Full wwPDB X-ray Structure Validation Report (i)

Feb 15, 2024 – 04:24 PM EST

PDB ID	:	8UD7
Title	:	Crystal structure of the A2058-N6-dimethylated Thermus thermophilus 70S ribosome in complex with cresomycin, mRNA, deacylated A-site tRNAphe, aminoacylated P-site fMet-tRNAmet, and deacylated E-site tRNAphe at 2.70A resolution
Authors	:	Aleksandrova, E.V.; Syroegin, E.A.; Wu, K.J.Y.; Tresco, B.I.C.; Ramkissoon, A.; See, D.N.Y.; Liow, P.; Dittemore, G.A.; Yu, M.; Testolin, G.; Mitcheltree, M.J.; Liu, R.Y.; Svetlov, M.S.; Myers, A.G.; Polikanov, Y.S.
Deposited on	:	2023-09-28
Resolution	:	2.55 Å(reported)

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

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

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

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

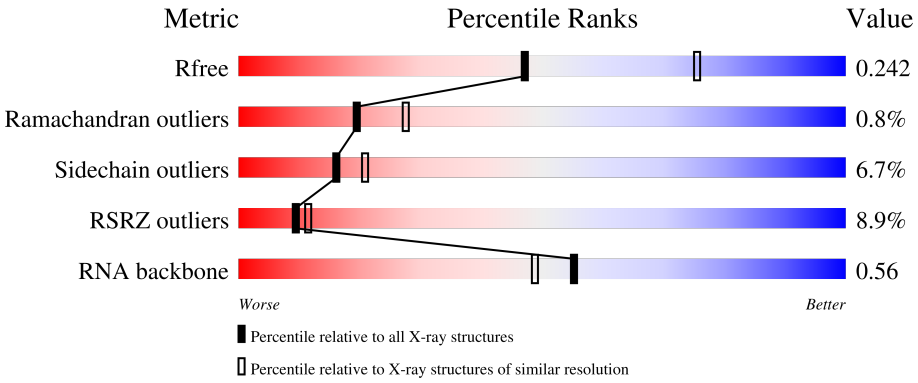
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)

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 2.55 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	1284 (2.56-2.52)
Ramachandran outliers	138981	1315 (2.56-2.52)
Sidechain outliers	138945	1315 (2.56-2.52)
RSRZ outliers	127900	1272 (2.56-2.52)
RNA backbone	3102	1026 (2.88-2.20)

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

Mol	Chain	Length	Quality of chain
1	1A	2915	4% 83% 15%
1	2A	2915	4% 81% 15%
2	1B	121	91% 8%

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Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

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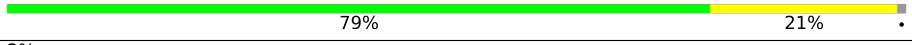
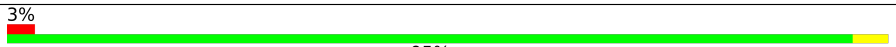
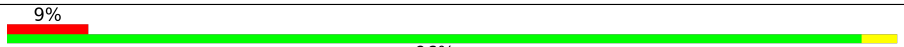
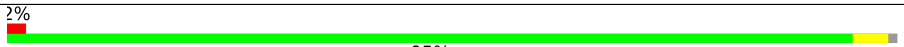
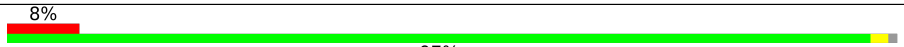
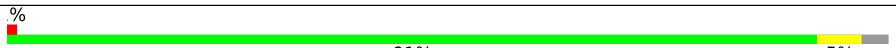
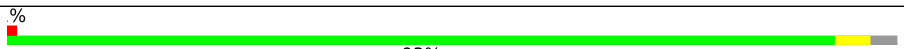
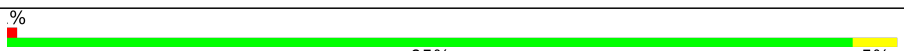
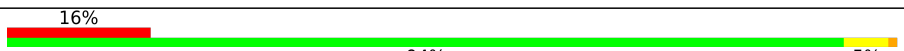
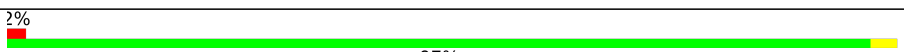
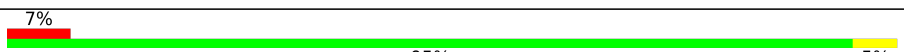
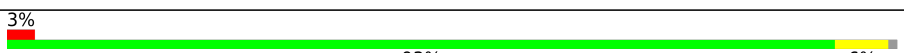
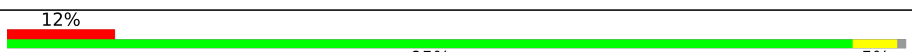
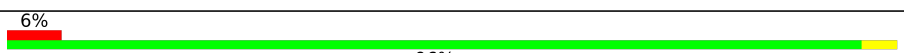
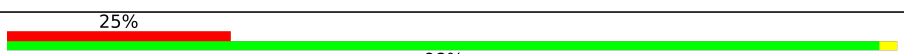
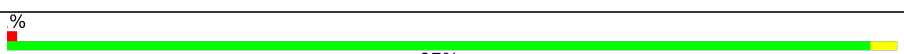
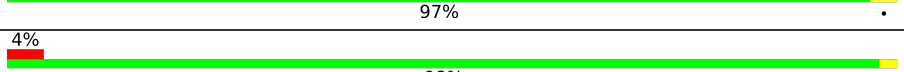
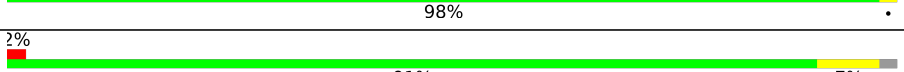
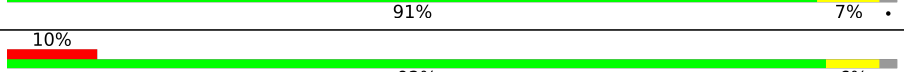
Mol	Chain	Length	Quality of chain
2	2B	121	
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141	
13	1R	118	
13	2R	118	
14	1S	112	
14	2S	112	

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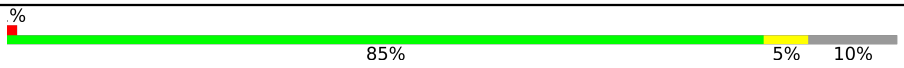
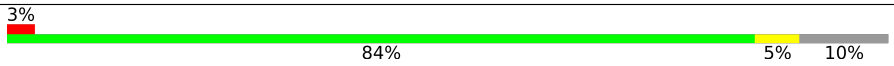
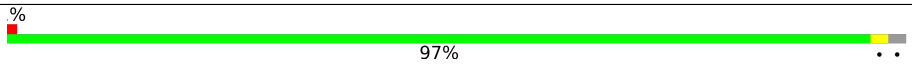
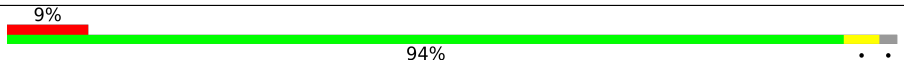
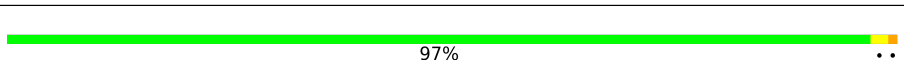
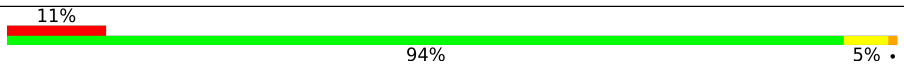
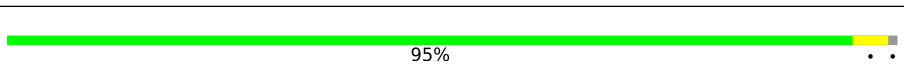
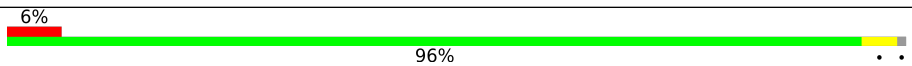
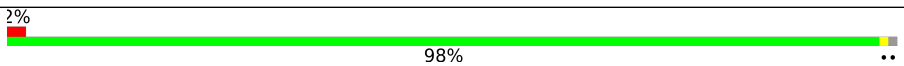
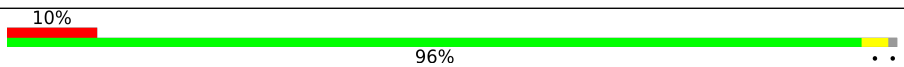
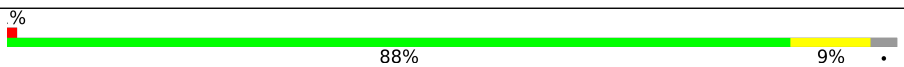
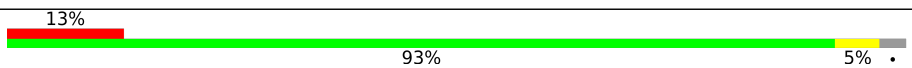
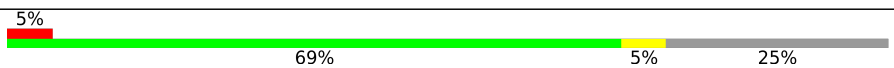
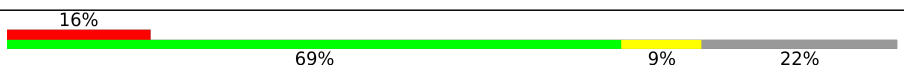
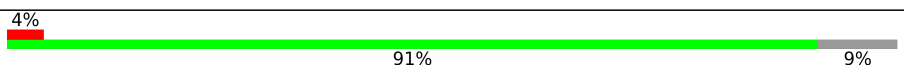
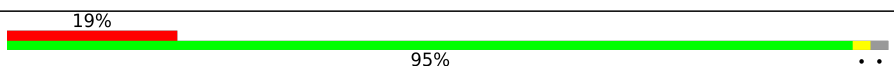
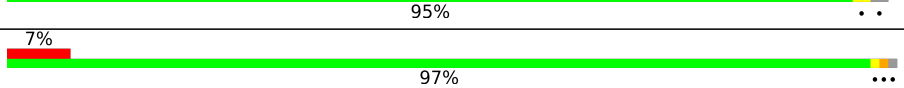
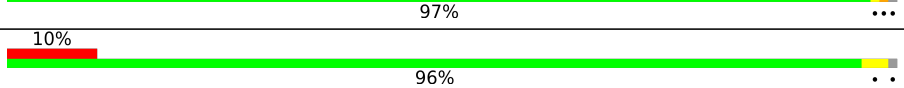
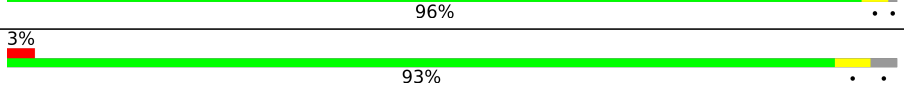
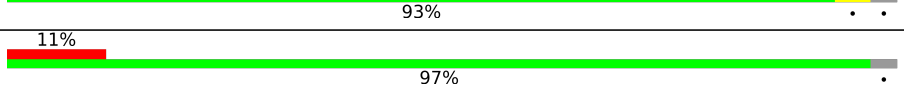
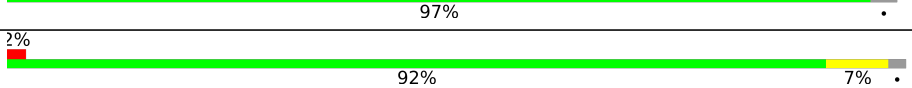
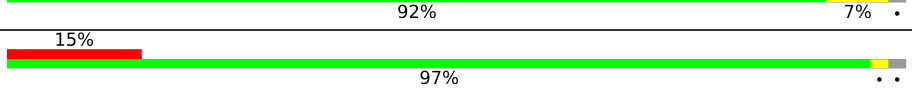
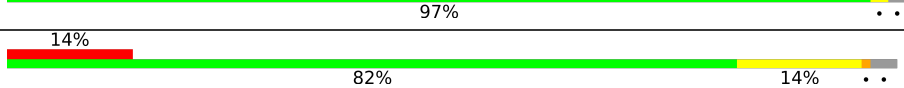
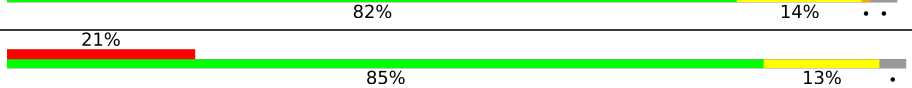
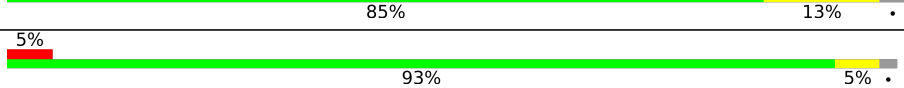
Mol	Chain	Length	Quality of chain
15	1T	146	
15	2T	146	
16	1U	118	
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25	13	60	
25	23	60	
26	14	71	
26	24	71	
27	15	60	

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Mol	Chain	Length	Quality of chain
27	25	60	3% 92% 7%
28	16	54	93% 6%
28	26	54	6% 91% 7%
29	17	49	12% 92% 6%
29	27	49	14% 90% 8%
30	18	65	3% 92% 6%
30	28	65	14% 94% 5%
31	19	37	3% 97%
31	29	37	35% 100%
32	1a	1521	3% 84% 15%
32	2a	1521	5% 82% 17%
33	1b	256	15% 79% 11% 10%
33	2b	256	20% 75% 15% 10%
34	1c	239	19% 82% 14%
34	2c	239	27% 79% 6% 14%
35	1d	209	15% 93% 7%
35	2d	209	7% 93% 7%
36	1e	162	7% 85% 6% 9%
36	2e	162	17% 85% 6% 9%
37	1f	101	2% 90% 9%
37	2f	101	2% 95%
38	1g	156	10% 92% 8%
38	2g	156	19% 94% 6%
39	1h	138	7% 95%
39	2h	138	22% 95%

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Mol	Chain	Length	Quality of chain
40	1i	128	34% 94% 5%
40	2i	128	54% 91% 8%
41	1j	105	33% 84% 9% 8%
41	2j	105	41% 80% 10% 9%
42	1k	129	9% 85% 12%
42	2k	129	8% 82% 6% 12%
43	1l	132	6% 87% 5% 8%
43	2l	132	20% 88% 5% 8%
44	1m	126	15% 89% 9%
44	2m	126	26% 89% 7%
45	1n	61	34% 90% 8%
45	2n	61	82% 93% 5%
46	1o	89	8% 96%
46	2o	89	9% 94%
47	1p	88	11% 83% 10% 7%
47	2p	88	6% 84% 9% 7%
48	1q	105	11% 87% 8% 6%
48	2q	105	28% 90% 6%
49	1r	88	6% 72% 6% 23%
49	2r	88	9% 72% 6% 23%
50	1s	93	8% 85% 11%
50	2s	93	32% 82% 8% 11%
51	1t	106	12% 85% 6% 9%
51	2t	106	13% 83% 8% 9%
52	1u	27	41% 85% 15%

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Mol	Chain	Length	Quality of chain
52	2u	27	67% 85% 15%
53	1v	24	17% 50% 46%
53	2v	24	25% 46% 8% 46%
54	1w	76	13% 63% 30% 5%
54	1y	76	13% 59% 34%
54	2w	76	18% 58% 30% 9%
54	2y	76	25% 63% 30%
55	1x	77	% 77% 22%
55	2x	77	5% 78% 21%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	18	101	-	-	-	X
56	MG	18	104	-	-	-	X
56	MG	1A	3264	-	-	-	X
56	MG	1A	3362	-	-	-	X
56	MG	1A	3366	-	-	-	X
56	MG	1A	3390	-	-	-	X
56	MG	1A	3396	-	-	-	X
56	MG	1A	3403	-	-	-	X
56	MG	1A	3416	-	-	-	X
56	MG	1A	3437	-	-	-	X
56	MG	1A	3498	-	-	-	X
56	MG	1A	3966	-	-	-	X
56	MG	1A	4061	-	-	-	X
56	MG	2A	3065	-	-	-	X
56	MG	2A	3088	-	-	-	X
56	MG	2A	3210	-	-	-	X
56	MG	2A	3225	-	-	-	X
56	MG	2A	3237	-	-	-	X
56	MG	2A	3248	-	-	-	X
56	MG	2A	3254	-	-	-	X
56	MG	2A	3277	-	-	-	X
56	MG	2A	3279	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	2A	3303	-	-	-	X
56	MG	2A	3305	-	-	-	X
56	MG	2A	3316	-	-	-	X
56	MG	2A	3363	-	-	-	X
56	MG	2A	3425	-	-	-	X
56	MG	2A	3429	-	-	-	X
56	MG	2A	3584	-	-	-	X
56	MG	2a	1622	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 299373 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 23S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2871	Total	C	N	O	P	0	0	0
			61854	27533	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60324	26850	11284	19390	2800			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			
22	20	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 53 is a RNA chain called MF-mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			
53	2v	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	72	Total	C	N	O	P	S	0	0	0
			1550	694	277	505	72	2			
54	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
54	2w	69	Total	C	N	O	P	S	0	0	0
			1482	662	267	482	69	2			
54	2y	73	Total	C	N	O	P	S	0	0	0
			1565	698	283	510	73	1			

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
55	1x	76	Total	C	N	O	P	S	0	0	0
			1635	731	296	530	76	2			
55	2x	76	Total	C	N	O	P	S	0	0	0
			1635	731	296	530	76	2			

- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1097	Total	Mg	0	0
			1097	1097		
56	1B	36	Total	Mg	0	0
			36	36		
56	1D	11	Total	Mg	0	0
			11	11		
56	1E	18	Total	Mg	0	0
			18	18		
56	1F	13	Total	Mg	0	0
			13	13		
56	1G	4	Total	Mg	0	0
			4	4		
56	1I	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	1N	6	Total Mg 6 6	0	0
56	1O	6	Total Mg 6 6	0	0
56	1P	5	Total Mg 5 5	0	0
56	1Q	7	Total Mg 7 7	0	0
56	1R	8	Total Mg 8 8	0	0
56	1S	3	Total Mg 3 3	0	0
56	1T	2	Total Mg 2 2	0	0
56	1U	10	Total Mg 10 10	0	0
56	1V	7	Total Mg 7 7	0	0
56	1W	4	Total Mg 4 4	0	0
56	1X	7	Total Mg 7 7	0	0
56	1Y	3	Total Mg 3 3	0	0
56	1Z	3	Total Mg 3 3	0	0
56	10	9	Total Mg 9 9	0	0
56	11	5	Total Mg 5 5	0	0
56	12	2	Total Mg 2 2	0	0
56	13	4	Total Mg 4 4	0	0
56	14	1	Total Mg 1 1	0	0
56	15	8	Total Mg 8 8	0	0
56	16	1	Total Mg 1 1	0	0
56	17	5	Total Mg 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	18	6	Total Mg 6 6	0	0
56	19	1	Total Mg 1 1	0	0
56	1a	196	Total Mg 196 196	0	0
56	1b	1	Total Mg 1 1	0	0
56	1d	1	Total Mg 1 1	0	0
56	1e	1	Total Mg 1 1	0	0
56	1f	1	Total Mg 1 1	0	0
56	1l	2	Total Mg 2 2	0	0
56	1m	2	Total Mg 2 2	0	0
56	1n	2	Total Mg 2 2	0	0
56	1r	1	Total Mg 1 1	0	0
56	1t	1	Total Mg 1 1	0	0
56	1w	5	Total Mg 5 5	0	0
56	1x	14	Total Mg 14 14	0	0
56	1y	1	Total Mg 1 1	0	0
56	2A	808	Total Mg 808 808	0	0
56	2B	15	Total Mg 15 15	0	0
56	2D	6	Total Mg 6 6	0	0
56	2E	8	Total Mg 8 8	0	0
56	2F	7	Total Mg 7 7	0	0
56	2G	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2N	1	Total Mg 1 1	0	0
56	2O	1	Total Mg 1 1	0	0
56	2P	1	Total Mg 1 1	0	0
56	2Q	3	Total Mg 3 3	0	0
56	2R	3	Total Mg 3 3	0	0
56	2T	4	Total Mg 4 4	0	0
56	2U	1	Total Mg 1 1	0	0
56	2V	2	Total Mg 2 2	0	0
56	2W	5	Total Mg 5 5	0	0
56	2X	2	Total Mg 2 2	0	0
56	20	4	Total Mg 4 4	0	0
56	21	1	Total Mg 1 1	0	0
56	23	1	Total Mg 1 1	0	0
56	25	4	Total Mg 4 4	0	0
56	27	3	Total Mg 3 3	0	0
56	28	3	Total Mg 3 3	0	0
56	2a	230	Total Mg 230 230	0	0
56	2d	2	Total Mg 2 2	0	0
56	2e	1	Total Mg 1 1	0	0
56	2f	2	Total Mg 2 2	0	0
56	2j	1	Total Mg 1 1	0	0

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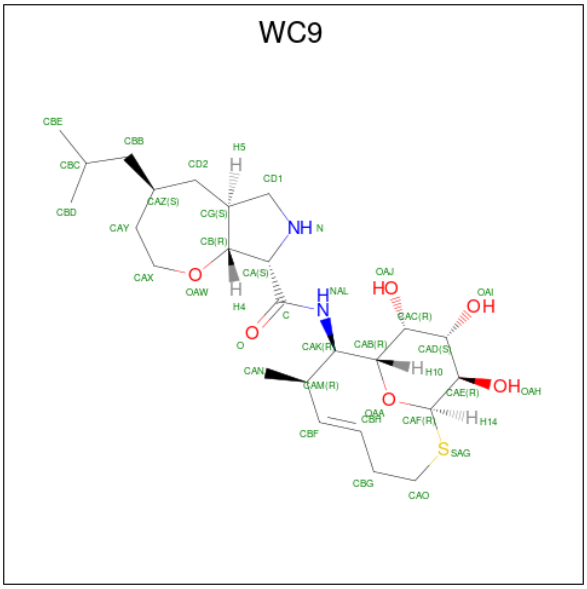
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2l	4	Total Mg 4 4	0	0
56	2q	2	Total Mg 2 2	0	0
56	2r	1	Total Mg 1 1	0	0
56	2t	1	Total Mg 1 1	0	0
56	2v	3	Total Mg 3 3	0	0
56	2w	4	Total Mg 4 4	0	0
56	2x	5	Total Mg 5 5	0	0
56	2y	3	Total Mg 3 3	0	0

- Molecule 57 is (4S,5aS,8S,8aR)-4-(2-methylpropyl)-N-[(1R,5Z,7R,8R,9R,10R,11S,12R)-10,11,12-trihydroxy-7-methyl-13-oxa-2-thiabicyclo[7.3.1]tridec-5-en-8-yl]octahydro-2H-oxepino[2,3-c]pyrrole-8-carboxamide (non-preferred name) (three-letter code: WC9) (formula: $C_{25}H_{42}N_2O_6S$) (labeled as "Ligand of Interest" by depositor).

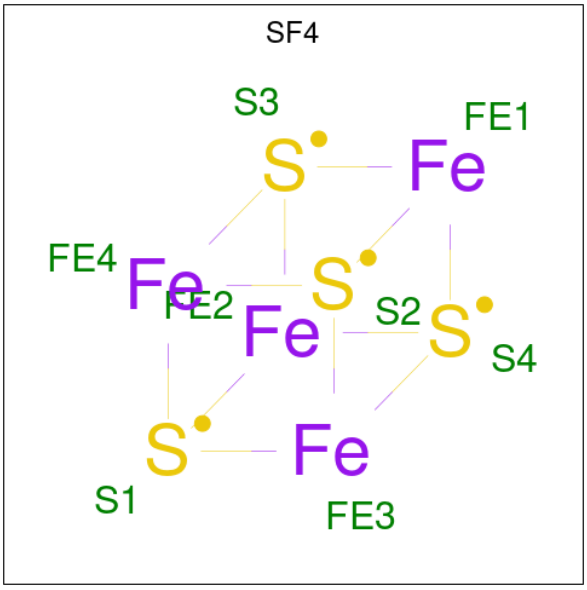


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	1A	1	Total C N O S 34 25 2 6 1	0	0
57	2A	1	Total C N O S 34 25 2 6 1	0	0

- Molecule 58 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1Y	1	Total Zn 1 1	0	0
58	14	1	Total Zn 1 1	0	0
58	15	1	Total Zn 1 1	0	0
58	16	1	Total Zn 1 1	0	0
58	19	1	Total Zn 1 1	0	0
58	1n	1	Total Zn 1 1	0	0
58	2Y	1	Total Zn 1 1	0	0
58	24	1	Total Zn 1 1	0	0
58	25	1	Total Zn 1 1	0	0
58	26	1	Total Zn 1 1	0	0
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: Fe_4S_4).



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 POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1x	1	Total K 1 1	0	0
60	2x	1	Total K 1 1	0	0

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1899	Total O 1899 1899	0	0
61	1B	59	Total O 59 59	0	0
61	1D	27	Total O 27 27	0	0
61	1E	26	Total O 26 26	0	0
61	1F	16	Total O 16 16	0	0
61	1G	1	Total O 1 1	0	0
61	1H	2	Total O 2 2	0	0
61	1N	6	Total O 6 6	0	0
61	1O	5	Total O 5 5	0	0
61	1P	22	Total O 22 22	0	0
61	1Q	8	Total O 8 8	0	0
61	1R	9	Total O 9 9	0	0
61	1S	3	Total O 3 3	0	0
61	1T	8	Total O 8 8	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1U	14	Total O 14 14	0	0
61	1V	8	Total O 8 8	0	0
61	1W	8	Total O 8 8	0	0
61	1X	4	Total O 4 4	0	0
61	1Y	3	Total O 3 3	0	0
61	1Z	1	Total O 1 1	0	0
61	10	9	Total O 9 9	0	0
61	11	8	Total O 8 8	0	0
61	12	3	Total O 3 3	0	0
61	13	3	Total O 3 3	0	0
61	14	1	Total O 1 1	0	0
61	15	4	Total O 4 4	0	0
61	16	2	Total O 2 2	0	0
61	17	12	Total O 12 12	0	0
61	18	9	Total O 9 9	0	0
61	1a	263	Total O 263 263	0	0
61	1b	1	Total O 1 1	0	0
61	1d	2	Total O 2 2	0	0
61	1f	1	Total O 1 1	0	0
61	1g	1	Total O 1 1	0	0
61	1l	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1n	1	Total O 1 1	0	0
61	1q	2	Total O 2 2	0	0
61	1v	5	Total O 5 5	0	0
61	1w	7	Total O 7 7	0	0
61	1x	10	Total O 10 10	0	0
61	1y	1	Total O 1 1	0	0
61	2A	974	Total O 974 974	0	0
61	2B	14	Total O 14 14	0	0
61	2D	19	Total O 19 19	0	0
61	2E	11	Total O 11 11	0	0
61	2F	10	Total O 10 10	0	0
61	2N	1	Total O 1 1	0	0
61	2O	2	Total O 2 2	0	0
61	2P	9	Total O 9 9	0	0
61	2Q	1	Total O 1 1	0	0
61	2R	4	Total O 4 4	0	0
61	2T	4	Total O 4 4	0	0
61	2U	2	Total O 2 2	0	0
61	2X	2	Total O 2 2	0	0
61	20	4	Total O 4 4	0	0
61	21	7	Total O 7 7	0	0

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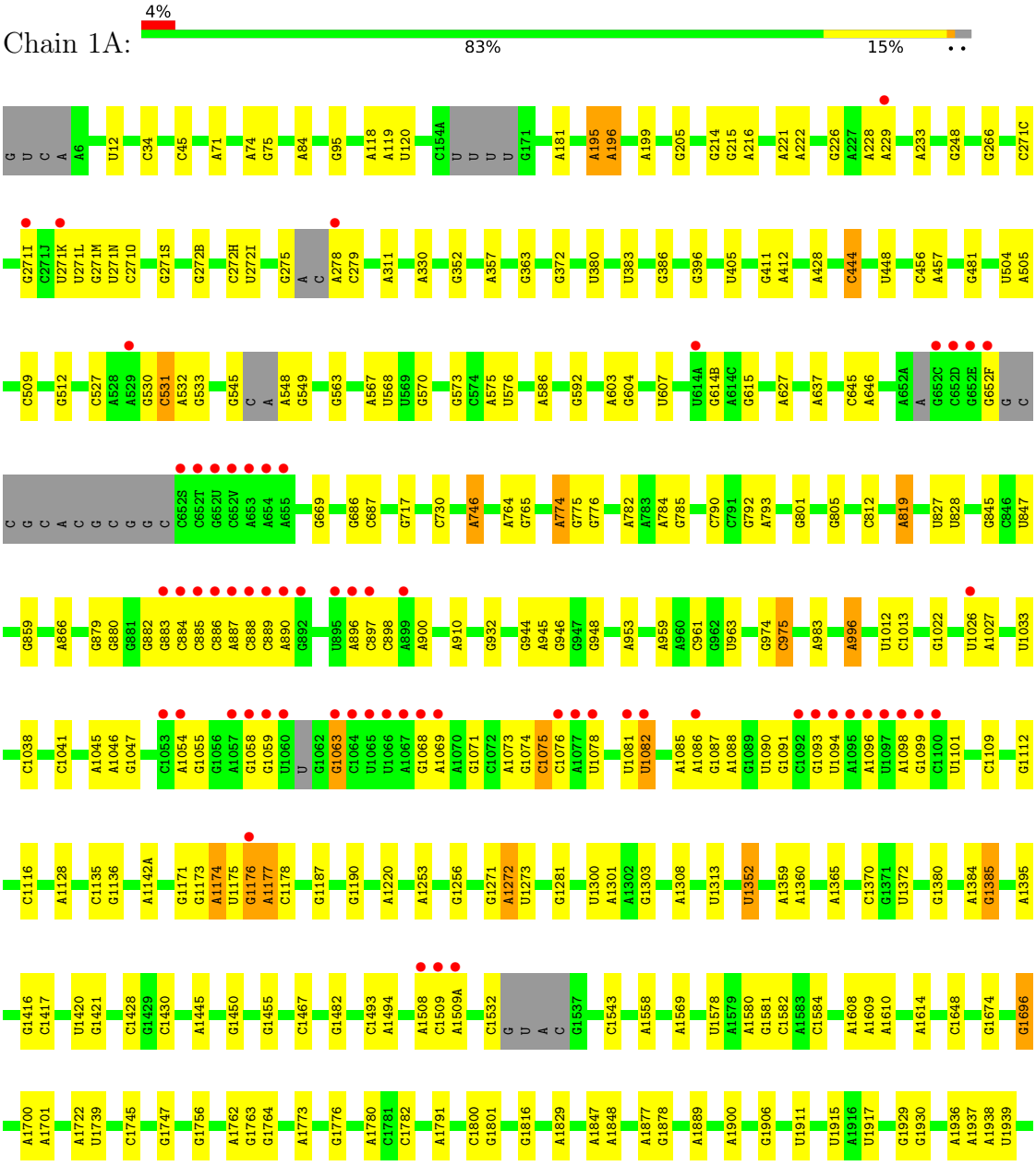
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	23	2	Total O 2 2	0	0
61	27	4	Total O 4 4	0	0
61	28	3	Total O 3 3	0	0
61	29	1	Total O 1 1	0	0
61	2a	184	Total O 184 184	0	0
61	2e	1	Total O 1 1	0	0
61	2g	1	Total O 1 1	0	0
61	2j	3	Total O 3 3	0	0
61	2l	3	Total O 3 3	0	0
61	2t	1	Total O 1 1	0	0
61	2v	1	Total O 1 1	0	0
61	2x	4	Total O 4 4	0	0
61	2y	2	Total O 2 2	0	0

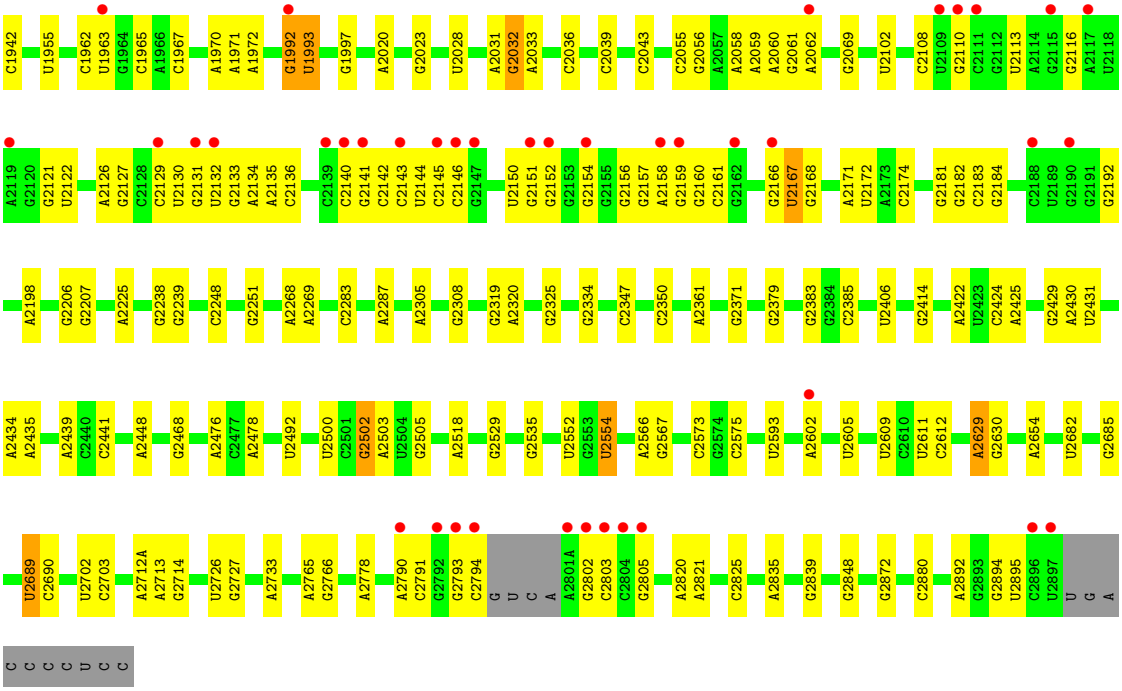
3 Residue-property plots (i)

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

- Molecule 1: 23S Ribosomal RNA

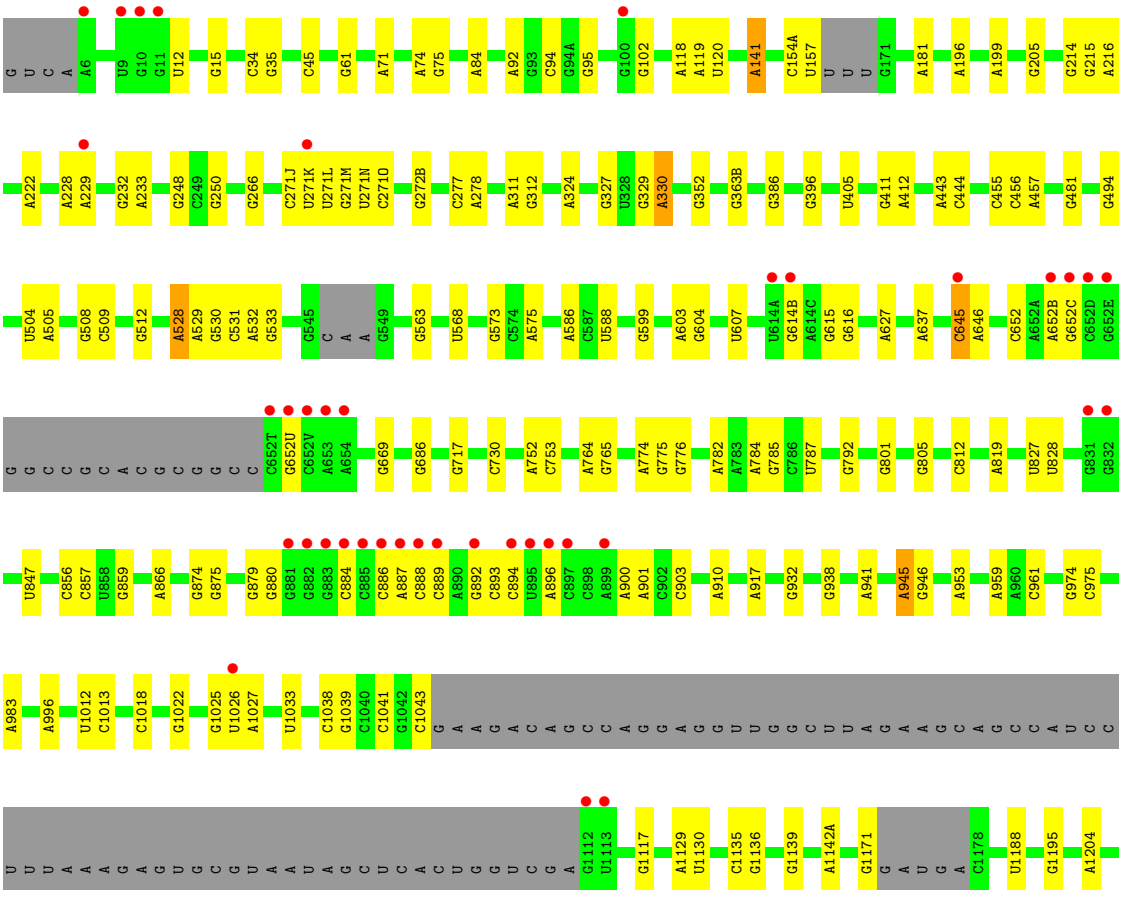
Chain 1A:

