.14	16,16,16,16	0
56	MG	2a	1700	1/1	0.95	0.15	56,56,56,56	0
56	MG	1A	3540	1/1	0.95	0.11	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3974	1/1	0.95	0.07	41,41,41,41	0
56	MG	1A	3320	1/1	0.95	0.08	23,23,23,23	0
56	MG	1A	3979	1/1	0.95	0.20	22,22,22,22	0
56	MG	2A	3732	1/1	0.95	0.06	31,31,31,31	0
56	MG	1A	3678	1/1	0.95	0.09	18,18,18,18	0
56	MG	1a	3160	1/1	0.95	0.15	51,51,51,51	0
56	MG	2A	3735	1/1	0.95	0.15	28,28,28,28	0
56	MG	1A	3321	1/1	0.95	0.13	34,34,34,34	0
56	MG	2A	3140	1/1	0.95	0.08	45,45,45,45	0
56	MG	2A	3141	1/1	0.95	0.38	47,47,47,47	0
56	MG	1A	3322	1/1	0.95	0.22	23,23,23,23	0
56	MG	2A	3419	1/1	0.95	0.17	38,38,38,38	0
56	MG	1A	3682	1/1	0.95	0.12	37,37,37,37	0
56	MG	2A	3747	1/1	0.95	0.10	45,45,45,45	0
56	MG	1A	3387	1/1	0.95	0.28	40,40,40,40	0
56	MG	2a	1718	1/1	0.95	0.13	39,39,39,39	0
56	MG	1A	3986	1/1	0.95	0.09	35,35,35,35	0
56	MG	1A	3557	1/1	0.95	0.14	28,28,28,28	0
56	MG	1A	3465	1/1	0.95	0.50	34,34,34,34	0
56	MG	2A	3754	1/1	0.95	0.11	48,48,48,48	0
56	MG	2A	3429	1/1	0.95	0.18	43,43,43,43	0
56	MG	2a	1725	1/1	0.95	0.08	43,43,43,43	0
56	MG	2a	1728	1/1	0.95	0.10	46,46,46,46	0
56	MG	2a	1729	1/1	0.95	0.13	46,46,46,46	0
56	MG	1W	202	1/1	0.95	0.13	18,18,18,18	0
56	MG	2A	3149	1/1	0.95	0.55	50,50,50,50	0
56	MG	1a	3171	1/1	0.95	0.14	39,39,39,39	0
56	MG	1a	3172	1/1	0.95	0.06	57,57,57,57	0
56	MG	1A	3061	1/1	0.95	0.09	5,5,5,5	0
56	MG	2A	3155	1/1	0.95	0.17	41,41,41,41	0
56	MG	1W	205	1/1	0.95	0.10	15,15,15,15	0
56	MG	1A	3079	1/1	0.95	0.15	58,58,58,58	0
56	MG	1A	3125	1/1	0.95	0.68	25,25,25,25	0
56	MG	2A	3159	1/1	0.95	0.05	42,42,42,42	0
56	MG	2A	3449	1/1	0.95	0.07	35,35,35,35	0
56	MG	1A	3391	1/1	0.95	0.12	32,32,32,32	0
56	MG	2A	3161	1/1	0.95	0.12	47,47,47,47	0
56	MG	2A	3452	1/1	0.95	0.23	43,43,43,43	0
56	MG	2a	1746	1/1	0.95	0.11	57,57,57,57	0
56	MG	1A	3098	1/1	0.95	0.19	16,16,16,16	0
56	MG	1a	3180	1/1	0.95	0.08	52,52,52,52	0
56	MG	1A	3393	1/1	0.95	0.18	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3394	1/1	0.95	0.10	31,31,31,31	0
56	MG	1A	3479	1/1	0.95	0.18	25,25,25,25	0
56	MG	1A	3576	1/1	0.95	0.15	28,28,28,28	0
56	MG	1A	3700	1/1	0.95	0.16	14,14,14,14	0
56	MG	10	106	1/1	0.95	0.17	37,37,37,37	0
56	MG	2a	1760	1/1	0.95	0.20	60,60,60,60	0
56	MG	2A	3177	1/1	0.95	0.09	37,37,37,37	0
56	MG	2A	3178	1/1	0.95	0.09	45,45,45,45	0
56	MG	1A	3701	1/1	0.95	0.13	38,38,38,38	0
56	MG	1A	3853	1/1	0.95	0.14	28,28,28,28	0
56	MG	1A	3702	1/1	0.95	0.14	14,14,14,14	0
56	MG	1A	3577	1/1	0.95	0.10	16,16,16,16	0
56	MG	2a	1767	1/1	0.95	0.07	47,47,47,47	0
56	MG	1A	4015	1/1	0.95	0.23	41,41,41,41	0
56	MG	1a	3198	1/1	0.95	0.11	44,44,44,44	0
56	MG	1A	3857	1/1	0.95	0.13	45,45,45,45	0
56	MG	2a	1771	1/1	0.95	0.07	44,44,44,44	0
56	MG	1A	4020	1/1	0.95	0.12	36,36,36,36	0
56	MG	2A	3793	1/1	0.95	0.09	46,46,46,46	0
56	MG	2A	3191	1/1	0.95	0.13	31,31,31,31	0
56	MG	1A	3578	1/1	0.95	0.13	12,12,12,12	0
56	MG	1A	3062	1/1	0.95	0.14	38,38,38,38	0
56	MG	1A	3083	1/1	0.95	0.15	42,42,42,42	0
56	MG	2a	1780	1/1	0.95	0.09	47,47,47,47	0
56	MG	1A	3707	1/1	0.95	0.12	4,4,4,4	0
56	MG	1A	3865	1/1	0.95	0.30	29,29,29,29	0
56	MG	1A	3484	1/1	0.95	0.28	34,34,34,34	0
56	MG	2A	3198	1/1	0.95	0.13	48,48,48,48	0
56	MG	1A	4028	1/1	0.95	0.13	35,35,35,35	0
56	MG	1A	3285	1/1	0.95	0.14	24,24,24,24	0
56	MG	1a	3210	1/1	0.95	0.05	61,61,61,61	0
56	MG	2a	1790	1/1	0.95	0.08	41,41,41,41	0
56	MG	17	104	1/1	0.95	0.14	26,26,26,26	0
56	MG	1A	3286	1/1	0.95	0.18	27,27,27,27	0
56	MG	1A	3589	1/1	0.95	0.09	36,36,36,36	0
56	MG	18	102	1/1	0.95	0.09	20,20,20,20	0
56	MG	2A	3811	1/1	0.95	0.10	33,33,33,33	0
56	MG	2a	1798	1/1	0.95	0.12	44,44,44,44	0
56	MG	1A	3400	1/1	0.95	0.17	21,21,21,21	0
56	MG	1A	4036	1/1	0.95	0.17	10,10,10,10	0
56	MG	1A	3874	1/1	0.95	0.11	47,47,47,47	0
56	MG	1a	3001	1/1	0.95	0.09	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3594	1/1	0.95	0.19	24,24,24,24	0
56	MG	2A	3214	1/1	0.95	0.16	34,34,34,34	0
56	MG	1A	4041	1/1	0.95	0.15	43,43,43,43	0
56	MG	1a	3005	1/1	0.95	0.14	54,54,54,54	0
56	MG	2A	3514	1/1	0.95	0.24	48,48,48,48	0
56	MG	1A	4042	1/1	0.95	0.10	31,31,31,31	0
56	MG	1A	3166	1/1	0.95	0.33	18,18,18,18	0
56	MG	1A	3004	1/1	0.95	0.09	39,39,39,39	0
56	MG	1f	201	1/1	0.95	0.16	36,36,36,36	0
56	MG	2a	1819	1/1	0.95	0.16	67,67,67,67	0
56	MG	2a	1820	1/1	0.95	0.13	52,52,52,52	0
56	MG	2A	3827	1/1	0.95	0.09	36,36,36,36	0
56	MG	1A	3878	1/1	0.95	0.15	12,12,12,12	0
56	MG	1l	202	1/1	0.95	0.12	25,25,25,25	0
56	MG	2A	3527	1/1	0.95	0.10	44,44,44,44	0
56	MG	1A	3010	1/1	0.95	0.23	21,21,21,21	0
56	MG	2A	3229	1/1	0.95	0.36	31,31,31,31	0
56	MG	2A	3530	1/1	0.95	0.11	19,19,19,19	0
56	MG	1A	3881	1/1	0.95	0.13	17,17,17,17	0
56	MG	1A	4049	1/1	0.95	0.21	35,35,35,35	0
56	MG	1A	3720	1/1	0.95	0.11	19,19,19,19	0
56	MG	2A	3237	1/1	0.95	0.13	32,32,32,32	0
56	MG	1s	101	1/1	0.95	0.16	46,46,46,46	0
56	MG	1A	4054	1/1	0.95	0.16	24,24,24,24	0
56	MG	1a	3030	1/1	0.95	0.13	52,52,52,52	0
56	MG	2A	3242	1/1	0.95	0.10	55,55,55,55	0
56	MG	1A	3599	1/1	0.95	0.12	25,25,25,25	0
56	MG	1A	3336	1/1	0.95	0.31	27,27,27,27	0
56	MG	2A	3850	1/1	0.95	0.29	44,44,44,44	0
56	MG	1A	4058	1/1	0.95	0.11	42,42,42,42	0
56	MG	1a	3035	1/1	0.95	0.09	32,32,32,32	0
56	MG	1A	3602	1/1	0.95	0.29	20,20,20,20	0
56	MG	1x	101	1/1	0.95	0.16	22,22,22,22	0
56	MG	1A	4061	1/1	0.95	0.10	58,58,58,58	0
56	MG	1A	4063	1/1	0.95	0.15	52,52,52,52	0
56	MG	2x	105	1/1	0.95	0.06	33,33,33,33	0