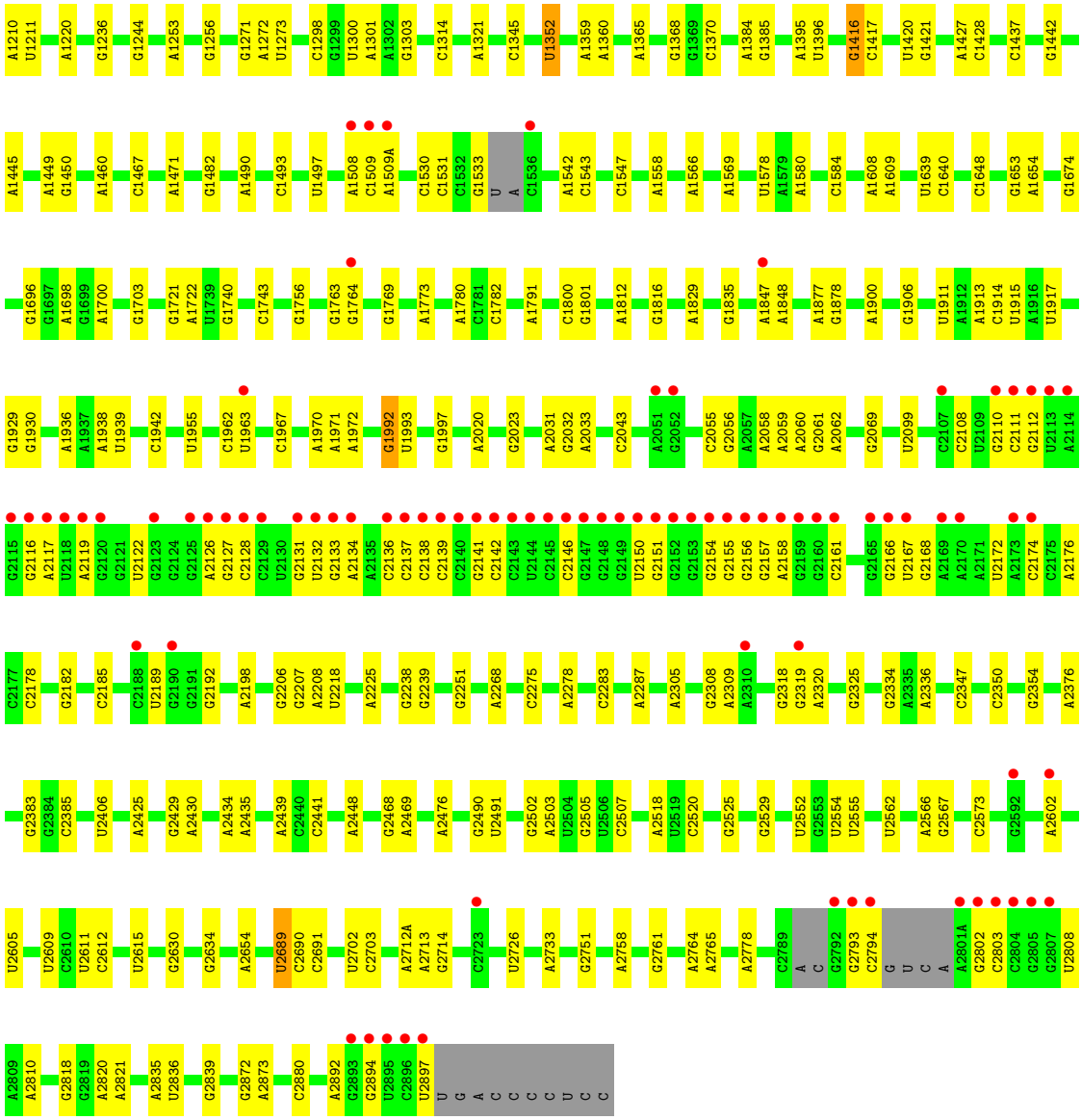




• Molecule 1: 23S Ribosomal RNA

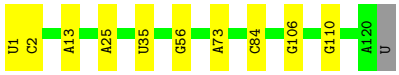
Chain 2A:





• Molecule 2: 5S Ribosomal RNA

Chain 1B:

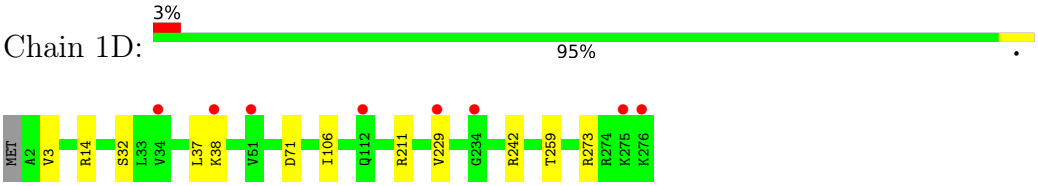


• Molecule 2: 5S Ribosomal RNA

Chain 2B:

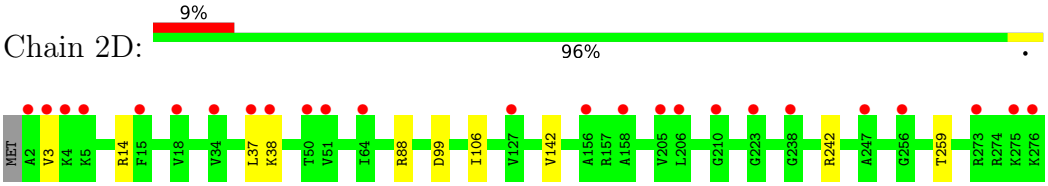
• Molecule 3: 50S ribosomal protein L2

Chain 1D:



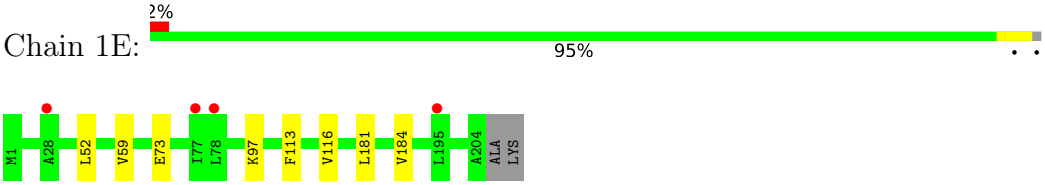
• Molecule 3: 50S ribosomal protein L2

Chain 2D:



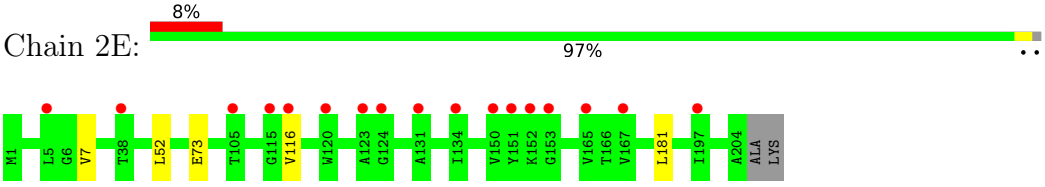
• Molecule 4: 50S ribosomal protein L3

Chain 1E:



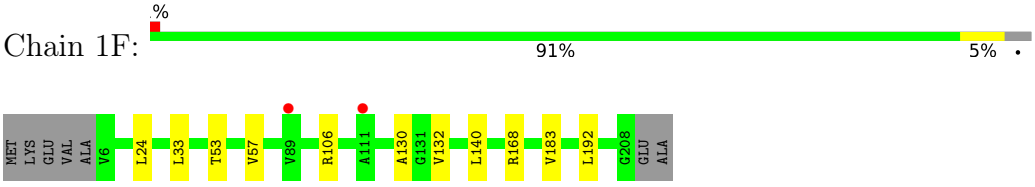
• Molecule 4: 50S ribosomal protein L3

Chain 2E:



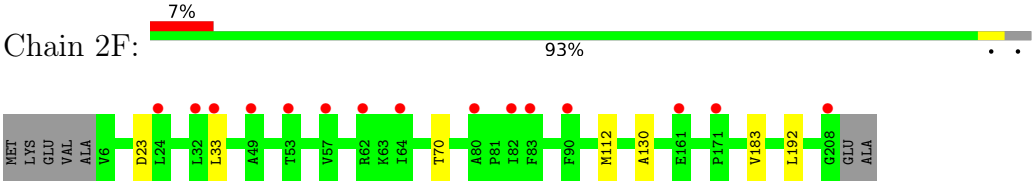
• Molecule 5: 50S ribosomal protein L4

Chain 1F:



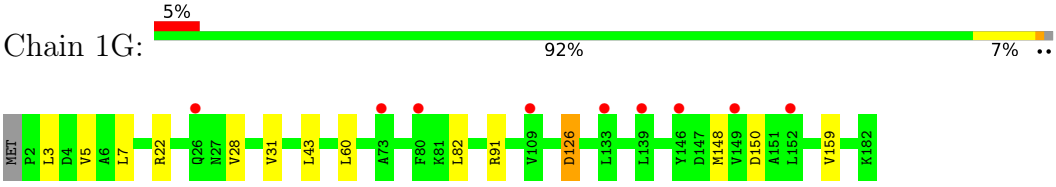
• Molecule 5: 50S ribosomal protein L4

Chain 2F:



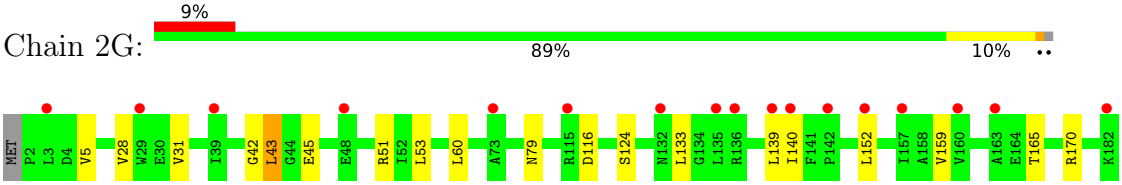
• Molecule 6: 50S ribosomal protein L5

Chain 1G:



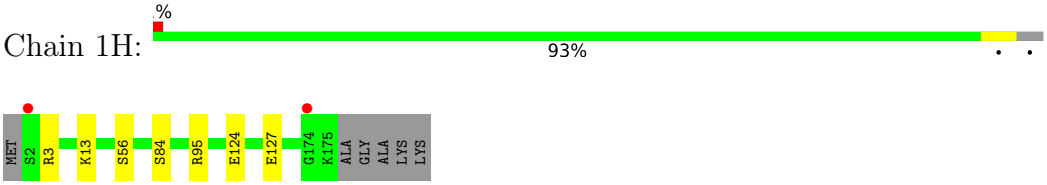
• Molecule 6: 50S ribosomal protein L5

Chain 2G:



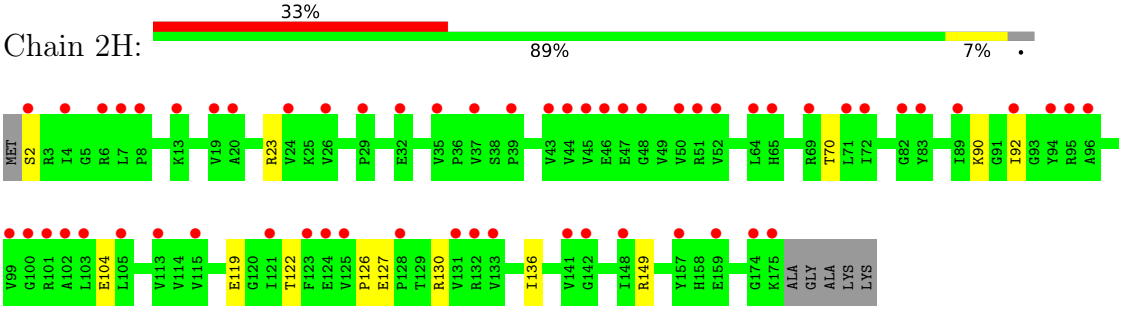
• Molecule 7: 50S ribosomal protein L6

Chain 1H:



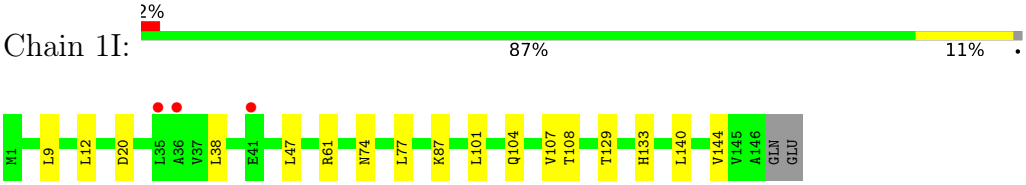
• Molecule 7: 50S ribosomal protein L6

Chain 2H:



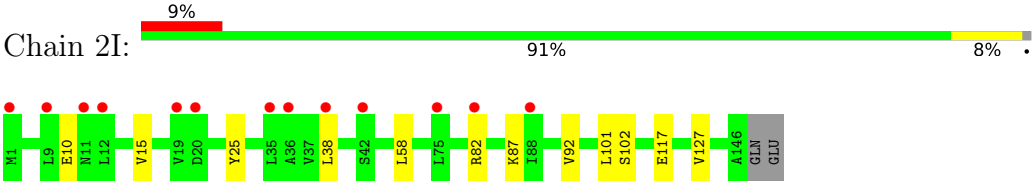
• Molecule 8: 50S ribosomal protein L9

Chain 1I:



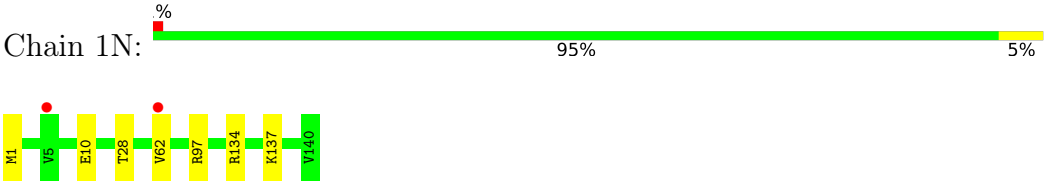
• Molecule 8: 50S ribosomal protein L9

Chain 2I:



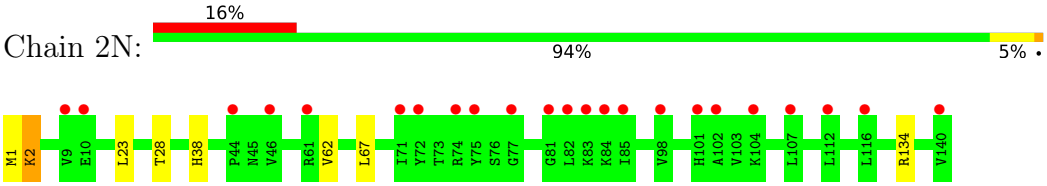
• Molecule 9: 50S ribosomal protein L13

Chain 1N:



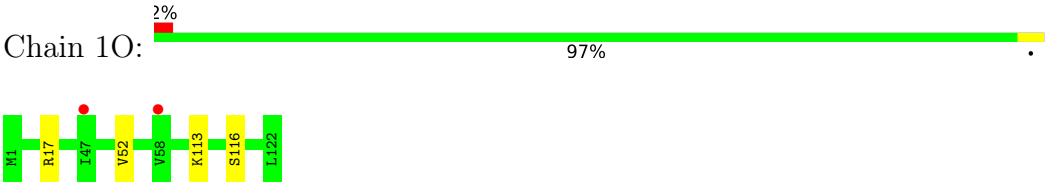
• Molecule 9: 50S ribosomal protein L13

Chain 2N:



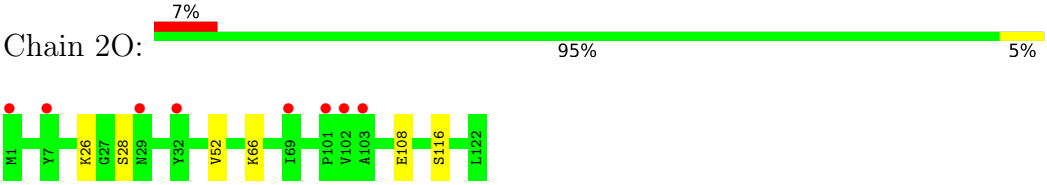
• Molecule 10: 50S ribosomal protein L14

Chain 1O:



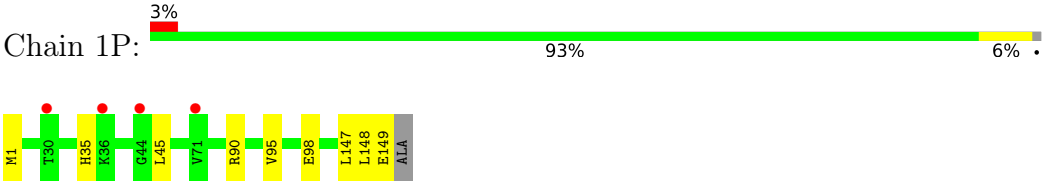
• Molecule 10: 50S ribosomal protein L14

Chain 2O:



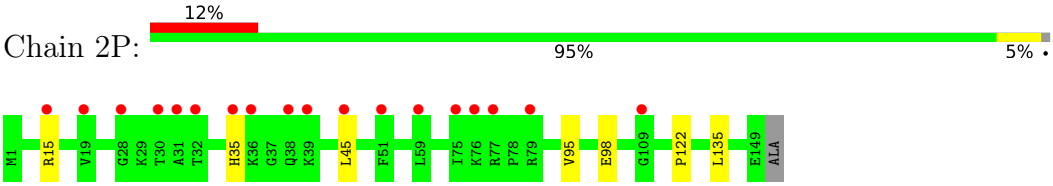
• Molecule 11: 50S ribosomal protein L15

Chain 1P:



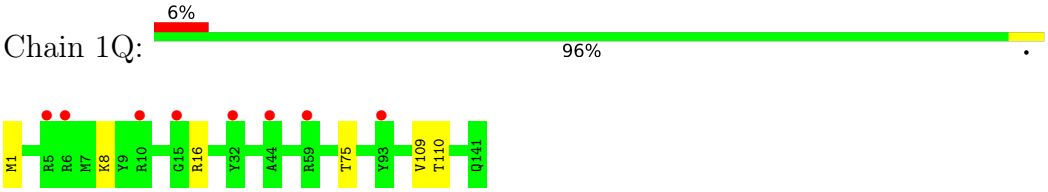
• Molecule 11: 50S ribosomal protein L15

Chain 2P:



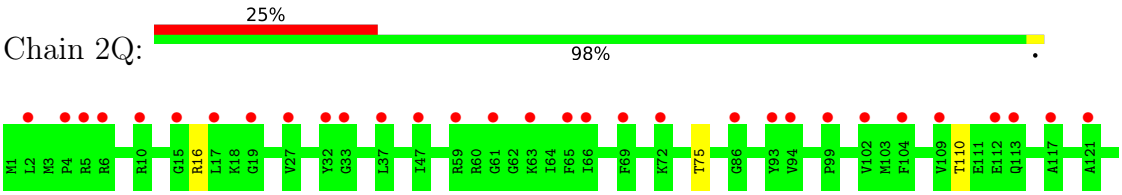
• Molecule 12: 50S ribosomal protein L16

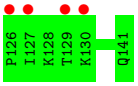
Chain 1Q:



• Molecule 12: 50S ribosomal protein L16

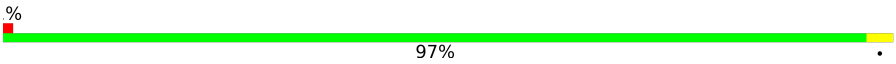
Chain 2Q:

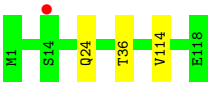




• Molecule 13: 50S ribosomal protein L17

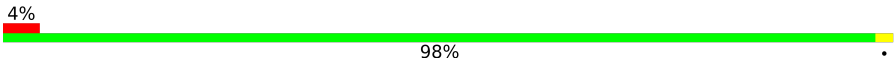
Chain 1R:

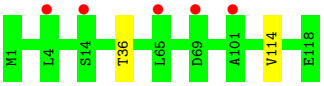




• Molecule 13: 50S ribosomal protein L17

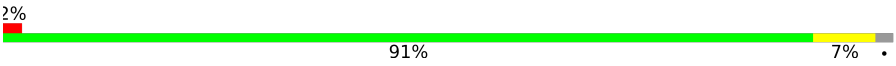
Chain 2R:

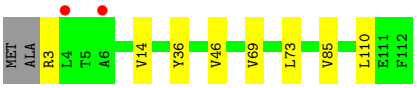




• Molecule 14: 50S ribosomal protein L18

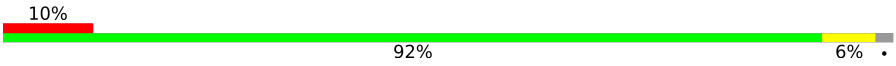
Chain 1S:





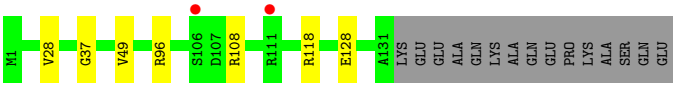
• Molecule 14: 50S ribosomal protein L18

Chain 2S:



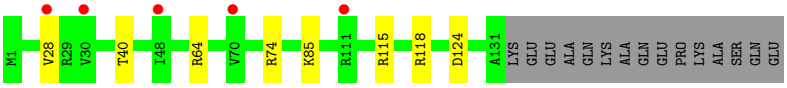
• Molecule 15: 50S ribosomal protein L19

Chain 1T:



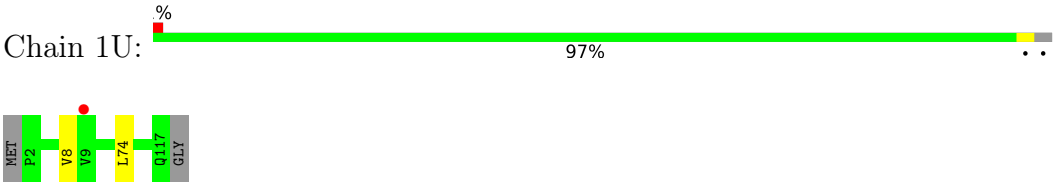
• Molecule 15: 50S ribosomal protein L19

Chain 2T:



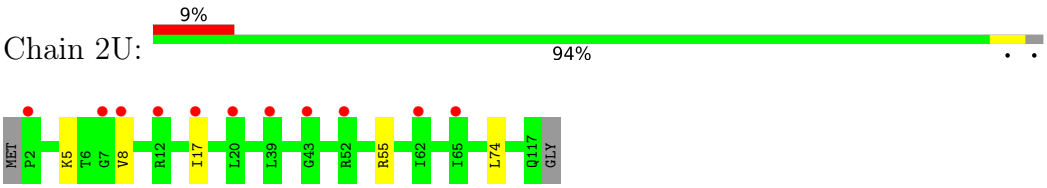
• Molecule 16: 50S ribosomal protein L20

Chain 1U:



• Molecule 16: 50S ribosomal protein L20

Chain 2U:

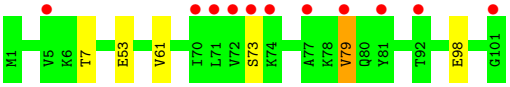


• Molecule 17: 50S ribosomal protein L21

Chain 1V:

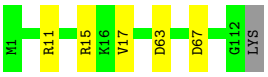
• Molecule 17: 50S ribosomal protein L21

Chain 2V:



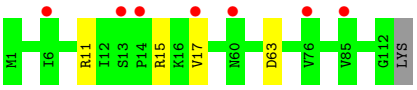
• Molecule 18: 50S ribosomal protein L22

Chain 1W:



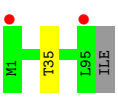
• Molecule 18: 50S ribosomal protein L22

Chain 2W:



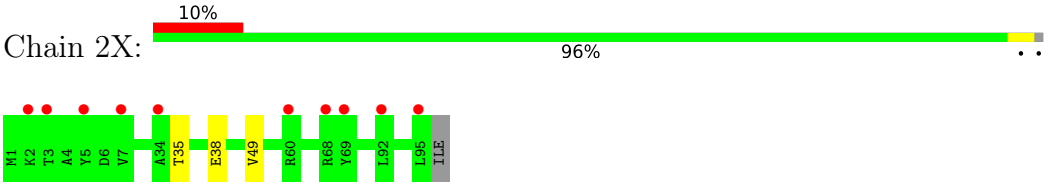
• Molecule 19: 50S ribosomal protein L23

Chain 1X:



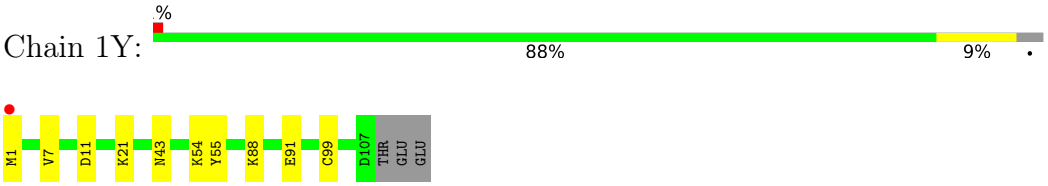
• Molecule 19: 50S ribosomal protein L23

Chain 2X:



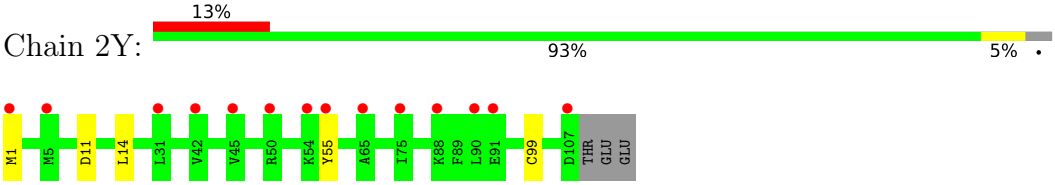
• Molecule 20: 50S ribosomal protein L24

Chain 1Y:



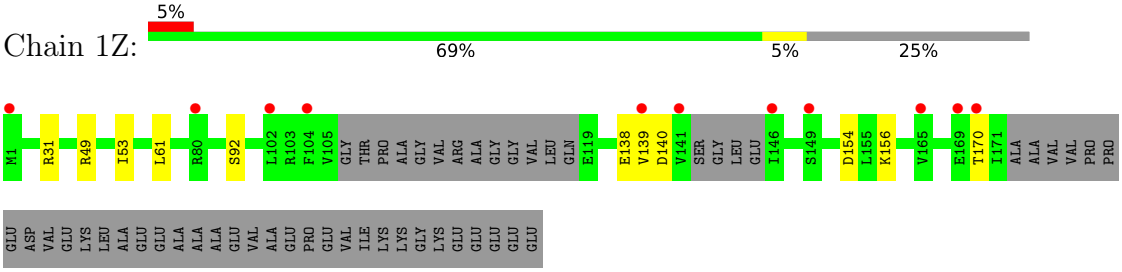
• Molecule 20: 50S ribosomal protein L24

Chain 2Y:



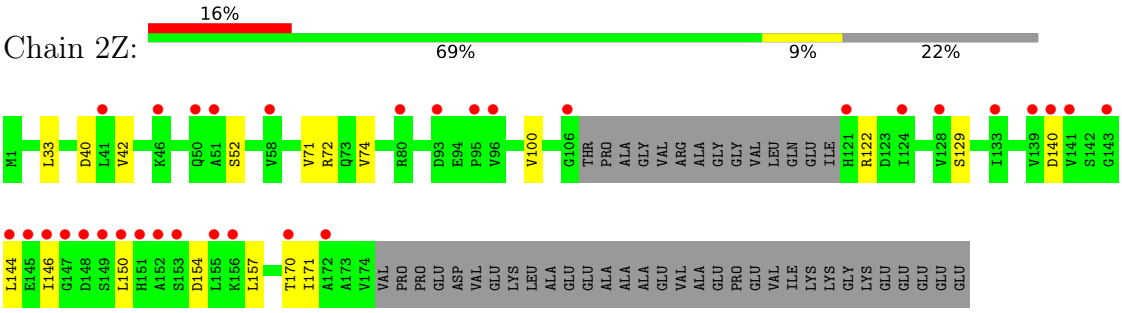
• Molecule 21: 50S ribosomal protein L25

Chain 1Z:



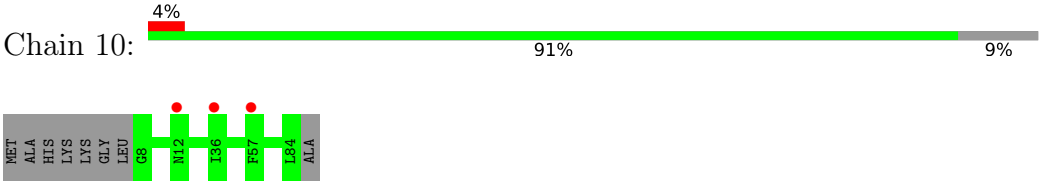
• Molecule 21: 50S ribosomal protein L25

Chain 2Z:



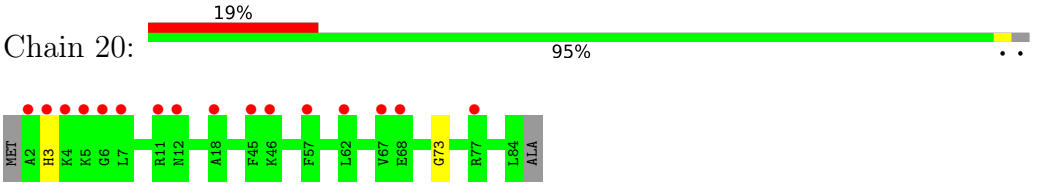
• Molecule 22: 50S ribosomal protein L27

Chain 10:



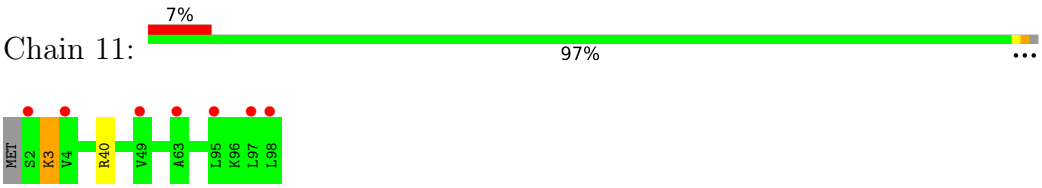
• Molecule 22: 50S ribosomal protein L27

Chain 20:



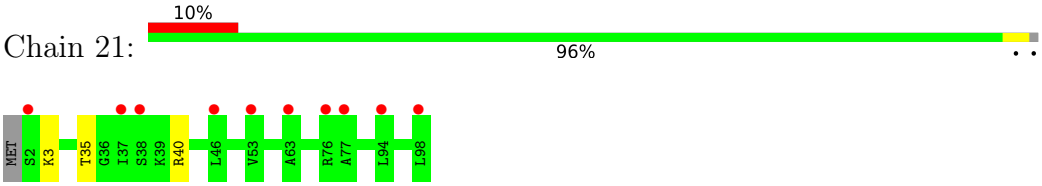
• Molecule 23: 50S ribosomal protein L28

Chain 11:



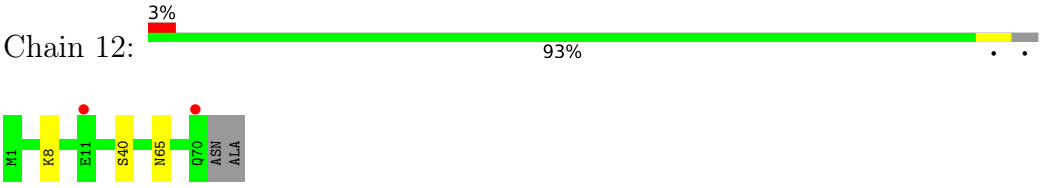
• Molecule 23: 50S ribosomal protein L28

Chain 21:



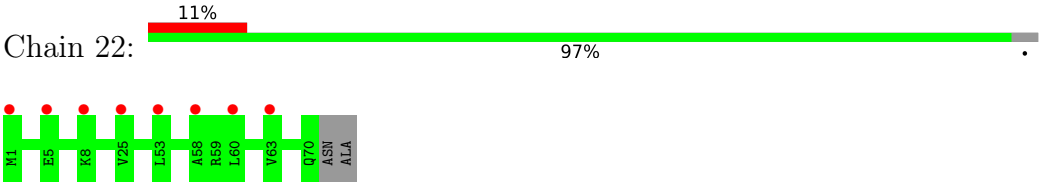
• Molecule 24: 50S ribosomal protein L29

Chain 12:



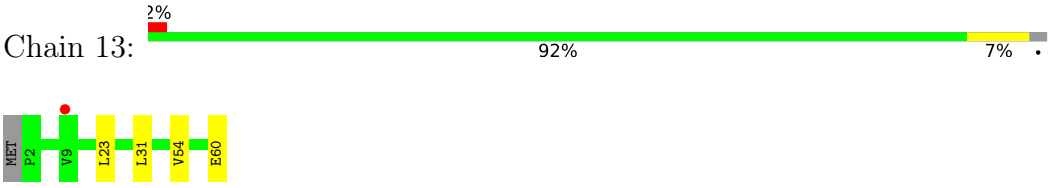
• Molecule 24: 50S ribosomal protein L29

Chain 22:



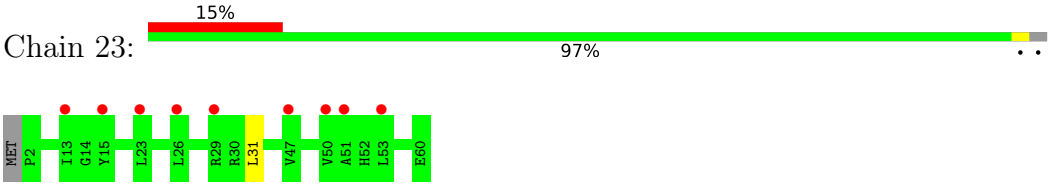
• Molecule 25: 50S ribosomal protein L30

Chain 13:



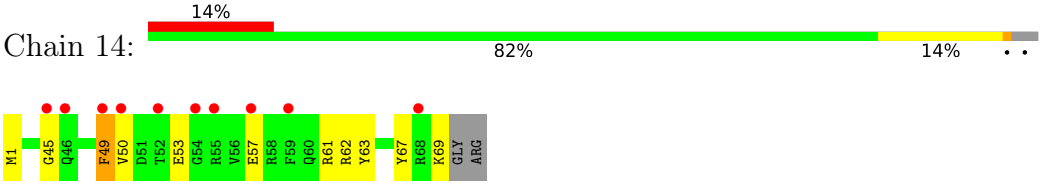
• Molecule 25: 50S ribosomal protein L30

Chain 23:



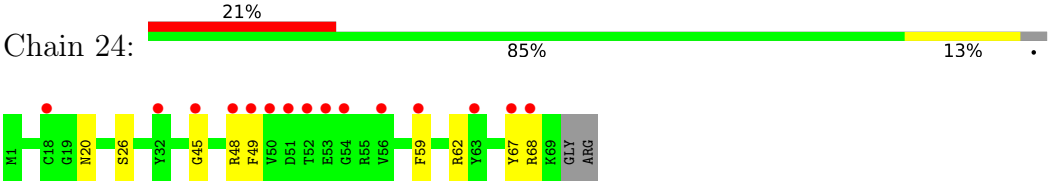
• Molecule 26: 50S ribosomal protein L31

Chain 14:



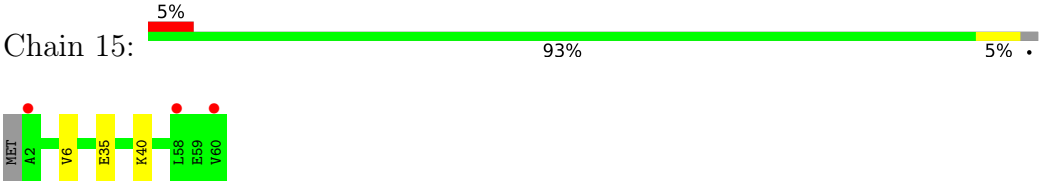
• Molecule 26: 50S ribosomal protein L31

Chain 24:



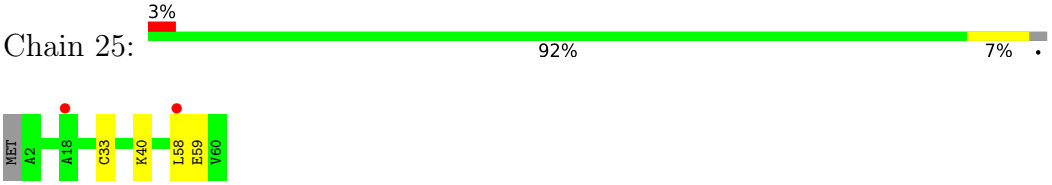
• Molecule 27: 50S ribosomal protein L32

Chain 15:



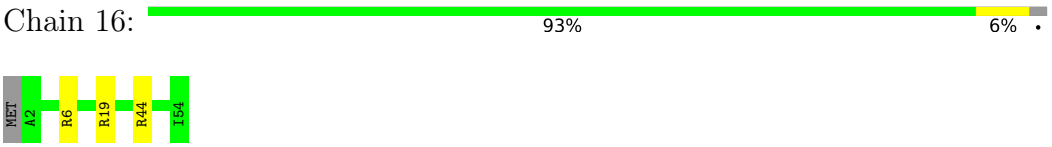
• Molecule 27: 50S ribosomal protein L32

Chain 25:



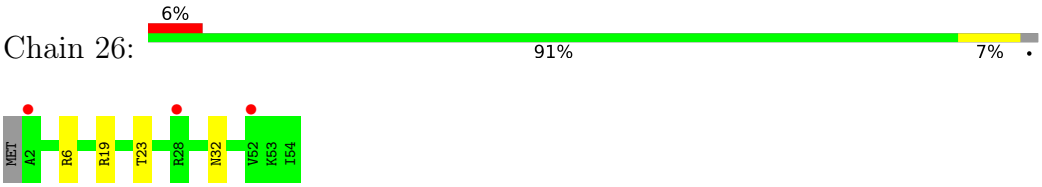
• Molecule 28: 50S ribosomal protein L33

Chain 16:



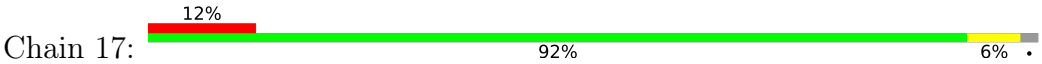
• Molecule 28: 50S ribosomal protein L33

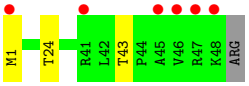
Chain 26:



• Molecule 29: 50S ribosomal protein L34

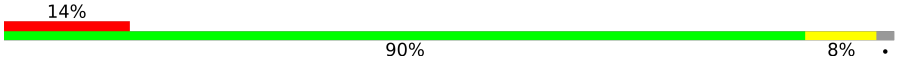
Chain 17:

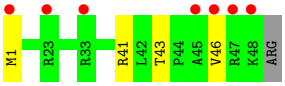




• Molecule 29: 50S ribosomal protein L34

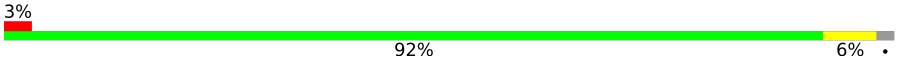
Chain 27:

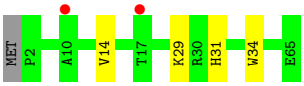




• Molecule 30: 50S ribosomal protein L35

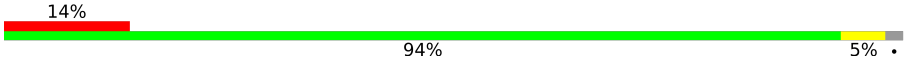
Chain 18:

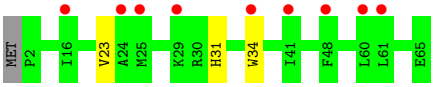




• Molecule 30: 50S ribosomal protein L35

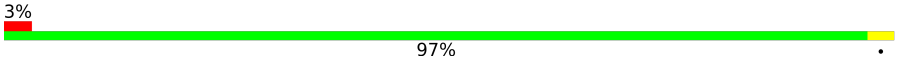
Chain 28:

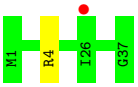




• Molecule 31: 50S ribosomal protein L36

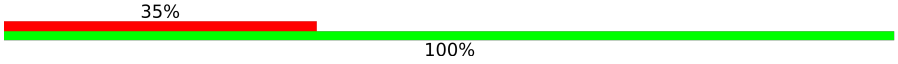
Chain 19:

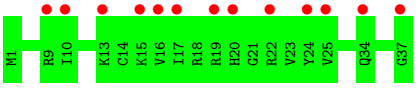




• Molecule 31: 50S ribosomal protein L36

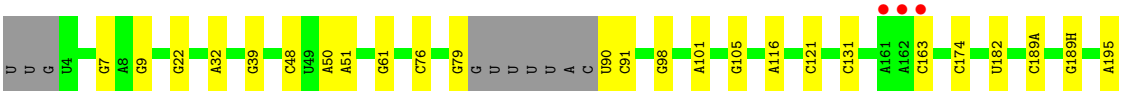
Chain 29:

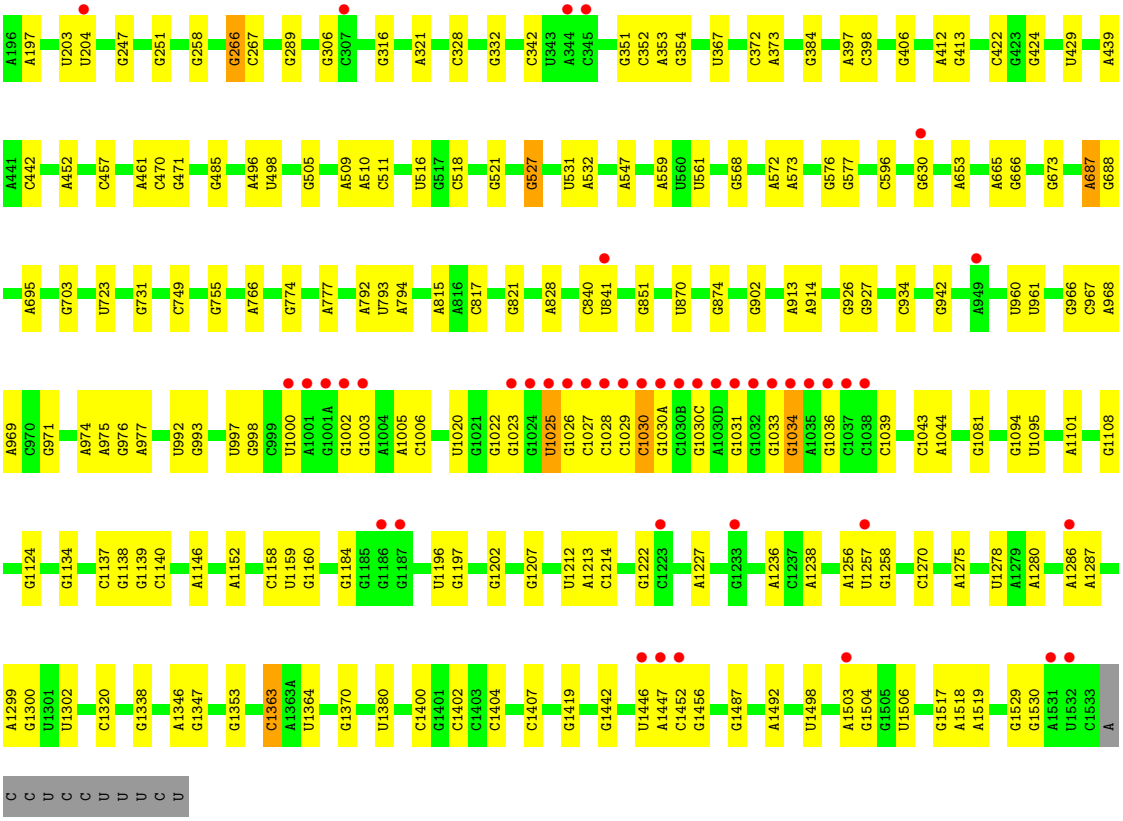




• Molecule 32: 16S Ribosomal RNA

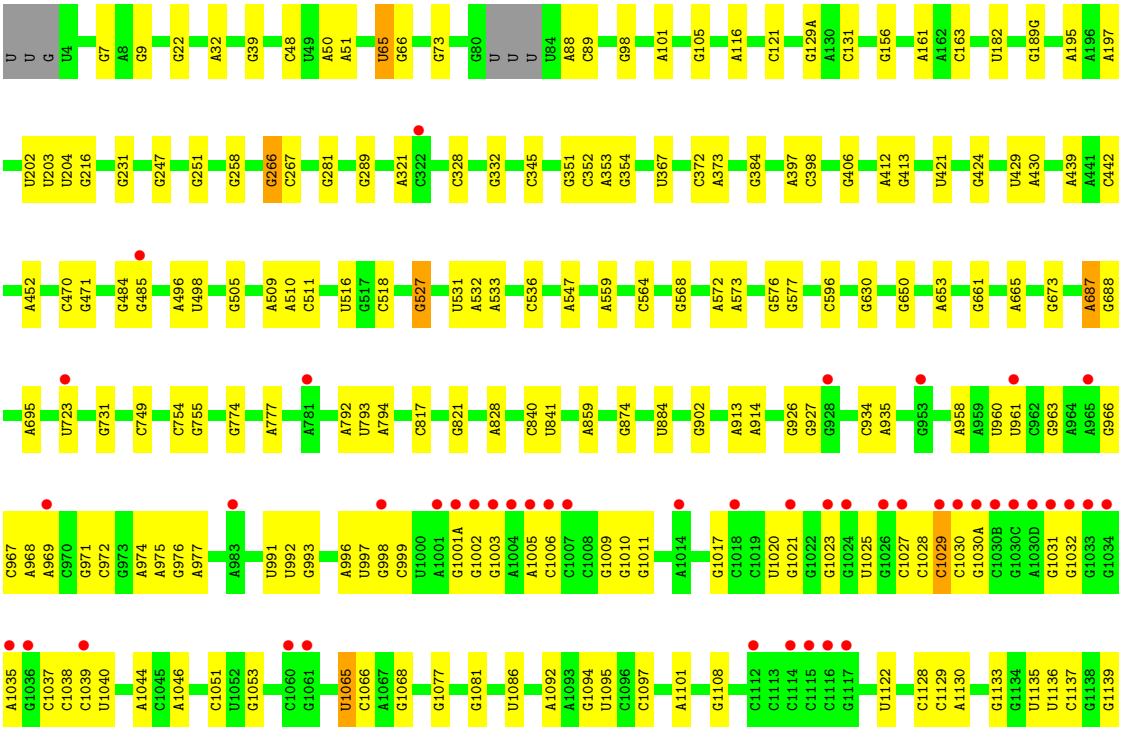
Chain 1a:

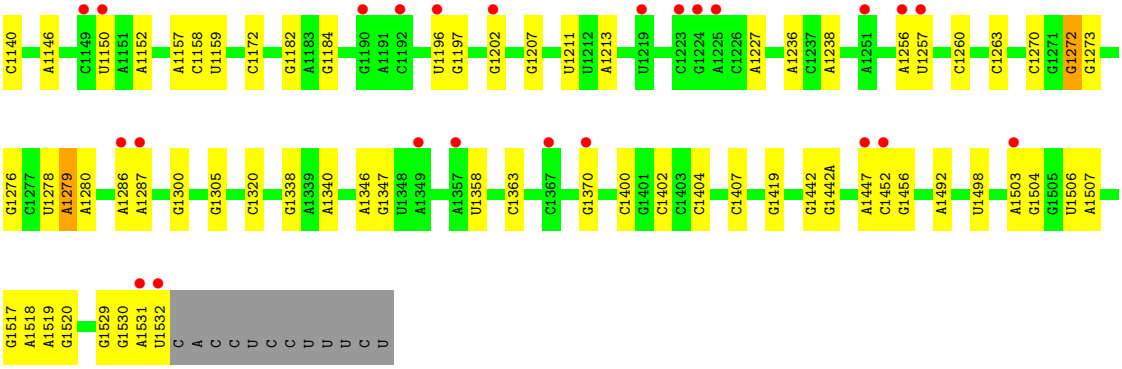




• Molecule 32: 16S Ribosomal RNA

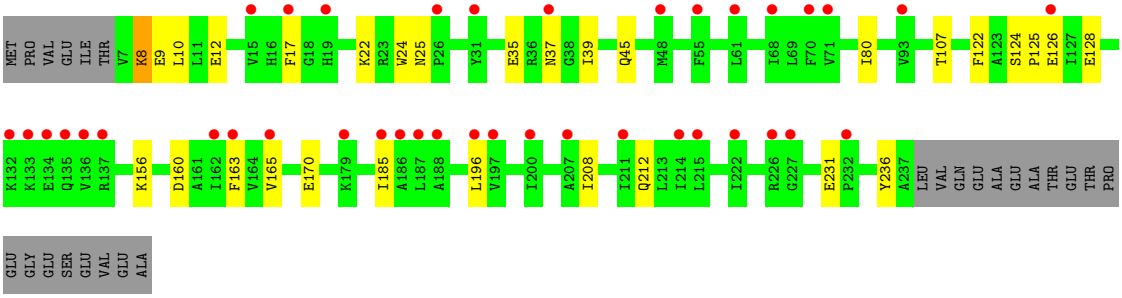
Chain 2a:





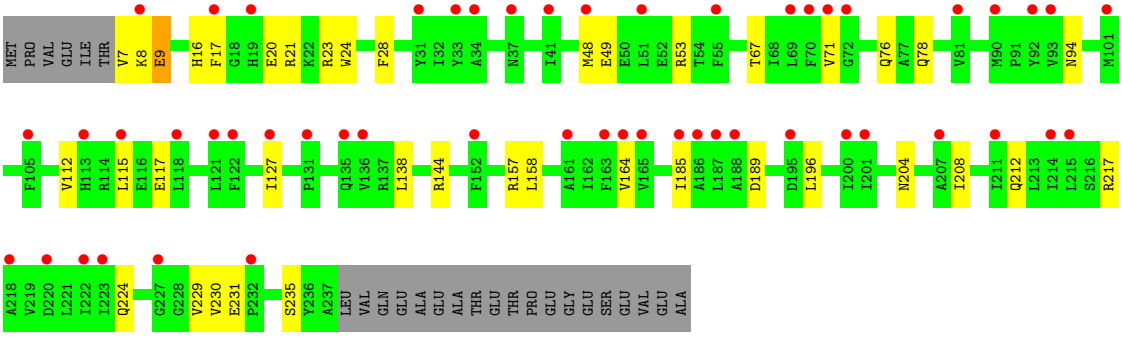
• Molecule 33: 30S ribosomal protein S2

Chain 1b:



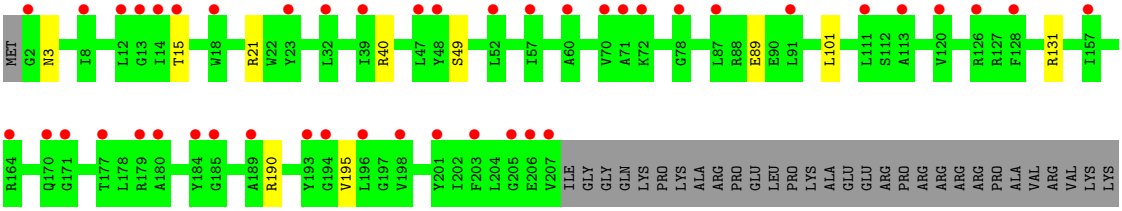
• Molecule 33: 30S ribosomal protein S2

Chain 2b:



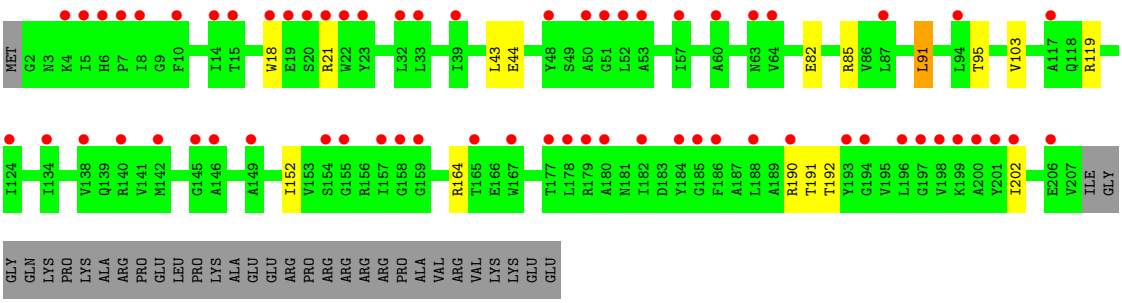
• Molecule 34: 30S ribosomal protein S3

Chain 1c:



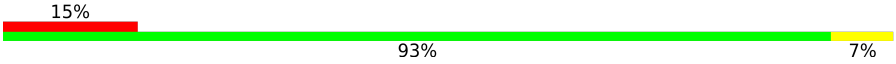
• Molecule 34: 30S ribosomal protein S3

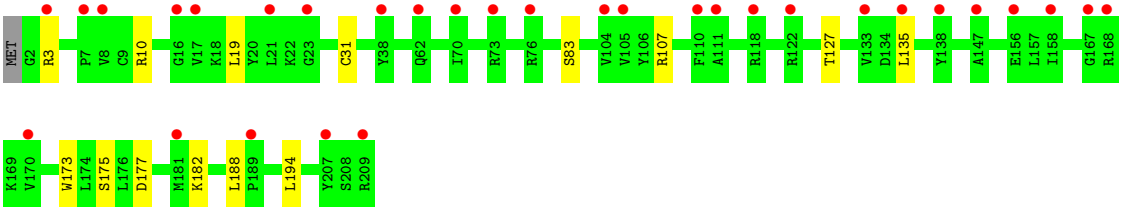
Chain 2c:



• Molecule 35: 30S ribosomal protein S4

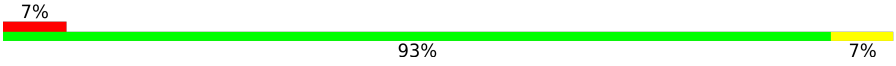
Chain 1d:

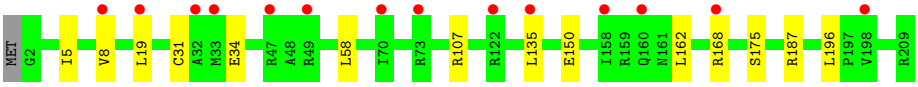




• Molecule 35: 30S ribosomal protein S4

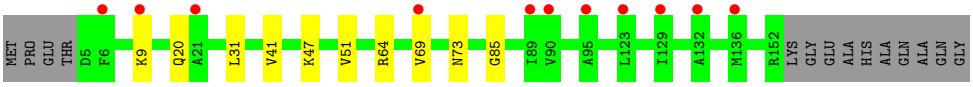
Chain 2d:





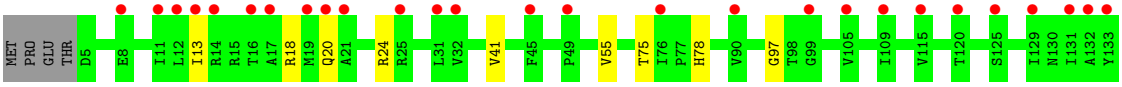
• Molecule 36: 30S ribosomal protein S5

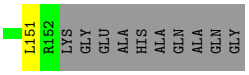
Chain 1e:



• Molecule 36: 30S ribosomal protein S5

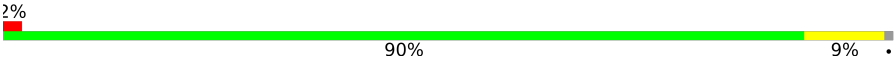
Chain 2e:





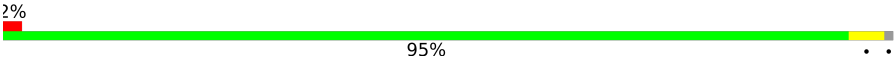
• Molecule 37: 30S ribosomal protein S6

Chain 1f:



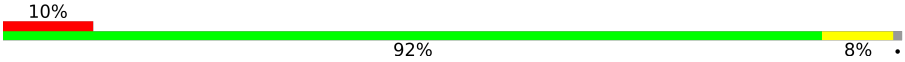
• Molecule 37: 30S ribosomal protein S6

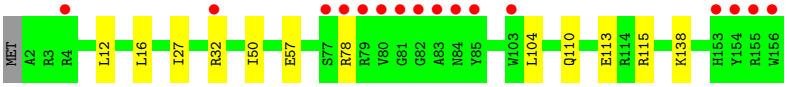
Chain 2f:



• Molecule 38: 30S ribosomal protein S7

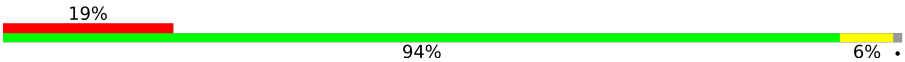
Chain 1g:

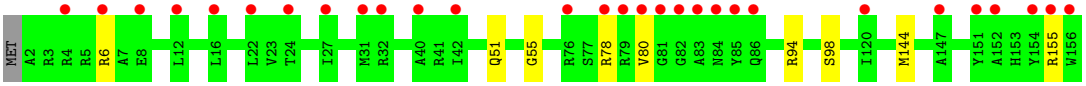




• Molecule 38: 30S ribosomal protein S7

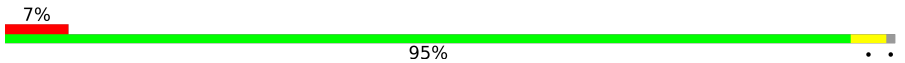
Chain 2g:

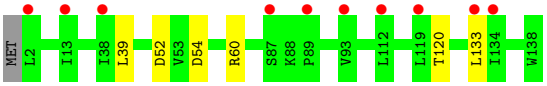




• Molecule 39: 30S ribosomal protein S8

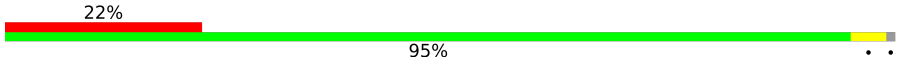
Chain 1h:

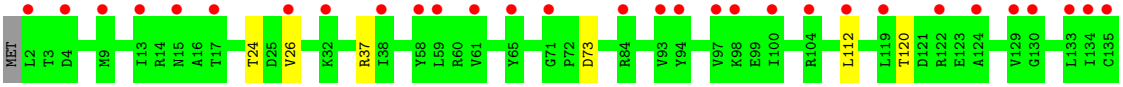




• Molecule 39: 30S ribosomal protein S8

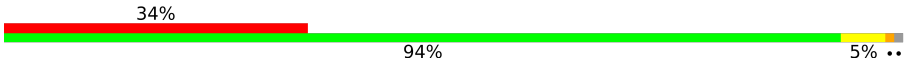
Chain 2h:

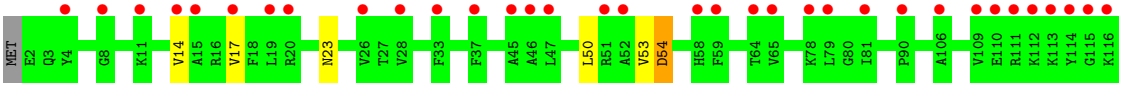


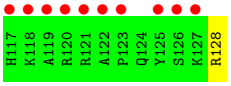


• Molecule 40: 30S ribosomal protein S9

Chain 1i:

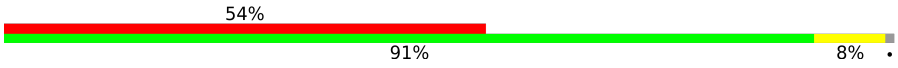


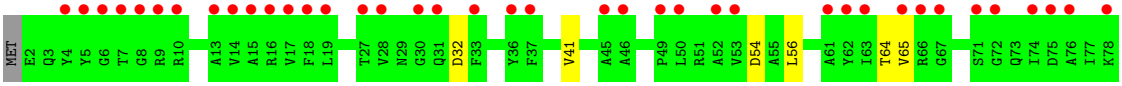


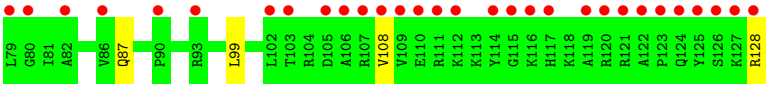


• Molecule 40: 30S ribosomal protein S9

Chain 2i:

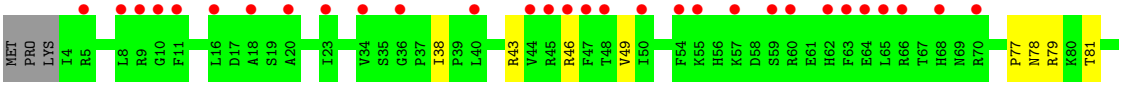


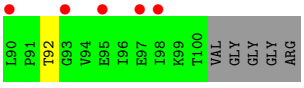




• Molecule 41: 30S ribosomal protein S10

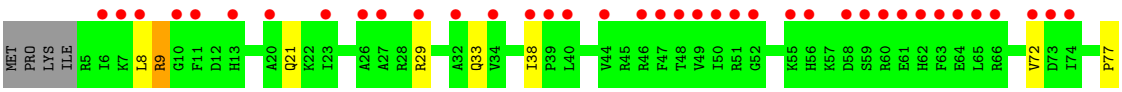
Chain 1j:

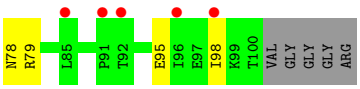




• Molecule 41: 30S ribosomal protein S10

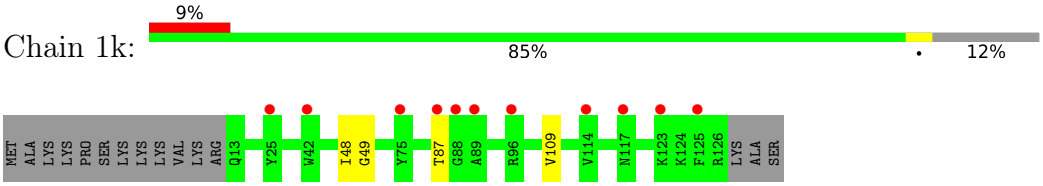
Chain 2j:





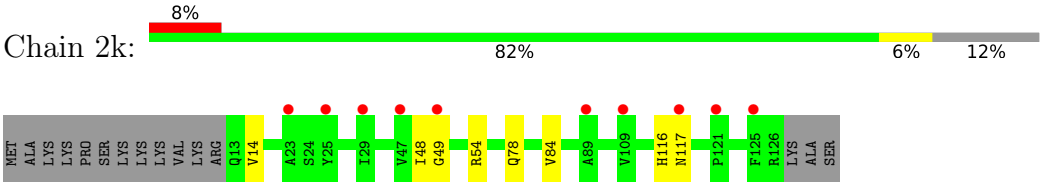
• Molecule 42: 30S ribosomal protein S11

Chain 1k:



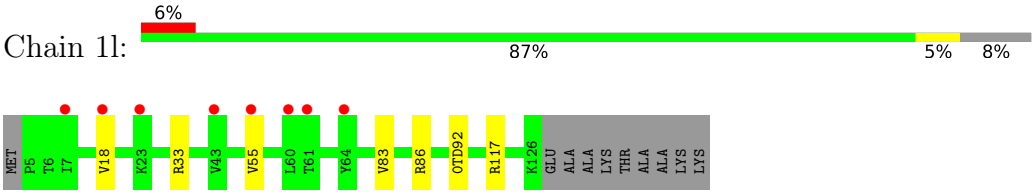
• Molecule 42: 30S ribosomal protein S11

Chain 2k:



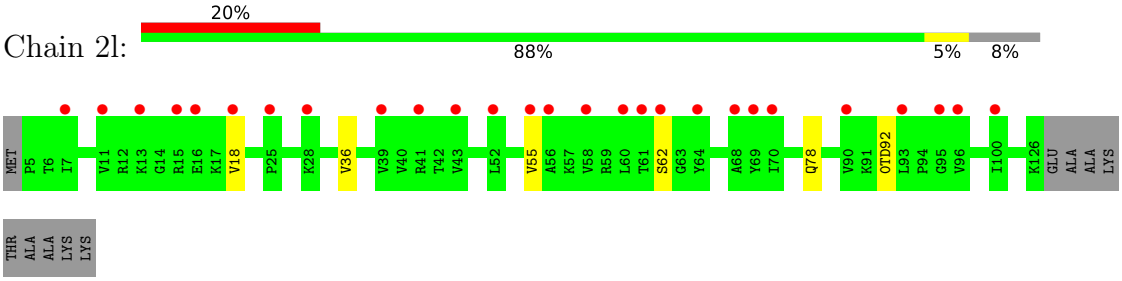
• Molecule 43: 30S ribosomal protein S12

Chain 1l:



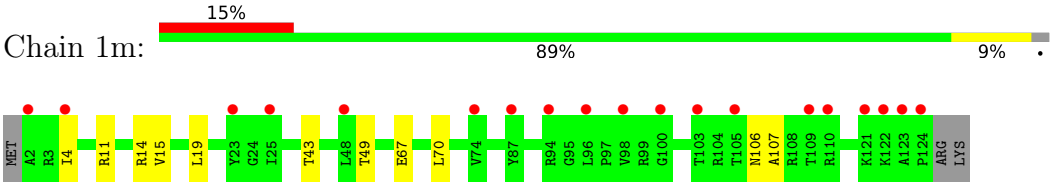
• Molecule 43: 30S ribosomal protein S12

Chain 2l:



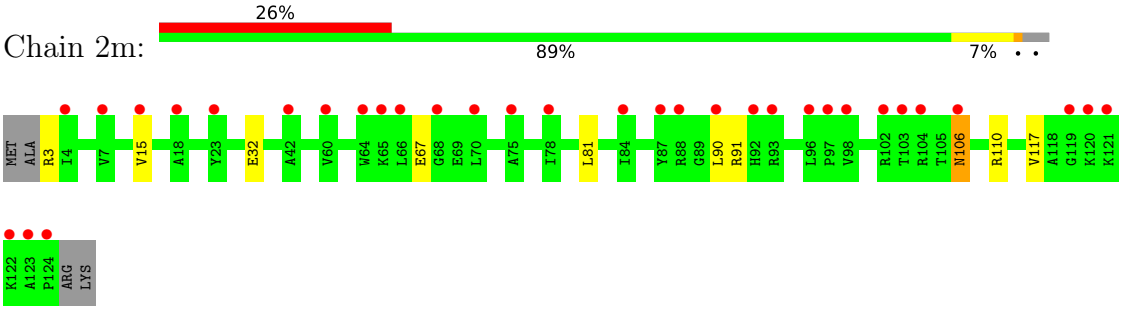
• Molecule 44: 30S ribosomal protein S13

Chain 1m:



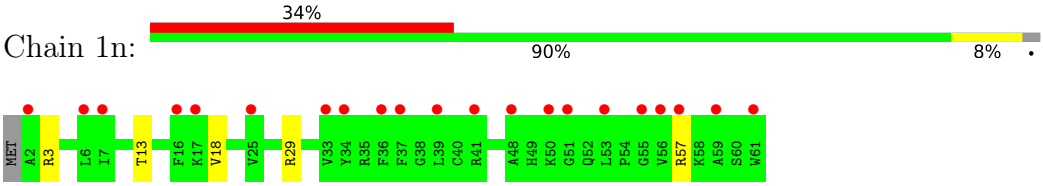
• Molecule 44: 30S ribosomal protein S13

Chain 2m:



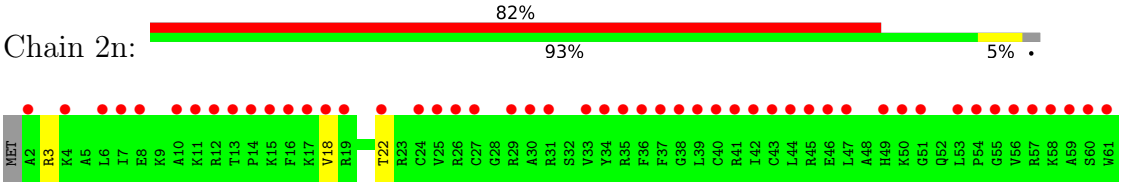
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 1n:



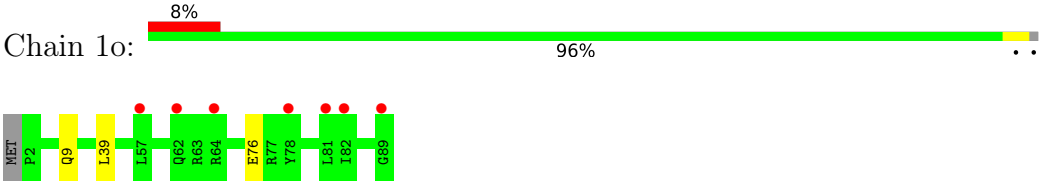
• Molecule 45: 30S ribosomal protein S14 type Z

Chain 2n:



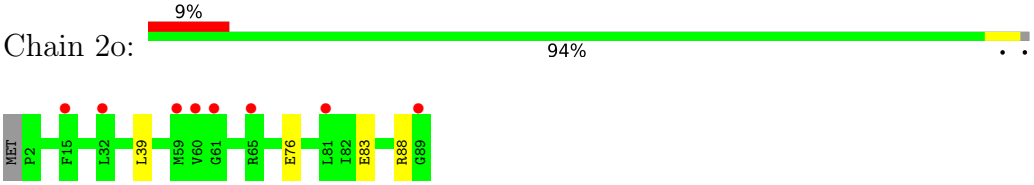
• Molecule 46: 30S ribosomal protein S15

Chain 1o:



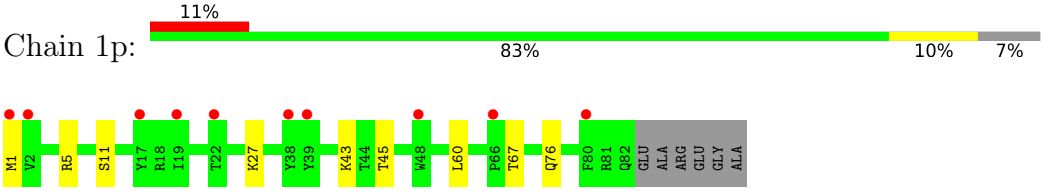
• Molecule 46: 30S ribosomal protein S15

Chain 2o:



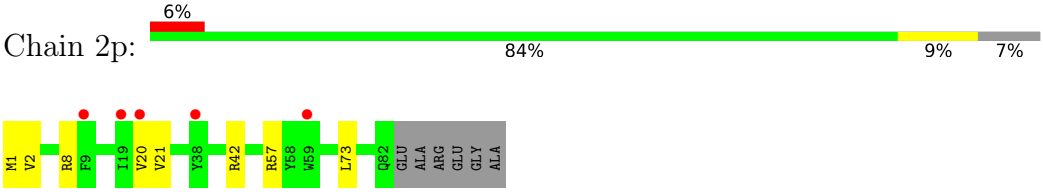
• Molecule 47: 30S ribosomal protein S16

Chain 1p:



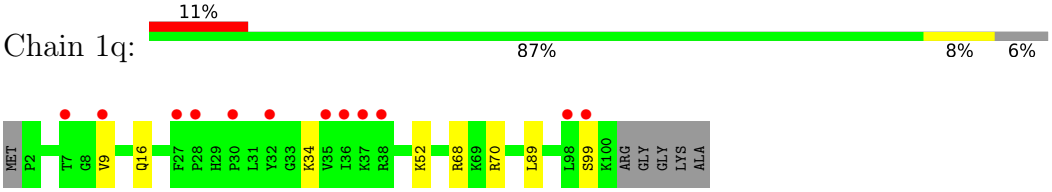
• Molecule 47: 30S ribosomal protein S16

Chain 2p:



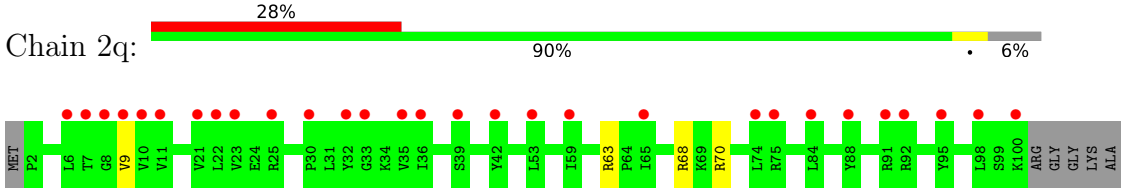
• Molecule 48: 30S ribosomal protein S17

Chain 1q:



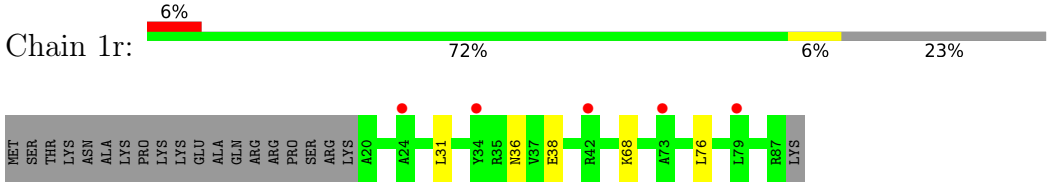
• Molecule 48: 30S ribosomal protein S17

Chain 2q:



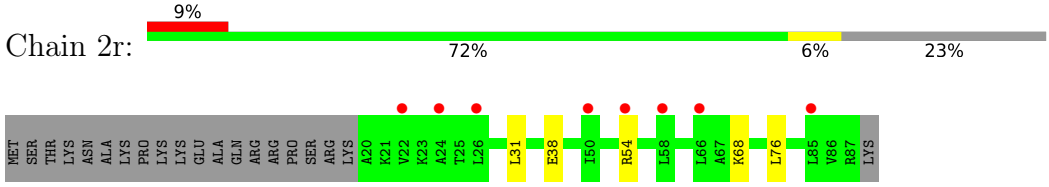
• Molecule 49: 30S ribosomal protein S18

Chain 1r:



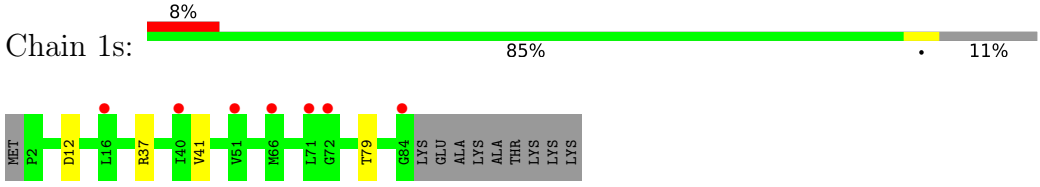
• Molecule 49: 30S ribosomal protein S18

Chain 2r:



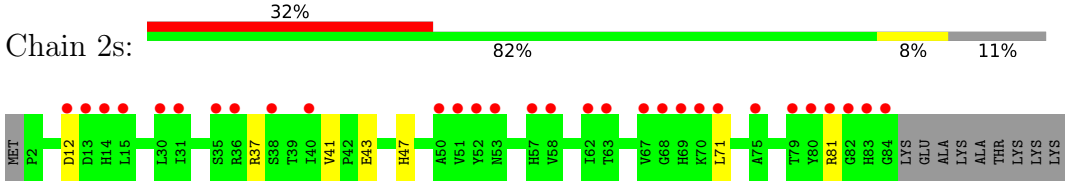
• Molecule 50: 30S ribosomal protein S19

Chain 1s:



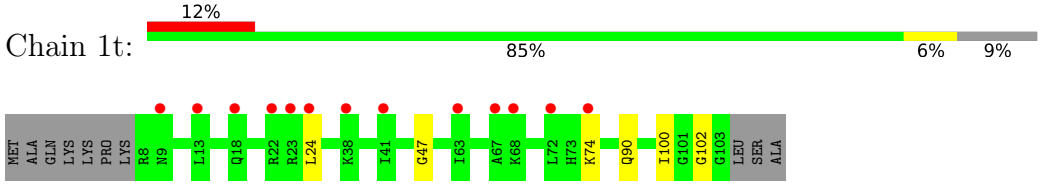
• Molecule 50: 30S ribosomal protein S19

Chain 2s:



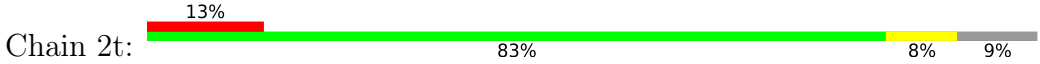
• Molecule 51: 30S ribosomal protein S20

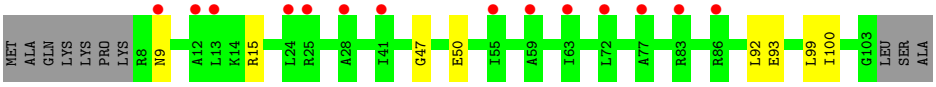
Chain 1t:



• Molecule 51: 30S ribosomal protein S20

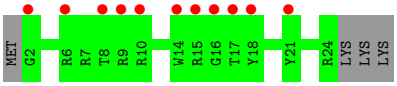
Chain 2t:





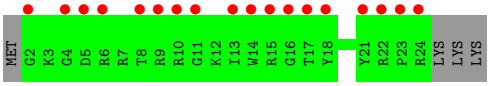
• Molecule 52: 30S ribosomal protein Thx

Chain 1u:



• Molecule 52: 30S ribosomal protein Thx

Chain 2u:

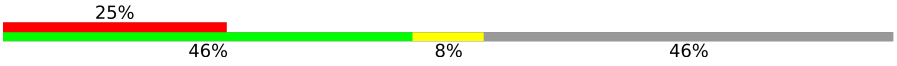


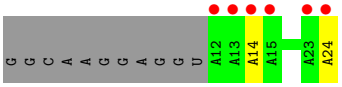
• Molecule 53: MF-mRNA

Chain 1v:

• Molecule 53: MF-mRNA

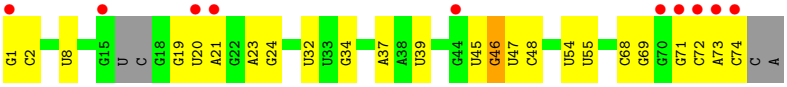
Chain 2v:





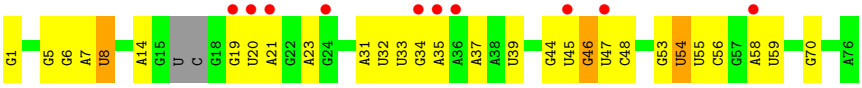
• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 1w:



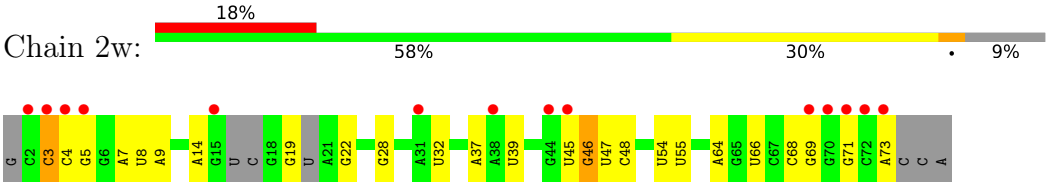
• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 1y:



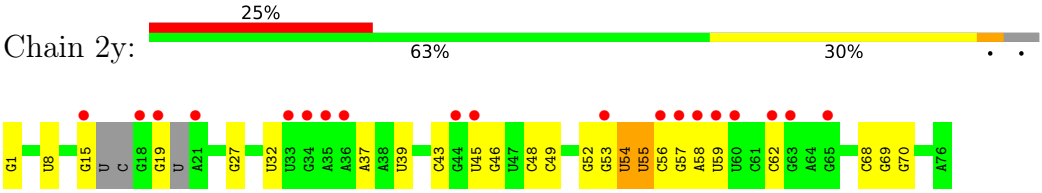
• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 2w:



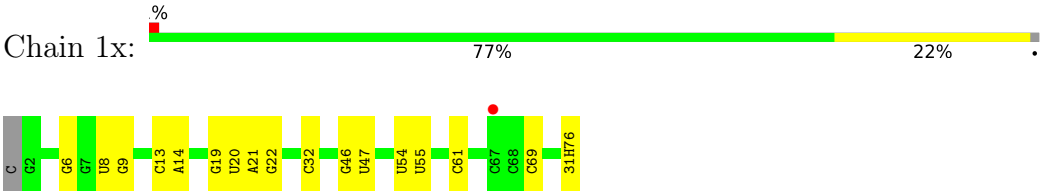
• Molecule 54: A- and E-site Deacylated tRNAphe

Chain 2y:



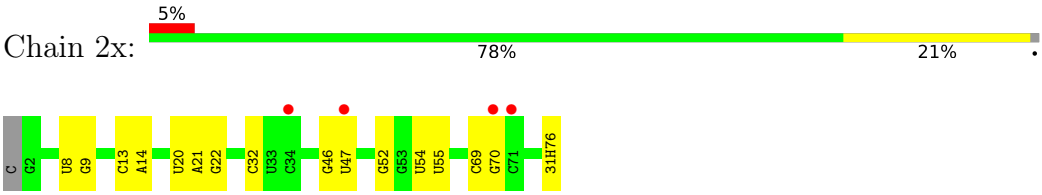
• Molecule 55: P-site Aminoacyl-tRNA fMet-tRNAmet

Chain 1x:



• Molecule 55: P-site Aminoacyl-tRNA fMet-tRNAmet

Chain 2x:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.03Å 450.06Å 623.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	182.49 – 2.55 311.90 – 2.55	Depositor EDS
% Data completeness (in resolution range)	100.0 (182.49-2.55) 100.0 (311.90-2.55)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.30 (at 2.55Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.205 , 0.242 0.205 , 0.242	Depositor DCC
R_{free} test set	95005 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	55.9	Xtriage
Anisotropy	0.226	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 52.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	299373	wwPDB-VP
Average B, all atoms (Å^2)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.00% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: OMU, 5MU, M2G, MA6, ZN, MG, 2MG, K, 4OC, SF4, 31H, MIA, WC9, 2MA, 4SU, OMG, 0TD, G7M, UR3, PSU, 5MC, OMC

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	0.48	0/68985	0.94	93/107677 (0.1%)
1	2A	0.37	0/67269	0.84	27/104999 (0.0%)
2	1B	0.42	1/2882 (0.0%)	0.83	0/4494
2	2B	0.38	1/2879 (0.0%)	0.81	2/4487 (0.0%)
3	1D	0.36	0/2186	0.55	0/2944
3	2D	0.32	0/2186	0.51	0/2944
4	1E	0.33	0/1592	0.54	0/2149
4	2E	0.29	0/1592	0.50	0/2149
5	1F	0.32	0/1619	0.55	0/2193
5	2F	0.29	0/1615	0.49	0/2188
6	1G	0.30	0/1448	0.50	0/1957
6	2G	0.29	0/1453	0.46	0/1963
7	1H	0.30	0/1356	0.49	0/1834
7	2H	0.29	0/1356	0.45	0/1834
8	1I	0.29	0/1112	0.48	0/1514
8	2I	0.27	0/1079	0.47	0/1475
9	1N	0.32	0/1144	0.51	0/1543
9	2N	0.29	0/1144	0.46	0/1543
10	1O	0.33	0/943	0.54	0/1269
10	2O	0.31	0/943	0.51	0/1269
11	1P	0.32	0/1152	0.60	0/1533
11	2P	0.30	0/1152	0.52	0/1533
12	1Q	0.35	0/1143	0.53	0/1527
12	2Q	0.30	0/1143	0.48	0/1527
13	1R	0.31	0/982	0.52	0/1312
13	2R	0.27	0/982	0.47	0/1312
14	1S	0.30	0/883	0.52	0/1176
14	2S	0.29	0/880	0.48	0/1172
15	1T	0.31	0/1105	0.52	0/1477
15	2T	0.28	0/1097	0.47	0/1468
16	1U	0.35	0/977	0.52	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
16	2U	0.29	0/977	0.42	0/1301
17	1V	0.33	0/782	0.54	0/1049
17	2V	0.29	0/782	0.49	0/1049
18	1W	0.35	0/897	0.52	0/1205
18	2W	0.30	0/897	0.48	0/1205
19	1X	0.35	0/764	0.56	0/1025
19	2X	0.30	0/764	0.51	0/1025
20	1Y	0.33	0/819	0.56	0/1095
20	2Y	0.31	0/819	0.51	0/1095
21	1Z	0.29	0/1267	0.51	0/1717
21	2Z	0.30	0/1299	0.48	0/1763
22	10	0.32	0/616	0.56	0/821
22	20	0.30	0/662	0.50	0/881
23	11	0.32	0/762	0.50	0/1014
23	21	0.30	0/762	0.50	0/1014
24	12	0.32	0/590	0.46	0/781
24	22	0.27	0/590	0.42	0/781
25	13	0.34	0/474	0.54	0/635
25	23	0.26	0/469	0.44	0/630
26	14	0.32	0/565	0.55	0/761
26	24	0.30	0/545	0.48	0/737
27	15	0.34	0/469	0.59	0/635
27	25	0.29	0/469	0.50	0/635
28	16	0.33	0/460	0.52	0/613
28	26	0.28	0/456	0.48	0/608
29	17	0.34	0/426	0.55	0/561
29	27	0.30	0/426	0.48	0/561
30	18	0.32	0/525	0.53	0/691
30	28	0.29	0/525	0.49	0/691
31	19	0.33	0/310	0.57	0/407
31	29	0.28	0/310	0.51	0/407
32	1a	0.35	0/35795	0.84	17/55864 (0.0%)
32	2a	0.34	3/35886 (0.0%)	0.86	30/56005 (0.1%)
33	1b	0.29	0/1881	0.48	0/2542
33	2b	0.29	0/1860	0.47	0/2518
34	1c	0.28	0/1572	0.45	0/2126
34	2c	0.29	0/1566	0.48	0/2119
35	1d	0.29	0/1685	0.45	0/2262
35	2d	0.28	0/1704	0.47	0/2284
36	1e	0.29	0/1145	0.49	0/1543
36	2e	0.30	0/1149	0.50	0/1548
37	1f	0.27	0/823	0.48	0/1115
37	2f	0.29	0/829	0.46	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	1g	0.27	0/1250	0.43	0/1679
38	2g	0.27	0/1254	0.41	0/1683
39	1h	0.28	0/1108	0.47	0/1494
39	2h	0.27	0/1108	0.46	0/1494
40	1i	0.29	0/1002	0.49	0/1346
40	2i	0.29	0/997	0.49	0/1343
41	1j	0.27	0/722	0.48	0/982
41	2j	0.28	0/727	0.50	0/988
42	1k	0.27	0/844	0.48	0/1145
42	2k	0.28	0/848	0.47	0/1149
43	1l	0.30	0/937	0.51	0/1260
43	2l	0.28	0/937	0.48	0/1260
44	1m	0.27	0/969	0.48	0/1302
44	2m	0.28	0/961	0.45	0/1291
45	1n	0.29	0/501	0.47	0/664
45	2n	0.30	0/501	0.49	0/664
46	1o	0.27	0/739	0.42	0/985
46	2o	0.26	0/739	0.43	0/985
47	1p	0.28	0/697	0.49	0/939
47	2p	0.28	0/693	0.51	0/935
48	1q	0.27	0/836	0.48	0/1117
48	2q	0.27	0/836	0.48	0/1117
49	1r	0.28	0/560	0.46	0/746
49	2r	0.27	0/560	0.46	0/746
50	1s	0.26	0/667	0.49	0/900
50	2s	0.28	0/661	0.57	0/893
51	1t	0.27	0/730	0.44	0/965
51	2t	0.28	0/729	0.44	0/965
52	1u	0.26	0/203	0.47	0/266
52	2u	0.32	0/203	0.50	0/266
53	1v	0.34	0/310	0.84	0/480
53	2v	0.34	0/310	0.83	0/480
54	1w	0.47	1/1559 (0.1%)	0.95	0/2424
54	1y	0.49	1/1606 (0.1%)	1.01	4/2497 (0.2%)
54	2w	0.45	0/1487	0.98	2/2311 (0.1%)
54	2y	0.49	1/1583 (0.1%)	0.92	0/2459
55	1x	0.54	2/1700 (0.1%)	1.14	19/2650 (0.7%)
55	2x	0.49	0/1700	1.05	15/2650 (0.6%)
All	All	0.38	10/316426 (0.0%)	0.80	209/473725 (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
11	1P	0	1
11	2P	0	1
All	All	0	2

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	1	G	OP3-P	-10.28	1.48	1.61
54	1y	1	G	OP3-P	-10.13	1.49	1.61
54	2y	1	G	OP3-P	-10.06	1.49	1.61
2	2B	1	U	OP3-P	-10.04	1.49	1.61
2	1B	1	U	OP3-P	-10.03	1.49	1.61
32	2a	1272	G	N1-C2	-9.10	1.30	1.37
32	2a	1272	G	C6-N1	-8.34	1.33	1.39
55	1x	14	A	N7-C5	-5.61	1.35	1.39
32	2a	1263	C	N3-C4	-5.58	1.30	1.33
55	1x	22	G	C8-N7	5.11	1.34	1.30

All (209) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	2a	1263	C	N1-C2-O2	25.80	134.38	118.90
32	2a	1272	G	N3-C2-N2	21.48	134.93	119.90
32	2a	1272	G	C5-C6-O6	18.92	139.95	128.60
32	2a	1272	G	N1-C2-N2	-18.52	99.53	116.20
32	2a	1263	C	C2-N3-C4	15.00	127.40	119.90
32	2a	1263	C	N3-C2-O2	-14.55	111.72	121.90
55	1x	46	G	C6-N1-C2	-12.19	117.79	125.10
32	2a	1263	C	C5-C6-N1	11.89	126.95	121.00
32	2a	1272	G	C6-N1-C2	11.80	132.18	125.10
55	2x	46	G	C6-N1-C2	-10.75	118.65	125.10
32	2a	1272	G	N1-C6-O6	-10.38	113.67	119.90
32	2a	1272	G	C5-C6-N1	-10.32	106.34	111.50
55	1x	14	A	C5-N7-C8	10.31	109.05	103.90
1	1A	2682	U	O5'-P-OP2	-10.10	96.61	105.70
1	1A	1075	C	N1-C2-O2	10.09	124.95	118.90
55	1x	14	A	C4-C5-C6	9.93	121.97	117.00
1	1A	793	A	O5'-P-OP2	-9.93	96.76	105.70
55	1x	22	G	C5-N7-C8	-9.81	99.40	104.30
1	2A	1298	C	O5'-P-OP2	-9.69	96.98	105.70
1	1A	512	G	O4'-C1'-N9	9.62	115.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	1025	U	N1-C2-O2	9.45	129.42	122.80
1	1A	975	C	N1-C2-O2	-9.42	113.25	118.90
55	2x	14	A	C5-N7-C8	9.38	108.59	103.90
32	2a	1263	C	C4-C5-C6	-9.20	112.80	117.40
1	1A	801	G	O5'-P-OP2	-9.11	97.50	105.70
32	2a	1263	C	C2-N1-C1'	9.00	128.70	118.80
1	1A	1063	G	C5-C6-O6	8.91	133.95	128.60
55	2x	14	A	C4-C5-C6	8.65	121.33	117.00
32	2a	1272	G	C2-N3-C4	-8.35	107.73	111.90
2	2B	80	U	O4'-C1'-N1	8.35	114.88	108.20
54	1y	33	U	C2-N1-C1'	8.32	127.69	117.70
1	1A	1075	C	C2-N3-C4	8.29	124.04	119.90
55	2x	22	G	C5-N7-C8	-8.23	100.19	104.30
32	2a	1263	C	C6-N1-C2	-8.10	117.06	120.30
1	1A	2167	U	C2-N1-C1'	8.05	127.36	117.70
1	1A	1614	A	O5'-P-OP1	-8.03	98.47	105.70
55	1x	14	A	C5-C6-N1	-7.83	113.79	117.70
55	1x	46	G	N3-C2-N2	-7.73	114.49	119.90
1	1A	2248	C	O5'-P-OP2	-7.71	98.77	105.70
32	2a	1272	G	C4-N9-C1'	7.67	136.48	126.50
32	2a	1272	G	C8-N9-C1'	-7.64	117.07	127.00
55	1x	46	G	C5-C6-N1	7.63	115.31	111.50
32	2a	1263	C	C5-C4-N4	7.62	125.53	120.20
32	2a	1263	C	N3-C4-N4	-7.58	112.70	118.00
32	2a	1263	C	N1-C2-N3	-7.56	113.91	119.20
1	1A	1992	G	P-O3'-C3'	7.56	128.78	119.70
1	1A	1063	G	C6-N1-C2	7.52	129.61	125.10
1	2A	801	G	O5'-P-OP2	-7.52	98.93	105.70
1	1A	2167	U	N1-C2-O2	7.41	127.99	122.80
1	1A	570	G	C5-C6-O6	-7.19	124.29	128.60
1	1A	819	A	O5'-P-OP1	-7.13	99.28	105.70
55	2x	46	G	N3-C2-N2	-7.13	114.91	119.90
54	1y	33	U	N1-C2-O2	7.03	127.72	122.80
1	1A	2167	U	N3-C2-O2	-6.98	117.31	122.20
1	2A	645	C	C2-N1-C1'	6.89	126.38	118.80
55	1x	22	G	C5-C6-N1	6.83	114.92	111.50
1	1A	975	C	C2-N1-C1'	-6.83	111.29	118.80
1	1A	2036	C	O5'-P-OP1	-6.80	99.58	105.70
1	1A	1352	U	O5'-P-OP1	-6.78	99.60	105.70
1	1A	1993	U	O5'-P-OP1	-6.75	99.62	105.70
55	1x	22	G	N7-C8-N9	6.70	116.45	113.10
55	1x	22	G	C4-C5-C6	-6.70	114.78	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	2028	U	N3-C4-O4	-6.61	114.77	119.40
1	2A	512	G	O4'-C1'-N9	6.60	113.48	108.20
32	1a	90	U	C2-N1-C1'	6.58	125.60	117.70
55	2x	46	G	C5-C6-N1	6.58	114.79	111.50
32	2a	754	C	C2-N1-C1'	6.55	126.00	118.80
1	2A	787	U	O5'-P-OP1	-6.52	99.83	105.70
1	2A	1352	U	O5'-P-OP1	-6.52	99.83	105.70
1	1A	1696	G	O5'-P-OP2	-6.49	99.86	105.70
32	1a	1030	C	C2-N3-C4	6.47	123.13	119.90
32	1a	1025	U	N3-C2-O2	-6.45	117.69	122.20
1	2A	847	U	C2-N1-C1'	6.44	125.43	117.70
1	1A	226	G	O4'-C1'-N9	6.39	113.32	108.20
1	1A	531	C	O5'-P-OP2	-6.39	99.95	105.70
1	1A	1075	C	N3-C2-O2	-6.38	117.43	121.90
55	2x	14	A	C5-C6-N1	-6.36	114.52	117.70
32	2a	1158	C	C2-N1-C1'	6.36	125.79	118.80
55	2x	22	G	N7-C8-N9	6.35	116.28	113.10
1	1A	948	G	O5'-P-OP1	-6.27	100.06	105.70
55	1x	14	A	C4-C5-N7	-6.25	107.57	110.70
1	1A	2554	U	O5'-P-OP1	-6.24	100.08	105.70
1	1A	1936	A	O4'-C1'-N9	6.21	113.17	108.20
1	2A	1992	G	P-O3'-C3'	6.20	127.14	119.70
1	1A	2059	A	O4'-C1'-N9	6.20	113.16	108.20
55	2x	22	G	N1-C6-O6	-6.17	116.20	119.90
1	1A	1063	G	N3-C2-N2	6.15	124.20	119.90
1	1A	996	A	O5'-P-OP1	-6.09	100.22	105.70
1	2A	141	A	N7-C8-N9	6.09	116.84	113.80
1	1A	2371	G	C5-C6-N1	6.08	114.54	111.50
1	1A	372	G	O4'-C1'-N9	6.07	113.05	108.20
1	1A	2689	U	P-O3'-C3'	6.06	126.97	119.70
1	1A	2629	A	P-O3'-C3'	6.05	126.97	119.70
1	2A	2059	A	O4'-C1'-N9	6.03	113.02	108.20
54	2w	45	U	N1-C2-O2	6.02	127.01	122.80
1	1A	2319	G	N3-C4-N9	-6.02	122.39	126.00
1	1A	975	C	C6-N1-C1'	5.95	127.94	120.80
54	1y	33	U	N3-C2-O2	-5.95	118.04	122.20
55	2x	22	G	C4-C5-C6	-5.93	115.24	118.80
1	2A	2689	U	N3-C2-O2	-5.93	118.05	122.20
1	1A	2129	C	C2-N1-C1'	5.91	125.30	118.80
1	1A	996	A	O5'-P-OP2	5.90	117.78	110.70
1	1A	2593	U	N3-C4-O4	-5.90	115.27	119.40
1	1A	2689	U	N3-C2-O2	-5.87	118.09	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	2x	14	A	C4-C5-N7	-5.84	107.78	110.70
1	1A	2685	G	N1-C6-O6	-5.84	116.40	119.90
1	1A	2825	C	C6-N1-C2	-5.83	117.97	120.30
1	1A	2028	U	N1-C2-O2	5.82	126.88	122.80
1	1A	746	A	O4'-C1'-N9	5.81	112.85	108.20
1	1A	1176	G	OP1-P-O3'	5.81	117.98	105.20
32	2a	1158	C	N1-C2-O2	5.79	122.37	118.90
32	1a	1030	C	N1-C2-O2	5.77	122.36	118.90
1	1A	1086	A	N1-C6-N6	-5.77	115.14	118.60
1	1A	2319	G	N3-C4-C5	5.76	131.48	128.60
1	2A	330	A	C2-N3-C4	-5.76	107.72	110.60
1	1A	1187	G	N1-C6-O6	-5.75	116.45	119.90
55	1x	22	G	C4-C5-N7	5.75	113.10	110.80
1	1A	774	A	C8-N9-C4	-5.72	103.51	105.80
55	1x	46	G	C5-C6-O6	-5.72	125.17	128.60
55	1x	46	G	N1-C2-N3	5.71	127.33	123.90
2	2B	1	U	C2-N1-C1'	5.69	124.53	117.70
1	1A	1430	C	C6-N1-C2	-5.69	118.02	120.30
54	2w	3	C	C2-N1-C1'	5.68	125.05	118.80
54	1y	33	U	C6-N1-C1'	-5.66	113.28	121.20
1	1A	195	A	P-O3'-C3'	5.66	126.49	119.70
55	2x	46	G	N1-C2-N3	5.65	127.29	123.90
32	1a	1034	G	C6-N1-C2	5.64	128.49	125.10
32	1a	1025	U	C2-N1-C1'	5.64	124.47	117.70
32	1a	90	U	N3-C2-O2	-5.62	118.26	122.20
1	2A	141	A	C8-N9-C4	-5.59	103.56	105.80
32	1a	913	A	P-O3'-C3'	5.58	126.40	119.70
55	2x	22	G	C5-C6-N1	5.58	114.29	111.50
1	2A	1204	A	O4'-C1'-N9	5.56	112.64	108.20
1	1A	567	A	O5'-P-OP1	-5.55	100.71	105.70
55	1x	46	G	N9-C4-C5	5.54	107.61	105.40
32	2a	1263	C	C6-N1-C1'	-5.53	114.16	120.80
1	2A	2155	G	C5-C6-O6	5.52	131.91	128.60
1	1A	570	G	C5-C6-N1	5.50	114.25	111.50
1	2A	528	A	P-O3'-C3'	5.48	126.28	119.70
32	2a	1279	A	C8-N9-C4	-5.48	103.61	105.80
1	1A	2575	C	N1-C2-O2	5.47	122.19	118.90
1	1A	1174	A	OP1-P-O3'	5.47	117.23	105.20
1	1A	2500	U	O4'-C1'-N1	5.47	112.57	108.20
1	1A	570	G	C4-C5-N7	5.43	112.97	110.80
1	1A	527	C	N1-C2-O2	-5.42	115.65	118.90
1	1A	1313	U	N3-C2-O2	-5.41	118.42	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	444	C	O5'-P-OP1	5.40	117.18	110.70
1	2A	1698	A	O4'-C1'-N9	5.40	112.52	108.20
1	1A	1313	U	N1-C2-O2	5.40	126.58	122.80
32	2a	687	A	P-O3'-C3'	5.40	126.18	119.70
32	1a	266	G	P-O3'-C3'	5.39	126.17	119.70
32	1a	1363	C	N1-C2-O2	-5.38	115.67	118.90
55	2x	14	A	C8-N9-C1'	-5.38	118.02	127.70
32	1a	90	U	N1-C2-O2	5.37	126.56	122.80
1	1A	1776	G	O5'-P-OP2	-5.37	100.86	105.70
1	2A	2155	G	C6-N1-C2	5.37	128.32	125.10
32	2a	1029	C	N1-C2-O2	5.37	122.12	118.90
1	1A	1372	U	N3-C4-O4	5.36	123.15	119.40
32	1a	1030	C	C5-C4-N4	5.36	123.95	120.20
1	1A	383	U	O4'-C1'-N1	5.35	112.48	108.20
1	2A	645	C	N1-C2-O2	5.34	122.11	118.90
55	2x	14	A	C4-N9-C1'	5.34	135.92	126.30
1	1A	1063	G	N1-C6-O6	-5.32	116.71	119.90
1	1A	1177	A	O5'-P-OP1	-5.32	100.92	105.70
1	1A	1174	A	P-O3'-C3'	5.31	126.07	119.70
32	2a	913	A	P-O3'-C3'	5.31	126.07	119.70
1	1A	568	U	C5-C4-O4	-5.29	122.72	125.90
1	1A	1272	A	O5'-P-OP2	-5.29	100.94	105.70
1	1A	383	U	C2-N1-C1'	-5.28	111.36	117.70
1	1A	1395	A	O5'-P-OP1	-5.27	100.95	105.70
55	1x	14	A	C8-N9-C1'	-5.27	118.22	127.70
55	1x	22	G	C8-N9-C1'	5.26	133.84	127.00
1	1A	1385	G	O4'-C1'-N9	5.26	112.41	108.20
32	2a	266	G	P-O3'-C3'	5.26	126.01	119.70
55	1x	22	G	N1-C6-O6	-5.25	116.75	119.90
1	2A	2689	U	P-O3'-C3'	5.25	126.00	119.70
1	1A	1190	G	C5-N7-C8	5.24	106.92	104.30
1	1A	2028	U	N3-C2-O2	-5.23	118.54	122.20
1	1A	845	G	O4'-C1'-N9	5.23	112.38	108.20
55	1x	14	A	C4-N9-C1'	5.23	135.71	126.30
1	1A	1075	C	C5-C4-N4	5.22	123.85	120.20
1	1A	196	A	OP2-P-O3'	5.20	116.64	105.20
1	1A	2167	U	C5-C6-N1	5.20	125.30	122.70
1	2A	945	A	C2-N3-C4	-5.20	108.00	110.60
32	1a	1036	G	N1-C6-O6	-5.19	116.79	119.90
1	2A	2318	G	N3-C4-C5	-5.18	126.01	128.60
32	1a	1030	C	N3-C4-C5	-5.17	119.83	121.90
1	1A	576	U	O5'-P-OP1	-5.16	101.06	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	2318	G	N3-C4-N9	5.15	129.09	126.00
1	1A	2848	G	O4'-C1'-N9	5.15	112.32	108.20
32	2a	1065	U	P-O3'-C3'	5.15	125.88	119.70
1	1A	570	G	N3-C4-N9	5.13	129.08	126.00
1	1A	1086	A	C5-C6-N1	5.13	120.27	117.70
1	1A	1372	U	C5-C4-O4	-5.13	122.82	125.90
1	1A	2502	G	O5'-P-OP2	-5.12	101.09	105.70
1	1A	2492	U	O5'-P-OP1	-5.12	101.09	105.70
1	1A	1272	A	O5'-P-OP1	5.12	116.84	110.70
32	1a	1158	C	C2-N1-C1'	5.11	124.42	118.80
1	1A	687	C	C6-N1-C2	-5.11	118.26	120.30
1	1A	2032	G	C5-N7-C8	5.10	106.85	104.30
1	1A	847	U	C2-N1-C1'	5.08	123.79	117.70
1	2A	2136	C	N1-C2-O2	5.07	121.94	118.90
1	2A	1142(A)	A	C2-N3-C4	-5.04	108.08	110.60
1	1A	944	G	C8-N9-C1'	-5.03	120.46	127.00
1	2A	645	C	C5-C6-N1	5.03	123.51	121.00
1	2A	1416	G	O4'-C1'-N9	5.02	112.21	108.20
32	2a	65	U	P-O3'-C3'	5.01	125.72	119.70
1	1A	1082	U	N3-C4-O4	-5.01	115.89	119.40
32	1a	687	A	P-O3'-C3'	5.01	125.71	119.70

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
11	1P	35	HIS	Peptide
11	2P	35	HIS	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%)	259 (95%)	14 (5%)	0	100	100
3	2D	273/276 (99%)	259 (95%)	14 (5%)	0	100	100
4	1E	202/206 (98%)	194 (96%)	7 (4%)	1 (0%)	29	40
4	2E	202/206 (98%)	193 (96%)	8 (4%)	1 (0%)	29	40
5	1F	201/210 (96%)	194 (96%)	6 (3%)	1 (0%)	29	40
5	2F	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	29	40
6	1G	179/182 (98%)	167 (93%)	11 (6%)	1 (1%)	25	34
6	2G	179/182 (98%)	158 (88%)	18 (10%)	3 (2%)	9	11
7	1H	172/180 (96%)	164 (95%)	8 (5%)	0	100	100
7	2H	172/180 (96%)	158 (92%)	13 (8%)	1 (1%)	25	34
8	1I	144/148 (97%)	126 (88%)	16 (11%)	2 (1%)	11	15
8	2I	144/148 (97%)	127 (88%)	16 (11%)	1 (1%)	22	30
9	1N	138/140 (99%)	135 (98%)	3 (2%)	0	100	100
9	2N	138/140 (99%)	130 (94%)	6 (4%)	2 (1%)	11	15
10	1O	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
10	2O	120/122 (98%)	113 (94%)	6 (5%)	1 (1%)	19	27
11	1P	147/150 (98%)	135 (92%)	12 (8%)	0	100	100
11	2P	147/150 (98%)	136 (92%)	9 (6%)	2 (1%)	11	15
12	1Q	139/141 (99%)	134 (96%)	5 (4%)	0	100	100
12	2Q	139/141 (99%)	129 (93%)	9 (6%)	1 (1%)	22	30
13	1R	116/118 (98%)	111 (96%)	5 (4%)	0	100	100
13	2R	116/118 (98%)	108 (93%)	8 (7%)	0	100	100
14	1S	108/112 (96%)	103 (95%)	5 (5%)	0	100	100
14	2S	108/112 (96%)	103 (95%)	3 (3%)	2 (2%)	8	9
15	1T	129/146 (88%)	125 (97%)	3 (2%)	1 (1%)	19	27
15	2T	129/146 (88%)	121 (94%)	8 (6%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	111 (97%)	3 (3%)	0	100	100
17	1V	99/101 (98%)	94 (95%)	3 (3%)	2 (2%)	7	8
17	2V	99/101 (98%)	91 (92%)	6 (6%)	2 (2%)	7	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	1W	110/113 (97%)	109 (99%)	1 (1%)	0	100	100
18	2W	110/113 (97%)	109 (99%)	1 (1%)	0	100	100
19	1X	93/96 (97%)	90 (97%)	3 (3%)	0	100	100
19	2X	93/96 (97%)	89 (96%)	4 (4%)	0	100	100
20	1Y	105/110 (96%)	101 (96%)	3 (3%)	1 (1%)	15	22
20	2Y	105/110 (96%)	97 (92%)	7 (7%)	1 (1%)	15	22
21	1Z	148/206 (72%)	134 (90%)	12 (8%)	2 (1%)	11	15
21	2Z	156/206 (76%)	128 (82%)	24 (15%)	4 (3%)	5	5
22	10	75/85 (88%)	72 (96%)	3 (4%)	0	100	100
22	20	81/85 (95%)	74 (91%)	6 (7%)	1 (1%)	13	17
23	11	95/98 (97%)	92 (97%)	2 (2%)	1 (1%)	14	19
23	21	95/98 (97%)	94 (99%)	0	1 (1%)	14	19
24	12	68/72 (94%)	65 (96%)	3 (4%)	0	100	100
24	22	68/72 (94%)	65 (96%)	3 (4%)	0	100	100
25	13	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
25	23	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
26	14	67/71 (94%)	52 (78%)	11 (16%)	4 (6%)	1	0
26	24	67/71 (94%)	54 (81%)	11 (16%)	2 (3%)	4	3
27	15	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
27	25	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
28	16	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
28	26	51/54 (94%)	49 (96%)	2 (4%)	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%)	62 (100%)	0	0	100	100
30	28	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
31	19	35/37 (95%)	35 (100%)	0	0	100	100
31	29	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
33	1b	229/256 (90%)	194 (85%)	25 (11%)	10 (4%)	2	1
33	2b	229/256 (90%)	185 (81%)	37 (16%)	7 (3%)	4	3
34	1c	204/239 (85%)	194 (95%)	10 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
34	2c	204/239 (85%)	175 (86%)	26 (13%)	3 (2%)	10 14
35	1d	206/209 (99%)	195 (95%)	10 (5%)	1 (0%)	29 40
35	2d	206/209 (99%)	196 (95%)	10 (5%)	0	100 100
36	1e	146/162 (90%)	132 (90%)	12 (8%)	2 (1%)	11 15
36	2e	146/162 (90%)	136 (93%)	9 (6%)	1 (1%)	22 30
37	1f	98/101 (97%)	91 (93%)	7 (7%)	0	100 100
37	2f	98/101 (97%)	96 (98%)	2 (2%)	0	100 100
38	1g	153/156 (98%)	145 (95%)	8 (5%)	0	100 100
38	2g	153/156 (98%)	144 (94%)	7 (5%)	2 (1%)	12 16
39	1h	135/138 (98%)	127 (94%)	7 (5%)	1 (1%)	22 30
39	2h	135/138 (98%)	129 (96%)	5 (4%)	1 (1%)	22 30
40	1i	125/128 (98%)	108 (86%)	16 (13%)	1 (1%)	19 27
40	2i	125/128 (98%)	114 (91%)	11 (9%)	0	100 100
41	1j	95/105 (90%)	86 (90%)	6 (6%)	3 (3%)	4 3
41	2j	94/105 (90%)	83 (88%)	7 (7%)	4 (4%)	2 1
42	1k	112/129 (87%)	104 (93%)	7 (6%)	1 (1%)	17 24
42	2k	112/129 (87%)	102 (91%)	9 (8%)	1 (1%)	17 24
43	1l	119/132 (90%)	113 (95%)	6 (5%)	0	100 100
43	2l	119/132 (90%)	110 (92%)	9 (8%)	0	100 100
44	1m	121/126 (96%)	105 (87%)	14 (12%)	2 (2%)	9 11
44	2m	120/126 (95%)	107 (89%)	11 (9%)	2 (2%)	9 11
45	1n	58/61 (95%)	55 (95%)	3 (5%)	0	100 100
45	2n	58/61 (95%)	54 (93%)	4 (7%)	0	100 100
46	1o	86/89 (97%)	82 (95%)	4 (5%)	0	100 100
46	2o	86/89 (97%)	84 (98%)	1 (1%)	1 (1%)	13 17
47	1p	80/88 (91%)	71 (89%)	8 (10%)	1 (1%)	12 16
47	2p	80/88 (91%)	77 (96%)	3 (4%)	0	100 100
48	1q	97/105 (92%)	92 (95%)	4 (4%)	1 (1%)	15 22
48	2q	97/105 (92%)	92 (95%)	4 (4%)	1 (1%)	15 22
49	1r	66/88 (75%)	61 (92%)	4 (6%)	1 (2%)	10 14
49	2r	66/88 (75%)	61 (92%)	5 (8%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
50	1s	81/93 (87%)	71 (88%)	10 (12%)	0	100 100
50	2s	81/93 (87%)	69 (85%)	11 (14%)	1 (1%)	13 17
51	1t	94/106 (89%)	86 (92%)	5 (5%)	3 (3%)	4 3
51	2t	94/106 (89%)	83 (88%)	9 (10%)	2 (2%)	7 7
52	1u	21/27 (78%)	19 (90%)	2 (10%)	0	100 100
52	2u	21/27 (78%)	19 (90%)	2 (10%)	0	100 100
All	All	11364/12128 (94%)	10571 (93%)	698 (6%)	95 (1%)	19 27

All (95) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
21	1Z	53	ILE
23	11	3	LYS
26	14	49	PHE
33	1b	25	ASN
40	1i	54	ASP
44	1m	67	GLU
44	1m	107	ALA
5	2F	130	ALA
8	2I	10	GLU
20	2Y	55	TYR
26	24	45	GLY
33	2b	16	HIS
33	2b	17	PHE
33	2b	231	GLU
38	2g	55	GLY
38	2g	80	VAL
5	1F	130	ALA
17	1V	79	VAL
21	1Z	156	LYS
26	14	62	ARG
33	1b	17	PHE
33	1b	22	LYS
35	1d	173	TRP
36	1e	85	GLY
41	1j	79	ARG
6	2G	42	GLY
6	2G	51	ARG
10	2O	26	LYS
12	2Q	16	ARG

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Mol	Chain	Res	Type
17	2V	79	VAL
21	2Z	52	SER
21	2Z	144	LEU
26	24	48	ARG
33	2b	20	GLU
34	2c	91	LEU
42	2k	49	GLY
44	2m	67	GLU
44	2m	106	ASN
48	2q	68	ARG
20	1Y	54	LYS
41	1j	78	ASN
51	1t	47	GLY
4	2E	52	LEU
33	2b	9	GLU
33	2b	21	ARG
34	2c	43	LEU
41	2j	78	ASN
41	2j	79	ARG
46	2o	88	ARG
51	2t	47	GLY
4	1E	52	LEU
8	1I	104	GLN
8	1I	107	VAL
17	1V	43	GLU
26	14	57	GLU
33	1b	8	LYS
33	1b	125	PRO
33	1b	126	GLU
39	1h	133	LEU
7	2H	126	PRO
9	2N	2	LYS
14	2S	94	TYR
17	2V	53	GLU
21	2Z	171	ILE
23	21	3	LYS
33	2b	78	GLN
36	2e	97	GLY
41	2j	9	ARG
50	2s	81	ARG
6	1G	126	ASP
33	1b	37	ASN

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Mol	Chain	Res	Type
33	1b	124	SER
49	1r	36	ASN
6	2G	43	LEU
14	2S	84	GLN
22	20	73	GLY
51	2t	99	LEU
33	1b	9	GLU
36	1e	69	VAL
47	1p	76	GLN
48	1q	68	ARG
51	1t	100	ILE
51	1t	102	GLY
9	2N	23	LEU
11	2P	45	LEU
11	2P	122	PRO
34	2c	95	THR
42	1k	49	GLY
15	1T	37	GLY
39	2h	73	ASP
41	2j	77	PRO
26	14	45	GLY
41	1j	77	PRO
21	2Z	146	ILE
33	1b	231	GLU