56	MG	2y	101	1/1	0.95	0.07	46,46,46,46	0
56	MG	2A	3548	1/1	0.95	0.07	32,32,32,32	0
56	MG	2A	3252	1/1	0.95	0.07	41,41,41,41	0
56	MG	1A	3604	1/1	0.95	0.30	18,18,18,18	0
57	ERY	2A	3875	51/51	0.95	0.37	29,41,51,56	0
56	MG	1A	3291	1/1	0.95	0.10	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	ZN	1n	102	1/1	0.95	0.13	59,59,59,59	0
56	MG	1A	4067	1/1	0.95	0.17	31,31,31,31	0
56	MG	2A	3259	1/1	0.95	0.06	44,44,44,44	0
56	MG	1A	3520	1/1	0.96	0.39	22,22,22,22	0
56	MG	2A	3307	1/1	0.96	0.05	52,52,52,52	0
56	MG	2A	3590	1/1	0.96	0.07	36,36,36,36	0
56	MG	1T	201	1/1	0.96	0.17	35,35,35,35	0
56	MG	1A	3350	1/1	0.96	0.80	33,33,33,33	0
56	MG	2D	304	1/1	0.96	0.09	25,25,25,25	0
56	MG	2D	305	1/1	0.96	0.47	39,39,39,39	0
56	MG	1A	3523	1/1	0.96	0.14	36,36,36,36	0
56	MG	1U	205	1/1	0.96	0.09	28,28,28,28	0
56	MG	2A	3073	1/1	0.96	0.57	47,47,47,47	0
56	MG	1A	3228	1/1	0.96	0.08	50,50,50,50	0
56	MG	2A	3075	1/1	0.96	0.12	38,38,38,38	0
56	MG	1U	207	1/1	0.96	0.42	24,24,24,24	0
56	MG	1A	3192	1/1	0.96	0.25	23,23,23,23	0
56	MG	1A	3629	1/1	0.96	0.10	18,18,18,18	0
56	MG	2A	3080	1/1	0.96	0.12	51,51,51,51	0
56	MG	1A	4016	1/1	0.96	0.15	24,24,24,24	0
56	MG	1A	4017	1/1	0.96	0.11	28,28,28,28	0
56	MG	2A	3321	1/1	0.96	0.14	20,20,20,20	0
56	MG	2A	3322	1/1	0.96	0.35	45,45,45,45	0
56	MG	1A	3872	1/1	0.96	0.11	13,13,13,13	0
56	MG	2A	3609	1/1	0.96	0.20	33,33,33,33	0
56	MG	1A	3035	1/1	0.96	0.20	20,20,20,20	0
56	MG	2N	201	1/1	0.96	0.08	32,32,32,32	0
56	MG	2O	8400	1/1	0.96	0.23	40,40,40,40	0
56	MG	2P	201	1/1	0.96	0.31	40,40,40,40	0
56	MG	1A	3232	1/1	0.96	0.31	20,20,20,20	0
56	MG	1A	4022	1/1	0.96	0.07	34,34,34,34	0
56	MG	1A	3745	1/1	0.96	0.14	13,13,13,13	0
56	MG	2A	3616	1/1	0.96	0.16	32,32,32,32	0
56	MG	1A	3749	1/1	0.96	0.23	47,47,47,47	0
56	MG	2A	3092	1/1	0.96	0.10	34,34,34,34	0
56	MG	1A	3633	1/1	0.96	0.10	30,30,30,30	0
56	MG	2A	3334	1/1	0.96	0.13	32,32,32,32	0
56	MG	2A	3621	1/1	0.96	0.14	31,31,31,31	0
56	MG	1W	207	1/1	0.96	0.27	4,4,4,4	0
56	MG	2T	203	1/1	0.96	0.20	34,34,34,34	0
56	MG	1A	3751	1/1	0.96	0.07	25,25,25,25	0
56	MG	1A	3467	1/1	0.96	0.13	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3880	1/1	0.96	0.12	20,20,20,20	0
56	MG	1X	105	1/1	0.96	0.13	20,20,20,20	0
56	MG	2A	3627	1/1	0.96	0.29	40,40,40,40	0
56	MG	1a	3157	1/1	0.96	0.38	49,49,49,49	0
56	MG	2A	3102	1/1	0.96	0.12	44,44,44,44	0
56	MG	1A	3531	1/1	0.96	0.23	25,25,25,25	0
56	MG	1A	3160	1/1	0.96	0.14	13,13,13,13	0
56	MG	1A	4033	1/1	0.96	0.08	34,34,34,34	0
56	MG	1A	3533	1/1	0.96	0.17	36,36,36,36	0
56	MG	1A	3642	1/1	0.96	0.15	17,17,17,17	0
56	MG	23	103	1/1	0.96	0.21	44,44,44,44	0
56	MG	1A	3469	1/1	0.96	0.12	27,27,27,27	0
56	MG	25	102	1/1	0.96	0.44	40,40,40,40	0
56	MG	2A	3350	1/1	0.96	0.47	34,34,34,34	0
56	MG	2A	3638	1/1	0.96	0.08	36,36,36,36	0
56	MG	2A	3639	1/1	0.96	0.09	36,36,36,36	0
56	MG	27	101	1/1	0.96	0.33	32,32,32,32	0
56	MG	2A	3351	1/1	0.96	0.14	30,30,30,30	0
56	MG	1A	3312	1/1	0.96	0.12	22,22,22,22	0
56	MG	2A	3111	1/1	0.96	0.08	52,52,52,52	0
56	MG	1A	3091	1/1	0.96	0.36	17,17,17,17	0
56	MG	1A	3197	1/1	0.96	0.12	17,17,17,17	0
56	MG	2A	3116	1/1	0.96	0.10	61,61,61,61	0
56	MG	2A	3648	1/1	0.96	0.09	44,44,44,44	0
56	MG	2A	3649	1/1	0.96	0.18	28,28,28,28	0
56	MG	1a	3169	1/1	0.96	0.14	35,35,35,35	0
56	MG	1A	3163	1/1	0.96	0.14	24,24,24,24	0
56	MG	1A	3892	1/1	0.96	0.11	15,15,15,15	0
56	MG	13	104	1/1	0.96	0.10	26,26,26,26	0
56	MG	2A	3363	1/1	0.96	0.17	48,48,48,48	0
56	MG	1A	3025	1/1	0.96	0.31	13,13,13,13	0
56	MG	1A	3475	1/1	0.96	0.13	32,32,32,32	0
56	MG	2A	3124	1/1	0.96	0.25	41,41,41,41	0
56	MG	2A	3367	1/1	0.96	0.37	41,41,41,41	0
56	MG	1A	3544	1/1	0.96	0.14	13,13,13,13	0
56	MG	2A	3370	1/1	0.96	0.07	35,35,35,35	0
56	MG	2A	3127	1/1	0.96	0.49	42,42,42,42	0
56	MG	1A	3545	1/1	0.96	0.11	30,30,30,30	0
56	MG	1A	3900	1/1	0.96	0.16	34,34,34,34	0
56	MG	1A	4050	1/1	0.96	0.15	38,38,38,38	0
56	MG	15	107	1/1	0.96	0.28	33,33,33,33	0
56	MG	1A	3414	1/1	0.96	0.18	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3902	1/1	0.96	0.06	36,36,36,36	0
56	MG	2A	3137	1/1	0.96	0.14	24,24,24,24	0
56	MG	2a	1629	1/1	0.96	0.17	37,37,37,37	0
56	MG	2a	1630	1/1	0.96	0.09	51,51,51,51	0
56	MG	2A	3138	1/1	0.96	0.13	30,30,30,30	0
56	MG	2A	3384	1/1	0.96	0.10	34,34,34,34	0
56	MG	16	103	1/1	0.96	0.15	39,39,39,39	0
56	MG	1A	3551	1/1	0.96	0.17	14,14,14,14	0
56	MG	1A	3415	1/1	0.96	0.12	31,31,31,31	0
56	MG	2A	3388	1/1	0.96	0.09	41,41,41,41	0
56	MG	2a	1638	1/1	0.96	0.17	39,39,39,39	0
56	MG	1A	4057	1/1	0.96	0.12	22,22,22,22	0
56	MG	1A	3774	1/1	0.96	0.11	27,27,27,27	0
56	MG	1A	3416	1/1	0.96	0.08	39,39,39,39	0
56	MG	1A	3417	1/1	0.96	0.10	18,18,18,18	0
56	MG	1A	3201	1/1	0.96	0.18	38,38,38,38	0
56	MG	1A	3240	1/1	0.96	0.40	29,29,29,29	0
56	MG	1A	3119	1/1	0.96	0.12	11,11,11,11	0
56	MG	1A	3565	1/1	0.96	0.12	11,11,11,11	0
56	MG	1A	4069	1/1	0.96	0.07	37,37,37,37	0
56	MG	2A	3694	1/1	0.96	0.17	47,47,47,47	0
56	MG	2A	3151	1/1	0.96	0.21	43,43,43,43	0
56	MG	1A	3785	1/1	0.96	0.10	14,14,14,14	0
56	MG	1A	3786	1/1	0.96	0.13	16,16,16,16	0
56	MG	1a	3004	1/1	0.96	0.44	47,47,47,47	0
56	MG	2A	3700	1/1	0.96	0.10	55,55,55,55	0
56	MG	2a	1657	1/1	0.96	0.12	48,48,48,48	0
56	MG	1A	3366	1/1	0.96	0.22	29,29,29,29	0
56	MG	2a	1660	1/1	0.96	0.09	37,37,37,37	0
56	MG	1A	3920	1/1	0.96	0.10	31,31,31,31	0
56	MG	1A	3669	1/1	0.96	0.10	19,19,19,19	0
56	MG	1B	202	1/1	0.96	0.24	48,48,48,48	0
56	MG	2A	3707	1/1	0.96	0.08	20,20,20,20	0
56	MG	1A	3789	1/1	0.96	0.12	21,21,21,21	0
56	MG	1B	205	1/1	0.96	0.23	33,33,33,33	0
56	MG	2A	3162	1/1	0.96	0.14	43,43,43,43	0
56	MG	2A	3413	1/1	0.96	0.11	39,39,39,39	0
56	MG	2A	3712	1/1	0.96	0.12	34,34,34,34	0
56	MG	2A	3713	1/1	0.96	0.07	34,34,34,34	0
56	MG	1A	3489	1/1	0.96	0.22	17,17,17,17	0
56	MG	2A	3418	1/1	0.96	0.15	21,21,21,21	0
56	MG	1a	3015	1/1	0.96	0.10	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	3018	1/1	0.96	0.21	49,49,49,49	0
56	MG	1a	3019	1/1	0.96	0.08	45,45,45,45	0
56	MG	1a	3216	1/1	0.96	0.07	33,33,33,33	0
56	MG	1A	3792	1/1	0.96	0.14	29,29,29,29	0
56	MG	1a	3219	1/1	0.96	0.08	61,61,61,61	0
56	MG	2A	3725	1/1	0.96	0.25	34,34,34,34	0
56	MG	2A	3726	1/1	0.96	0.07	50,50,50,50	0
56	MG	2a	1692	1/1	0.96	0.19	52,52,52,52	0
56	MG	1A	3568	1/1	0.96	0.12	16,16,16,16	0
56	MG	1a	3028	1/1	0.96	0.12	48,48,48,48	0
56	MG	1A	3104	1/1	0.96	0.30	21,21,21,21	0
56	MG	1A	3928	1/1	0.96	0.11	26,26,26,26	0
56	MG	2A	3181	1/1	0.96	0.13	21,21,21,21	0
56	MG	1A	3168	1/1	0.96	0.11	32,32,32,32	0
56	MG	1a	3032	1/1	0.96	0.07	32,32,32,32	0
56	MG	2A	3437	1/1	0.96	0.15	42,42,42,42	0
56	MG	2a	1702	1/1	0.96	0.14	40,40,40,40	0
56	MG	2A	3738	1/1	0.96	0.22	54,54,54,54	0
56	MG	2A	3739	1/1	0.96	0.11	34,34,34,34	0
56	MG	2A	3184	1/1	0.96	0.14	32,32,32,32	0
56	MG	1a	3229	1/1	0.96	0.17	41,41,41,41	0
56	MG	2A	3442	1/1	0.96	0.17	39,39,39,39	0
56	MG	2A	3443	1/1	0.96	0.12	34,34,34,34	0
56	MG	1A	3571	1/1	0.96	0.23	23,23,23,23	0
56	MG	1A	3572	1/1	0.96	0.17	36,36,36,36	0
56	MG	1A	3205	1/1	0.96	0.11	20,20,20,20	0
56	MG	1a	3037	1/1	0.96	0.14	41,41,41,41	0
56	MG	1A	3040	1/1	0.96	0.12	20,20,20,20	0
56	MG	1A	3936	1/1	0.96	0.07	35,35,35,35	0
56	MG	2A	3453	1/1	0.96	0.11	33,33,33,33	0
56	MG	1l	203	1/1	0.96	0.09	48,48,48,48	0
56	MG	1a	3040	1/1	0.96	0.10	51,51,51,51	0
56	MG	1A	3124	1/1	0.96	0.25	35,35,35,35	0
56	MG	1A	3938	1/1	0.96	0.23	47,47,47,47	0
56	MG	1A	3376	1/1	0.96	0.07	35,35,35,35	0
56	MG	1A	3041	1/1	0.96	0.14	37,37,37,37	0
56	MG	1A	3685	1/1	0.96	0.16	15,15,15,15	0
56	MG	2a	1723	1/1	0.96	0.28	38,38,38,38	0
56	MG	2A	3466	1/1	0.96	0.15	19,19,19,19	0
56	MG	2A	3200	1/1	0.96	0.09	33,33,33,33	0
56	MG	1A	3430	1/1	0.96	0.16	48,48,48,48	0
56	MG	1A	3042	1/1	0.96	0.21	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3470	1/1	0.96	0.10	33,33,33,33	0
56	MG	1B	230	1/1	0.96	0.10	38,38,38,38	0
56	MG	1A	3945	1/1	0.96	0.11	31,31,31,31	0
56	MG	2A	3475	1/1	0.96	0.10	37,37,37,37	0
56	MG	1A	3176	1/1	0.96	0.13	22,22,22,22	0
56	MG	1A	3812	1/1	0.96	0.15	25,25,25,25	0
56	MG	1A	3147	1/1	0.96	0.10	27,27,27,27	0
56	MG	1A	3501	1/1	0.96	0.17	29,29,29,29	0
56	MG	1D	303	1/1	0.96	0.08	25,25,25,25	0
56	MG	2A	3210	1/1	0.96	0.16	23,23,23,23	0
56	MG	2A	3483	1/1	0.96	0.11	38,38,38,38	0
56	MG	1A	3692	1/1	0.96	0.12	10,10,10,10	0
56	MG	1A	3128	1/1	0.96	0.26	17,17,17,17	0
56	MG	2a	1743	1/1	0.96	0.14	56,56,56,56	0
56	MG	1A	3694	1/1	0.96	0.15	14,14,14,14	0
56	MG	1D	310	1/1	0.96	0.49	18,18,18,18	0
56	MG	2a	1747	1/1	0.96	0.06	67,67,67,67	0
56	MG	2A	3493	1/1	0.96	0.10	20,20,20,20	0
56	MG	1a	3062	1/1	0.96	0.07	56,56,56,56	0
56	MG	1A	3590	1/1	0.96	0.14	39,39,39,39	0
56	MG	1a	3065	1/1	0.96	0.07	34,34,34,34	0
56	MG	2a	1753	1/1	0.96	0.07	51,51,51,51	0
56	MG	1A	3822	1/1	0.96	0.13	35,35,35,35	0
56	MG	1A	3256	1/1	0.96	0.12	26,26,26,26	0
56	MG	2a	1756	1/1	0.96	0.11	74,74,74,74	0
56	MG	2a	1757	1/1	0.96	0.05	54,54,54,54	0
56	MG	1A	3593	1/1	0.96	0.14	30,30,30,30	0
56	MG	2A	3225	1/1	0.96	0.38	39,39,39,39	0
56	MG	1E	303	1/1	0.96	0.24	25,25,25,25	0
56	MG	1A	3439	1/1	0.96	0.14	25,25,25,25	0
56	MG	2A	3503	1/1	0.96	0.33	33,33,33,33	0
56	MG	1A	3150	1/1	0.96	0.11	20,20,20,20	0
56	MG	1a	3072	1/1	0.96	0.10	41,41,41,41	0
56	MG	2A	3231	1/1	0.96	0.11	41,41,41,41	0
56	MG	2A	3232	1/1	0.96	0.13	46,46,46,46	0
56	MG	1A	3442	1/1	0.96	0.26	33,33,33,33	0
56	MG	1A	3829	1/1	0.96	0.26	18,18,18,18	0
56	MG	1A	3182	1/1	0.96	0.15	22,22,22,22	0
56	MG	2A	3238	1/1	0.96	0.23	50,50,50,50	0
56	MG	2A	3805	1/1	0.96	0.07	41,41,41,41	0
56	MG	2a	1772	1/1	0.96	0.14	50,50,50,50	0
56	MG	2A	3004	1/1	0.96	0.11	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3005	1/1	0.96	0.11	39,39,39,39	0
56	MG	1A	3221	1/1	0.96	0.18	19,19,19,19	0
56	MG	2A	3515	1/1	0.96	0.09	48,48,48,48	0
56	MG	1A	3600	1/1	0.96	0.13	44,44,44,44	0
56	MG	2A	3518	1/1	0.96	0.10	63,63,63,63	0
56	MG	1E	314	1/1	0.96	0.40	29,29,29,29	0
56	MG	1A	3833	1/1	0.96	0.19	42,42,42,42	0
56	MG	1A	3445	1/1	0.96	0.12	32,32,32,32	0
56	MG	2A	3817	1/1	0.96	0.07	28,28,28,28	0
56	MG	1A	3151	1/1	0.96	0.18	23,23,23,23	0
56	MG	2a	1786	1/1	0.96	0.08	50,50,50,50	0
56	MG	1A	3603	1/1	0.96	0.29	16,16,16,16	0
56	MG	1A	3972	1/1	0.96	0.07	39,39,39,39	0
56	MG	1A	3838	1/1	0.96	0.09	27,27,27,27	0
56	MG	1A	3511	1/1	0.96	0.11	21,21,21,21	0
56	MG	1A	3261	1/1	0.96	0.27	31,31,31,31	0
56	MG	2A	3254	1/1	0.96	0.17	30,30,30,30	0
56	MG	1A	3977	1/1	0.96	0.14	27,27,27,27	0
56	MG	2a	1794	1/1	0.96	0.21	58,58,58,58	0
56	MG	1A	3112	1/1	0.96	0.23	22,22,22,22	0
56	MG	2A	3534	1/1	0.96	0.13	30,30,30,30	0
56	MG	2a	1797	1/1	0.96	0.11	37,37,37,37	0
56	MG	1A	3087	1/1	0.96	0.13	16,16,16,16	0
56	MG	1A	3608	1/1	0.96	0.15	36,36,36,36	0
56	MG	2A	3024	1/1	0.96	0.08	33,33,33,33	0
56	MG	2A	3025	1/1	0.96	0.14	38,38,38,38	0
56	MG	1a	3096	1/1	0.96	0.12	38,38,38,38	0
56	MG	1A	3846	1/1	0.96	0.11	29,29,29,29	0
56	MG	2A	3266	1/1	0.96	0.07	42,42,42,42	0
56	MG	2A	3029	1/1	0.96	0.08	32,32,32,32	0