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%)	203 (94%)	12 (6%)	21	28
3	2D	215/218 (99%)	205 (95%)	10 (5%)	26	35
4	1E	164/166 (99%)	157 (96%)	7 (4%)	29	39
4	2E	164/166 (99%)	160 (98%)	4 (2%)	49	64
5	1F	160/166 (96%)	150 (94%)	10 (6%)	18	23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	2F	159/166 (96%)	153 (96%)	6 (4%)	33 45
6	1G	143/156 (92%)	129 (90%)	14 (10%)	8 9
6	2G	143/156 (92%)	126 (88%)	17 (12%)	5 5
7	1H	144/148 (97%)	137 (95%)	7 (5%)	25 34
7	2H	144/148 (97%)	132 (92%)	12 (8%)	11 14
8	1I	113/124 (91%)	98 (87%)	15 (13%)	4 3
8	2I	105/124 (85%)	94 (90%)	11 (10%)	7 7
9	1N	118/119 (99%)	111 (94%)	7 (6%)	19 25
9	2N	118/119 (99%)	111 (94%)	7 (6%)	19 25
10	1O	100/100 (100%)	96 (96%)	4 (4%)	31 43
10	2O	100/100 (100%)	95 (95%)	5 (5%)	24 33
11	1P	115/116 (99%)	107 (93%)	8 (7%)	15 19
11	2P	115/116 (99%)	111 (96%)	4 (4%)	36 49
12	1Q	111/111 (100%)	105 (95%)	6 (5%)	22 29
12	2Q	111/111 (100%)	109 (98%)	2 (2%)	59 74
13	1R	101/101 (100%)	98 (97%)	3 (3%)	41 55
13	2R	101/101 (100%)	99 (98%)	2 (2%)	55 70
14	1S	86/88 (98%)	78 (91%)	8 (9%)	9 10
14	2S	85/88 (97%)	80 (94%)	5 (6%)	19 25
15	1T	115/127 (91%)	109 (95%)	6 (5%)	23 30
15	2T	113/127 (89%)	105 (93%)	8 (7%)	14 19
16	1U	93/94 (99%)	91 (98%)	2 (2%)	52 66
16	2U	93/94 (99%)	88 (95%)	5 (5%)	22 29
17	1V	80/82 (98%)	78 (98%)	2 (2%)	47 62
17	2V	80/82 (98%)	75 (94%)	5 (6%)	18 23
18	1W	90/92 (98%)	85 (94%)	5 (6%)	21 28
18	2W	90/92 (98%)	86 (96%)	4 (4%)	28 38
19	1X	77/78 (99%)	76 (99%)	1 (1%)	69 80
19	2X	77/78 (99%)	74 (96%)	3 (4%)	32 44
20	1Y	85/91 (93%)	76 (89%)	9 (11%)	6 7
20	2Y	85/91 (93%)	81 (95%)	4 (5%)	26 35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
21	1Z	135/179 (75%)	126 (93%)	9 (7%)	16 21
21	2Z	137/179 (76%)	123 (90%)	14 (10%)	7 8
22	10	61/67 (91%)	61 (100%)	0	100 100
22	20	65/67 (97%)	64 (98%)	1 (2%)	65 77
23	11	80/83 (96%)	78 (98%)	2 (2%)	47 62
23	21	80/83 (96%)	78 (98%)	2 (2%)	47 62
24	12	65/67 (97%)	62 (95%)	3 (5%)	27 36
24	22	65/67 (97%)	65 (100%)	0	100 100
25	13	51/52 (98%)	47 (92%)	4 (8%)	12 16
25	23	50/52 (96%)	49 (98%)	1 (2%)	55 70
26	14	59/63 (94%)	51 (86%)	8 (14%)	3 3
26	24	53/63 (84%)	46 (87%)	7 (13%)	4 3
27	15	50/52 (96%)	47 (94%)	3 (6%)	19 25
27	25	50/52 (96%)	46 (92%)	4 (8%)	12 15
28	16	51/52 (98%)	48 (94%)	3 (6%)	19 25
28	26	50/52 (96%)	46 (92%)	4 (8%)	12 15
29	17	41/42 (98%)	38 (93%)	3 (7%)	14 18
29	27	41/42 (98%)	37 (90%)	4 (10%)	8 9
30	18	54/55 (98%)	50 (93%)	4 (7%)	13 18
30	28	54/55 (98%)	51 (94%)	3 (6%)	21 28
31	19	34/34 (100%)	33 (97%)	1 (3%)	42 57
31	29	34/34 (100%)	34 (100%)	0	100 100
33	1b	192/220 (87%)	171 (89%)	21 (11%)	6 6
33	2b	187/220 (85%)	154 (82%)	33 (18%)	2 2
34	1c	142/188 (76%)	132 (93%)	10 (7%)	15 19
34	2c	140/188 (74%)	126 (90%)	14 (10%)	7 8
35	1d	169/181 (93%)	156 (92%)	13 (8%)	13 16
35	2d	173/181 (96%)	159 (92%)	14 (8%)	11 14
36	1e	113/123 (92%)	105 (93%)	8 (7%)	14 19
36	2e	114/123 (93%)	105 (92%)	9 (8%)	12 15
37	1f	84/90 (93%)	75 (89%)	9 (11%)	6 7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
37	2f	85/90 (94%)	81 (95%)	4 (5%)	26 35
38	1g	119/127 (94%)	107 (90%)	12 (10%)	7 8
38	2g	120/127 (94%)	113 (94%)	7 (6%)	20 26
39	1h	114/119 (96%)	109 (96%)	5 (4%)	28 38
39	2h	114/119 (96%)	109 (96%)	5 (4%)	28 38
40	1i	90/99 (91%)	83 (92%)	7 (8%)	12 16
40	2i	89/99 (90%)	79 (89%)	10 (11%)	6 5
41	1j	66/92 (72%)	60 (91%)	6 (9%)	9 11
41	2j	69/92 (75%)	60 (87%)	9 (13%)	4 3
42	1k	82/99 (83%)	79 (96%)	3 (4%)	34 46
42	2k	83/99 (84%)	76 (92%)	7 (8%)	11 13
43	1l	96/108 (89%)	90 (94%)	6 (6%)	18 23
43	2l	96/108 (89%)	91 (95%)	5 (5%)	23 30
44	1m	93/101 (92%)	84 (90%)	9 (10%)	8 9
44	2m	92/101 (91%)	83 (90%)	9 (10%)	8 9
45	1n	49/50 (98%)	44 (90%)	5 (10%)	7 8
45	2n	49/50 (98%)	46 (94%)	3 (6%)	18 24
46	1o	78/80 (98%)	75 (96%)	3 (4%)	33 45
46	2o	78/80 (98%)	75 (96%)	3 (4%)	33 45
47	1p	69/74 (93%)	61 (88%)	8 (12%)	5 5
47	2p	68/74 (92%)	60 (88%)	8 (12%)	5 5
48	1q	94/97 (97%)	87 (93%)	7 (7%)	13 18
48	2q	94/97 (97%)	91 (97%)	3 (3%)	39 53
49	1r	59/77 (77%)	55 (93%)	4 (7%)	16 20
49	2r	59/77 (77%)	54 (92%)	5 (8%)	10 13
50	1s	69/80 (86%)	65 (94%)	4 (6%)	20 26
50	2s	67/80 (84%)	61 (91%)	6 (9%)	9 11
51	1t	70/82 (85%)	67 (96%)	3 (4%)	29 39
51	2t	70/82 (85%)	64 (91%)	6 (9%)	10 13
52	1u	18/22 (82%)	18 (100%)	0	100 100
52	2u	18/22 (82%)	18 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	9299/10064 (92%)	8676 (93%)	623 (7%)	16 21

All (623) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	3	VAL
3	1D	14	ARG
3	1D	32	SER
3	1D	37	LEU
3	1D	38	LYS
3	1D	71	ASP
3	1D	106	ILE
3	1D	211	ARG
3	1D	229	VAL
3	1D	242	ARG
3	1D	259	THR
3	1D	273	ARG
4	1E	59	VAL
4	1E	73	GLU
4	1E	97	LYS
4	1E	113	PHE
4	1E	116	VAL
4	1E	181	LEU
4	1E	184	VAL
5	1F	24	LEU
5	1F	33	LEU
5	1F	53	THR
5	1F	57	VAL
5	1F	106	ARG
5	1F	132	VAL
5	1F	140	LEU
5	1F	168	ARG
5	1F	183	VAL
5	1F	192	LEU
6	1G	3	LEU
6	1G	5	VAL
6	1G	7	LEU
6	1G	22	ARG
6	1G	28	VAL
6	1G	31	VAL
6	1G	43	LEU
6	1G	60	LEU

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Mol	Chain	Res	Type
6	1G	82	LEU
6	1G	91	ARG
6	1G	126	ASP
6	1G	148	MET
6	1G	150	ASP
6	1G	159	VAL
7	1H	3	ARG
7	1H	13	LYS
7	1H	56	SER
7	1H	84	SER
7	1H	95	ARG
7	1H	124	GLU
7	1H	127	GLU
8	1I	9	LEU
8	1I	12	LEU
8	1I	20	ASP
8	1I	38	LEU
8	1I	47	LEU
8	1I	61	ARG
8	1I	74	ASN
8	1I	77	LEU
8	1I	87	LYS
8	1I	101	LEU
8	1I	108	THR
8	1I	129	THR
8	1I	133	HIS
8	1I	140	LEU
8	1I	144	VAL
9	1N	1	MET
9	1N	10	GLU
9	1N	28	THR
9	1N	62	VAL
9	1N	97	ARG
9	1N	134	ARG
9	1N	137	LYS
10	1O	17	ARG
10	1O	52	VAL
10	1O	113	LYS
10	1O	116	SER
11	1P	1	MET
11	1P	45	LEU
11	1P	90	ARG

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Mol	Chain	Res	Type
11	1P	95	VAL
11	1P	98	GLU
11	1P	147	LEU
11	1P	148	LEU
11	1P	149	GLU
12	1Q	1	MET
12	1Q	8	LYS
12	1Q	16	ARG
12	1Q	75	THR
12	1Q	109	VAL
12	1Q	110	THR
13	1R	24	GLN
13	1R	36	THR
13	1R	114	VAL
14	1S	3	ARG
14	1S	14	VAL
14	1S	36	TYR
14	1S	46	VAL
14	1S	69	VAL
14	1S	73	LEU
14	1S	85	VAL
14	1S	110	LEU
15	1T	28	VAL
15	1T	49	VAL
15	1T	96	ARG
15	1T	108	ARG
15	1T	118	ARG
15	1T	128	GLU
16	1U	8	VAL
16	1U	74	LEU
17	1V	61	VAL
17	1V	79	VAL
18	1W	11	ARG
18	1W	15	ARG
18	1W	17	VAL
18	1W	63	ASP
18	1W	67	ASP
19	1X	35	THR
20	1Y	1	MET
20	1Y	7	VAL
20	1Y	11	ASP
20	1Y	21	LYS

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Mol	Chain	Res	Type
20	1Y	43	ASN
20	1Y	55	TYR
20	1Y	88	LYS
20	1Y	91	GLU
20	1Y	99	CYS
21	1Z	31	ARG
21	1Z	49	ARG
21	1Z	61	LEU
21	1Z	92	SER
21	1Z	138	GLU
21	1Z	139	VAL
21	1Z	140	ASP
21	1Z	154	ASP
21	1Z	170	THR
23	11	3	LYS
23	11	40	ARG
24	12	8	LYS
24	12	40	SER
24	12	65	ASN
25	13	23	LEU
25	13	31	LEU
25	13	54	VAL
25	13	60	GLU
26	14	1	MET
26	14	49	PHE
26	14	50	VAL
26	14	53	GLU
26	14	61	ARG
26	14	63	TYR
26	14	67	TYR
26	14	69	LYS
27	15	6	VAL
27	15	35	GLU
27	15	40	LYS
28	16	6	ARG
28	16	19	ARG
28	16	44	ARG
29	17	1	MET
29	17	24	THR
29	17	43	THR
30	18	14	VAL
30	18	29	LYS

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Mol	Chain	Res	Type
30	18	31	HIS
30	18	34	TRP
31	19	4	ARG
33	1b	8	LYS
33	1b	10	LEU
33	1b	12	GLU
33	1b	24	TRP
33	1b	35	GLU
33	1b	39	ILE
33	1b	45	GLN
33	1b	80	ILE
33	1b	107	THR
33	1b	122	PHE
33	1b	128	GLU
33	1b	156	LYS
33	1b	160	ASP
33	1b	163	PHE
33	1b	165	VAL
33	1b	170	GLU
33	1b	185	ILE
33	1b	196	LEU
33	1b	208	ILE
33	1b	212	GLN
33	1b	236	TYR
34	1c	3	ASN
34	1c	15	THR
34	1c	21	ARG
34	1c	40	ARG
34	1c	49	SER
34	1c	89	GLU
34	1c	101	LEU
34	1c	131	ARG
34	1c	190	ARG
34	1c	195	VAL
35	1d	3	ARG
35	1d	10	ARG
35	1d	19	LEU
35	1d	31	CYS
35	1d	83	SER
35	1d	107	ARG
35	1d	127	THR
35	1d	135	LEU

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Mol	Chain	Res	Type
35	1d	175	SER
35	1d	177	ASP
35	1d	182	LYS
35	1d	188	LEU
35	1d	194	LEU
36	1e	9	LYS
36	1e	20	GLN
36	1e	31	LEU
36	1e	41	VAL
36	1e	47	LYS
36	1e	51	VAL
36	1e	64	ARG
36	1e	73	ASN
37	1f	19	LEU
37	1f	25	ILE
37	1f	55	ASP
37	1f	69	GLU
37	1f	72	VAL
37	1f	75	LEU
37	1f	78	GLU
37	1f	81	ILE
37	1f	92	LYS
38	1g	12	LEU
38	1g	16	LEU
38	1g	27	ILE
38	1g	32	ARG
38	1g	50	ILE
38	1g	57	GLU
38	1g	78	ARG
38	1g	104	LEU
38	1g	110	GLN
38	1g	113	GLU
38	1g	115	ARG
38	1g	138	LYS
39	1h	39	LEU
39	1h	52	ASP
39	1h	54	ASP
39	1h	60	ARG
39	1h	120	THR
40	1i	14	VAL
40	1i	17	VAL
40	1i	23	ASN

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Mol	Chain	Res	Type
40	1i	50	LEU
40	1i	53	VAL
40	1i	54	ASP
40	1i	128	ARG
41	1j	38	ILE
41	1j	43	ARG
41	1j	46	ARG
41	1j	49	VAL
41	1j	81	THR
41	1j	92	THR
42	1k	48	ILE
42	1k	87	THR
42	1k	109	VAL
43	1l	18	VAL
43	1l	33	ARG
43	1l	55	VAL
43	1l	83	VAL
43	1l	86	ARG
43	1l	117	ARG
44	1m	4	ILE
44	1m	11	ARG
44	1m	14	ARG
44	1m	15	VAL
44	1m	19	LEU
44	1m	43	THR
44	1m	49	THR
44	1m	70	LEU
44	1m	106	ASN
45	1n	3	ARG
45	1n	13	THR
45	1n	18	VAL
45	1n	29	ARG
45	1n	57	ARG
46	1o	9	GLN
46	1o	39	LEU
46	1o	76	GLU
47	1p	1	MET
47	1p	5	ARG
47	1p	11	SER
47	1p	27	LYS
47	1p	43	LYS
47	1p	45	THR

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Mol	Chain	Res	Type
47	1p	60	LEU
47	1p	67	THR
48	1q	9	VAL
48	1q	16	GLN
48	1q	34	LYS
48	1q	52	LYS
48	1q	70	ARG
48	1q	89	LEU
48	1q	99	SER
49	1r	31	LEU
49	1r	38	GLU
49	1r	68	LYS
49	1r	76	LEU
50	1s	12	ASP
50	1s	37	ARG
50	1s	41	VAL
50	1s	79	THR
51	1t	24	LEU
51	1t	74	LYS
51	1t	90	GLN
3	2D	3	VAL
3	2D	14	ARG
3	2D	37	LEU
3	2D	38	LYS
3	2D	88	ARG
3	2D	99	ASP
3	2D	106	ILE
3	2D	142	VAL
3	2D	242	ARG
3	2D	259	THR
4	2E	7	VAL
4	2E	73	GLU
4	2E	116	VAL
4	2E	181	LEU
5	2F	23	ASP
5	2F	33	LEU
5	2F	70	THR
5	2F	112	MET
5	2F	183	VAL
5	2F	192	LEU
6	2G	5	VAL
6	2G	28	VAL

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Mol	Chain	Res	Type
6	2G	31	VAL
6	2G	43	LEU
6	2G	45	GLU
6	2G	53	LEU
6	2G	60	LEU
6	2G	79	ASN
6	2G	116	ASP
6	2G	124	SER
6	2G	133	LEU
6	2G	139	LEU
6	2G	140	ILE
6	2G	152	LEU
6	2G	159	VAL
6	2G	165	THR
6	2G	170	ARG
7	2H	2	SER
7	2H	23	ARG
7	2H	70	THR
7	2H	90	LYS
7	2H	92	ILE
7	2H	104	GLU
7	2H	119	GLU
7	2H	122	THR
7	2H	127	GLU
7	2H	130	ARG
7	2H	136	ILE
7	2H	149	ARG
8	2I	15	VAL
8	2I	25	TYR
8	2I	38	LEU
8	2I	58	LEU
8	2I	82	ARG
8	2I	87	LYS
8	2I	92	VAL
8	2I	101	LEU
8	2I	102	SER
8	2I	117	GLU
8	2I	127	VAL
9	2N	1	MET
9	2N	2	LYS
9	2N	28	THR
9	2N	38	HIS

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Mol	Chain	Res	Type
9	2N	62	VAL
9	2N	67	LEU
9	2N	134	ARG
10	2O	28	SER
10	2O	52	VAL
10	2O	66	LYS
10	2O	108	GLU
10	2O	116	SER
11	2P	15	ARG
11	2P	95	VAL
11	2P	98	GLU
11	2P	135	LEU
12	2Q	75	THR
12	2Q	110	THR
13	2R	36	THR
13	2R	114	VAL
14	2S	46	VAL
14	2S	52	SER
14	2S	58	LEU
14	2S	63	THR
14	2S	80	LEU
15	2T	28	VAL
15	2T	40	THR
15	2T	64	ARG
15	2T	74	ARG
15	2T	85	LYS
15	2T	115	ARG
15	2T	118	ARG
15	2T	124	ASP
16	2U	5	LYS
16	2U	8	VAL
16	2U	17	ILE
16	2U	55	ARG
16	2U	74	LEU
17	2V	7	THR
17	2V	61	VAL
17	2V	73	SER
17	2V	79	VAL
17	2V	98	GLU
18	2W	11	ARG
18	2W	15	ARG
18	2W	17	VAL

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Mol	Chain	Res	Type
18	2W	63	ASP
19	2X	35	THR
19	2X	38	GLU
19	2X	49	VAL
20	2Y	1	MET
20	2Y	11	ASP
20	2Y	14	LEU
20	2Y	99	CYS
21	2Z	33	LEU
21	2Z	40	ASP
21	2Z	42	VAL
21	2Z	71	VAL
21	2Z	72	ARG
21	2Z	74	VAL
21	2Z	100	VAL
21	2Z	122	ARG
21	2Z	129	SER
21	2Z	140	ASP
21	2Z	150	LEU
21	2Z	154	ASP
21	2Z	157	LEU
21	2Z	170	THR
22	20	3	HIS
23	21	35	THR
23	21	40	ARG
25	23	31	LEU
26	24	20	ASN
26	24	26	SER
26	24	49	PHE
26	24	59	PHE
26	24	62	ARG
26	24	67	TYR
26	24	68	ARG
27	25	33	CYS
27	25	40	LYS
27	25	58	LEU
27	25	59	GLU
28	26	6	ARG
28	26	19	ARG
28	26	23	THR
28	26	32	ASN
29	27	1	MET

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Mol	Chain	Res	Type
29	27	41	ARG
29	27	43	THR
29	27	46	VAL
30	28	23	VAL
30	28	31	HIS
30	28	34	TRP
33	2b	7	VAL
33	2b	8	LYS
33	2b	9	GLU
33	2b	23	ARG
33	2b	24	TRP
33	2b	28	PHE
33	2b	48	MET
33	2b	49	GLU
33	2b	53	ARG
33	2b	67	THR
33	2b	71	VAL
33	2b	76	GLN
33	2b	94	ASN
33	2b	112	VAL
33	2b	115	LEU
33	2b	117	GLU
33	2b	127	ILE
33	2b	138	LEU
33	2b	144	ARG
33	2b	157	ARG
33	2b	158	LEU
33	2b	164	VAL
33	2b	185	ILE
33	2b	189	ASP
33	2b	196	LEU
33	2b	204	ASN
33	2b	208	ILE
33	2b	212	GLN
33	2b	217	ARG
33	2b	224	GLN
33	2b	229	VAL
33	2b	230	VAL
33	2b	235	SER
34	2c	18	TRP
34	2c	21	ARG
34	2c	44	GLU

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Mol	Chain	Res	Type
34	2c	82	GLU
34	2c	85	ARG
34	2c	91	LEU
34	2c	103	VAL
34	2c	119	ARG
34	2c	152	ILE
34	2c	164	ARG
34	2c	190	ARG
34	2c	191	THR
34	2c	192	THR
34	2c	202	ILE
35	2d	5	ILE
35	2d	8	VAL
35	2d	19	LEU
35	2d	31	CYS
35	2d	34	GLU
35	2d	58	LEU
35	2d	107	ARG
35	2d	135	LEU
35	2d	150	GLU
35	2d	162	LEU
35	2d	168	ARG
35	2d	175	SER
35	2d	187	ARG
35	2d	196	LEU
36	2e	13	ILE
36	2e	18	ARG
36	2e	20	GLN
36	2e	24	ARG
36	2e	41	VAL
36	2e	55	VAL
36	2e	75	THR
36	2e	78	HIS
36	2e	151	LEU
37	2f	37	VAL
37	2f	63	TYR
37	2f	70	ASP
37	2f	93	SER
38	2g	6	ARG
38	2g	51	GLN
38	2g	78	ARG
38	2g	94	ARG

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Mol	Chain	Res	Type
38	2g	98	SER
38	2g	144	MET
38	2g	155	ARG
39	2h	24	THR
39	2h	26	VAL
39	2h	37	ARG
39	2h	112	LEU
39	2h	120	THR
40	2i	32	ASP
40	2i	41	VAL
40	2i	54	ASP
40	2i	56	LEU
40	2i	64	THR
40	2i	65	VAL
40	2i	87	GLN
40	2i	99	LEU
40	2i	108	VAL
40	2i	128	ARG
41	2j	8	LEU
41	2j	9	ARG
41	2j	21	GLN
41	2j	29	ARG
41	2j	33	GLN
41	2j	38	ILE
41	2j	72	VAL
41	2j	95	GLU
41	2j	98	ILE
42	2k	14	VAL
42	2k	48	ILE
42	2k	54	ARG
42	2k	78	GLN
42	2k	84	VAL
42	2k	116	HIS
42	2k	117	ASN
43	2l	18	VAL
43	2l	36	VAL
43	2l	55	VAL
43	2l	62	SER
43	2l	78	GLN
44	2m	3	ARG
44	2m	15	VAL
44	2m	32	GLU

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Mol	Chain	Res	Type
44	2m	81	LEU
44	2m	90	LEU
44	2m	91	ARG
44	2m	106	ASN
44	2m	110	ARG
44	2m	117	VAL
45	2n	3	ARG
45	2n	18	VAL
45	2n	22	THR
46	2o	39	LEU
46	2o	76	GLU
46	2o	83	GLU
47	2p	1	MET
47	2p	2	VAL
47	2p	8	ARG
47	2p	20	VAL
47	2p	21	VAL
47	2p	42	ARG
47	2p	57	ARG
47	2p	73	LEU
48	2q	9	VAL
48	2q	63	ARG
48	2q	70	ARG
49	2r	31	LEU
49	2r	38	GLU
49	2r	54	ARG
49	2r	68	LYS
49	2r	76	LEU
50	2s	12	ASP
50	2s	37	ARG
50	2s	41	VAL
50	2s	43	GLU
50	2s	47	HIS
50	2s	71	LEU
51	2t	9	ASN
51	2t	15	ARG
51	2t	50	GLU
51	2t	92	LEU
51	2t	93	GLU
51	2t	100	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (115) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	87	ASN
3	1D	126	GLN
4	1E	48	GLN
4	1E	54	GLN
5	1F	8	GLN
5	1F	69	HIS
6	1G	26	GLN
8	1I	74	ASN
8	1I	133	HIS
10	1O	3	GLN
12	1Q	12	GLN
12	1Q	57	HIS
14	1S	38	GLN
14	1S	68	GLN
14	1S	95	HIS
15	1T	58	ASN
16	1U	81	HIS
19	1X	31	HIS
19	1X	82	GLN
21	1Z	73	GLN
25	13	32	GLN
33	1b	40	HIS
34	1c	6	HIS
34	1c	98	ASN
34	1c	123	GLN
34	1c	162	GLN
35	1d	116	GLN
35	1d	123	HIS
35	1d	125	HIS
36	1e	73	ASN
36	1e	78	HIS
37	1f	57	GLN
37	1f	100	ASN
38	1g	13	GLN
38	1g	28	ASN
40	1i	3	GLN
40	1i	31	GLN
40	1i	89	ASN
40	1i	124	GLN
41	1j	56	HIS
42	1k	78	GLN
43	1l	99	HIS
44	1m	77	ASN

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Mol	Chain	Res	Type
44	1m	92	HIS
46	1o	9	GLN
47	1p	76	GLN
50	1s	23	ASN
50	1s	47	HIS
50	1s	83	HIS
51	1t	42	GLN
51	1t	90	GLN
3	2D	87	ASN
4	2E	48	GLN
5	2F	69	HIS
7	2H	143	GLN
7	2H	147	ASN
9	2N	8	GLN
10	2O	5	GLN
10	2O	90	GLN
11	2P	35	HIS
12	2Q	12	GLN
12	2Q	13	GLN
12	2Q	123	HIS
14	2S	38	GLN
15	2T	58	ASN
16	2U	94	ASN
19	2X	31	HIS
19	2X	82	GLN
21	2Z	34	ASN
21	2Z	55	HIS
21	2Z	73	GLN
24	22	9	GLN
25	23	32	GLN
26	24	20	ASN
33	2b	95	GLN
33	2b	135	GLN
33	2b	224	GLN
34	2c	102	ASN
34	2c	110	ASN
34	2c	162	GLN
35	2d	45	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	119	GLN
35	2d	123	HIS

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Mol	Chain	Res	Type
35	2d	125	HIS
36	2e	72	GLN
36	2e	73	ASN
37	2f	73	ASN
37	2f	100	ASN
38	2g	13	GLN
38	2g	28	ASN
38	2g	153	HIS
40	2i	3	GLN
40	2i	29	ASN
40	2i	58	HIS
40	2i	117	HIS
41	2j	21	GLN
41	2j	33	GLN
41	2j	69	ASN
42	2k	22	HIS
42	2k	78	GLN
42	2k	104	GLN
42	2k	117	ASN
43	2l	99	HIS
44	2m	40	ASN
44	2m	77	ASN
44	2m	92	HIS
46	2o	62	GLN
50	2s	23	ASN
50	2s	56	GLN
50	2s	69	HIS
50	2s	83	HIS
51	2t	75	ASN
51	2t	90	GLN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2862/2915 (98%)	399 (13%)	28 (0%)
1	2A	2789/2915 (95%)	418 (14%)	27 (0%)
2	1B	119/121 (98%)	9 (7%)	0
2	2B	118/121 (97%)	23 (19%)	0
32	1a	1494/1521 (98%)	213 (14%)	0
32	2a	1498/1521 (98%)	245 (16%)	0
53	1v	12/24 (50%)	1 (8%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
53	2v	12/24 (50%)	2 (16%)	0
54	1w	69/76 (90%)	17 (24%)	0
54	1y	71/76 (93%)	23 (32%)	0
54	2w	65/76 (85%)	18 (27%)	0
54	2y	69/76 (90%)	19 (27%)	0
55	1x	74/77 (96%)	9 (12%)	0
55	2x	74/77 (96%)	8 (10%)	0
All	All	9326/9620 (96%)	1404 (15%)	55 (0%)

All (1404) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	12	U
1	1A	34	C
1	1A	45	C
1	1A	71	A
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	95	G
1	1A	118	A
1	1A	119	A
1	1A	120	U
1	1A	181	A
1	1A	196	A
1	1A	199	A
1	1A	205	G
1	1A	214	G
1	1A	215	G
1	1A	216	A
1	1A	221	A
1	1A	222	A
1	1A	228	A
1	1A	229	A
1	1A	233	A
1	1A	248	G
1	1A	271(C)	C
1	1A	271(I)	G
1	1A	271(K)	U
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(N)	U

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Mol	Chain	Res	Type
1	1A	271(O)	C
1	1A	271(S)	G
1	1A	272(B)	G
1	1A	272(H)	C
1	1A	272(I)	U
1	1A	275	G
1	1A	279	C
1	1A	311	A
1	1A	330	A
1	1A	352	G
1	1A	357	A
1	1A	363	G
1	1A	380	U
1	1A	386	G
1	1A	396	G
1	1A	405	U
1	1A	411	G
1	1A	412	A
1	1A	428	A
1	1A	444	C
1	1A	448	U
1	1A	456	C
1	1A	457	A
1	1A	481	G
1	1A	504	U
1	1A	505	A
1	1A	509	C
1	1A	530	G
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	563	G
1	1A	573	G
1	1A	575	A
1	1A	586	A
1	1A	592	G
1	1A	603	A
1	1A	604	G
1	1A	607	U
1	1A	614(B)	G

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Mol	Chain	Res	Type
1	1A	615	G
1	1A	627	A
1	1A	637	A
1	1A	645	C
1	1A	646	A
1	1A	652(F)	G
1	1A	669	G
1	1A	686	G
1	1A	717	G
1	1A	730	C
1	1A	764	A
1	1A	765	G
1	1A	775	G
1	1A	776	G
1	1A	782	A
1	1A	784	A
1	1A	785	G
1	1A	790	C
1	1A	792	G
1	1A	805	G
1	1A	812	C
1	1A	819	A
1	1A	827	U
1	1A	828	U
1	1A	859	G
1	1A	866	A
1	1A	879	G
1	1A	880	G
1	1A	882	G
1	1A	883	G
1	1A	884	C
1	1A	885	C
1	1A	886	C
1	1A	887	A
1	1A	888	C
1	1A	889	C
1	1A	890	A
1	1A	896	A
1	1A	897	C
1	1A	898	C
1	1A	900	A
1	1A	910	A

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Mol	Chain	Res	Type
1	1A	932	G
1	1A	945	A
1	1A	946	G
1	1A	953	A
1	1A	959	A
1	1A	961	C
1	1A	963	U
1	1A	974	G
1	1A	975	C
1	1A	983	A
1	1A	996	A
1	1A	1012	U
1	1A	1013	C
1	1A	1022	G
1	1A	1026	U
1	1A	1027	A
1	1A	1033	U
1	1A	1038	C
1	1A	1041	C
1	1A	1045	A
1	1A	1046	A
1	1A	1047	G
1	1A	1054	A
1	1A	1055	G
1	1A	1058	G
1	1A	1059	G
1	1A	1063	G
1	1A	1068	G
1	1A	1069	A
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	1081	U
1	1A	1082	U
1	1A	1085	A
1	1A	1087	G
1	1A	1088	A
1	1A	1090	U
1	1A	1091	G

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Mol	Chain	Res	Type
1	1A	1093	G
1	1A	1094	U
1	1A	1096	A
1	1A	1098	A
1	1A	1099	G
1	1A	1101	U
1	1A	1109	C
1	1A	1112	G
1	1A	1116	C
1	1A	1128	A
1	1A	1135	C
1	1A	1136	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	1220	A
1	1A	1253	A
1	1A	1256	G
1	1A	1271	G
1	1A	1272	A
1	1A	1273	U
1	1A	1281	G
1	1A	1300	U
1	1A	1301	A
1	1A	1303	G
1	1A	1308	A
1	1A	1352	U
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1370	C
1	1A	1380	G
1	1A	1384	A
1	1A	1385	G
1	1A	1416	G
1	1A	1417	C
1	1A	1420	U
1	1A	1421	G

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Mol	Chain	Res	Type
1	1A	1428	C
1	1A	1445	A
1	1A	1450	G
1	1A	1455	G
1	1A	1467	C
1	1A	1482	G
1	1A	1493	C
1	1A	1494	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1532	C
1	1A	1543	C
1	1A	1558	A
1	1A	1569	A
1	1A	1578	U
1	1A	1580	A
1	1A	1581	G
1	1A	1582	C
1	1A	1584	C
1	1A	1608	A
1	1A	1609	A
1	1A	1610	A
1	1A	1648	C
1	1A	1674	G
1	1A	1696	G
1	1A	1700	A
1	1A	1701	A
1	1A	1722	A
1	1A	1739	U
1	1A	1745	C
1	1A	1747	G
1	1A	1756	G
1	1A	1763	G
1	1A	1764	G
1	1A	1773	A
1	1A	1780	A
1	1A	1782	C
1	1A	1791	A
1	1A	1800	C
1	1A	1801	G
1	1A	1816	G
1	1A	1829	A

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Mol	Chain	Res	Type
1	1A	1847	A
1	1A	1848	A
1	1A	1877	A
1	1A	1878	G
1	1A	1889	A
1	1A	1900	A
1	1A	1906	G
1	1A	1929	G
1	1A	1930	G
1	1A	1937	A
1	1A	1938	A
1	1A	1955	U
1	1A	1963	U
1	1A	1965	C
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	1997	G
1	1A	2020	A
1	1A	2023	G
1	1A	2031	A
1	1A	2032	G
1	1A	2033	A
1	1A	2039	C
1	1A	2043	C
1	1A	2055	C
1	1A	2056	G
1	1A	2060	A
1	1A	2061	G
1	1A	2062	A
1	1A	2069	G
1	1A	2102	U
1	1A	2108	C
1	1A	2110	G
1	1A	2113	U
1	1A	2116	G
1	1A	2121	G
1	1A	2122	U
1	1A	2126	A

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Mol	Chain	Res	Type
1	1A	2127	G
1	1A	2130	U
1	1A	2131	G
1	1A	2132	U
1	1A	2133	G
1	1A	2134	A
1	1A	2135	A
1	1A	2136	C
1	1A	2140	C
1	1A	2141	G
1	1A	2142	C
1	1A	2143	C
1	1A	2144	U
1	1A	2145	C
1	1A	2146	C
1	1A	2150	U
1	1A	2151	G
1	1A	2152	G
1	1A	2154	G
1	1A	2156	G
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2160	G
1	1A	2161	C
1	1A	2166	G
1	1A	2167	U
1	1A	2168	G
1	1A	2171	A
1	1A	2172	U
1	1A	2174	C
1	1A	2181	G
1	1A	2182	G
1	1A	2184	G
1	1A	2192	G
1	1A	2198	A
1	1A	2206	G
1	1A	2207	G
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2268	A

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Mol	Chain	Res	Type
1	1A	2269	A
1	1A	2283	C
1	1A	2287	A
1	1A	2305	A
1	1A	2308	G
1	1A	2320	A
1	1A	2325	G
1	1A	2334	G
1	1A	2347	C
1	1A	2350	C
1	1A	2361	A
1	1A	2379	G
1	1A	2383	G
1	1A	2385	C
1	1A	2406	U
1	1A	2414	G
1	1A	2422	A
1	1A	2424	C
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2431	U
1	1A	2434	A
1	1A	2435	A
1	1A	2439	A
1	1A	2441	C
1	1A	2448	A
1	1A	2468	G
1	1A	2476	A
1	1A	2478	A
1	1A	2502	G
1	1A	2505	G
1	1A	2518	A
1	1A	2529	G
1	1A	2535	G
1	1A	2554	U
1	1A	2566	A
1	1A	2567	G
1	1A	2573	C
1	1A	2602	A
1	1A	2609	U
1	1A	2611	U

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Mol	Chain	Res	Type
1	1A	2612	C
1	1A	2629	A
1	1A	2630	G
1	1A	2654	A
1	1A	2689	U
1	1A	2690	C
1	1A	2702	U
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A
1	1A	2714	G
1	1A	2726	U
1	1A	2727	G
1	1A	2733	A
1	1A	2765	A
1	1A	2766	G
1	1A	2778	A
1	1A	2790	A
1	1A	2791	C
1	1A	2793	G
1	1A	2794	C
1	1A	2802	G
1	1A	2803	C
1	1A	2805	G
1	1A	2820	A
1	1A	2821	A
1	1A	2835	A
1	1A	2839	G
1	1A	2872	G
1	1A	2880	C
1	1A	2892	A
1	1A	2894	G
1	1A	2895	U
2	1B	2	C
2	1B	13	A
2	1B	25	A
2	1B	35	U
2	1B	56	G
2	1B	73	A
2	1B	84	C
2	1B	106	G
2	1B	110	G

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Mol	Chain	Res	Type
32	1a	7	G
32	1a	9	G
32	1a	22	G
32	1a	32	A
32	1a	39	G
32	1a	48	C
32	1a	50	A
32	1a	51	A
32	1a	61	G
32	1a	76	C
32	1a	79	G
32	1a	91	C
32	1a	98	G
32	1a	101	A
32	1a	105	G
32	1a	116	A
32	1a	121	C
32	1a	131	C
32	1a	163	C
32	1a	174	C
32	1a	182	U
32	1a	189(A)	C
32	1a	189(H)	G
32	1a	195	A
32	1a	197	A
32	1a	203	U
32	1a	204	U
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	306	G
32	1a	316	G
32	1a	321	A
32	1a	328	C
32	1a	332	G
32	1a	342	C
32	1a	351	G
32	1a	352	C
32	1a	353	A

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Mol	Chain	Res	Type
32	1a	354	G
32	1a	367	U
32	1a	372	C
32	1a	373	A
32	1a	384	G
32	1a	397	A
32	1a	398	C
32	1a	406	G
32	1a	412	A
32	1a	413	G
32	1a	422	C
32	1a	424	G
32	1a	429	U
32	1a	439	A
32	1a	442	C
32	1a	452	A
32	1a	457	C
32	1a	461	A
32	1a	470	C
32	1a	471	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	521	G
32	1a	527	G7M
32	1a	531	U
32	1a	532	A
32	1a	547	A
32	1a	559	A
32	1a	561	U
32	1a	568	G
32	1a	572	A
32	1a	573	A
32	1a	576	G
32	1a	577	G
32	1a	596	C
32	1a	630	G