56	MG	1G	202	1/1	0.96	0.15	19,19,19,19	0
56	MG	2A	3031	1/1	0.96	0.08	26,26,26,26	0
56	MG	2a	1809	1/1	0.96	0.07	44,44,44,44	0
56	MG	2a	1811	1/1	0.96	0.11	50,50,50,50	0
56	MG	1I	201	1/1	0.96	0.08	36,36,36,36	0
56	MG	1A	3345	1/1	0.96	0.16	19,19,19,19	0
56	MG	2a	1815	1/1	0.96	0.12	56,56,56,56	0
56	MG	1A	3848	1/1	0.96	0.05	38,38,38,38	0
56	MG	1A	3849	1/1	0.96	0.10	27,27,27,27	0
56	MG	2a	1818	1/1	0.96	0.12	48,48,48,48	0
56	MG	2A	3846	1/1	0.96	0.26	46,46,46,46	0
56	MG	1N	204	1/1	0.96	0.68	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1O	201	1/1	0.96	0.10	29,29,29,29	0
56	MG	2A	3040	1/1	0.96	0.09	16,16,16,16	0
56	MG	1A	3037	1/1	0.96	0.10	9,9,9,9	0
56	MG	1A	3717	1/1	0.96	0.14	17,17,17,17	0
56	MG	2a	1826	1/1	0.96	0.09	43,43,43,43	0
56	MG	2A	3854	1/1	0.96	0.17	43,43,43,43	0
56	MG	2a	1829	1/1	0.96	0.06	45,45,45,45	0
56	MG	1A	3517	1/1	0.96	0.53	33,33,33,33	0
56	MG	2a	1833	1/1	0.96	0.12	58,58,58,58	0
56	MG	1A	3854	1/1	0.96	0.13	42,42,42,42	0
56	MG	2e	201	1/1	0.96	0.08	52,52,52,52	0
56	MG	1A	3613	1/1	0.96	0.26	21,21,21,21	0
56	MG	2f	202	1/1	0.96	0.13	47,47,47,47	0
56	MG	2A	3560	1/1	0.96	0.09	61,61,61,61	0
56	MG	2A	3561	1/1	0.96	0.17	27,27,27,27	0
56	MG	1A	3615	1/1	0.96	0.14	31,31,31,31	0
56	MG	2j	201	1/1	0.96	0.10	47,47,47,47	0
56	MG	2k	201	1/1	0.96	0.12	51,51,51,51	0
56	MG	1A	3099	1/1	0.96	0.11	22,22,22,22	0
56	MG	2A	3863	1/1	0.96	0.13	27,27,27,27	0
56	MG	2A	3564	1/1	0.96	0.19	36,36,36,36	0
56	MG	1A	3858	1/1	0.96	0.15	10,10,10,10	0
56	MG	1Q	203	1/1	0.96	0.24	20,20,20,20	0
56	MG	1Q	204	1/1	0.96	0.09	13,13,13,13	0
56	MG	2A	3870	1/1	0.96	0.22	48,48,48,48	0
56	MG	1A	3722	1/1	0.96	0.10	16,16,16,16	0
56	MG	1a	3118	1/1	0.96	0.09	43,43,43,43	0
56	MG	1A	4000	1/1	0.96	0.08	43,43,43,43	0
56	MG	1a	3121	1/1	0.96	0.10	42,42,42,42	0
56	MG	1a	3122	1/1	0.96	0.10	36,36,36,36	0
56	MG	1A	4001	1/1	0.96	0.17	29,29,29,29	0
56	MG	2x	104	1/1	0.96	0.11	42,42,42,42	0
56	MG	1a	3124	1/1	0.96	0.07	33,33,33,33	0
56	MG	2A	3061	1/1	0.96	0.43	66,66,66,66	0
56	MG	2B	206	1/1	0.96	0.16	42,42,42,42	0
56	MG	2A	3578	1/1	0.96	0.30	44,44,44,44	0
56	MG	1R	201	1/1	0.96	0.08	26,26,26,26	0
56	MG	2A	3063	1/1	0.96	0.13	35,35,35,35	0
56	MG	2A	3302	1/1	0.96	0.10	22,22,22,22	0
56	MG	1A	3723	1/1	0.96	0.14	26,26,26,26	0
56	MG	1a	3127	1/1	0.96	0.06	20,20,20,20	0
56	MG	1A	3157	1/1	0.96	0.12	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	ZN	29	501	1/1	0.96	0.08	66,66,66,66	0
58	ZN	2n	501	1/1	0.96	0.08	95,95,95,95	0
56	MG	2A	3100	1/1	0.97	0.20	41,41,41,41	0
56	MG	1A	4029	1/1	0.97	0.20	19,19,19,19	0
56	MG	1a	3156	1/1	0.97	0.11	34,34,34,34	0
56	MG	1A	3525	1/1	0.97	0.08	30,30,30,30	0
56	MG	1A	3627	1/1	0.97	0.11	27,27,27,27	0
56	MG	1a	3159	1/1	0.97	0.15	46,46,46,46	0
56	MG	1A	3882	1/1	0.97	0.09	26,26,26,26	0
56	MG	1a	3161	1/1	0.97	0.15	53,53,53,53	0
56	MG	1A	3450	1/1	0.97	0.08	20,20,20,20	0
56	MG	1A	3278	1/1	0.97	0.11	16,16,16,16	0
56	MG	1A	3528	1/1	0.97	0.16	27,27,27,27	0
56	MG	1A	3383	1/1	0.97	0.11	22,22,22,22	0
56	MG	2A	3114	1/1	0.97	0.09	32,32,32,32	0
56	MG	1A	3634	1/1	0.97	0.18	14,14,14,14	0
56	MG	2A	3628	1/1	0.97	0.06	33,33,33,33	0
56	MG	2A	3354	1/1	0.97	0.25	41,41,41,41	0
56	MG	1A	3123	1/1	0.97	0.11	6,6,6,6	0
56	MG	12	101	1/1	0.97	0.20	28,28,28,28	0
56	MG	1A	3014	1/1	0.97	0.16	32,32,32,32	0
56	MG	2A	3119	1/1	0.97	0.32	34,34,34,34	0
56	MG	1A	3638	1/1	0.97	0.12	30,30,30,30	0
56	MG	13	103	1/1	0.97	0.30	26,26,26,26	0
56	MG	1A	3455	1/1	0.97	0.18	28,28,28,28	0
56	MG	1A	3009	1/1	0.97	0.11	16,16,16,16	0
56	MG	13	106	1/1	0.97	0.20	15,15,15,15	0
56	MG	1A	3894	1/1	0.97	0.17	27,27,27,27	0
56	MG	2A	3126	1/1	0.97	0.12	44,44,44,44	0
56	MG	2A	3641	1/1	0.97	0.22	49,49,49,49	0
56	MG	1A	3895	1/1	0.97	0.16	30,30,30,30	0
56	MG	15	102	1/1	0.97	0.21	10,10,10,10	0
56	MG	1A	3158	1/1	0.97	0.19	37,37,37,37	0
56	MG	2A	3369	1/1	0.97	0.27	53,53,53,53	0
56	MG	2A	3130	1/1	0.97	0.07	28,28,28,28	0
56	MG	1a	3179	1/1	0.97	0.07	47,47,47,47	0
56	MG	2A	3132	1/1	0.97	0.14	40,40,40,40	0
56	MG	1A	3458	1/1	0.97	0.20	37,37,37,37	0
56	MG	2A	3374	1/1	0.97	0.06	50,50,50,50	0
56	MG	1a	3181	1/1	0.97	0.06	39,39,39,39	0
56	MG	2A	3654	1/1	0.97	0.28	30,30,30,30	0
56	MG	2A	3376	1/1	0.97	0.06	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1a	3182	1/1	0.97	0.09	51,51,51,51	0
56	MG	1a	3184	1/1	0.97	0.11	49,49,49,49	0
56	MG	2A	3380	1/1	0.97	0.07	33,33,33,33	0
56	MG	2a	1604	1/1	0.97	0.10	39,39,39,39	0
56	MG	1A	4051	1/1	0.97	0.08	16,16,16,16	0
56	MG	1A	3768	1/1	0.97	0.12	22,22,22,22	0
56	MG	1a	3187	1/1	0.97	0.16	29,29,29,29	0
56	MG	1A	3899	1/1	0.97	0.10	23,23,23,23	0
56	MG	1A	3536	1/1	0.97	0.16	31,31,31,31	0
56	MG	1A	3283	1/1	0.97	0.17	36,36,36,36	0
56	MG	2A	3666	1/1	0.97	0.10	30,30,30,30	0
56	MG	1A	3076	1/1	0.97	0.12	32,32,32,32	0
56	MG	1A	3648	1/1	0.97	0.07	18,18,18,18	0
56	MG	2A	3669	1/1	0.97	0.13	31,31,31,31	0
56	MG	1A	3649	1/1	0.97	0.11	12,12,12,12	0
56	MG	1A	3332	1/1	0.97	0.13	22,22,22,22	0
56	MG	1A	3906	1/1	0.97	0.14	9,9,9,9	0
56	MG	2a	1618	1/1	0.97	0.13	36,36,36,36	0
56	MG	1A	3462	1/1	0.97	0.28	38,38,38,38	0
56	MG	2A	3675	1/1	0.97	0.12	37,37,37,37	0
56	MG	1a	3197	1/1	0.97	0.06	49,49,49,49	0
56	MG	1A	3908	1/1	0.97	0.10	23,23,23,23	0
56	MG	2A	3152	1/1	0.97	0.30	42,42,42,42	0
56	MG	2A	3679	1/1	0.97	0.19	51,51,51,51	0
56	MG	1A	4066	1/1	0.97	0.15	21,21,21,21	0
56	MG	1A	3198	1/1	0.97	0.22	20,20,20,20	0
56	MG	1a	3201	1/1	0.97	0.09	55,55,55,55	0
56	MG	1A	3464	1/1	0.97	0.38	25,25,25,25	0
56	MG	1A	3779	1/1	0.97	0.23	15,15,15,15	0
56	MG	1A	3780	1/1	0.97	0.06	29,29,29,29	0
56	MG	1A	3239	1/1	0.97	0.20	9,9,9,9	0
56	MG	1A	3547	1/1	0.97	0.21	9,9,9,9	0
56	MG	1A	3916	1/1	0.97	0.10	40,40,40,40	0
56	MG	1A	3917	1/1	0.97	0.17	34,34,34,34	0
56	MG	1A	3548	1/1	0.97	0.29	27,27,27,27	0
56	MG	1A	3784	1/1	0.97	0.09	28,28,28,28	0
56	MG	1A	3466	1/1	0.97	0.22	23,23,23,23	0
56	MG	2A	3412	1/1	0.97	0.12	41,41,41,41	0
56	MG	2A	3166	1/1	0.97	0.15	35,35,35,35	0
56	MG	2A	3415	1/1	0.97	0.09	34,34,34,34	0
56	MG	2a	1642	1/1	0.97	0.10	38,38,38,38	0
56	MG	2a	1643	1/1	0.97	0.16	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3550	1/1	0.97	0.11	4,4,4,4	0
56	MG	1a	3012	1/1	0.97	0.13	49,49,49,49	0
56	MG	2a	1646	1/1	0.97	0.08	51,51,51,51	0
56	MG	2A	3171	1/1	0.97	0.12	27,27,27,27	0
56	MG	1A	3661	1/1	0.97	0.17	34,34,34,34	0
56	MG	2A	3421	1/1	0.97	0.10	22,22,22,22	0
56	MG	2A	3704	1/1	0.97	0.18	33,33,33,33	0
56	MG	1A	3100	1/1	0.97	0.21	22,22,22,22	0
56	MG	2A	3175	1/1	0.97	0.14	28,28,28,28	0
56	MG	2A	3425	1/1	0.97	0.31	34,34,34,34	0
56	MG	1a	3016	1/1	0.97	0.12	43,43,43,43	0
56	MG	1a	3017	1/1	0.97	0.21	26,26,26,26	0
56	MG	1A	3924	1/1	0.97	0.09	9,9,9,9	0
56	MG	2A	3179	1/1	0.97	0.06	33,33,33,33	0
56	MG	2a	1658	1/1	0.97	0.10	30,30,30,30	0
56	MG	1a	3221	1/1	0.97	0.08	47,47,47,47	0
56	MG	2A	3714	1/1	0.97	0.09	38,38,38,38	0
56	MG	2a	1662	1/1	0.97	0.13	43,43,43,43	0
56	MG	2A	3432	1/1	0.97	0.16	41,41,41,41	0
56	MG	1A	3161	1/1	0.97	0.12	26,26,26,26	0
56	MG	1a	3023	1/1	0.97	0.12	17,17,17,17	0
56	MG	1A	3790	1/1	0.97	0.14	10,10,10,10	0
56	MG	1A	3338	1/1	0.97	0.09	13,13,13,13	0
56	MG	1A	3554	1/1	0.97	0.29	12,12,12,12	0
56	MG	2A	3722	1/1	0.97	0.28	39,39,39,39	0
56	MG	1A	3929	1/1	0.97	0.11	34,34,34,34	0
56	MG	2A	3187	1/1	0.97	0.12	39,39,39,39	0
56	MG	2a	1673	1/1	0.97	0.11	48,48,48,48	0
56	MG	1A	3555	1/1	0.97	0.21	23,23,23,23	0
56	MG	1A	3794	1/1	0.97	0.13	12,12,12,12	0
56	MG	2A	3444	1/1	0.97	0.12	36,36,36,36	0
56	MG	1e	201	1/1	0.97	0.09	48,48,48,48	0
56	MG	2A	3730	1/1	0.97	0.18	48,48,48,48	0
56	MG	1A	3060	1/1	0.97	0.20	18,18,18,18	0
56	MG	2A	3447	1/1	0.97	0.15	39,39,39,39	0
56	MG	1A	3243	1/1	0.97	0.22	16,16,16,16	0
56	MG	1B	224	1/1	0.97	0.14	36,36,36,36	0
56	MG	2a	1686	1/1	0.97	0.07	34,34,34,34	0
56	MG	2a	1687	1/1	0.97	0.13	51,51,51,51	0
56	MG	1A	3670	1/1	0.97	0.11	20,20,20,20	0
56	MG	2a	1689	1/1	0.97	0.11	47,47,47,47	0
56	MG	1a	3036	1/1	0.97	0.10	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	1691	1/1	0.97	0.09	44,44,44,44	0
56	MG	1A	3080	1/1	0.97	0.11	17,17,17,17	0
56	MG	1B	227	1/1	0.97	0.19	37,37,37,37	0
56	MG	1A	3562	1/1	0.97	0.26	7,7,7,7	0
56	MG	1A	3563	1/1	0.97	0.22	16,16,16,16	0
56	MG	2A	3459	1/1	0.97	0.18	35,35,35,35	0
56	MG	2A	3744	1/1	0.97	0.11	29,29,29,29	0
56	MG	2A	3460	1/1	0.97	0.14	48,48,48,48	0
56	MG	2A	3461	1/1	0.97	0.37	29,29,29,29	0
56	MG	1A	3399	1/1	0.97	0.17	16,16,16,16	0
56	MG	1a	3042	1/1	0.97	0.11	37,37,37,37	0
56	MG	1v	101	1/1	0.97	0.24	61,61,61,61	0
56	MG	1A	3940	1/1	0.97	0.06	49,49,49,49	0
56	MG	1A	3803	1/1	0.97	0.20	29,29,29,29	0
56	MG	1B	233	1/1	0.97	0.08	41,41,41,41	0
56	MG	1a	3046	1/1	0.97	0.16	19,19,19,19	0
56	MG	1A	3131	1/1	0.97	0.11	16,16,16,16	0
56	MG	1A	3001	1/1	0.97	0.15	35,35,35,35	0
56	MG	2A	3759	1/1	0.97	0.08	39,39,39,39	0
56	MG	1A	3679	1/1	0.97	0.13	10,10,10,10	0
56	MG	1D	302	1/1	0.97	0.69	35,35,35,35	0
56	MG	1A	3403	1/1	0.97	0.15	20,20,20,20	0
56	MG	2A	3763	1/1	0.97	0.11	41,41,41,41	0
56	MG	2A	3476	1/1	0.97	0.10	40,40,40,40	0
56	MG	1A	3082	1/1	0.97	0.13	20,20,20,20	0
56	MG	1A	3947	1/1	0.97	0.12	22,22,22,22	0
56	MG	2A	3767	1/1	0.97	0.10	43,43,43,43	0
56	MG	1D	308	1/1	0.97	0.12	29,29,29,29	0
56	MG	1A	3405	1/1	0.97	0.08	38,38,38,38	0
56	MG	1A	3811	1/1	0.97	0.08	20,20,20,20	0
56	MG	1A	3481	1/1	0.97	0.10	26,26,26,26	0
56	MG	1A	3249	1/1	0.97	0.16	28,28,28,28	0
56	MG	2A	3220	1/1	0.97	0.45	32,32,32,32	0
56	MG	2A	3486	1/1	0.97	0.09	33,33,33,33	0
56	MG	2a	1726	1/1	0.97	0.27	32,32,32,32	0
56	MG	2A	3221	1/1	0.97	0.17	51,51,51,51	0
56	MG	1A	3105	1/1	0.97	0.19	11,11,11,11	0
56	MG	2A	3490	1/1	0.97	0.08	52,52,52,52	0
56	MG	1a	3060	1/1	0.97	0.07	48,48,48,48	0
56	MG	2A	3224	1/1	0.97	0.42	45,45,45,45	0
56	MG	1A	3349	1/1	0.97	0.27	23,23,23,23	0
56	MG	2A	3226	1/1	0.97	0.20	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3011	1/1	0.97	0.07	25,25,25,25	0
56	MG	1A	3817	1/1	0.97	0.12	28,28,28,28	0
56	MG	1A	3818	1/1	0.97	0.12	31,31,31,31	0
56	MG	1A	3575	1/1	0.97	0.09	23,23,23,23	0
56	MG	1A	3689	1/1	0.97	0.08	19,19,19,19	0
56	MG	1A	3821	1/1	0.97	0.09	31,31,31,31	0
56	MG	1A	3410	1/1	0.97	0.10	17,17,17,17	0
56	MG	2A	3234	1/1	0.97	0.49	37,37,37,37	0
56	MG	1A	3137	1/1	0.97	0.19	35,35,35,35	0
56	MG	2a	1744	1/1	0.97	0.16	65,65,65,65	0
56	MG	1E	311	1/1	0.97	0.16	30,30,30,30	0
56	MG	2A	3006	1/1	0.97	0.11	42,42,42,42	0
56	MG	2A	3007	1/1	0.97	0.09	27,27,27,27	0
56	MG	1E	312	1/1	0.97	0.12	26,26,26,26	0
56	MG	1E	313	1/1	0.97	0.18	10,10,10,10	0
56	MG	2a	1750	1/1	0.97	0.10	51,51,51,51	0
56	MG	1A	3173	1/1	0.97	0.12	21,21,21,21	0
56	MG	1A	3029	1/1	0.97	0.12	11,11,11,11	0
56	MG	1a	3076	1/1	0.97	0.06	35,35,35,35	0
56	MG	1A	3213	1/1	0.97	0.23	35,35,35,35	0
56	MG	1A	3967	1/1	0.97	0.13	18,18,18,18	0
56	MG	1A	3110	1/1	0.97	0.38	24,24,24,24	0
56	MG	2A	3516	1/1	0.97	0.13	36,36,36,36	0
56	MG	2A	3248	1/1	0.97	0.14	47,47,47,47	0