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Mol	Chain	Res	Type
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	695	A
32	1a	703	G
32	1a	723	U
32	1a	731	G
32	1a	749	C
32	1a	755	G
32	1a	766	A
32	1a	774	G
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	815	A
32	1a	817	C
32	1a	821	G
32	1a	828	A
32	1a	840	C
32	1a	841	U
32	1a	851	G
32	1a	870	U
32	1a	874	G
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
32	1a	934	C
32	1a	942	G
32	1a	960	U
32	1a	961	U
32	1a	968	A
32	1a	969	A
32	1a	971	G
32	1a	974	A
32	1a	975	A
32	1a	976	G
32	1a	977	A

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Mol	Chain	Res	Type
32	1a	992	U
32	1a	993	G
32	1a	997	U
32	1a	998	G
32	1a	1000	U
32	1a	1002	G
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1020	U
32	1a	1022	G
32	1a	1023	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C
32	1a	1028	C
32	1a	1029	C
32	1a	1030	C
32	1a	1030(A)	G
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1033	G
32	1a	1034	G
32	1a	1039	C
32	1a	1043	C
32	1a	1044	A
32	1a	1081	G
32	1a	1094	G
32	1a	1095	U
32	1a	1101	A
32	1a	1108	G
32	1a	1124	G
32	1a	1134	G
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1140	C
32	1a	1146	A
32	1a	1152	A
32	1a	1159	U
32	1a	1160	G
32	1a	1184	G

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Mol	Chain	Res	Type
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	1222	G
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1256	A
32	1a	1257	U
32	1a	1258	G
32	1a	1270	C
32	1a	1275	A
32	1a	1278	U
32	1a	1280	A
32	1a	1286	A
32	1a	1287	A
32	1a	1299	A
32	1a	1300	G
32	1a	1302	U
32	1a	1320	C
32	1a	1338	G
32	1a	1346	A
32	1a	1347	G
32	1a	1353	G
32	1a	1363	C
32	1a	1364	U
32	1a	1370	G
32	1a	1380	U
32	1a	1419	G
32	1a	1442	G
32	1a	1446	U
32	1a	1447	A
32	1a	1452	C
32	1a	1456	G
32	1a	1487	G
32	1a	1492	A
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U

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Mol	Chain	Res	Type
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
53	1v	24	A
54	1w	2	C
54	1w	19	G
54	1w	20	U
54	1w	21	A
54	1w	23	A
54	1w	24	G
54	1w	34	G
54	1w	45	U
54	1w	46	G7M
54	1w	47	U
54	1w	48	C
54	1w	68	C
54	1w	69	G
54	1w	71	G
54	1w	72	C
54	1w	73	A
54	1w	74	C
55	1x	6	G
55	1x	9	G
55	1x	13	C
55	1x	19	G
55	1x	20	U
55	1x	21	A
55	1x	47	U
55	1x	61	C
55	1x	69	C
54	1y	5	G
54	1y	6	G
54	1y	7	A
54	1y	8	4SU
54	1y	14	A
54	1y	19	G
54	1y	20	U
54	1y	21	A
54	1y	23	A
54	1y	31	A
54	1y	34	G
54	1y	35	A

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Mol	Chain	Res	Type
54	1y	44	G
54	1y	45	U
54	1y	46	G7M
54	1y	47	U
54	1y	48	C
54	1y	53	G
54	1y	54	5MU
54	1y	56	C
54	1y	58	A
54	1y	59	U
54	1y	70	G
1	2A	12	U
1	2A	15	G
1	2A	34	C
1	2A	35	G
1	2A	45	C
1	2A	61	G
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	84	A
1	2A	92	A
1	2A	94	C
1	2A	95	G
1	2A	102	G
1	2A	118	A
1	2A	119	A
1	2A	120	U
1	2A	141	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	222	A
1	2A	228	A
1	2A	229	A
1	2A	232	G

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Mol	Chain	Res	Type
1	2A	233	A
1	2A	248	G
1	2A	250	G
1	2A	266	G
1	2A	271(J)	C
1	2A	271(K)	U
1	2A	271(L)	U
1	2A	271(M)	G
1	2A	271(N)	U
1	2A	271(O)	C
1	2A	272(B)	G
1	2A	277	C
1	2A	278	A
1	2A	311	A
1	2A	312	G
1	2A	324	A
1	2A	327	G
1	2A	329	G
1	2A	330	A
1	2A	352	G
1	2A	363(B)	G
1	2A	386	G
1	2A	396	G
1	2A	405	U
1	2A	411	G
1	2A	412	A
1	2A	443	A
1	2A	444	C
1	2A	455	C
1	2A	456	C
1	2A	457	A
1	2A	481	G
1	2A	494	G
1	2A	504	U
1	2A	505	A
1	2A	508	G
1	2A	509	C
1	2A	529	A
1	2A	530	G
1	2A	531	C
1	2A	532	A
1	2A	533	G

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Mol	Chain	Res	Type
1	2A	563	G
1	2A	568	U
1	2A	573	G
1	2A	575	A
1	2A	586	A
1	2A	588	U
1	2A	599	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(B)	G
1	2A	615	G
1	2A	616	G
1	2A	627	A
1	2A	637	A
1	2A	645	C
1	2A	646	A
1	2A	652	C
1	2A	652(B)	A
1	2A	652(C)	G
1	2A	652(U)	G
1	2A	669	G
1	2A	686	G
1	2A	717	G
1	2A	730	C
1	2A	752	A
1	2A	753	C
1	2A	765	G
1	2A	775	G
1	2A	776	G
1	2A	782	A
1	2A	784	A
1	2A	785	G
1	2A	792	G
1	2A	805	G
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	857	C
1	2A	859	G
1	2A	866	A

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Mol	Chain	Res	Type
1	2A	874	G
1	2A	875	G
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	892	G
1	2A	893	C
1	2A	894	C
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	903	C
1	2A	910	A
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	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	983	A
1	2A	996	A
1	2A	1012	U
1	2A	1013	C
1	2A	1018	C
1	2A	1022	G
1	2A	1025	G
1	2A	1026	U
1	2A	1027	A
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1041	C
1	2A	1043	C

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Mol	Chain	Res	Type
1	2A	1117	G
1	2A	1129	A
1	2A	1130	U
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1171	G
1	2A	1188	U
1	2A	1195	G
1	2A	1211	U
1	2A	1220	A
1	2A	1236	G
1	2A	1244	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1273	U
1	2A	1300	U
1	2A	1301	A
1	2A	1303	G
1	2A	1314	C
1	2A	1321	A
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	1384	A
1	2A	1385	G
1	2A	1395	A
1	2A	1396	U
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U
1	2A	1421	G
1	2A	1427	A
1	2A	1428	C
1	2A	1437	C
1	2A	1445	A

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Mol	Chain	Res	Type
1	2A	1449	A
1	2A	1450	G
1	2A	1460	A
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	1533	G
1	2A	1542	A
1	2A	1543	C
1	2A	1547	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1580	A
1	2A	1584	C
1	2A	1608	A
1	2A	1609	A
1	2A	1639	U
1	2A	1640	C
1	2A	1648	C
1	2A	1654	A
1	2A	1674	G
1	2A	1696	G
1	2A	1700	A
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1740	G
1	2A	1743	C
1	2A	1756	G
1	2A	1763	G
1	2A	1764	G
1	2A	1769	G
1	2A	1773	A

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Mol	Chain	Res	Type
1	2A	1780	A
1	2A	1782	C
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1812	A
1	2A	1816	G
1	2A	1829	A
1	2A	1835	G
1	2A	1847	A
1	2A	1848	A
1	2A	1877	A
1	2A	1878	G
1	2A	1900	A
1	2A	1906	G
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U
1	2A	1963	U
1	2A	1967	C
1	2A	1970	A
1	2A	1971	A
1	2A	1972	A
1	2A	1992	G
1	2A	1993	U
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	2043	C
1	2A	2055	C
1	2A	2056	G
1	2A	2060	A
1	2A	2061	G
1	2A	2062	A
1	2A	2069	G
1	2A	2099	U

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Mol	Chain	Res	Type
1	2A	2108	C
1	2A	2110	G
1	2A	2111	C
1	2A	2112	G
1	2A	2116	G
1	2A	2117	A
1	2A	2119	A
1	2A	2122	U
1	2A	2126	A
1	2A	2127	G
1	2A	2128	C
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G
1	2A	2134	A
1	2A	2137	C
1	2A	2138	C
1	2A	2139	C
1	2A	2141	G
1	2A	2142	C
1	2A	2146	C
1	2A	2150	U
1	2A	2151	G
1	2A	2154	G
1	2A	2156	G
1	2A	2157	G
1	2A	2158	A
1	2A	2161	C
1	2A	2166	G
1	2A	2167	U
1	2A	2168	G
1	2A	2172	U
1	2A	2174	C
1	2A	2176	A
1	2A	2178	C
1	2A	2182	G
1	2A	2185	C
1	2A	2189	U
1	2A	2192	G
1	2A	2198	A
1	2A	2206	G
1	2A	2207	G

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Mol	Chain	Res	Type
1	2A	2208	A
1	2A	2218	U
1	2A	2225	A
1	2A	2238	G
1	2A	2239	G
1	2A	2268	A
1	2A	2275	C
1	2A	2278	A
1	2A	2283	C
1	2A	2287	A
1	2A	2305	A
1	2A	2308	G
1	2A	2309	A
1	2A	2319	G
1	2A	2320	A
1	2A	2325	G
1	2A	2334	G
1	2A	2336	A
1	2A	2347	C
1	2A	2350	C
1	2A	2354	G
1	2A	2376	A
1	2A	2383	G
1	2A	2385	C
1	2A	2406	U
1	2A	2425	A
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	2468	G
1	2A	2469	A
1	2A	2476	A
1	2A	2490	G
1	2A	2491	U
1	2A	2502	G
1	2A	2505	G
1	2A	2507	C
1	2A	2518	A

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Mol	Chain	Res	Type
1	2A	2520	C
1	2A	2525	G
1	2A	2529	G
1	2A	2554	U
1	2A	2555	U
1	2A	2562	U
1	2A	2566	A
1	2A	2567	G
1	2A	2573	C
1	2A	2602	A
1	2A	2609	U
1	2A	2611	U
1	2A	2612	C
1	2A	2615	U
1	2A	2630	G
1	2A	2634	G
1	2A	2654	A
1	2A	2689	U
1	2A	2690	C
1	2A	2691	C
1	2A	2702	U
1	2A	2703	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2726	U
1	2A	2733	A
1	2A	2751	G
1	2A	2758	A
1	2A	2761	G
1	2A	2764	A
1	2A	2765	A
1	2A	2778	A
1	2A	2793	G
1	2A	2794	C
1	2A	2802	G
1	2A	2803	C
1	2A	2808	U
1	2A	2810	A
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A

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Mol	Chain	Res	Type
1	2A	2835	A
1	2A	2836	U
1	2A	2839	G
1	2A	2872	G
1	2A	2873	A
1	2A	2880	C
1	2A	2892	A
1	2A	2894	G
1	2A	2897	U
2	2B	2	C
2	2B	9	G
2	2B	13	A
2	2B	17	C
2	2B	25	A
2	2B	34	U
2	2B	41	U
2	2B	42	C
2	2B	51	G
2	2B	53	A
2	2B	56	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	85	G
2	2B	88	C
2	2B	106	G
2	2B	108	U
2	2B	110	G
2	2B	111	G
2	2B	116	G
2	2B	119	G
2	2B	120	A
32	2a	7	G
32	2a	9	G
32	2a	22	G
32	2a	32	A
32	2a	39	G
32	2a	48	C
32	2a	50	A
32	2a	51	A
32	2a	65	U
32	2a	66	G

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Mol	Chain	Res	Type
32	2a	73	G
32	2a	88	A
32	2a	89	C
32	2a	98	G
32	2a	101	A
32	2a	105	G
32	2a	116	A
32	2a	121	C
32	2a	129(A)	G
32	2a	131	C
32	2a	156	G
32	2a	161	A
32	2a	163	C
32	2a	182	U
32	2a	189(G)	G
32	2a	195	A
32	2a	197	A
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	231	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G
32	2a	267	C
32	2a	281	G
32	2a	289	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	345	C
32	2a	351	G
32	2a	352	C
32	2a	353	A
32	2a	354	G
32	2a	367	U
32	2a	372	C
32	2a	373	A
32	2a	384	G
32	2a	397	A

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Mol	Chain	Res	Type
32	2a	398	C
32	2a	406	G
32	2a	412	A
32	2a	413	G
32	2a	421	U
32	2a	424	G
32	2a	429	U
32	2a	430	A
32	2a	439	A
32	2a	442	C
32	2a	452	A
32	2a	470	C
32	2a	471	G
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	518	C
32	2a	527	G7M
32	2a	531	U
32	2a	532	A
32	2a	533	A
32	2a	536	C
32	2a	547	A
32	2a	559	A
32	2a	564	C
32	2a	568	G
32	2a	572	A
32	2a	573	A
32	2a	576	G
32	2a	577	G
32	2a	596	C
32	2a	630	G
32	2a	650	G
32	2a	653	A
32	2a	661	G
32	2a	665	A
32	2a	673	G

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Mol	Chain	Res	Type
32	2a	687	A
32	2a	688	G
32	2a	695	A
32	2a	723	U
32	2a	731	G
32	2a	749	C
32	2a	755	G
32	2a	774	G
32	2a	777	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	840	C
32	2a	841	U
32	2a	859	A
32	2a	874	G
32	2a	884	U
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	934	C
32	2a	935	A
32	2a	958	A
32	2a	960	U
32	2a	961	U
32	2a	963	G
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	972	C
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	991	U
32	2a	992	U
32	2a	993	G
32	2a	996	A

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Mol	Chain	Res	Type
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	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1010	G
32	2a	1011	G
32	2a	1017	G
32	2a	1020	U
32	2a	1021	G
32	2a	1023	G
32	2a	1025	U
32	2a	1027	C
32	2a	1028	C
32	2a	1029	C
32	2a	1030	C
32	2a	1030(A)	G
32	2a	1031	G
32	2a	1032	G
32	2a	1035	A
32	2a	1037	C
32	2a	1038	C
32	2a	1039	C
32	2a	1040	U
32	2a	1044	A
32	2a	1046	A
32	2a	1051	C
32	2a	1053	G
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1081	G
32	2a	1086	U
32	2a	1092	A
32	2a	1094	G
32	2a	1095	U
32	2a	1097	C

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Mol	Chain	Res	Type
32	2a	1101	A
32	2a	1108	G
32	2a	1122	U
32	2a	1128	C
32	2a	1129	C
32	2a	1130	A
32	2a	1133	G
32	2a	1135	U
32	2a	1136	U
32	2a	1137	C
32	2a	1139	G
32	2a	1140	C
32	2a	1146	A
32	2a	1150	U
32	2a	1152	A
32	2a	1157	A
32	2a	1159	U
32	2a	1172	C
32	2a	1182	G
32	2a	1184	G
32	2a	1196	U
32	2a	1197	G
32	2a	1202	G
32	2a	1211	U
32	2a	1213	A
32	2a	1227	A
32	2a	1236	A
32	2a	1238	A
32	2a	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1270	C
32	2a	1272	G
32	2a	1273	G
32	2a	1276	G
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1286	A
32	2a	1287	A
32	2a	1300	G
32	2a	1305	G

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Mol	Chain	Res	Type
32	2a	1320	C
32	2a	1338	G
32	2a	1340	A
32	2a	1346	A
32	2a	1347	G
32	2a	1358	U
32	2a	1363	C
32	2a	1370	G
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	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1507	A
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	14	A
53	2v	24	A
54	2w	3	C
54	2w	4	C
54	2w	5	G
54	2w	7	A
54	2w	9	A
54	2w	14	A
54	2w	19	G
54	2w	22	G
54	2w	28	G
54	2w	46	G7M
54	2w	47	U
54	2w	48	C
54	2w	64	A
54	2w	66	U
54	2w	68	C

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Mol	Chain	Res	Type
54	2w	69	G
54	2w	71	G
54	2w	73	A
55	2x	9	G
55	2x	13	C
55	2x	20	U
55	2x	21	A
55	2x	47	U
55	2x	52	G
55	2x	69	C
55	2x	70	G
54	2y	15	G
54	2y	19	G
54	2y	27	G
54	2y	43	C
54	2y	45	U
54	2y	48	C
54	2y	49	C
54	2y	52	G
54	2y	53	G
54	2y	54	5MU
54	2y	55	PSU
54	2y	56	C
54	2y	57	G
54	2y	58	A
54	2y	59	U
54	2y	62	C
54	2y	68	C
54	2y	69	G
54	2y	70	G

All (55) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1A	195	A
1	1A	196	A
1	1A	266	G
1	1A	271(K)	U
1	1A	278	A
1	1A	548	A
1	1A	746	A
1	1A	764	A

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Mol	Chain	Res	Type
1	1A	774	A
1	1A	827	U
1	1A	974	G
1	1A	1142(A)	A
1	1A	1174	A
1	1A	1176	G
1	1A	1420	U
1	1A	1508	A
1	1A	1608	A
1	1A	1762	A
1	1A	1992	G
1	1A	2134	A
1	1A	2181	G
1	1A	2183	C
1	1A	2406	U
1	1A	2422	A
1	1A	2430	A
1	1A	2439	A
1	1A	2629	A
1	1A	2689	U
1	2A	196	A
1	2A	228	A
1	2A	229	A
1	2A	266	G
1	2A	271(K)	U
1	2A	271(M)	G
1	2A	277	C
1	2A	528	A
1	2A	752	A
1	2A	764	A
1	2A	774	A
1	2A	827	U
1	2A	856	C
1	2A	900	A
1	2A	1026	U
1	2A	1210	A
1	2A	1395	A
1	2A	1420	U
1	2A	1442	G
1	2A	1530	C
1	2A	1653	G
1	2A	1913	A

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Mol	Chain	Res	Type
1	2A	1992	G
1	2A	2126	A
1	2A	2406	U
1	2A	2439	A
1	2A	2689	U

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
32	PSU	1a	516	56,32	18,21,22	1.37	2 (11%)	22,30,33	1.93	6 (27%)
54	PSU	1y	39	54	18,21,22	1.35	2 (11%)	22,30,33	1.68	3 (13%)
1	MA6	1A	2058	1,56	19,26,27	0.90	0	18,38,41	1.88	4 (22%)
54	PSU	2y	39	54	18,21,22	1.36	2 (11%)	22,30,33	1.71	4 (18%)
32	2MG	1a	1207	32	18,26,27	0.95	1 (5%)	16,38,41	1.02	1 (6%)
54	PSU	2w	32	54	18,21,22	1.36	2 (11%)	22,30,33	1.78	3 (13%)
32	MA6	1a	1518	32	19,26,27	0.82	0	18,38,41	1.45	2 (11%)
54	PSU	1w	39	54	18,21,22	1.33	2 (11%)	22,30,33	1.79	3 (13%)
54	4SU	2y	8	54	18,21,22	1.65	4 (22%)	26,30,33	2.14	4 (15%)
32	5MC	2a	1407	56,32	18,22,23	0.97	2 (11%)	26,32,35	1.15	2 (7%)
32	MA6	1a	1519	32	19,26,27	0.84	0	18,38,41	1.49	2 (11%)
54	PSU	1y	32	54	18,21,22	1.29	2 (11%)	22,30,33	1.83	3 (13%)
32	5MC	2a	1404	32	18,22,23	1.05	2 (11%)	26,32,35	1.17	2 (7%)
1	2MA	2A	2503	1,56	17,25,26	1.03	1 (5%)	17,37,40	0.95	2 (11%)
32	M2G	1a	966	32	20,27,28	1.48	3 (15%)	22,40,43	1.00	2 (9%)
32	2MG	2a	1207	32	18,26,27	0.93	1 (5%)	16,38,41	1.04	2 (12%)
32	G7M	1a	527	32	20,26,27	1.21	2 (10%)	17,39,42	0.58	0
1	PSU	2A	1911	1	18,21,22	1.34	2 (11%)	22,30,33	1.85	4 (18%)
32	PSU	2a	516	32	18,21,22	1.27	2 (11%)	22,30,33	1.95	4 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
55	5MU	2x	54	55	19,22,23	1.37	5 (26%)	28,32,35	2.14	6 (21%)
54	PSU	1w	32	56,54	18,21,22	1.33	2 (11%)	22,30,33	1.83	3 (13%)
55	4SU	1x	8	55	18,21,22	2.25	6 (33%)	26,30,33	1.79	6 (23%)
54	5MU	1w	54	54	19,22,23	1.35	4 (21%)	28,32,35	2.03	6 (21%)
32	5MC	1a	967	32	18,22,23	0.98	1 (5%)	26,32,35	1.14	2 (7%)
54	4SU	1w	8	54	18,21,22	1.68	5 (27%)	26,30,33	1.76	5 (19%)
1	2MA	1A	2503	1,56	17,25,26	1.01	1 (5%)	17,37,40	1.02	2 (11%)
54	PSU	2w	55	54	18,21,22	1.34	2 (11%)	22,30,33	1.82	3 (13%)
55	4SU	2x	8	55	18,21,22	1.97	6 (33%)	26,30,33	1.35	5 (19%)
1	OMG	1A	2251	1,56,55	18,26,27	1.01	1 (5%)	19,38,41	1.06	2 (10%)
32	5MC	2a	967	32	18,22,23	0.93	2 (11%)	26,32,35	1.08	3 (11%)
55	31H	2x	76	56,55,60	28,34,35	1.10	4 (14%)	23,47,50	1.42	1 (4%)
1	5MC	2A	1942	1	18,22,23	0.99	2 (11%)	26,32,35	1.08	2 (7%)
54	MIA	2y	37	54	18,24,32	1.15	2 (11%)	18,35,47	1.21	2 (11%)
32	G7M	2a	527	56,32	20,26,27	1.25	2 (10%)	17,39,42	0.58	0
54	4SU	2w	8	54	18,21,22	1.69	4 (22%)	26,30,33	1.97	5 (19%)
1	PSU	1A	1917	1	18,21,22	1.32	2 (11%)	22,30,33	1.87	3 (13%)
32	5MC	1a	1400	32	18,22,23	0.97	2 (11%)	26,32,35	1.19	2 (7%)
55	5MC	1x	32	55	18,22,23	0.98	2 (11%)	26,32,35	1.21	3 (11%)
32	UR3	2a	1498	32	19,22,23	1.06	1 (5%)	26,32,35	1.45	1 (3%)
1	OMC	1A	1920	1	19,22,23	0.83	0	26,31,34	0.85	0
54	G7M	1w	46	54	20,26,27	1.22	2 (10%)	17,39,42	0.61	0
54	PSU	2y	55	54	18,21,22	1.42	2 (11%)	22,30,33	1.80	3 (13%)
32	5MC	1a	1407	32	18,22,23	0.90	1 (5%)	26,32,35	1.05	2 (7%)
1	5MC	1A	1962	1,56	18,22,23	0.91	2 (11%)	26,32,35	1.20	2 (7%)
32	UR3	1a	1498	32	19,22,23	0.99	1 (5%)	26,32,35	1.50	3 (11%)
32	M2G	2a	966	32	20,27,28	1.37	3 (15%)	22,40,43	0.97	2 (9%)
43	0TD	1l	92	43	7,9,10	4.57	1 (14%)	6,11,13	7.54	2 (33%)
1	5MU	1A	1939	1,56	19,22,23	1.50	6 (31%)	28,32,35	2.00	5 (17%)
1	OMG	2A	2251	1,55	18,26,27	0.92	1 (5%)	19,38,41	1.13	3 (15%)
55	PSU	1x	55	55	18,21,22	1.31	2 (11%)	22,30,33	1.83	4 (18%)
1	OMU	1A	2552	1,56	19,22,23	1.24	3 (15%)	26,31,34	1.72	5 (19%)
32	4OC	2a	1402	32	20,23,24	0.79	0	26,32,35	0.95	1 (3%)
54	PSU	2w	39	54	18,21,22	1.34	2 (11%)	22,30,33	1.79	3 (13%)
54	PSU	2y	32	54	18,21,22	1.31	2 (11%)	22,30,33	1.83	3 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	PSU	2A	1917	1	18,21,22	1.30	2 (11%)	22,30,33	1.77	3 (13%)
54	MIA	2w	37	54	20,27,32	1.78	3 (15%)	22,39,47	1.80	5 (22%)
55	PSU	2x	55	55	18,21,22	1.33	2 (11%)	22,30,33	1.91	3 (13%)
54	MIA	1y	37	54	18,24,32	1.20	2 (11%)	18,35,47	1.18	2 (11%)
1	PSU	2A	2605	1	18,21,22	1.35	2 (11%)	22,30,33	1.92	3 (13%)
32	5MC	1a	1404	32	18,22,23	1.02	2 (11%)	26,32,35	1.20	2 (7%)
1	5MU	2A	1915	1	19,22,23	1.46	5 (26%)	28,32,35	2.17	6 (21%)
1	PSU	1A	1911	1	18,21,22	1.37	2 (11%)	22,30,33	1.84	3 (13%)
1	5MC	2A	1962	1,56	18,22,23	0.93	2 (11%)	26,32,35	1.17	3 (11%)
54	PSU	1w	55	54	18,21,22	1.36	2 (11%)	22,30,33	1.93	3 (13%)
54	5MU	2y	54	54	19,22,23	1.42	4 (21%)	28,32,35	2.06	7 (25%)
54	MIA	1w	37	54	24,31,32	2.22	3 (12%)	26,44,47	2.76	10 (38%)
32	MA6	2a	1519	32	19,26,27	0.81	0	18,38,41	1.55	2 (11%)
54	4SU	1y	8	54	18,21,22	1.73	6 (33%)	26,30,33	1.76	4 (15%)
32	4OC	1a	1402	32	20,23,24	0.74	0	26,32,35	1.02	1 (3%)
54	G7M	2y	46	54	20,26,27	1.29	2 (10%)	17,39,42	0.58	0
54	PSU	1y	55	54	18,21,22	1.36	2 (11%)	22,30,33	1.84	3 (13%)
1	PSU	1A	2605	1,56	18,21,22	1.42	3 (16%)	22,30,33	1.84	4 (18%)
54	5MU	2w	54	54	19,22,23	1.34	4 (21%)	28,32,35	1.85	7 (25%)
55	5MC	2x	32	55	18,22,23	0.98	2 (11%)	26,32,35	1.27	3 (11%)
55	31H	1x	76	56,55,60	28,34,35	1.11	4 (14%)	23,47,50	1.47	3 (13%)
1	MA6	2A	2058	1	19,26,27	0.83	0	18,38,41	1.96	5 (27%)
1	5MC	1A	1942	1	18,22,23	1.00	2 (11%)	26,32,35	1.23	2 (7%)
54	5MU	1y	54	54	19,22,23	1.46	4 (21%)	28,32,35	1.70	6 (21%)
1	5MU	1A	1915	1	19,22,23	1.41	4 (21%)	28,32,35	2.18	6 (21%)
54	G7M	2w	46	54	20,26,27	1.23	1 (5%)	17,39,42	0.87	0
32	5MC	2a	1400	32	18,22,23	0.96	2 (11%)	26,32,35	1.22	3 (11%)
1	OMU	2A	2552	1,56	19,22,23	1.15	2 (10%)	26,31,34	1.67	5 (19%)
1	OMC	2A	1920	1	19,22,23	0.83	0	26,31,34	0.87	0
54	G7M	1y	46	54	20,26,27	1.28	2 (10%)	17,39,42	0.58	0
55	5MU	1x	54	56,55	19,22,23	1.45	5 (26%)	28,32,35	1.99	6 (21%)
32	MA6	2a	1518	32	19,26,27	0.82	0	18,38,41	1.43	2 (11%)
43	0TD	2l	92	43	7,9,10	4.65	1 (14%)	6,11,13	3.68	3 (50%)
1	5MU	2A	1939	1,56	19,22,23	1.46	6 (31%)	28,32,35	2.31	6 (21%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	PSU	1a	516	56,32	-	0/7/25/26	0/2/2/2
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
1	MA6	1A	2058	1,56	-	0/7/29/30	0/3/3/3
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
32	2MG	1a	1207	32	-	0/5/27/28	0/3/3/3
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	0/7/29/30	0/3/3/3
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	56,32	-	0/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/7/29/30	0/3/3/3
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
1	2MA	2A	2503	1,56	-	2/3/25/26	0/3/3/3
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
32	2MG	2a	1207	32	-	0/5/27/28	0/3/3/3
32	G7M	1a	527	32	-	3/3/25/26	0/3/3/3
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
54	PSU	1w	32	56,54	-	0/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
1	2MA	1A	2503	1,56	-	1/3/25/26	0/3/3/3
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	55	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	1,56,55	-	0/5/27/28	0/3/3/3
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
55	31H	2x	76	56,55,60	-	4/18/40/41	0/3/3/3
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
54	MIA	2y	37	54	-	1/3/25/34	0/3/3/3
32	G7M	2a	527	56,32	-	3/3/25/26	0/3/3/3
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
54	G7M	1w	46	54	-	1/3/25/26	0/3/3/3
54	PSU	2y	55	54	-	3/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
1	5MC	1A	1962	1,56	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
43	0TD	1l	92	43	-	3/7/12/14	-
1	5MU	1A	1939	1,56	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	1,55	-	0/5/27/28	0/3/3/3
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
1	OMU	1A	2552	1,56	-	0/9/27/28	0/2/2/2
32	4OC	2a	1402	32	-	1/9/29/30	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	1/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	2/7/29/34	0/3/3/3
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
54	MIA	1y	37	54	-	0/3/25/34	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	1,56	-	0/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
54	5MU	2y	54	54	-	3/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/11/33/34	0/3/3/3
32	MA6	2a	1519	32	-	3/7/29/30	0/3/3/3
54	4SU	1y	8	54	-	3/7/25/26	0/2/2/2
32	4OC	1a	1402	32	-	1/9/29/30	0/2/2/2
54	G7M	2y	46	54	-	0/3/25/26	0/3/3/3
54	PSU	1y	55	54	-	1/7/25/26	0/2/2/2
1	PSU	1A	2605	1,56	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
55	31H	1x	76	56,55,60	-	5/18/40/41	0/3/3/3
1	MA6	2A	2058	1	-	0/7/29/30	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
54	5MU	1y	54	54	-	2/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MU	1A	1915	1	-	0/7/25/26	0/2/2/2
54	G7M	2w	46	54	-	1/3/25/26	0/3/3/3
32	5MC	2a	1400	32	-	1/7/25/26	0/2/2/2
1	OMU	2A	2552	1,56	-	0/9/27/28	0/2/2/2
1	OMC	2A	1920	1	-	0/9/27/28	0/2/2/2
54	G7M	1y	46	54	-	1/3/25/26	0/3/3/3
55	5MU	1x	54	56,55	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	0/7/29/30	0/3/3/3
43	0TD	2l	92	43	-	4/7/12/14	-
1	5MU	2A	1939	1,56	-	0/7/25/26	0/2/2/2

All (199) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.01	1.70	1.82
43	1l	92	0TD	CB-SB	-11.67	1.70	1.82
54	1w	37	MIA	C13-C14	7.11	1.52	1.32
54	1w	37	MIA	C2-S10	-6.97	1.69	1.75
54	2w	37	MIA	C2-S10	-6.38	1.70	1.75
55	1x	8	4SU	C4-N3	-5.73	1.31	1.37
32	1a	966	M2G	C2-N3	4.74	1.36	1.30
55	2x	8	4SU	C4-N3	-4.64	1.32	1.37
54	2y	8	4SU	C4-S4	-4.31	1.60	1.68
54	2w	8	4SU	C4-S4	-4.30	1.60	1.68
32	2a	966	M2G	C2-N3	4.25	1.35	1.30
55	1x	8	4SU	C4-S4	-4.21	1.60	1.68
54	1w	8	4SU	C4-S4	-4.17	1.60	1.68
54	1y	8	4SU	C4-S4	-4.12	1.60	1.68
55	1x	8	4SU	C2-N3	-4.12	1.30	1.38
54	1y	46	G7M	C5-C4	3.99	1.47	1.39
54	2y	46	G7M	C5-C4	3.95	1.47	1.39
55	2x	8	4SU	C4-S4	-3.89	1.61	1.68
54	2w	46	G7M	C5-C4	3.78	1.46	1.39
54	1w	55	PSU	C6-C5	3.75	1.39	1.35
54	1y	55	PSU	C6-C5	3.75	1.39	1.35
32	2a	527	G7M	C5-C4	3.74	1.46	1.39
54	1w	46	G7M	C5-C4	3.67	1.46	1.39
54	2w	55	PSU	C6-C5	3.66	1.39	1.35
32	1a	527	G7M	C5-C4	3.66	1.46	1.39
54	2y	32	PSU	C6-C5	3.63	1.39	1.35
54	2w	32	PSU	C6-C5	3.60	1.39	1.35
54	1w	32	PSU	C6-C5	3.58	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1y	39	PSU	C6-C5	3.58	1.39	1.35
54	1y	32	PSU	C6-C5	3.48	1.39	1.35
54	2w	39	PSU	C6-C5	3.48	1.39	1.35
1	1A	1911	PSU	C6-C5	3.47	1.39	1.35
54	2y	39	PSU	C6-C5	3.46	1.39	1.35
55	2x	55	PSU	C6-C5	3.43	1.39	1.35
54	1y	8	4SU	C4-N3	-3.43	1.34	1.37
32	1a	516	PSU	C6-C5	3.41	1.39	1.35
32	2a	516	PSU	C6-C5	3.35	1.39	1.35
1	2A	1911	PSU	C6-C5	3.28	1.39	1.35
1	1A	1917	PSU	C6-C5	3.26	1.39	1.35
54	2y	55	PSU	C6-C5	3.26	1.39	1.35
55	2x	8	4SU	C2-N3	-3.24	1.32	1.38
1	2A	2605	PSU	C6-C5	3.23	1.39	1.35
1	2A	1917	PSU	C6-C5	3.22	1.39	1.35
54	2w	8	4SU	C4-N3	-3.20	1.34	1.37
32	2a	1404	5MC	C6-C5	3.19	1.39	1.34
1	1A	2605	PSU	C6-C5	3.12	1.39	1.35
1	1A	1942	5MC	C6-C5	3.10	1.39	1.34
1	1A	1939	5MU	C4-N3	-3.09	1.33	1.38
54	1w	8	4SU	C4-N3	-3.09	1.34	1.37
55	1x	55	PSU	C6-C5	3.09	1.38	1.35
55	1x	8	4SU	C5-C4	-3.07	1.38	1.42
54	1w	39	PSU	C6-C5	3.06	1.38	1.35
32	1a	967	5MC	C6-C5	3.04	1.39	1.34
1	2A	1915	5MU	C6-C5	2.97	1.39	1.34
1	1A	2605	PSU	C4-N3	-2.95	1.33	1.38
55	1x	54	5MU	C6-C5	2.95	1.39	1.34
1	2A	1939	5MU	C6-C5	2.94	1.39	1.34
54	1y	37	MIA	C5-C4	2.92	1.48	1.40
55	1x	76	31H	C5-C4	-2.91	1.33	1.40
32	2a	1407	5MC	C6-C5	2.89	1.39	1.34
32	1a	1404	5MC	C6-C5	2.89	1.39	1.34
55	2x	76	31H	C5-C4	-2.89	1.33	1.40
54	1y	54	5MU	C6-C5	2.89	1.39	1.34
1	1A	1939	5MU	C2-N3	-2.88	1.32	1.38
1	1A	1915	5MU	C2-N1	2.88	1.43	1.38
55	2x	8	4SU	C5-C4	-2.87	1.38	1.42
54	2y	54	5MU	C2-N1	2.87	1.43	1.38
54	1y	37	MIA	C2-N3	2.86	1.36	1.32
1	2A	1942	5MC	C6-C5	2.86	1.39	1.34
55	1x	54	5MU	C4-N3	-2.86	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	37	MIA	C5-C4	2.82	1.48	1.40
54	2y	37	MIA	C5-C4	2.81	1.48	1.40
54	2y	8	4SU	C4-N3	-2.81	1.34	1.37
1	1A	1939	5MU	C6-C5	2.80	1.39	1.34
54	2y	54	5MU	C6-C5	2.80	1.39	1.34
32	1a	1407	5MC	C6-C5	2.80	1.39	1.34
1	2A	1939	5MU	C4-N3	-2.80	1.33	1.38
1	1A	2251	OMG	C6-N1	-2.79	1.33	1.37
55	2x	54	5MU	C6-C5	2.78	1.39	1.34
32	1a	966	M2G	C2-N2	2.78	1.40	1.35
55	1x	32	5MC	C6-C5	2.78	1.39	1.34
55	2x	32	5MC	C6-C5	2.76	1.39	1.34
1	1A	1915	5MU	C6-C5	2.76	1.39	1.34
54	2y	37	MIA	C2-N3	2.73	1.36	1.32
54	1y	54	5MU	C4-N3	-2.70	1.33	1.38
32	2a	1400	5MC	C6-C5	2.68	1.39	1.34
54	1w	37	MIA	C5-C4	2.67	1.48	1.40
1	2A	1911	PSU	C4-N3	-2.67	1.33	1.38
54	2y	39	PSU	C4-N3	-2.67	1.33	1.38
54	1w	39	PSU	C4-N3	-2.65	1.33	1.38
1	1A	2552	OMU	C4-N3	-2.65	1.33	1.38
32	1a	516	PSU	C4-N3	-2.64	1.33	1.38
1	1A	1911	PSU	C4-N3	-2.64	1.33	1.38
54	2y	55	PSU	C4-N3	-2.63	1.33	1.38
32	2a	966	M2G	C2-N2	2.62	1.40	1.35
54	1w	54	5MU	C6-C5	2.61	1.38	1.34
32	1a	1400	5MC	C6-C5	2.60	1.38	1.34
54	2w	54	5MU	C6-C5	2.59	1.38	1.34
1	2A	1915	5MU	C4-N3	-2.57	1.34	1.38
54	1y	39	PSU	C4-N3	-2.57	1.34	1.38
1	2A	1915	5MU	C2-N1	2.56	1.42	1.38
1	2A	1917	PSU	C4-N3	-2.56	1.34	1.38
1	2A	1915	5MU	C4-C5	2.54	1.49	1.44
55	1x	76	31H	C6-C5	-2.54	1.33	1.43
55	2x	76	31H	C6-C5	-2.53	1.33	1.43
1	1A	2552	OMU	C2-N3	-2.53	1.33	1.38
54	1y	54	5MU	C2-N1	2.53	1.42	1.38
32	2a	967	5MC	C6-C5	2.52	1.38	1.34
1	1A	1962	5MC	C6-C5	2.51	1.38	1.34
55	1x	55	PSU	C4-N3	-2.50	1.34	1.38
54	2w	39	PSU	C4-N3	-2.48	1.34	1.38
1	2A	2503	2MA	C2-N3	2.48	1.36	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	2605	PSU	C4-N3	-2.47	1.34	1.38
1	1A	1915	5MU	C4-C5	2.47	1.48	1.44
55	2x	54	5MU	C4-N3	-2.46	1.34	1.38
54	2y	32	PSU	C4-N3	-2.46	1.34	1.38
54	1w	32	PSU	C4-N3	-2.46	1.34	1.38
1	2A	1962	5MC	C6-N1	-2.46	1.33	1.38
54	2w	54	5MU	C4-N3	-2.45	1.34	1.38
54	2w	55	PSU	C4-N3	-2.45	1.34	1.38
55	2x	55	PSU	C4-N3	-2.45	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.44	1.34	1.37
54	1w	8	4SU	C5-C4	-2.43	1.39	1.42
55	1x	32	5MC	C6-N1	-2.43	1.33	1.38
1	2A	2552	OMU	C4-N3	-2.41	1.34	1.38
54	2w	54	5MU	C4-C5	2.41	1.48	1.44
1	2A	2251	OMG	C6-N1	-2.39	1.34	1.37
54	1y	55	PSU	C4-N3	-2.39	1.34	1.38
54	1w	54	5MU	C4-N3	-2.38	1.34	1.38
54	2w	32	PSU	C4-N3	-2.38	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.38	1.34	1.38
1	2A	1939	5MU	C6-N1	-2.38	1.34	1.38
1	2A	1939	5MU	C2-N3	-2.38	1.33	1.38
54	1w	54	5MU	C4-C5	2.36	1.48	1.44
32	1a	966	M2G	C6-N1	-2.36	1.34	1.37
1	1A	1939	5MU	C6-N1	-2.34	1.34	1.38
1	2A	1962	5MC	C6-C5	2.34	1.38	1.34
55	2x	54	5MU	C4-C5	2.34	1.48	1.44
54	2y	54	5MU	C4-C5	2.34	1.48	1.44
32	2a	1498	UR3	C2-N1	2.34	1.41	1.38
54	2y	54	5MU	C4-N3	-2.33	1.34	1.38
55	1x	54	5MU	C4-C5	2.32	1.48	1.44
1	1A	1915	5MU	C4-N3	-2.32	1.34	1.38
54	2w	8	4SU	C5-C4	-2.31	1.39	1.42
54	1y	32	PSU	C4-N3	-2.31	1.34	1.38
54	2y	8	4SU	C2-N1	2.30	1.42	1.38
54	2y	46	G7M	C6-N1	-2.30	1.34	1.37
32	2a	1207	2MG	C6-N1	-2.30	1.34	1.37
32	2a	1404	5MC	C6-N1	-2.30	1.34	1.38
32	1a	527	G7M	C6-N1	-2.29	1.34	1.37
54	1w	55	PSU	C4-N3	-2.29	1.34	1.38
1	1A	1962	5MC	C6-N1	-2.28	1.34	1.38
55	2x	32	5MC	C6-N1	-2.28	1.34	1.38
54	1y	54	5MU	C4-C5	2.27	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
1	2A	1939	5MU	C4-C5	2.25	1.48	1.44
55	1x	8	4SU	O2-C2	2.25	1.27	1.23
54	1y	8	4SU	C5-C4	-2.25	1.39	1.42
54	1w	46	G7M	C6-N1	-2.24	1.34	1.37
54	2w	37	MIA	C2-N3	2.24	1.37	1.34
1	1A	1917	PSU	C4-N3	-2.23	1.34	1.38
32	2a	527	G7M	C6-N1	-2.23	1.34	1.37
1	2A	1942	5MC	C6-N1	-2.23	1.34	1.38
54	1y	8	4SU	C2-N3	-2.22	1.34	1.38
32	1a	1404	5MC	C6-N1	-2.22	1.34	1.38
32	2a	966	M2G	C6-N1	-2.21	1.34	1.37
32	2a	967	5MC	C6-N1	-2.19	1.34	1.38
55	1x	54	5MU	C2-N1	2.18	1.41	1.38
54	1y	8	4SU	C2-N1	2.17	1.41	1.38
54	2w	8	4SU	C2-N1	2.17	1.41	1.38
55	2x	54	5MU	C2-N1	2.16	1.41	1.38
55	2x	76	31H	C5-N7	-2.16	1.31	1.39
32	2a	516	PSU	C4-N3	-2.16	1.34	1.38
55	2x	8	4SU	C6-C5	2.14	1.40	1.35
1	2A	2552	OMU	C2-N3	-2.14	1.34	1.38
54	2y	8	4SU	C5-C4	-2.13	1.39	1.42
1	1A	1942	5MC	C6-N1	-2.13	1.34	1.38
54	1w	54	5MU	C2-N1	2.13	1.41	1.38
55	1x	76	31H	C5-N7	-2.12	1.32	1.39
55	2x	8	4SU	O2-C2	2.10	1.26	1.23
54	1w	8	4SU	C2-N3	-2.09	1.34	1.38
54	1y	46	G7M	C6-N1	-2.09	1.34	1.37
1	2A	1939	5MU	C2-N1	2.09	1.41	1.38
54	1y	8	4SU	C6-C5	2.08	1.39	1.35
55	2x	54	5MU	C6-N1	-2.07	1.34	1.38
1	1A	2552	OMU	C5-C4	-2.06	1.39	1.43
32	1a	1498	UR3	C2-N1	2.05	1.41	1.38
54	1w	8	4SU	C2-N1	2.05	1.41	1.38
55	2x	76	31H	C3'-N3'	2.05	1.49	1.45
1	1A	2605	PSU	C2-N3	-2.04	1.34	1.37
55	1x	76	31H	C3'-N3'	2.04	1.49	1.45
1	1A	2503	2MA	C2-N3	2.04	1.35	1.31
55	1x	8	4SU	C6-C5	2.04	1.39	1.35
1	2A	1915	5MU	C6-N1	-2.04	1.34	1.38
55	1x	54	5MU	C2-N3	-2.03	1.34	1.38
32	2a	1407	5MC	C6-N1	-2.01	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1939	5MU	C2-N1	2.01	1.41	1.38
54	2w	54	5MU	C6-N1	-2.01	1.34	1.38
1	1A	1939	5MU	C4-C5	2.00	1.48	1.44