56	MG	1A	3356	1/1	0.97	0.42	12,12,12,12	0
56	MG	2A	3017	1/1	0.97	0.14	30,30,30,30	0
56	MG	1A	3586	1/1	0.97	0.23	25,25,25,25	0
56	MG	1A	3357	1/1	0.97	0.12	17,17,17,17	0
56	MG	1A	3064	1/1	0.97	0.09	13,13,13,13	0
56	MG	1F	309	1/1	0.97	0.34	21,21,21,21	0
56	MG	2A	3526	1/1	0.97	0.17	42,42,42,42	0
56	MG	1A	3217	1/1	0.97	0.28	42,42,42,42	0
56	MG	1A	3218	1/1	0.97	0.12	19,19,19,19	0
56	MG	1a	3087	1/1	0.97	0.09	39,39,39,39	0
56	MG	1A	3975	1/1	0.97	0.05	25,25,25,25	0
56	MG	2A	3261	1/1	0.97	0.09	26,26,26,26	0
56	MG	1a	3089	1/1	0.97	0.06	33,33,33,33	0
56	MG	1A	3030	1/1	0.97	0.22	17,17,17,17	0
56	MG	1A	3002	1/1	0.97	0.11	22,22,22,22	0
56	MG	1A	3978	1/1	0.97	0.14	24,24,24,24	0
56	MG	1G	203	1/1	0.97	0.12	34,34,34,34	0
56	MG	1A	3019	1/1	0.97	0.24	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	3097	1/1	0.97	0.20	34,34,34,34	0
56	MG	2a	1778	1/1	0.97	0.14	54,54,54,54	0
56	MG	1A	3180	1/1	0.97	0.15	18,18,18,18	0
56	MG	1A	3181	1/1	0.97	0.15	35,35,35,35	0
56	MG	1A	3089	1/1	0.97	0.25	28,28,28,28	0
56	MG	1A	3983	1/1	0.97	0.10	10,10,10,10	0
56	MG	2A	3831	1/1	0.97	0.14	68,68,68,68	0
56	MG	2A	3832	1/1	0.97	0.14	35,35,35,35	0
56	MG	1A	3842	1/1	0.97	0.13	37,37,37,37	0
56	MG	1A	3013	1/1	0.97	0.11	11,11,11,11	0
56	MG	1A	3429	1/1	0.97	0.11	27,27,27,27	0
56	MG	1A	3069	1/1	0.97	0.44	33,33,33,33	0
56	MG	2A	3837	1/1	0.97	0.11	18,18,18,18	0
56	MG	1A	3988	1/1	0.97	0.16	20,20,20,20	0
56	MG	2A	3280	1/1	0.97	0.25	39,39,39,39	0
56	MG	1A	3431	1/1	0.97	0.29	24,24,24,24	0
56	MG	1a	3108	1/1	0.97	0.07	24,24,24,24	0
56	MG	2A	3552	1/1	0.97	0.07	56,56,56,56	0
56	MG	1P	205	1/1	0.97	0.07	15,15,15,15	0
56	MG	2A	3554	1/1	0.97	0.08	45,45,45,45	0
56	MG	1A	3070	1/1	0.97	0.27	23,23,23,23	0
56	MG	1A	3370	1/1	0.97	0.10	33,33,33,33	0
56	MG	1A	3371	1/1	0.97	0.20	10,10,10,10	0
56	MG	2A	3051	1/1	0.97	0.15	34,34,34,34	0
56	MG	2A	3849	1/1	0.97	0.09	30,30,30,30	0
56	MG	2A	3052	1/1	0.97	0.15	58,58,58,58	0
56	MG	2a	1804	1/1	0.97	0.06	37,37,37,37	0
56	MG	1Q	201	1/1	0.97	0.22	30,30,30,30	0
56	MG	2A	3852	1/1	0.97	0.07	24,24,24,24	0
56	MG	1Q	202	1/1	0.97	0.14	16,16,16,16	0
56	MG	1A	3034	1/1	0.97	0.18	15,15,15,15	0
56	MG	1A	3995	1/1	0.97	0.17	32,32,32,32	0
56	MG	1A	3373	1/1	0.97	0.17	20,20,20,20	0
56	MG	2A	3296	1/1	0.97	0.08	46,46,46,46	0
56	MG	1A	3072	1/1	0.97	0.13	18,18,18,18	0
56	MG	1A	3998	1/1	0.97	0.08	26,26,26,26	0
56	MG	1a	3120	1/1	0.97	0.14	42,42,42,42	0
56	MG	1A	3375	1/1	0.97	0.08	37,37,37,37	0
56	MG	2A	3862	1/1	0.97	0.38	45,45,45,45	0
56	MG	1A	3441	1/1	0.97	0.18	27,27,27,27	0
56	MG	1A	3612	1/1	0.97	0.25	26,26,26,26	0
56	MG	2A	3865	1/1	0.97	0.13	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3573	1/1	0.97	0.10	28,28,28,28	0
56	MG	2A	3867	1/1	0.97	0.09	46,46,46,46	0
56	MG	2a	1824	1/1	0.97	0.18	26,26,26,26	0
56	MG	1A	3230	1/1	0.97	0.08	24,24,24,24	0
56	MG	1A	4007	1/1	0.97	0.13	36,36,36,36	0
56	MG	1A	3725	1/1	0.97	0.08	40,40,40,40	0
56	MG	2a	1828	1/1	0.97	0.21	37,37,37,37	0
56	MG	1U	203	1/1	0.97	0.55	23,23,23,23	0
56	MG	2a	1830	1/1	0.97	0.18	38,38,38,38	0
56	MG	2a	1831	1/1	0.97	0.14	39,39,39,39	0
56	MG	2A	3872	1/1	0.97	0.07	42,42,42,42	0
56	MG	1A	3614	1/1	0.97	0.25	35,35,35,35	0
56	MG	1A	3275	1/1	0.97	0.15	36,36,36,36	0
56	MG	1A	4011	1/1	0.97	0.17	34,34,34,34	0
56	MG	1A	3616	1/1	0.97	0.16	19,19,19,19	0
56	MG	1A	3378	1/1	0.97	0.17	35,35,35,35	0
56	MG	1A	3731	1/1	0.97	0.12	27,27,27,27	0
56	MG	1A	3190	1/1	0.97	0.11	17,17,17,17	0
56	MG	1A	3734	1/1	0.97	0.13	30,30,30,30	0
56	MG	1V	205	1/1	0.97	0.24	19,19,19,19	0
56	MG	2A	3589	1/1	0.97	0.07	38,38,38,38	0
56	MG	2B	210	1/1	0.97	0.15	72,72,72,72	0
56	MG	2l	202	1/1	0.97	0.39	45,45,45,45	0
56	MG	1A	3869	1/1	0.97	0.24	31,31,31,31	0
56	MG	2A	3082	1/1	0.97	0.47	38,38,38,38	0
56	MG	1A	3870	1/1	0.97	0.29	23,23,23,23	0
56	MG	1A	3073	1/1	0.97	0.22	29,29,29,29	0
56	MG	1a	3141	1/1	0.97	0.16	48,48,48,48	0
56	MG	1A	3621	1/1	0.97	0.10	30,30,30,30	0
56	MG	2B	217	1/1	0.97	0.05	47,47,47,47	0
56	MG	1A	3522	1/1	0.97	0.10	21,21,21,21	0
56	MG	2B	220	1/1	0.97	0.16	57,57,57,57	0
56	MG	2A	3323	1/1	0.97	0.27	63,63,63,63	0
56	MG	2D	301	1/1	0.97	0.14	37,37,37,37	0
56	MG	1a	3144	1/1	0.97	0.14	61,61,61,61	0
56	MG	1A	3743	1/1	0.97	0.11	16,16,16,16	0
56	MG	2A	3326	1/1	0.97	0.23	31,31,31,31	0
56	MG	2A	3601	1/1	0.97	0.07	42,42,42,42	0
56	MG	1W	204	1/1	0.97	0.21	25,25,25,25	0
56	MG	1A	3744	1/1	0.97	0.11	25,25,25,25	0
56	MG	1W	206	1/1	0.97	0.10	20,20,20,20	0
56	MG	1A	3381	1/1	0.97	0.07	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3747	1/1	0.97	0.07	35,35,35,35	0
56	MG	1X	101	1/1	0.97	0.23	28,28,28,28	0
56	MG	2A	3097	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3748	1/1	0.97	0.09	34,34,34,34	0
56	MG	1A	3449	1/1	0.97	0.28	19,19,19,19	0
56	MG	2A	3613	1/1	0.97	0.28	58,58,58,58	0
56	MG	2A	3520	1/1	0.98	0.13	42,42,42,42	0
56	MG	1A	3556	1/1	0.98	0.14	10,10,10,10	0
56	MG	1a	3013	1/1	0.98	0.10	33,33,33,33	0
56	MG	1A	3652	1/1	0.98	0.16	32,32,32,32	0
56	MG	1A	3487	1/1	0.98	0.19	14,14,14,14	0
56	MG	1A	3054	1/1	0.98	0.13	23,23,23,23	0
56	MG	1A	3106	1/1	0.98	0.15	25,25,25,25	0
56	MG	1A	3561	1/1	0.98	0.10	10,10,10,10	0
56	MG	1A	3913	1/1	0.98	0.15	38,38,38,38	0
56	MG	2A	3690	1/1	0.98	0.14	35,35,35,35	0
56	MG	2a	1693	1/1	0.98	0.23	40,40,40,40	0
56	MG	2A	3691	1/1	0.98	0.07	43,43,43,43	0
56	MG	1a	3021	1/1	0.98	0.13	47,47,47,47	0
56	MG	1a	3022	1/1	0.98	0.09	22,22,22,22	0