All (274) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	1l	92	0TD	CSB-SB-CB	-18.05	69.79	102.44
54	1w	37	MIA	C12-C13-C14	-8.75	110.10	127.14
43	2l	92	0TD	CSB-SB-CB	8.01	116.92	102.44
54	2y	8	4SU	C4-N3-C2	-6.58	120.95	127.34
32	1a	516	PSU	N1-C2-N3	6.10	122.05	115.13
54	1w	55	PSU	N1-C2-N3	6.01	121.94	115.13
55	2x	55	PSU	N1-C2-N3	6.01	121.94	115.13
1	2A	2605	PSU	N1-C2-N3	5.96	121.88	115.13
54	1y	55	PSU	N1-C2-N3	5.95	121.87	115.13
1	2A	1939	5MU	C4-N3-C2	-5.94	119.66	127.35
32	2a	516	PSU	N1-C2-N3	5.93	121.85	115.13
32	1a	1498	UR3	C4-N3-C2	-5.91	119.00	124.56
54	2y	8	4SU	C5-C4-N3	5.84	120.11	114.69
54	2w	8	4SU	C4-N3-C2	-5.83	121.68	127.34
54	1w	32	PSU	N1-C2-N3	5.81	121.72	115.13
1	1A	1911	PSU	N1-C2-N3	5.78	121.67	115.13
32	2a	1498	UR3	C4-N3-C2	-5.77	119.13	124.56
1	2A	1911	PSU	N1-C2-N3	5.77	121.66	115.13
54	2w	55	PSU	N1-C2-N3	5.72	121.61	115.13
54	2y	32	PSU	N1-C2-N3	5.70	121.59	115.13
54	2y	55	PSU	N1-C2-N3	5.68	121.57	115.13
54	2w	32	PSU	N1-C2-N3	5.65	121.53	115.13
1	1A	1917	PSU	N1-C2-N3	5.64	121.52	115.13
55	2x	76	31H	N3-C2-N1	-5.64	119.86	128.68
54	2w	39	PSU	N1-C2-N3	5.63	121.51	115.13
55	1x	76	31H	N3-C2-N1	-5.62	119.89	128.68
55	1x	55	PSU	N1-C2-N3	5.58	121.45	115.13
54	1y	32	PSU	N1-C2-N3	5.56	121.44	115.13
54	1w	39	PSU	N1-C2-N3	5.56	121.43	115.13
1	1A	2605	PSU	N1-C2-N3	5.55	121.42	115.13
1	2A	1939	5MU	N3-C2-N1	5.54	122.24	114.89
1	2A	2058	MA6	N3-C2-N1	-5.51	120.07	128.68
54	2y	39	PSU	N1-C2-N3	5.49	121.35	115.13
1	2A	1915	5MU	C4-N3-C2	-5.45	120.29	127.35
54	2w	8	4SU	C5-C4-N3	5.41	119.71	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	1917	PSU	N1-C2-N3	5.41	121.26	115.13
1	1A	1915	5MU	C4-N3-C2	-5.41	120.35	127.35
55	2x	54	5MU	C4-N3-C2	-5.35	120.42	127.35
54	1y	39	PSU	N1-C2-N3	5.32	121.16	115.13
1	1A	2058	MA6	N3-C2-N1	-5.25	120.47	128.68
1	1A	1939	5MU	C5-C4-N3	5.25	119.79	115.31
54	1w	37	MIA	C12-N6-C6	-5.19	114.86	122.55
54	1w	8	4SU	C5-C4-N3	5.13	119.45	114.69
1	1A	1915	5MU	N3-C2-N1	5.13	121.70	114.89
1	2A	1939	5MU	C5-C4-N3	5.11	119.67	115.31
1	2A	1915	5MU	C5-C4-N3	5.02	119.60	115.31
1	2A	1915	5MU	N3-C2-N1	5.02	121.55	114.89
54	1w	54	5MU	N3-C2-N1	5.01	121.54	114.89
54	1w	54	5MU	C4-N3-C2	-5.00	120.88	127.35
54	1y	8	4SU	C4-N3-C2	-4.99	122.49	127.34
55	2x	54	5MU	N3-C2-N1	4.94	121.45	114.89
55	1x	54	5MU	C4-N3-C2	-4.88	121.04	127.35
54	1y	8	4SU	C5-C4-N3	4.86	119.20	114.69
32	2a	1519	MA6	N3-C2-N1	-4.86	121.09	128.68
1	1A	1939	5MU	C4-N3-C2	-4.83	121.11	127.35
54	1w	8	4SU	C4-N3-C2	-4.82	122.66	127.34
32	2a	1518	MA6	N3-C2-N1	-4.78	121.21	128.68
54	2y	54	5MU	C4-N3-C2	-4.77	121.17	127.35
55	1x	54	5MU	N3-C2-N1	4.77	121.22	114.89
1	1A	1915	5MU	C5-C4-N3	4.74	119.35	115.31
55	2x	54	5MU	C5-C4-N3	4.69	119.31	115.31
32	1a	1519	MA6	N3-C2-N1	-4.67	121.38	128.68
32	1a	1518	MA6	N3-C2-N1	-4.63	121.45	128.68
1	2A	1939	5MU	C5-C6-N1	-4.62	118.58	123.34
1	1A	1915	5MU	O4-C4-C5	-4.60	119.57	124.90
1	1A	2552	OMU	C4-N3-C2	-4.57	120.55	126.58
1	1A	1939	5MU	C5-C6-N1	-4.55	118.66	123.34
54	2y	54	5MU	N3-C2-N1	4.53	120.90	114.89
1	2A	2552	OMU	C4-N3-C2	-4.46	120.69	126.58
54	2y	54	5MU	C5-C4-N3	4.40	119.07	115.31
54	2y	54	5MU	O4-C4-C5	-4.39	119.81	124.90
55	1x	54	5MU	C5-C4-N3	4.37	119.04	115.31
54	1w	37	MIA	C15-C14-C13	-4.35	110.07	122.65
54	2w	54	5MU	C4-N3-C2	-4.34	121.73	127.35
1	2A	1915	5MU	O4-C4-C5	-4.27	119.95	124.90
55	2x	54	5MU	O4-C4-C5	-4.27	119.95	124.90
1	1A	2552	OMU	N3-C2-N1	4.24	120.52	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	516	PSU	C4-N3-C2	-4.24	120.23	126.34
1	2A	1939	5MU	O4-C4-C5	-4.24	119.99	124.90
54	2w	54	5MU	N3-C2-N1	4.23	120.51	114.89
1	1A	1939	5MU	N3-C2-N1	4.20	120.46	114.89
32	1a	1404	5MC	C5-C6-N1	-4.18	119.04	123.34
54	1w	54	5MU	O4-C4-C5	-4.16	120.08	124.90
32	2a	516	PSU	C4-N3-C2	-4.14	120.38	126.34
32	1a	967	5MC	C5-C6-N1	-4.13	119.09	123.34
55	1x	8	4SU	C6-C5-C4	-4.12	116.39	119.95
1	2A	2605	PSU	C4-N3-C2	-4.11	120.42	126.34
54	2w	37	MIA	C5-C6-N1	-4.09	117.42	120.81
55	2x	55	PSU	C4-N3-C2	-4.09	120.45	126.34
1	1A	1942	5MC	C5-C6-N1	-4.08	119.14	123.34
54	1w	54	5MU	C5-C4-N3	4.08	118.79	115.31
55	1x	8	4SU	O2-C2-N1	4.06	128.19	122.79
54	2w	37	MIA	C2-N3-C4	4.03	120.88	115.32
55	1x	32	5MC	C5-C6-N1	-4.02	119.21	123.34
32	2a	1400	5MC	C5-C6-N1	-4.01	119.22	123.34
55	1x	54	5MU	C5-C6-N1	-4.00	119.22	123.34
55	1x	8	4SU	S4-C4-N3	-3.99	116.28	120.21
54	2w	54	5MU	C5-C4-N3	3.98	118.71	115.31
1	1A	2605	PSU	C4-N3-C2	-3.97	120.62	126.34
55	1x	55	PSU	C4-N3-C2	-3.97	120.62	126.34
54	1y	54	5MU	N3-C2-N1	3.96	120.15	114.89
32	1a	1400	5MC	C5-C6-N1	-3.95	119.28	123.34
54	1w	37	MIA	C2-N3-C4	3.94	120.75	115.32
54	1w	37	MIA	C16-C14-C13	-3.93	111.28	122.65
1	2A	2552	OMU	N3-C2-N1	3.93	120.11	114.89
54	2y	8	4SU	N3-C2-N1	3.93	120.10	114.89
54	1w	32	PSU	C4-N3-C2	-3.91	120.71	126.34
1	2A	1915	5MU	C5-C6-N1	-3.90	119.33	123.34
1	2A	1911	PSU	C4-N3-C2	-3.88	120.75	126.34
54	1w	55	PSU	C4-N3-C2	-3.85	120.80	126.34
32	2a	516	PSU	O2-C2-N1	-3.84	118.56	122.79
1	1A	1911	PSU	C4-N3-C2	-3.83	120.82	126.34
1	1A	1917	PSU	C4-N3-C2	-3.83	120.82	126.34
1	2A	1917	PSU	C4-N3-C2	-3.82	120.83	126.34
1	1A	2058	MA6	C9-N6-C6	3.82	131.08	119.51
55	2x	32	5MC	C5-C6-N1	-3.82	119.41	123.34
54	2w	39	PSU	C4-N3-C2	-3.81	120.85	126.34
54	2y	32	PSU	C4-N3-C2	-3.79	120.88	126.34
1	1A	1917	PSU	O2-C2-N1	-3.78	118.63	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	2x	54	5MU	C5-C6-N1	-3.78	119.45	123.34
54	1y	32	PSU	C4-N3-C2	-3.77	120.90	126.34
54	1y	55	PSU	C4-N3-C2	-3.74	120.95	126.34
54	1y	54	5MU	C4-N3-C2	-3.74	122.51	127.35
1	2A	2552	OMU	C5-C4-N3	3.73	120.43	114.84
54	2w	55	PSU	C4-N3-C2	-3.71	120.99	126.34
32	2a	1404	5MC	C5-C6-N1	-3.70	119.53	123.34
54	2w	32	PSU	C4-N3-C2	-3.69	121.03	126.34
54	2w	8	4SU	N3-C2-N1	3.66	119.75	114.89
1	1A	1962	5MC	C5-C6-N1	-3.65	119.59	123.34
54	2w	54	5MU	O4-C4-C5	-3.64	120.68	124.90
55	1x	54	5MU	O4-C4-C5	-3.59	120.74	124.90
54	1w	39	PSU	C4-N3-C2	-3.58	121.18	126.34
1	2A	1942	5MC	C5-C6-N1	-3.57	119.67	123.34
1	2A	2058	MA6	C9-N6-C6	-3.56	108.73	119.51
54	1w	55	PSU	O2-C2-N1	-3.56	118.87	122.79
54	1y	54	5MU	C5-C4-N3	3.56	118.35	115.31
54	1y	8	4SU	N3-C2-N1	3.55	119.60	114.89
54	2y	55	PSU	C4-N3-C2	-3.45	121.36	126.34
1	2A	1962	5MC	C5-C6-N1	-3.45	119.79	123.34
54	2y	39	PSU	C4-N3-C2	-3.44	121.38	126.34
54	1y	54	5MU	O4-C4-C5	-3.43	120.93	124.90
32	2a	1407	5MC	C5-C6-N1	-3.42	119.81	123.34
1	1A	2552	OMU	C5-C4-N3	3.42	119.95	114.84
54	2y	8	4SU	C5-C4-S4	-3.40	120.09	124.47
54	1w	39	PSU	O2-C2-N1	-3.40	119.05	122.79
54	1y	39	PSU	C4-N3-C2	-3.37	121.48	126.34
54	1y	32	PSU	O2-C2-N1	-3.37	119.08	122.79
54	2y	37	MIA	N3-C2-N1	-3.34	123.45	128.68
54	1w	37	MIA	C5-C6-N1	-3.33	118.04	120.81
1	2A	1911	PSU	O2-C2-N1	-3.30	119.16	122.79
54	2y	32	PSU	O2-C2-N1	-3.30	119.16	122.79
32	1a	1407	5MC	C5-C6-N1	-3.28	119.97	123.34
1	1A	2058	MA6	N1-C6-N6	3.28	120.50	117.06
32	1a	1519	MA6	C4-C5-N7	-3.20	106.06	109.40
32	2a	1519	MA6	C4-C5-N7	-3.20	106.07	109.40
54	2y	55	PSU	O2-C2-N1	-3.18	119.29	122.79
32	2a	1407	5MC	C5-C4-N3	-3.17	118.25	121.67
54	1w	54	5MU	C5-C6-N1	-3.15	120.09	123.34
54	2y	54	5MU	C5-C6-N1	-3.14	120.11	123.34
54	1w	8	4SU	N3-C2-N1	3.13	119.05	114.89
1	1A	1911	PSU	O2-C2-N1	-3.13	119.34	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	1y	55	PSU	O2-C2-N1	-3.12	119.35	122.79
54	1y	37	MIA	N3-C2-N1	-3.12	123.80	128.68
55	2x	55	PSU	O2-C2-N1	-3.12	119.36	122.79
54	2w	55	PSU	O2-C2-N1	-3.12	119.36	122.79
32	2a	967	5MC	C5-C6-N1	-3.11	120.14	123.34
55	1x	8	4SU	C5-C4-N3	3.11	117.58	114.69
43	2l	92	0TD	OD2-CG-CB	3.09	119.82	113.15
1	1A	1939	5MU	O4-C4-C5	-3.08	121.33	124.90
43	1l	92	0TD	OD2-CG-CB	3.06	119.76	113.15
1	1A	1942	5MC	C5-C4-N3	-3.05	118.38	121.67
54	2w	8	4SU	C5-C4-S4	-3.03	120.57	124.47
55	2x	8	4SU	C6-C5-C4	-3.02	117.34	119.95
1	1A	2552	OMU	O4-C4-C5	-3.01	119.86	125.16
1	2A	2605	PSU	O2-C2-N1	-2.96	119.53	122.79
32	1a	1402	4OC	C6-C5-C4	2.95	120.58	116.96
1	1A	1915	5MU	C5-C6-N1	-2.95	120.30	123.34
54	2w	32	PSU	O2-C2-N1	-2.92	119.58	122.79
1	2A	1917	PSU	O2-C2-N1	-2.91	119.59	122.79
54	1y	54	5MU	C5-C6-N1	-2.90	120.35	123.34
54	1w	37	MIA	C2-N1-C6	2.90	122.38	117.19
54	2w	54	5MU	C5-C6-N1	-2.88	120.37	123.34
32	1a	1518	MA6	C4-C5-N7	-2.87	106.41	109.40
54	1w	54	5MU	O2-C2-N1	-2.86	118.98	122.79
54	2w	37	MIA	C12-N6-C6	-2.84	120.42	122.87
54	2w	39	PSU	O2-C2-N1	-2.83	119.67	122.79
54	2y	54	5MU	C1'-N1-C2	2.82	122.67	117.57
55	2x	54	5MU	O2-C2-N1	-2.81	119.05	122.79
1	2A	2058	MA6	C10-N6-C9	2.81	125.18	116.12
55	1x	55	PSU	O2-C2-N1	-2.81	119.70	122.79
32	2a	1518	MA6	C4-C5-N7	-2.80	106.48	109.40
32	1a	1404	5MC	C5-C4-N3	-2.78	118.67	121.67
1	2A	2552	OMU	O4-C4-C5	-2.78	120.27	125.16
1	2A	1939	5MU	O2-C2-N1	-2.77	119.11	122.79
54	1w	37	MIA	C11-S10-C2	-2.76	100.20	102.27
55	2x	8	4SU	C1'-N1-C2	2.75	122.55	117.57
55	1x	32	5MC	C5-C4-N3	-2.73	118.73	121.67
55	2x	8	4SU	C5-C4-N3	2.73	117.22	114.69
1	1A	2605	PSU	O2-C2-N1	-2.72	119.79	122.79
54	1w	8	4SU	C5-C4-S4	-2.72	120.97	124.47
32	2a	1404	5MC	C5-C4-N3	-2.70	118.77	121.67
32	1a	1207	2MG	C8-N7-C5	2.67	108.08	102.99
55	2x	32	5MC	O2-C2-N3	-2.64	118.04	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	2x	8	4SU	O2-C2-N1	2.63	126.28	122.79
54	2w	37	MIA	C4-C5-N7	-2.62	106.67	109.40
32	2a	1400	5MC	O2-C2-N3	-2.61	118.08	122.33
54	2y	37	MIA	C4-C5-N7	-2.60	106.69	109.40
54	1w	32	PSU	O2-C2-N1	-2.60	119.93	122.79
54	1w	37	MIA	C4-C5-N7	-2.59	106.70	109.40
54	1y	37	MIA	C4-C5-N7	-2.59	106.70	109.40
1	1A	2251	OMG	C8-N7-C5	2.56	107.88	102.99
32	1a	516	PSU	O2-C2-N1	-2.56	119.97	122.79
54	2w	37	MIA	C2-N1-C6	2.54	121.73	117.19
55	1x	8	4SU	O2-C2-N3	-2.54	116.77	121.50
54	2w	54	5MU	C5M-C5-C4	2.53	121.55	118.77
1	1A	1962	5MC	C5-C4-N3	-2.53	118.95	121.67
1	2A	2251	OMG	C8-N7-C5	2.53	107.80	102.99
43	2l	92	0TD	OD1-CG-CB	-2.52	117.17	122.44
55	1x	54	5MU	O2-C2-N1	-2.51	119.45	122.79
55	1x	8	4SU	C1'-N1-C2	2.51	122.11	117.57
55	2x	32	5MC	C5-C4-N3	-2.48	119.00	121.67
54	2y	54	5MU	C1'-N1-C6	-2.48	117.00	121.12
32	2a	967	5MC	C5-C4-N3	-2.47	119.01	121.67
32	1a	1407	5MC	C5-C4-N3	-2.46	119.02	121.67
1	2A	2251	OMG	C5-C6-N1	2.46	118.29	113.95
1	2A	2503	2MA	C5-C6-N1	2.45	118.25	114.02
1	2A	1962	5MC	C5-C4-N3	-2.45	119.03	121.67
32	2a	1402	4OC	C6-C5-C4	2.45	119.95	116.96
1	1A	2503	2MA	C8-N7-C5	2.44	107.65	102.99
1	1A	2503	2MA	C5-C6-N1	2.43	118.21	114.02
1	2A	1942	5MC	C5-C4-N3	-2.42	119.06	121.67
1	2A	2058	MA6	C1'-N9-C4	-2.40	122.43	126.64
54	2w	54	5MU	O2-C2-N1	-2.39	119.61	122.79
54	1y	39	PSU	O2-C2-N1	-2.38	120.17	122.79
1	1A	2552	OMU	O2-C2-N1	-2.38	119.63	122.79
1	2A	2552	OMU	O2-C2-N1	-2.37	119.64	122.79
32	2a	966	M2G	C8-N7-C5	2.36	107.49	102.99
54	2y	39	PSU	O2-C2-N1	-2.35	120.21	122.79
32	1a	966	M2G	C8-N7-C5	2.32	107.42	102.99
1	1A	2251	OMG	C5-C6-N1	2.32	118.05	113.95
1	1A	2605	PSU	C5-C6-N1	-2.32	118.63	122.11
32	2a	1207	2MG	C8-N7-C5	2.31	107.39	102.99
1	1A	1915	5MU	O2-C2-N1	-2.29	119.74	122.79
32	2a	1207	2MG	C5-C6-N1	2.29	118.00	113.95
32	1a	967	5MC	C5-C4-N3	-2.28	119.21	121.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	1a	516	PSU	C5-C6-N1	-2.28	118.69	122.11
1	2A	2503	2MA	C8-N7-C5	2.27	107.32	102.99
55	1x	76	31H	OCN-CN-N	-2.25	119.34	125.27
32	1a	1400	5MC	C5-C4-N3	-2.23	119.27	121.67
1	2A	1915	5MU	O2-C2-N1	-2.21	119.85	122.79
55	1x	76	31H	CA-N-CN	-2.20	119.44	122.82
55	2x	8	4SU	S4-C4-N3	-2.20	118.05	120.21
32	1a	1498	UR3	C6-N1-C2	-2.19	119.83	121.79
54	2w	8	4SU	C1'-N1-C2	2.18	121.53	117.57
1	2A	2058	MA6	C10-N6-C6	2.17	126.09	119.51
54	1w	37	MIA	N3-C2-N1	-2.16	123.00	126.98
32	2a	516	PSU	O4'-C1'-C2'	2.12	108.14	105.14
32	2a	966	M2G	C5-C6-N1	2.12	117.69	113.95
32	1a	966	M2G	C5-C6-N1	2.10	117.67	113.95
54	1y	8	4SU	C5-C4-S4	-2.10	121.76	124.47
32	1a	516	PSU	O4'-C1'-C2'	2.09	108.09	105.14
32	1a	1498	UR3	C1'-N1-C2	2.09	120.51	116.99
1	2A	2251	OMG	O6-C6-C5	-2.06	120.35	124.37
55	1x	32	5MC	O2-C2-N3	-2.06	118.98	122.33
1	2A	1962	5MC	CM5-C5-C6	-2.05	120.12	122.85
1	2A	1911	PSU	C5-C6-N1	-2.04	119.04	122.11
54	2y	39	PSU	C5-C6-N1	-2.04	119.05	122.11
32	1a	516	PSU	O2-C2-N3	-2.03	117.98	121.82
55	1x	55	PSU	C5-C6-N1	-2.03	119.06	122.11
54	1y	54	5MU	C1'-N1-C2	2.03	121.24	117.57
32	2a	1400	5MC	C5-C4-N3	-2.03	119.49	121.67
1	1A	2058	MA6	C10-N6-C6	-2.03	113.38	119.51
32	2a	967	5MC	CM5-C5-C6	-2.02	120.15	122.85
54	1w	8	4SU	C1'-N1-C2	2.01	121.21	117.57

There are no chirality outliers.

All (55) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1519	MA6	O4'-C4'-C5'-O5'
43	1l	92	0TD	CA-CB-SB-CSB
43	1l	92	0TD	CG-CB-SB-CSB
54	1w	37	MIA	C12-C13-C14-C16
55	1x	76	31H	C3'-C4'-C5'-O5'
55	1x	76	31H	C-CA-CB-CG
54	1y	8	4SU	O4'-C4'-C5'-O5'
54	1y	46	G7M	C4'-C5'-O5'-P

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Mol	Chain	Res	Type	Atoms
32	2a	527	G7M	C3'-C4'-C5'-O5'
43	2l	92	0TD	O-C-CA-CB
43	2l	92	0TD	SB-CB-CG-OD2
55	2x	76	31H	C3'-C4'-C5'-O5'
55	2x	76	31H	C-CA-CB-CG
54	2y	54	5MU	C3'-C4'-C5'-O5'
54	2y	54	5MU	O4'-C4'-C5'-O5'
54	2y	55	PSU	C3'-C4'-C5'-O5'
54	2y	55	PSU	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
55	1x	76	31H	O4'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	1y	54	5MU	O4'-C4'-C5'-O5'
55	2x	76	31H	O4'-C4'-C5'-O5'
32	1a	527	G7M	C3'-C4'-C5'-O5'
55	2x	76	31H	C4'-C5'-O5'-P
32	2a	527	G7M	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
55	1x	76	31H	C4'-C5'-O5'-P
54	2w	46	G7M	C4'-C5'-O5'-P
1	2A	2503	2MA	O4'-C4'-C5'-O5'
54	1y	54	5MU	C3'-C4'-C5'-O5'
43	2l	92	0TD	CG-CB-SB-CSB
43	2l	92	0TD	SB-CB-CG-OD1
55	1x	76	31H	CB-CA-N-CN
32	1a	527	G7M	O4'-C4'-C5'-O5'
54	1w	46	G7M	C4'-C5'-O5'-P
32	1a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C4'-C5'-O5'-P
54	2y	37	MIA	C3'-C4'-C5'-O5'
32	1a	527	G7M	C4'-C5'-O5'-P
54	1y	55	PSU	O4'-C1'-C5-C4
32	2a	1519	MA6	C3'-C4'-C5'-O5'
1	2A	1917	PSU	O4'-C4'-C5'-O5'
1	2A	2503	2MA	C3'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C4'-C5'-O5'
54	2w	37	MIA	N1-C2-S10-C11
54	2w	37	MIA	N3-C2-S10-C11
54	2y	54	5MU	C2'-C1'-N1-C2
54	2y	55	PSU	O4'-C1'-C5-C6
1	1A	1920	OMC	C2'-C1'-N1-C2
1	1A	2503	2MA	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
32	2a	1402	4OC	O4'-C4'-C5'-O5'
43	1l	92	0TD	SB-CB-CG-OD1
32	1a	1519	MA6	C4'-C5'-O5'-P
32	2a	527	G7M	C4'-C5'-O5'-P
54	1y	8	4SU	C4'-C5'-O5'-P

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 2682 ligands modelled in this entry, 2678 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	WC9	2A	3809	-	34,37,37	1.32	5 (14%)	35,53,53	1.68	4 (11%)
57	WC9	1A	4098	-	34,37,37	1.42	5 (14%)	35,53,53	1.82	7 (20%)
59	SF4	2d	303	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	WC9	2A	3809	-	-	2/28/71/71	0/3/4/4
57	WC9	1A	4098	-	-	2/28/71/71	0/3/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	SF4	2d	303	35	-	-	0/6/5/5
59	SF4	1d	302	35	-	-	0/6/5/5

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	2A	3809	WC9	CAM-CBF	-4.35	1.40	1.51
57	1A	4098	WC9	CAM-CBF	-4.17	1.40	1.51
57	1A	4098	WC9	CD2-CAZ	-2.95	1.50	1.53
57	1A	4098	WC9	CAF-CAE	-2.90	1.48	1.53
57	2A	3809	WC9	OAW-CB	2.77	1.45	1.42
57	1A	4098	WC9	CAB-CAK	-2.51	1.49	1.53
57	2A	3809	WC9	CD2-CAZ	-2.50	1.51	1.53
57	2A	3809	WC9	CG-CB	-2.32	1.49	1.53
57	1A	4098	WC9	CBF-CBH	2.11	1.40	1.31
57	2A	3809	WC9	CBF-CBH	2.07	1.40	1.31

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	2A	3809	WC9	CBC-CBB-CAZ	-6.38	110.58	116.03
57	1A	4098	WC9	CBC-CBB-CAZ	-6.16	110.77	116.03
57	1A	4098	WC9	CD1-CG-CB	-5.44	97.07	103.80
57	2A	3809	WC9	CD1-CG-CB	-4.91	97.73	103.80
57	1A	4098	WC9	OAA-CAF-CAE	-3.05	106.47	110.31
57	1A	4098	WC9	CAF-OAA-CAB	-2.85	110.25	114.12
57	1A	4098	WC9	OAA-CAF-SAG	2.74	116.38	109.82
57	1A	4098	WC9	CD2-CAZ-CAY	-2.60	110.00	113.89
57	2A	3809	WC9	CAF-OAA-CAB	-2.49	110.75	114.12
57	2A	3809	WC9	CD2-CAZ-CAY	-2.13	110.70	113.89
57	1A	4098	WC9	CAF-CAE-CAD	2.03	114.60	110.59

There are no chirality outliers.

All (4) torsion outliers are listed below:

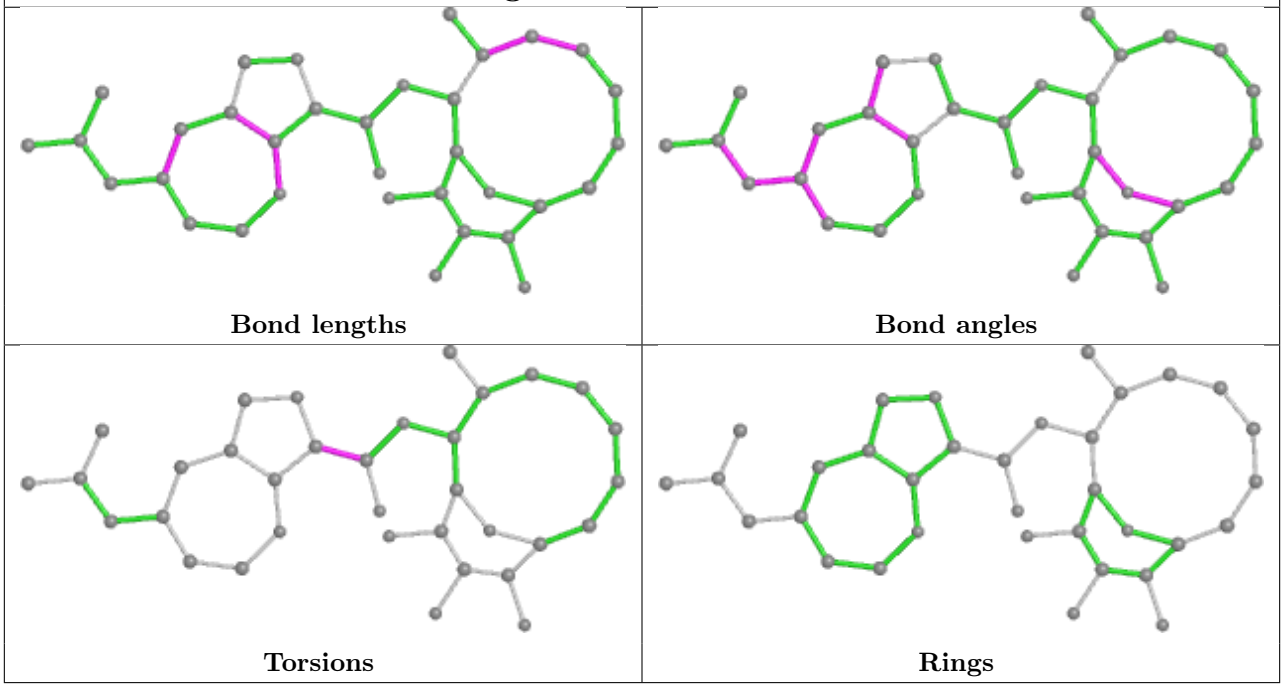
Mol	Chain	Res	Type	Atoms
57	1A	4098	WC9	O-C-CA-CB
57	1A	4098	WC9	NAL-C-CA-CB
57	2A	3809	WC9	O-C-CA-CB
57	2A	3809	WC9	NAL-C-CA-CB

There are no ring outliers.