56	MG	2A	3377	1/1	0.98	0.12	29,29,29,29	0
56	MG	1x	102	1/1	0.98	0.11	24,24,24,24	0
56	MG	2A	3696	1/1	0.98	0.09	34,34,34,34	0
56	MG	1A	3712	1/1	0.98	0.10	28,28,28,28	0
56	MG	1B	203	1/1	0.98	0.36	32,32,32,32	0
56	MG	1A	3777	1/1	0.98	0.11	9,9,9,9	0
56	MG	1a	3026	1/1	0.98	0.19	28,28,28,28	0
56	MG	1a	3027	1/1	0.98	0.09	49,49,49,49	0
56	MG	1A	3845	1/1	0.98	0.13	37,37,37,37	0
56	MG	1a	3140	1/1	0.98	0.21	34,34,34,34	0
56	MG	1A	3254	1/1	0.98	0.17	10,10,10,10	0
56	MG	1A	3992	1/1	0.98	0.11	20,20,20,20	0
56	MG	1A	3126	1/1	0.98	0.22	18,18,18,18	0
56	MG	1Q	207	1/1	0.98	0.10	25,25,25,25	0
56	MG	2B	207	1/1	0.98	0.08	48,48,48,48	0
56	MG	1A	3216	1/1	0.98	0.15	37,37,37,37	0
56	MG	1A	3402	1/1	0.98	0.19	12,12,12,12	0
56	MG	1A	3058	1/1	0.98	0.09	26,26,26,26	0
56	MG	1A	3055	1/1	0.98	0.07	19,19,19,19	0
56	MG	2A	3257	1/1	0.98	0.06	30,30,30,30	0
56	MG	1A	3852	1/1	0.98	0.17	13,13,13,13	0
56	MG	2A	3550	1/1	0.98	0.09	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1B	214	1/1	0.98	0.11	36,36,36,36	0
56	MG	1B	215	1/1	0.98	0.12	29,29,29,29	0
56	MG	2A	3718	1/1	0.98	0.07	32,32,32,32	0
56	MG	1U	201	1/1	0.98	0.22	20,20,20,20	0
56	MG	2B	219	1/1	0.98	0.09	52,52,52,52	0
56	MG	2A	3262	1/1	0.98	0.16	42,42,42,42	0
56	MG	1U	202	1/1	0.98	0.37	21,21,21,21	0
56	MG	1A	3303	1/1	0.98	0.17	25,25,25,25	0
56	MG	2a	1727	1/1	0.98	0.20	44,44,44,44	0
56	MG	2A	3134	1/1	0.98	0.15	37,37,37,37	0
56	MG	1B	217	1/1	0.98	0.14	17,17,17,17	0
56	MG	2A	3267	1/1	0.98	0.11	26,26,26,26	0
56	MG	1A	3328	1/1	0.98	0.15	21,21,21,21	0
56	MG	2A	3727	1/1	0.98	0.07	33,33,33,33	0
56	MG	1A	3434	1/1	0.98	0.19	39,39,39,39	0
56	MG	2A	3407	1/1	0.98	0.31	47,47,47,47	0
56	MG	2E	302	1/1	0.98	0.16	46,46,46,46	0
56	MG	2A	3408	1/1	0.98	0.13	41,41,41,41	0
56	MG	1A	4002	1/1	0.98	0.10	25,25,25,25	0
56	MG	1B	221	1/1	0.98	0.08	18,18,18,18	0
56	MG	2A	3411	1/1	0.98	0.12	28,28,28,28	0
56	MG	1U	209	1/1	0.98	0.21	18,18,18,18	0
56	MG	1A	4003	1/1	0.98	0.08	18,18,18,18	0
56	MG	2A	3414	1/1	0.98	0.11	38,38,38,38	0
56	MG	2A	3737	1/1	0.98	0.05	21,21,21,21	0
56	MG	1A	3153	1/1	0.98	0.08	25,25,25,25	0
56	MG	2F	304	1/1	0.98	0.09	32,32,32,32	0
56	MG	1A	4005	1/1	0.98	0.07	28,28,28,28	0
56	MG	2A	3417	1/1	0.98	0.17	36,36,36,36	0
56	MG	1V	204	1/1	0.98	0.32	25,25,25,25	0
56	MG	2A	3742	1/1	0.98	0.15	40,40,40,40	0
56	MG	1A	3436	1/1	0.98	0.08	29,29,29,29	0
56	MG	1A	3167	1/1	0.98	0.05	32,32,32,32	0
56	MG	1A	3859	1/1	0.98	0.08	22,22,22,22	0
56	MG	1A	3931	1/1	0.98	0.12	36,36,36,36	0
56	MG	2A	3423	1/1	0.98	0.08	22,22,22,22	0
56	MG	2A	3748	1/1	0.98	0.07	34,34,34,34	0
56	MG	2A	3580	1/1	0.98	0.14	39,39,39,39	0
56	MG	1A	3140	1/1	0.98	0.28	22,22,22,22	0
56	MG	1A	3671	1/1	0.98	0.15	36,36,36,36	0
56	MG	2A	3283	1/1	0.98	0.14	32,32,32,32	0
56	MG	2A	3753	1/1	0.98	0.07	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2R	203	1/1	0.98	0.15	23,23,23,23	0
56	MG	2A	3427	1/1	0.98	0.13	23,23,23,23	0
56	MG	2A	3755	1/1	0.98	0.10	40,40,40,40	0
56	MG	2A	3585	1/1	0.98	0.12	34,34,34,34	0
56	MG	1A	3618	1/1	0.98	0.37	16,16,16,16	0
56	MG	1A	3109	1/1	0.98	0.15	37,37,37,37	0
56	MG	1A	3864	1/1	0.98	0.07	17,17,17,17	0
56	MG	1A	3024	1/1	0.98	0.11	9,9,9,9	0
56	MG	1a	3063	1/1	0.98	0.12	48,48,48,48	0
56	MG	1A	3730	1/1	0.98	0.09	15,15,15,15	0
56	MG	2A	3028	1/1	0.98	0.10	20,20,20,20	0
56	MG	1A	4018	1/1	0.98	0.13	10,10,10,10	0
56	MG	1A	3796	1/1	0.98	0.16	47,47,47,47	0
56	MG	2A	3293	1/1	0.98	0.08	46,46,46,46	0
56	MG	1A	3412	1/1	0.98	0.21	16,16,16,16	0
56	MG	1X	103	1/1	0.98	0.11	26,26,26,26	0
56	MG	2A	3440	1/1	0.98	0.16	36,36,36,36	0
56	MG	1D	304	1/1	0.98	0.09	18,18,18,18	0
56	MG	1a	3183	1/1	0.98	0.06	49,49,49,49	0
56	MG	1D	305	1/1	0.98	0.14	36,36,36,36	0
56	MG	1Y	201	1/1	0.98	0.22	39,39,39,39	0
56	MG	1A	3732	1/1	0.98	0.13	10,10,10,10	0
56	MG	2A	3167	1/1	0.98	0.17	51,51,51,51	0
56	MG	2A	3605	1/1	0.98	0.12	33,33,33,33	0
56	MG	2a	1785	1/1	0.98	0.23	63,63,63,63	0
56	MG	2A	3777	1/1	0.98	0.11	36,36,36,36	0
56	MG	2a	1601	1/1	0.98	0.30	59,59,59,59	0
56	MG	2A	3168	1/1	0.98	0.12	23,23,23,23	0
56	MG	1A	3265	1/1	0.98	0.10	4,4,4,4	0
56	MG	1A	3188	1/1	0.98	0.10	19,19,19,19	0
56	MG	1A	3735	1/1	0.98	0.11	27,27,27,27	0
56	MG	2A	3172	1/1	0.98	0.06	33,33,33,33	0
56	MG	2A	3454	1/1	0.98	0.12	31,31,31,31	0
56	MG	1A	3172	1/1	0.98	0.25	24,24,24,24	0
56	MG	10	104	1/1	0.98	0.34	36,36,36,36	0
56	MG	1D	311	1/1	0.98	0.14	16,16,16,16	0
56	MG	2A	3458	1/1	0.98	0.17	60,60,60,60	0
56	MG	1A	3738	1/1	0.98	0.12	46,46,46,46	0
56	MG	1A	3625	1/1	0.98	0.14	19,19,19,19	0
56	MG	1A	3740	1/1	0.98	0.07	45,45,45,45	0
56	MG	1A	3581	1/1	0.98	0.21	20,20,20,20	0
56	MG	1A	3742	1/1	0.98	0.12	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3951	1/1	0.98	0.12	22,22,22,22	0
56	MG	13	102	1/1	0.98	0.12	12,12,12,12	0
56	MG	1A	3542	1/1	0.98	0.10	31,31,31,31	0
56	MG	1A	3809	1/1	0.98	0.08	32,32,32,32	0
56	MG	1A	3628	1/1	0.98	0.19	19,19,19,19	0
56	MG	2A	3056	1/1	0.98	0.08	28,28,28,28	0
56	MG	1A	3337	1/1	0.98	0.12	23,23,23,23	0
56	MG	2a	1810	1/1	0.98	0.10	50,50,50,50	0
56	MG	1A	4037	1/1	0.98	0.18	5,5,5,5	0
56	MG	1a	3091	1/1	0.98	0.20	24,24,24,24	0
56	MG	2A	3474	1/1	0.98	0.34	38,38,38,38	0
56	MG	1a	3092	1/1	0.98	0.21	40,40,40,40	0
56	MG	1A	3746	1/1	0.98	0.09	13,13,13,13	0
56	MG	1A	3630	1/1	0.98	0.11	30,30,30,30	0
56	MG	1A	3584	1/1	0.98	0.20	31,31,31,31	0
56	MG	15	104	1/1	0.98	0.40	25,25,25,25	0
56	MG	1a	3211	1/1	0.98	0.09	27,27,27,27	0
56	MG	2a	1633	1/1	0.98	0.16	36,36,36,36	0
56	MG	1A	3886	1/1	0.98	0.17	14,14,14,14	0
56	MG	1A	3585	1/1	0.98	0.25	25,25,25,25	0
56	MG	1A	3476	1/1	0.98	0.13	26,26,26,26	0
56	MG	2A	3813	1/1	0.98	0.10	25,25,25,25	0
56	MG	1A	3587	1/1	0.98	0.26	13,13,13,13	0
56	MG	2A	3485	1/1	0.98	0.13	40,40,40,40	0
56	MG	2A	3335	1/1	0.98	0.24	53,53,53,53	0
56	MG	1A	3546	1/1	0.98	0.15	21,21,21,21	0
56	MG	1a	3217	1/1	0.98	0.08	65,65,65,65	0
56	MG	2A	3489	1/1	0.98	0.07	37,37,37,37	0
56	MG	1A	4047	1/1	0.98	0.16	19,19,19,19	0
56	MG	1A	3477	1/1	0.98	0.13	22,22,22,22	0
56	MG	2A	3492	1/1	0.98	0.14	37,37,37,37	0
56	MG	1A	3289	1/1	0.98	0.20	25,25,25,25	0
56	MG	2A	3652	1/1	0.98	0.20	35,35,35,35	0
56	MG	1A	3639	1/1	0.98	0.08	42,42,42,42	0
56	MG	1A	3591	1/1	0.98	0.07	34,34,34,34	0
56	MG	1A	3447	1/1	0.98	0.19	23,23,23,23	0
56	MG	2A	3828	1/1	0.98	0.08	39,39,39,39	0
56	MG	2A	3079	1/1	0.98	0.12	23,23,23,23	0
56	MG	2j	202	1/1	0.98	0.12	59,59,59,59	0
56	MG	1A	4053	1/1	0.98	0.05	48,48,48,48	0
56	MG	2A	3081	1/1	0.98	0.05	33,33,33,33	0
56	MG	2A	3211	1/1	0.98	0.12	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	3225	1/1	0.98	0.12	41,41,41,41	0
56	MG	2A	3661	1/1	0.98	0.09	56,56,56,56	0
56	MG	1A	3759	1/1	0.98	0.10	36,36,36,36	0
56	MG	2q	201	1/1	0.98	0.11	55,55,55,55	0
56	MG	1a	3227	1/1	0.98	0.08	39,39,39,39	0
56	MG	2a	1661	1/1	0.98	0.08	51,51,51,51	0
56	MG	2r	101	1/1	0.98	0.07	58,58,58,58	0
56	MG	2A	3352	1/1	0.98	0.18	9,9,9,9	0
56	MG	1A	3207	1/1	0.98	0.13	22,22,22,22	0
56	MG	1F	313	1/1	0.98	0.21	20,20,20,20	0
56	MG	1A	3077	1/1	0.98	0.17	10,10,10,10	0
56	MG	1A	3762	1/1	0.98	0.07	37,37,37,37	0
56	MG	1A	3096	1/1	0.98	0.24	20,20,20,20	0
56	MG	1A	3078	1/1	0.98	0.22	30,30,30,30	0
56	MG	1A	4060	1/1	0.98	0.09	24,24,24,24	0
56	MG	1A	3597	1/1	0.98	0.11	11,11,11,11	0
56	MG	2A	3673	1/1	0.98	0.12	27,27,27,27	0
56	MG	1A	4062	1/1	0.98	0.08	21,21,21,21	0
56	MG	1A	3766	1/1	0.98	0.10	22,22,22,22	0
56	MG	1a	3008	1/1	0.98	0.10	17,17,17,17	0
56	MG	2a	1676	1/1	0.98	0.09	36,36,36,36	0
58	ZN	1Y	202	1/1	0.98	0.13	57,57,57,57	0
56	MG	1A	3146	1/1	0.98	0.10	26,26,26,26	0
58	ZN	16	105	1/1	0.98	0.19	31,31,31,31	0
56	MG	1A	3212	1/1	0.98	0.13	23,23,23,23	0
56	MG	1A	3650	1/1	0.98	0.12	13,13,13,13	0
56	MG	2a	1680	1/1	0.98	0.16	44,44,44,44	0
56	MG	2A	3519	1/1	0.98	0.11	19,19,19,19	0
56	MG	2a	1682	1/1	0.98	0.12	66,66,66,66	0
59	SF4	2d	302	8/8	0.98	0.15	45,64,68,72	0
56	MG	1a	3152	1/1	0.99	0.09	32,32,32,32	0
56	MG	1A	3834	1/1	0.99	0.12	20,20,20,20	0
56	MG	2W	201	1/1	0.99	0.16	40,40,40,40	0
56	MG	1A	3196	1/1	0.99	0.23	23,23,23,23	0
56	MG	1A	3711	1/1	0.99	0.14	10,10,10,10	0
56	MG	2A	3083	1/1	0.99	0.28	44,44,44,44	0
56	MG	1A	3668	1/1	0.99	0.10	15,15,15,15	0
56	MG	1U	210	1/1	0.99	0.37	15,15,15,15	0
56	MG	2A	3610	1/1	0.99	0.11	54,54,54,54	0
56	MG	1A	4031	1/1	0.99	0.06	21,21,21,21	0
56	MG	1A	3736	1/1	0.99	0.14	17,17,17,17	0
56	MG	1A	3262	1/1	0.99	0.28	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3344	1/1	0.99	0.07	21,21,21,21	0
56	MG	1A	3121	1/1	0.99	0.13	12,12,12,12	0
56	MG	1A	4006	1/1	0.99	0.07	15,15,15,15	0
56	MG	1A	4068	1/1	0.99	0.11	34,34,34,34	0
56	MG	1A	3672	1/1	0.99	0.11	20,20,20,20	0
56	MG	1A	4038	1/1	0.99	0.11	30,30,30,30	0
56	MG	1A	3149	1/1	0.99	0.23	19,19,19,19	0
56	MG	1E	315	1/1	0.99	0.05	23,23,23,23	0
56	MG	1a	3020	1/1	0.99	0.06	48,48,48,48	0
56	MG	1A	3021	1/1	0.99	0.15	16,16,16,16	0
56	MG	1A	3022	1/1	0.99	0.09	26,26,26,26	0
56	MG	2A	3572	1/1	0.99	0.10	34,34,34,34	0
56	MG	1A	3954	1/1	0.99	0.10	31,31,31,31	0
56	MG	1A	3636	1/1	0.99	0.13	4,4,4,4	0
56	MG	1A	3136	1/1	0.99	0.20	19,19,19,19	0
56	MG	2A	3473	1/1	0.99	0.14	46,46,46,46	0
56	MG	1A	3699	1/1	0.99	0.12	38,38,38,38	0
56	MG	2A	3236	1/1	0.99	0.26	40,40,40,40	0
56	MG	2A	3329	1/1	0.99	0.12	37,37,37,37	0
56	MG	2l	204	1/1	0.99	0.20	49,49,49,49	0
56	MG	1A	3171	1/1	0.99	0.12	10,10,10,10	0
56	MG	1A	3248	1/1	0.99	0.10	30,30,30,30	0
56	MG	2a	1671	1/1	0.99	0.11	46,46,46,46	0
56	MG	2A	3106	1/1	0.99	0.09	35,35,35,35	0
56	MG	17	102	1/1	0.99	0.10	14,14,14,14	0
56	MG	1A	3027	1/1	0.99	0.08	16,16,16,16	0
56	MG	2A	3066	1/1	0.99	0.15	28,28,28,28	0
56	MG	1A	3187	1/1	0.99	0.18	19,19,19,19	0
56	MG	1A	3340	1/1	0.99	0.10	23,23,23,23	0
56	MG	1A	3643	1/1	0.99	0.10	15,15,15,15	0
56	MG	2A	3113	1/1	0.99	0.09	36,36,36,36	0
56	MG	1A	3828	1/1	0.99	0.07	30,30,30,30	0
56	MG	1Z	303	1/1	0.99	0.10	29,29,29,29	0
56	MG	2A	3809	1/1	0.99	0.13	37,37,37,37	0
56	MG	1A	3316	1/1	0.99	0.18	20,20,20,20	0
56	MG	1A	3754	1/1	0.99	0.08	35,35,35,35	0
56	MG	2A	3647	1/1	0.99	0.21	38,38,38,38	0
56	MG	1A	3482	1/1	0.99	0.09	12,12,12,12	0
56	MG	2y	104	1/1	0.99	0.03	39,39,39,39	0
56	MG	2A	3441	1/1	0.99	0.14	41,41,41,41	0
56	MG	1A	3543	1/1	0.99	0.14	12,12,12,12	0
56	MG	2A	3705	1/1	0.99	0.21	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3253	1/1	0.99	0.31	46,46,46,46	0
58	ZN	15	108	1/1	0.99	0.19	33,33,33,33	0
56	MG	1A	3560	1/1	0.99	0.13	11,11,11,11	0
58	ZN	19	104	1/1	0.99	0.14	36,36,36,36	0
56	MG	2A	3348	1/1	0.99	0.21	26,26,26,26	0
56	MG	2A	3036	1/1	0.99	0.09	41,41,41,41	0
56	MG	2A	3037	1/1	0.99	0.12	48,48,48,48	0
58	ZN	25	104	1/1	0.99	0.17	44,44,44,44	0
58	ZN	26	103	1/1	0.99	0.17	55,55,55,55	0
56	MG	2A	3448	1/1	0.99	0.18	34,34,34,34	0
56	MG	2a	1814	1/1	0.99	0.13	26,26,26,26	0
59	SF4	1d	302	8/8	0.99	0.15	39,58,69,70	0
56	MG	2U	202	1/1	0.99	0.22	48,48,48,48	0

6.5 Other polymers [i](#)

There are no such residues in this entry.