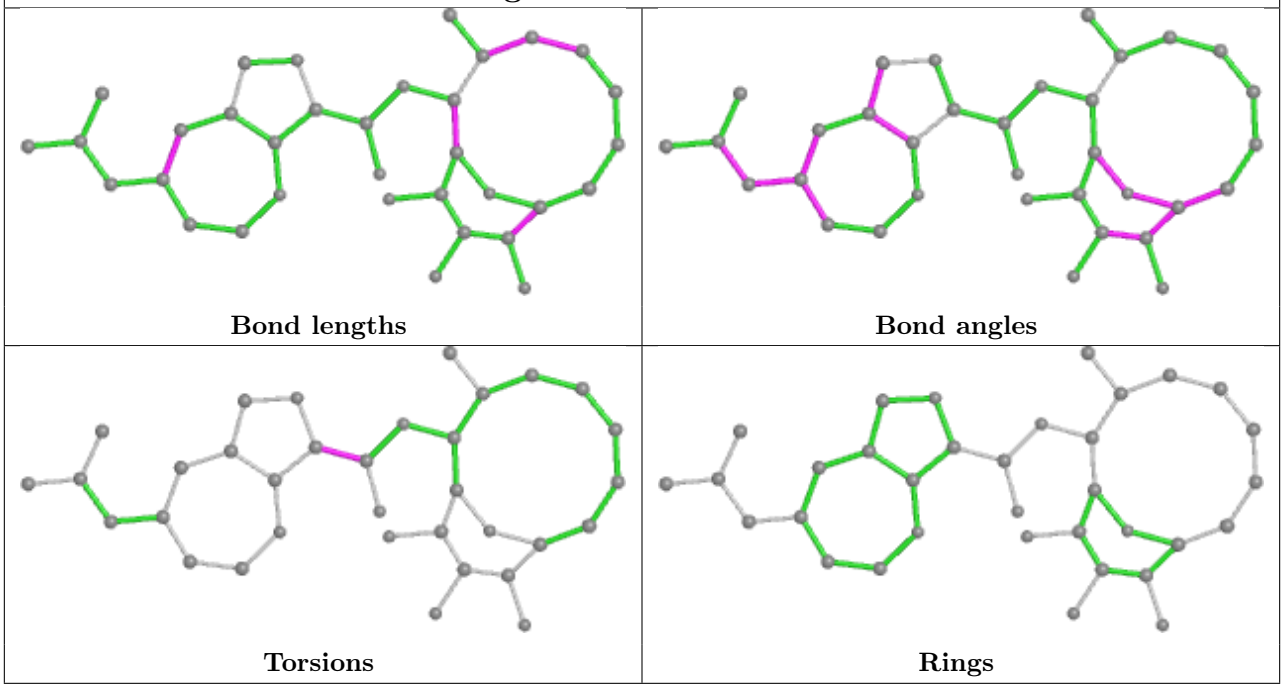
No monomer is involved in short contacts.

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 then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand WC9 2A 3809



Ligand WC9 1A 4098



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	1A	2859/2915 (98%)	0.78	103 (3%) 42 49	24, 40, 98, 110	0
1	2A	2788/2915 (95%)	0.61	124 (4%) 34 41	35, 58, 96, 108	0
2	1B	120/121 (99%)	0.24	0 100 100	35, 53, 67, 93	0
2	2B	120/121 (99%)	-0.09	0 100 100	62, 75, 85, 97	0
3	1D	275/276 (99%)	0.90	8 (2%) 51 59	24, 40, 53, 82	0
3	2D	275/276 (99%)	1.03	25 (9%) 9 11	33, 50, 62, 82	0
4	1E	204/206 (99%)	0.86	4 (1%) 65 72	23, 42, 61, 74	0
4	2E	204/206 (99%)	0.96	17 (8%) 11 13	39, 60, 73, 83	0
5	1F	203/210 (96%)	0.71	2 (0%) 82 86	22, 46, 70, 89	0
5	2F	203/210 (96%)	0.74	15 (7%) 14 18	36, 68, 81, 87	0
6	1G	181/182 (99%)	0.59	9 (4%) 28 34	42, 62, 75, 89	0
6	2G	181/182 (99%)	0.80	17 (9%) 8 10	67, 77, 85, 92	0
7	1H	174/180 (96%)	0.65	2 (1%) 80 85	40, 55, 67, 77	0
7	2H	174/180 (96%)	1.67	59 (33%) 0 0	71, 85, 94, 96	0
8	1I	146/148 (98%)	0.41	3 (2%) 63 70	48, 75, 83, 86	0
8	2I	146/148 (98%)	0.64	13 (8%) 9 11	52, 74, 83, 88	0
9	1N	140/140 (100%)	0.84	2 (1%) 75 81	30, 41, 61, 76	0
9	2N	140/140 (100%)	1.09	23 (16%) 1 1	52, 67, 80, 88	0
10	1O	122/122 (100%)	0.85	2 (1%) 72 78	31, 43, 60, 66	0
10	2O	122/122 (100%)	0.89	8 (6%) 18 21	48, 61, 72, 76	0
11	1P	149/150 (99%)	0.75	4 (2%) 54 61	25, 50, 71, 78	0
11	2P	149/150 (99%)	0.76	18 (12%) 4 5	40, 68, 85, 91	0
12	1Q	141/141 (100%)	0.86	8 (5%) 23 28	30, 44, 62, 74	0
12	2Q	141/141 (100%)	1.37	35 (24%) 0 0	54, 68, 79, 88	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	1R	118/118 (100%)	0.83	1 (0%) 86 89	28, 38, 51, 61	0
13	2R	118/118 (100%)	0.87	5 (4%) 36 42	44, 54, 64, 74	0
14	1S	110/112 (98%)	0.58	2 (1%) 68 74	42, 53, 66, 69	0
14	2S	110/112 (98%)	0.82	11 (10%) 7 9	63, 73, 79, 85	0
15	1T	131/146 (89%)	0.71	2 (1%) 73 79	36, 49, 74, 83	0
15	2T	131/146 (89%)	0.63	5 (3%) 40 47	52, 65, 79, 85	0
16	1U	116/118 (98%)	0.91	1 (0%) 84 88	25, 33, 46, 68	0
16	2U	116/118 (98%)	0.98	11 (9%) 8 10	47, 63, 77, 83	0
17	1V	101/101 (100%)	0.65	0 100 100	25, 41, 58, 68	0
17	2V	101/101 (100%)	0.59	11 (10%) 5 7	44, 73, 81, 93	0
18	1W	112/113 (99%)	0.87	0 100 100	27, 34, 54, 82	0
18	2W	112/113 (99%)	0.96	7 (6%) 20 23	43, 51, 67, 95	0
19	1X	95/96 (98%)	0.75	2 (2%) 63 70	31, 44, 69, 84	0
19	2X	95/96 (98%)	0.92	10 (10%) 6 8	46, 61, 75, 86	0
20	1Y	107/110 (97%)	0.70	1 (0%) 84 88	37, 52, 69, 78	0
20	2Y	107/110 (97%)	1.12	14 (13%) 3 4	57, 71, 83, 90	0
21	1Z	154/206 (74%)	0.63	11 (7%) 16 19	40, 67, 89, 93	0
21	2Z	160/206 (77%)	1.14	32 (20%) 1 1	70, 84, 93, 96	0
22	10	77/85 (90%)	0.93	3 (3%) 39 45	30, 41, 55, 72	0
22	20	83/85 (97%)	1.82	16 (19%) 1 1	46, 65, 78, 87	0
23	11	97/98 (98%)	0.98	7 (7%) 15 18	31, 47, 75, 80	0
23	21	97/98 (98%)	0.96	10 (10%) 6 8	39, 55, 75, 80	0
24	12	70/72 (97%)	0.76	2 (2%) 51 59	41, 53, 65, 76	0
24	22	70/72 (97%)	0.83	8 (11%) 5 6	58, 72, 80, 85	0
25	13	59/60 (98%)	0.73	1 (1%) 70 76	28, 38, 62, 81	0
25	23	59/60 (98%)	0.91	9 (15%) 2 2	60, 68, 81, 89	0
26	14	69/71 (97%)	0.88	10 (14%) 2 3	57, 77, 90, 95	0
26	24	69/71 (97%)	1.19	15 (21%) 0 0	76, 87, 95, 98	0
27	15	59/60 (98%)	0.88	3 (5%) 28 33	24, 35, 53, 60	0
27	25	59/60 (98%)	0.84	2 (3%) 45 52	41, 53, 68, 82	0
28	16	53/54 (98%)	0.69	0 100 100	37, 45, 58, 63	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	26	53/54 (98%)	0.80	3 (5%) 23 28	48, 61, 70, 75	0
29	17	48/49 (97%)	1.17	6 (12%) 3 5	24, 31, 64, 70	0
29	27	48/49 (97%)	1.43	7 (14%) 2 3	36, 42, 70, 76	0
30	18	64/65 (98%)	0.90	2 (3%) 49 56	29, 37, 44, 58	0
30	28	64/65 (98%)	1.14	9 (14%) 2 3	48, 56, 64, 70	0
31	19	37/37 (100%)	0.94	1 (2%) 54 61	34, 42, 59, 62	0
31	29	37/37 (100%)	1.88	13 (35%) 0 0	66, 72, 79, 83	0
32	1a	1488/1521 (97%)	0.43	47 (3%) 47 55	38, 69, 96, 108	0
32	2a	1491/1521 (98%)	0.47	70 (4%) 31 38	48, 75, 96, 109	0
33	1b	231/256 (90%)	0.97	39 (16%) 1 1	67, 81, 90, 94	0
33	2b	231/256 (90%)	1.28	52 (22%) 0 0	73, 85, 91, 95	0
34	1c	206/239 (86%)	1.35	45 (21%) 0 0	64, 76, 86, 95	0
34	2c	206/239 (86%)	1.51	64 (31%) 0 0	75, 83, 90, 92	0
35	1d	208/209 (99%)	0.99	31 (14%) 2 2	55, 72, 81, 90	0
35	2d	208/209 (99%)	0.85	14 (6%) 17 21	60, 68, 76, 82	0
36	1e	148/162 (91%)	0.94	11 (7%) 14 18	53, 67, 77, 84	0
36	2e	148/162 (91%)	1.02	27 (18%) 1 1	60, 74, 82, 86	0
37	1f	100/101 (99%)	0.42	2 (2%) 65 72	59, 70, 78, 83	0
37	2f	100/101 (99%)	0.50	2 (2%) 65 72	60, 69, 77, 84	0
38	1g	155/156 (99%)	0.95	16 (10%) 6 8	64, 73, 85, 89	0
38	2g	155/156 (99%)	1.16	29 (18%) 1 1	68, 78, 88, 93	0
39	1h	137/138 (99%)	0.66	10 (7%) 15 18	55, 68, 74, 80	0
39	2h	137/138 (99%)	1.23	31 (22%) 0 0	67, 76, 81, 87	0
40	1i	127/128 (99%)	1.60	44 (34%) 0 0	59, 80, 87, 89	0
40	2i	127/128 (99%)	2.33	69 (54%) 0 0	72, 84, 90, 91	0
41	1j	97/105 (92%)	1.54	35 (36%) 0 0	59, 80, 89, 93	0
41	2j	96/105 (91%)	2.27	43 (44%) 0 0	75, 86, 92, 95	0
42	1k	114/129 (88%)	0.87	11 (9%) 8 10	45, 67, 78, 84	0
42	2k	114/129 (88%)	0.94	10 (8%) 10 11	55, 72, 82, 86	0
43	1l	121/132 (91%)	0.82	8 (6%) 18 21	46, 56, 70, 75	0
43	2l	121/132 (91%)	1.25	27 (22%) 0 0	54, 67, 78, 83	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	1m	123/126 (97%)	1.17	19 (15%) 2 2	58, 73, 82, 90	0
44	2m	122/126 (96%)	1.50	33 (27%) 0 0	72, 83, 87, 93	0
45	1n	60/61 (98%)	1.73	21 (35%) 0 0	63, 72, 78, 80	0
45	2n	60/61 (98%)	3.78	50 (83%) 0 0	76, 83, 89, 93	0
46	1o	88/89 (98%)	0.70	7 (7%) 12 15	49, 67, 75, 82	0
46	2o	88/89 (98%)	0.76	8 (9%) 9 11	60, 72, 82, 85	0
47	1p	82/88 (93%)	1.00	10 (12%) 4 5	59, 72, 81, 86	0
47	2p	82/88 (93%)	0.98	5 (6%) 21 25	59, 69, 77, 82	0
48	1q	99/105 (94%)	0.92	12 (12%) 4 5	55, 68, 77, 80	0
48	2q	99/105 (94%)	1.33	29 (29%) 0 0	61, 72, 82, 84	0
49	1r	68/88 (77%)	0.77	5 (7%) 14 18	59, 67, 79, 82	0
49	2r	68/88 (77%)	1.09	8 (11%) 4 6	61, 70, 79, 83	0
50	1s	83/93 (89%)	0.71	7 (8%) 11 13	66, 76, 83, 89	0
50	2s	83/93 (89%)	1.61	30 (36%) 0 0	78, 86, 91, 96	0
51	1t	96/106 (90%)	1.02	13 (13%) 3 4	62, 73, 83, 85	0
51	2t	96/106 (90%)	1.01	14 (14%) 2 3	59, 71, 84, 85	0
52	1u	23/27 (85%)	1.79	11 (47%) 0 0	66, 70, 74, 79	0
52	2u	23/27 (85%)	2.83	18 (78%) 0 0	73, 79, 83, 85	0
53	1v	13/24 (54%)	1.72	4 (30%) 0 0	50, 59, 81, 94	0
53	2v	13/24 (54%)	2.27	6 (46%) 0 0	64, 74, 92, 100	0
54	1w	65/76 (85%)	0.98	10 (15%) 2 2	58, 87, 98, 104	0
54	1y	67/76 (88%)	0.83	10 (14%) 2 2	39, 94, 101, 104	0
54	2w	62/76 (81%)	1.41	14 (22%) 0 0	74, 93, 102, 106	0
54	2y	66/76 (86%)	1.40	19 (28%) 0 0	52, 98, 103, 106	0
55	1x	71/77 (92%)	0.42	1 (1%) 75 81	32, 63, 81, 90	0
55	2x	71/77 (92%)	0.46	4 (5%) 24 29	49, 76, 88, 101	0
All	All	20860/21748 (95%)	0.83	1859 (8%) 9 11	22, 65, 90, 110	0

All (1859) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	21.8
44	2m	123	ALA	21.3

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Mol	Chain	Res	Type	RSRZ
44	1m	123	ALA	17.9
1	1A	653	A	16.8
1	2A	652(V)	C	15.9
44	1m	124	PRO	15.1
1	1A	652(C)	G	14.9
22	20	2	ALA	14.8
1	2A	652(U)	G	14.7
1	1A	652(V)	C	13.8
22	20	4	LYS	13.2
1	2A	653	A	12.3
1	1A	652(U)	G	12.2
22	20	3	HIS	12.1
1	1A	652(S)	C	12.0
1	2A	652(C)	G	11.8
1	2A	652(T)	C	11.5
32	2a	1030(B)	C	11.2
1	2A	2802	G	10.9
1	1A	654	A	10.8
1	2A	1509	C	10.4
21	2Z	144	LEU	10.3
45	2n	39	LEU	10.0
45	2n	38	GLY	9.7
38	2g	82	GLY	9.7
1	1A	652(T)	C	9.3
45	2n	34	TYR	9.2
45	2n	25	VAL	9.1
44	2m	122	LYS	9.0
1	2A	652(D)	C	8.6
41	2j	47	PHE	8.6
50	2s	80	TYR	8.6
1	2A	2146	C	8.3
1	1A	1509	C	8.3
1	2A	888	C	8.2
38	2g	154	TYR	8.2
38	1g	80	VAL	8.2
45	2n	61	TRP	8.1
54	2y	36	A	8.0
32	2a	1030(A)	G	7.9
1	2A	2145	C	7.9
38	2g	156	TRP	7.8
41	2j	63	PHE	7.7
21	2Z	149	SER	7.7

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Mol	Chain	Res	Type	RSRZ
1	2A	654	A	7.7
40	2i	114	TYR	7.5
45	2n	2	ALA	7.5
1	2A	885	C	7.5
22	20	6	GLY	7.5
1	2A	2801(A)	A	7.5
44	1m	2	ALA	7.4
38	2g	81	GLY	7.4
23	21	2	SER	7.4
1	1A	652(D)	C	7.3
38	2g	80	VAL	7.1
40	2i	115	GLY	7.1
20	2Y	1	MET	7.1
22	20	5	LYS	7.0
32	2a	1001(A)	G	7.0
38	2g	83	ALA	7.0
54	2w	4	C	7.0
1	1A	652(E)	G	7.0
35	1d	167	GLY	6.8
1	1A	888	C	6.8
48	1q	98	LEU	6.7
38	2g	79	ARG	6.7
26	24	51	ASP	6.6
1	2A	2138	C	6.6
40	1i	106	ALA	6.6
34	2c	8	ILE	6.6
1	1A	1096	A	6.6
7	2H	48	GLY	6.5
26	24	49	PHE	6.5
32	1a	1036	G	6.5
7	2H	35	VAL	6.5
34	2c	6	HIS	6.5
38	1g	79	ARG	6.5
1	2A	884	C	6.4
1	1A	887	A	6.4
32	1a	1532	U	6.4
44	2m	121	LYS	6.4
34	2c	157	ILE	6.4
1	1A	885	C	6.4
53	2v	12	A	6.3
3	2D	2	ALA	6.3
1	2A	2154	G	6.3

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Mol	Chain	Res	Type	RSRZ
32	2a	1257	U	6.3
32	1a	1030(B)	C	6.3
1	2A	2793	G	6.3
1	1A	884	C	6.3
45	2n	55	GLY	6.2
40	1i	19	LEU	6.2
32	1a	1001(A)	G	6.2
1	1A	652(F)	G	6.2
32	2a	1033	G	6.2
45	2n	51	GLY	6.1
54	2w	73	A	6.1
3	1D	276	LYS	6.1
43	2l	64	TYR	6.1
43	2l	18	VAL	6.1
1	2A	2803	C	6.1
26	14	45	GLY	6.1
1	2A	883	G	6.1
50	2s	50	ALA	6.1
21	2Z	170	THR	6.0
52	2u	16	GLY	6.0
41	2j	74	ILE	6.0
7	2H	72	ILE	6.0
43	1l	64	TYR	6.0
41	2j	59	SER	6.0
40	2i	14	VAL	6.0
32	1a	1257	U	5.9
7	2H	47	GLU	5.9
32	1a	1531	A	5.9
34	1c	193	TYR	5.9
41	2j	85	LEU	5.9
1	2A	2139	C	5.8
38	1g	154	TYR	5.8
54	1w	20	U	5.8
29	27	48	LYS	5.7
45	2n	50	LYS	5.7
45	1n	51	GLY	5.7
33	1b	227	GLY	5.7
1	1A	1057	A	5.7
54	1y	35	A	5.7
22	20	7	LEU	5.7
1	2A	2147	G	5.7
26	24	63	TYR	5.7

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Mol	Chain	Res	Type	RSRZ
42	1k	25	TYR	5.7
54	1w	44	G	5.7
1	1A	896	A	5.7
40	2i	128	ARG	5.7
1	2A	2113	U	5.6
41	2j	10	GLY	5.6
29	27	46	VAL	5.6
21	2Z	156	LYS	5.6
32	1a	1003	G	5.6
43	2l	39	VAL	5.5
54	2w	72	C	5.5
33	2b	165	VAL	5.5
42	2k	49	GLY	5.5
45	2n	37	PHE	5.5
21	2Z	153	SER	5.5
1	2A	2155	G	5.5
1	2A	2805	G	5.5
38	1g	156	TRP	5.5
1	1A	1094	U	5.5
40	2i	109	VAL	5.5
34	2c	5	ILE	5.5
38	2g	85	TYR	5.4
34	1c	39	ILE	5.4
44	2m	87	TYR	5.4
1	2A	652(E)	G	5.4
1	2A	2896	C	5.3
1	1A	1095	A	5.3
53	2v	24	A	5.3
41	1j	46	ARG	5.3
7	2H	52	VAL	5.3
54	2w	3	C	5.3
22	20	45	PHE	5.3
1	2A	1026	U	5.3
32	2a	1032	G	5.3
41	2j	72	VAL	5.2
43	2l	55	VAL	5.2
32	2a	1030	C	5.2
33	2b	232	PRO	5.2
31	29	37	GLY	5.2
45	2n	36	PHE	5.2
32	2a	1002	G	5.2
45	2n	58	LYS	5.2

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Mol	Chain	Res	Type	RSRZ
40	2i	110	GLU	5.1
41	2j	65	LEU	5.1
34	2c	134	ILE	5.1
32	1a	1030(A)	G	5.1
32	2a	1034	G	5.1
1	1A	889	C	5.1
3	2D	276	LYS	5.1
21	1Z	1	MET	5.1
45	2n	35	ARG	5.1
54	2w	71	G	5.0
21	2Z	147	GLY	5.0
1	2A	2804	C	5.0
45	2n	59	ALA	5.0
40	2i	125	TYR	5.0
23	11	98	LEU	5.0
1	2A	2792	G	4.9
3	2D	38	LYS	4.9
40	2i	37	PHE	4.9
21	2Z	106	GLY	4.9
40	1i	15	ALA	4.9
45	2n	6	LEU	4.9
32	2a	1030(C)	G	4.9
38	1g	85	TYR	4.9
41	2j	44	VAL	4.9
29	27	47	ARG	4.9
26	24	52	THR	4.9
32	1a	1030(C)	G	4.9
52	2u	11	GLY	4.9
40	1i	121	ARG	4.9
7	2H	82	GLY	4.9
32	2a	1035	A	4.9
45	2n	42	ILE	4.9
45	2n	57	ARG	4.8
54	2w	70	G	4.8
45	2n	11	LYS	4.8
7	2H	128	PRO	4.8
7	2H	43	VAL	4.8
29	17	46	VAL	4.8
40	1i	117	HIS	4.8
38	1g	83	ALA	4.8
42	2k	25	TYR	4.8
33	1b	133	LYS	4.8

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Mol	Chain	Res	Type	RSRZ
32	1a	1002	G	4.8
40	2i	36	TYR	4.8
32	1a	1028	C	4.8
33	2b	207	ALA	4.8
32	1a	1001	A	4.8
45	2n	12	ARG	4.8
29	17	48	LYS	4.8
12	2Q	6	ARG	4.7
26	14	55	ARG	4.7
38	2g	84	ASN	4.7
1	1A	886	C	4.7
45	2n	31	ARG	4.7
54	1y	20	U	4.7
26	24	59	PHE	4.7
34	2c	4	LYS	4.7
33	2b	214	ILE	4.7
40	2i	108	VAL	4.7
38	2g	78	ARG	4.7
45	2n	13	THR	4.7
7	2H	113	VAL	4.7
32	1a	1029	C	4.7
38	1g	81	GLY	4.7
33	2b	70	PHE	4.7
1	2A	2111	C	4.6
44	2m	120	LYS	4.6
41	2j	66	ARG	4.6
23	11	2	SER	4.6
21	2Z	139	VAL	4.6
7	2H	6	ARG	4.6
33	2b	92	TYR	4.6
1	1A	2145	C	4.6
54	1w	72	C	4.6
1	1A	1058	G	4.6
52	2u	6	ARG	4.6
1	2A	2897	U	4.6
33	2b	164	VAL	4.6
19	2X	68	ARG	4.6
38	2g	16	LEU	4.6
40	2i	8	GLY	4.6
32	2a	1036	G	4.6
40	2i	106	ALA	4.6
48	1q	36	ILE	4.6

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Mol	Chain	Res	Type	RSRZ
34	1c	179	ARG	4.5
52	2u	15	ARG	4.5
32	2a	1024	G	4.5
33	2b	101	MET	4.5
32	2a	1532	U	4.5
32	2a	1021	G	4.5
41	2j	26	ALA	4.5
1	1A	2159	G	4.5
54	2y	21	A	4.5
34	2c	201	TYR	4.5
1	2A	896	A	4.5
34	2c	179	ARG	4.5
45	2n	22	THR	4.5
7	2H	102	ALA	4.5
54	1y	47	U	4.5
32	1a	1026	G	4.5
54	2y	34	G	4.5
34	2c	194	GLY	4.5
33	2b	127	ILE	4.4
40	1i	122	ALA	4.4
36	2e	11	ILE	4.4
32	2a	1003	G	4.4
1	2A	2144	U	4.4
33	1b	61	LEU	4.4
1	2A	2117	A	4.4
54	1y	36	A	4.4
1	1A	2793	G	4.4
1	2A	2156	G	4.4
40	2i	127	LYS	4.4
41	1j	47	PHE	4.4
54	1y	34	G	4.4
38	1g	78	ARG	4.3
39	2h	133	LEU	4.3
1	2A	2110	G	4.3
1	2A	2116	G	4.3
44	1m	121	LYS	4.3
32	1a	1033	G	4.3
40	2i	90	PRO	4.3
45	2n	56	VAL	4.3
29	27	1	MET	4.3
40	2i	122	ALA	4.3
41	2j	13	HIS	4.3

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Mol	Chain	Res	Type	RSRZ
32	1a	1030	C	4.3
33	1b	137	ARG	4.3
21	1Z	149	SER	4.2
41	1j	10	GLY	4.2
40	2i	9	ARG	4.2
21	2Z	152	ALA	4.2
1	2A	1508	A	4.2
33	1b	200	ILE	4.2
54	2y	57	G	4.2
48	1q	27	PHE	4.2
1	1A	1508	A	4.2
53	1v	12	A	4.2
29	17	47	ARG	4.2
34	2c	155	GLY	4.2
40	2i	7	THR	4.2
1	2A	882	G	4.2
34	1c	206	GLU	4.2
7	2H	123	PHE	4.2
44	1m	105	THR	4.1
45	1n	2	ALA	4.1
32	1a	1027	C	4.1
38	1g	84	ASN	4.1
14	2S	20	ARG	4.1
1	1A	2804	C	4.1
32	1a	1030(D)	A	4.1
1	1A	1060	U	4.1
3	2D	5	LYS	4.1
20	2Y	5	MET	4.1
34	2c	193	TYR	4.1
11	2P	45	LEU	4.1
1	1A	2802	G	4.1
38	1g	82	GLY	4.1
41	2j	38	ILE	4.1
36	2e	12	LEU	4.1
1	2A	6	A	4.1
40	2i	27	THR	4.1
40	1i	113	LYS	4.1
1	1A	2131	G	4.1
1	2A	2133	G	4.1
32	2a	1031	G	4.1
41	1j	50	ILE	4.1
50	1s	71	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
1	1A	1064	C	4.1
1	1A	2140	C	4.1
1	2A	887	A	4.1
26	14	54	GLY	4.1
12	2Q	113	GLN	4.0
32	1a	1503	A	4.0
1	1A	1059	G	4.0
26	14	52	THR	4.0
32	2a	1039	C	4.0
34	2c	198	VAL	4.0
33	2b	200	ILE	4.0
44	2m	104	ARG	4.0
1	1A	897	C	4.0
1	2A	2149	G	4.0
7	2H	133	VAL	4.0
33	2b	34	ALA	4.0
32	1a	1034	G	4.0
33	2b	48	MET	4.0
12	2Q	32	TYR	4.0
40	2i	13	ALA	4.0
52	1u	14	TRP	4.0
40	2i	15	ALA	4.0
41	1j	60	ARG	3.9
1	1A	2805	G	3.9
38	2g	40	ALA	3.9
45	2n	10	ALA	3.9
32	2a	1531	A	3.9
45	1n	61	TRP	3.9
54	2y	35	A	3.9
1	2A	2148	G	3.9
1	2A	2160	G	3.9
17	2V	101	GLY	3.9
38	2g	32	ARG	3.9
40	2i	65	VAL	3.9
50	2s	36	ARG	3.9
4	2E	115	GLY	3.9
19	2X	69	TYR	3.9
1	1A	1093	G	3.9
1	2A	2125	G	3.9
41	1j	23	ILE	3.9
41	2j	55	LYS	3.9
1	1A	2792	G	3.9

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Mol	Chain	Res	Type	RSRZ
32	1a	1032	G	3.9
33	2b	211	ILE	3.9
52	2u	13	ILE	3.9
26	24	50	VAL	3.9
50	2s	52	TYR	3.9
1	2A	2127	G	3.9
35	1d	16	GLY	3.9
33	2b	69	LEU	3.9
34	1c	184	TYR	3.9
41	2j	6	ILE	3.8
48	2q	23	VAL	3.8
50	2s	30	LEU	3.8
51	1t	13	LEU	3.8
38	2g	4	ARG	3.8
40	2i	52	ALA	3.8
16	2U	2	PRO	3.8
40	2i	49	PRO	3.8
52	2u	14	TRP	3.8
53	1v	24	A	3.8
26	24	54	GLY	3.8
41	2j	62	HIS	3.8
1	2A	886	C	3.8
35	1d	73	ARG	3.8
26	24	32	TYR	3.8
33	2b	201	ILE	3.8
40	1i	119	ALA	3.8
32	1a	1035	A	3.8
54	2w	2	C	3.8
34	2c	145	GLY	3.8
34	2c	19	GLU	3.8
40	2i	5	TYR	3.8
41	2j	98	ILE	3.8
1	2A	2126	A	3.8
21	1Z	165	VAL	3.8
34	1c	196	LEU	3.8
48	2q	92	ARG	3.7
1	2A	2140	C	3.7
1	2A	2894	G	3.7
54	1w	71	G	3.7
34	2c	196	LEU	3.7
40	1i	118	LYS	3.7
50	2s	14	HIS	3.7

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Mol	Chain	Res	Type	RSRZ
38	1g	32	ARG	3.7
4	2E	167	VAL	3.7
31	29	16	VAL	3.7
44	2m	7	VAL	3.7
33	2b	122	PHE	3.7
21	2Z	140	ASP	3.7
50	2s	51	VAL	3.7
6	2G	140	ILE	3.7
33	2b	31	TYR	3.7
34	1c	201	TYR	3.7
20	2Y	91	GLU	3.7
34	1c	12	LEU	3.7
44	1m	122	LYS	3.7
41	2j	48	THR	3.7
33	2b	55	PHE	3.7
47	2p	59	TRP	3.7
54	2w	5	G	3.7
54	2w	31	A	3.7
45	2n	53	LEU	3.7
17	2V	72	VAL	3.7
41	1j	98	ILE	3.7
1	2A	2115	G	3.7
8	2I	35	LEU	3.7
33	2b	187	LEU	3.7
48	2q	22	LEU	3.7
34	2c	60	ALA	3.7
41	2j	20	ALA	3.7
51	1t	68	LYS	3.6
12	2Q	33	GLY	3.6
34	2c	23	TYR	3.6
7	2H	64	LEU	3.6
34	1c	87	LEU	3.6
40	2i	86	VAL	3.6
44	1m	74	VAL	3.6
1	2A	2794	C	3.6
50	2s	35	SER	3.6
32	2a	1030(D)	A	3.6
40	2i	19	LEU	3.6
33	1b	135	GLN	3.6
7	2H	45	VAL	3.6
48	2q	9	VAL	3.6
53	2v	23	A	3.6

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Mol	Chain	Res	Type	RSRZ
31	29	13	LYS	3.6
1	2A	889	C	3.6
4	1E	195	LEU	3.6
47	1p	38	TYR	3.6
33	2b	218	ALA	3.6
10	2O	69	ILE	3.6
17	2V	70	ILE	3.6
48	2q	59	ILE	3.6
1	1A	271(K)	U	3.6
40	2i	124	GLN	3.6
1	2A	2112	G	3.6
51	2t	59	ALA	3.6
33	2b	105	PHE	3.6
1	2A	2137	C	3.6
1	2A	2161	C	3.6
1	2A	2152	G	3.6
7	2H	37	VAL	3.6
7	2H	125	VAL	3.6
20	2Y	55	TYR	3.6
33	1b	188	ALA	3.6
40	1i	126	SER	3.5
9	2N	85	ILE	3.5
35	2d	135	LEU	3.5
39	2h	4	ASP	3.5
12	2Q	5	ARG	3.5
40	1i	14	VAL	3.5
51	1t	41	ILE	3.5
41	1j	55	LYS	3.5
54	1w	73	A	3.5
52	2u	21	TYR	3.5
8	1I	41	GLU	3.5
20	1Y	1	MET	3.5
34	1c	14	ILE	3.5
40	1i	8	GLY	3.5
45	2n	29	ARG	3.5
36	1e	21	ALA	3.5
34	2c	138	VAL	3.5
39	2h	58	TYR	3.5
44	2m	88	ARG	3.5
33	2b	185	ILE	3.5
36	2e	131	ILE	3.5
39	2h	112	LEU	3.5

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Mol	Chain	Res	Type	RSRZ
1	2A	2153	G	3.5
5	2F	62	ARG	3.5
53	2v	14	A	3.5
11	2P	76	LYS	3.5
51	2t	41	ILE	3.5
35	1d	21	LEU	3.5
7	2H	32	GLU	3.5
12	2Q	10	ARG	3.5
48	1q	9	VAL	3.5
1	1A	2794	C	3.4
51	2t	63	ILE	3.4
43	2l	60	LEU	3.4
44	2m	102	ARG	3.4
45	1n	57	ARG	3.4
40	2i	105	ASP	3.4
50	2s	68	GLY	3.4
54	2y	44	G	3.4
3	2D	273	ARG	3.4
51	1t	23	ARG	3.4
12	2Q	63	LYS	3.4
32	2a	1027	C	3.4
20	2Y	65	ALA	3.4
45	1n	59	ALA	3.4
28	26	52	VAL	3.4
26	24	68	ARG	3.4
1	2A	892	G	3.4
40	2i	102	LEU	3.4
4	2E	105	THR	3.4
32	2a	1006	C	3.4
52	1u	2	GLY	3.4
12	2Q	27	VAL	3.4
1	1A	2897	U	3.4
33	2b	215	LEU	3.4
32	1a	1031	G	3.4
52	1u	16	GLY	3.4
1	2A	894	C	3.4
14	2S	3	ARG	3.4
3	2D	205	VAL	3.4
33	2b	81	VAL	3.4
9	2N	101	HIS	3.4
45	2n	49	HIS	3.4
35	1d	110	PHE	3.4

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Mol	Chain	Res	Type	RSRZ
21	1Z	170	THR	3.4
32	1a	1286	A	3.4
32	1a	1037	C	3.4
34	2c	206	GLU	3.4
40	1i	28	VAL	3.4
40	2i	18	PHE	3.4
40	2i	80	GLY	3.4
41	2j	96	ILE	3.4
43	2l	93	LEU	3.4
54	2w	45	U	3.4
1	1A	1068	G	3.4
54	2y	19	G	3.4
41	1j	66	ARG	3.4
12	2Q	104	PHE	3.3
34	2c	188	LEU	3.3
39	2h	2	LEU	3.3
41	1j	44	VAL	3.3
45	2n	8	GLU	3.3
9	2N	82	LEU	3.3
40	2i	33	PHE	3.3
41	2j	50	ILE	3.3
48	2q	98	LEU	3.3
34	2c	184	TYR	3.3
34	1c	47	LEU	3.3
26	24	48	ARG	3.3
29	17	45	ALA	3.3
34	2c	53	ALA	3.3
50	2s	79	THR	3.3
41	2j	49	VAL	3.3
32	2a	1115	C	3.3
33	1b	68	ILE	3.3
34	1c	57	ILE	3.3
34	2c	14	ILE	3.3
41	2j	64	GLU	3.3
42	2k	117	ASN	3.3
43	2l	28	LYS	3.3
48	2q	42	TYR	3.3
19	2X	92	LEU	3.3
52	2u	17	THR	3.3
1	1A	2801(A)	A	3.3
53	1v	13	A	3.3
1	2A	2141	G	3.3

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Mol	Chain	Res	Type	RSRZ
40	1i	109	VAL	3.3
41	1j	57	LYS	3.3
34	2c	39	ILE	3.3
40	1i	81	ILE	3.3
26	24	18	CYS	3.3
36	2e	8	GLU	3.3
40	2i	121	ARG	3.3
7	2H	44	VAL	3.3
34	2c	7	PRO	3.2
40	2i	123	PRO	3.2
44	2m	70	LEU	3.2
34	2c	182	ILE	3.2
41	1j	62	HIS	3.2
1	2A	9	U	3.2
45	1n	55	GLY	3.2
38	2g	6	ARG	3.2
6	1G	149	VAL	3.2
9	2N	9	VAL	3.2
7	2H	105	LEU	3.2
33	2b	51	LEU	3.2
43	2l	13	LYS	3.2
1	1A	2803	C	3.2
13	2R	14	SER	3.2
32	2a	1004	A	3.2
7	2H	99	VAL	3.2
33	1b	165	VAL	3.2
48	2q	53	LEU	3.2
49	1r	24	ALA	3.2
20	2Y	75	ILE	3.2
9	2N	61	ARG	3.2
32	1a	163	C	3.2
33	1b	232	PRO	3.2
45	2n	4	LYS	3.2
34	2c	51	GLY	3.2
36	2e	16	THR	3.2
45	2n	47	LEU	3.2
41	2j	32	ALA	3.2
34	2c	186	PHE	3.2
36	2e	13	ILE	3.2
12	1Q	5	ARG	3.2
1	1A	2151	G	3.2
1	2A	614(B)	G	3.2

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Mol	Chain	Res	Type	RSRZ
1	2A	2159	G	3.2
6	1G	146	TYR	3.2
31	29	25	VAL	3.2
33	2b	135	GLN	3.2
40	2i	4	TYR	3.2
52	2u	18	TYR	3.2
4	2E	134	ILE	3.2
26	14	59	PHE	3.2
31	29	17	ILE	3.2
35	2d	70	ILE	3.2
1	2A	2157	G	3.2
16	2U	8	VAL	3.2
47	1p	2	VAL	3.2
21	2Z	155	LEU	3.2
30	28	61	LEU	3.2
1	2A	229	A	3.2
51	2t	86	ARG	3.2
18	2W	6	ILE	3.2
21	1Z	169	GLU	3.2
36	2e	133	TYR	3.1
40	2i	103	THR	3.1
43	2l	69	TYR	3.1
45	2n	44	LEU	3.2
1	2A	2151	G	3.1
1	1A	1065	U	3.1
21	2Z	148	ASP	3.1
32	2a	1150	U	3.1
43	2l	7	ILE	3.1
50	2s	12	ASP	3.1
24	22	1	MET	3.1
34	1c	78	GLY	3.1
38	1g	153	HIS	3.1
41	2j	56	HIS	3.1
6	2G	29	TRP	3.1
20	2Y	54	LYS	3.1
33	1b	207	ALA	3.1
34	2c	185	GLY	3.1
7	2H	101	ARG	3.1
21	2Z	121	HIS	3.1
1	1A	899	A	3.1
54	1w	1	G	3.1
41	2j	58	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
40	2i	17	VAL	3.1
8	2I	82	ARG	3.1
34	2c	20	SER	3.1
50	2s	84	GLY	3.1
32	2a	1018	C	3.1
1	1A	1077	A	3.1
32	2a	485	G	3.1
55	2x	70	G	3.1
7	2H	69	ARG	3.1
12	2Q	17	LEU	3.1
3	2D	18	VAL	3.1
34	2c	158	GLY	3.1
36	1e	69	VAL	3.1
39	2h	129	VAL	3.1
46	2o	60	VAL	3.1
51	2t	28	ALA	3.1
41	2j	11	PHE	3.1
1	2A	2128	C	3.1
41	2j	60	ARG	3.1
1	1A	890	A	3.1
1	2A	1509(A)	A	3.1
40	2i	6	GLY	3.1
21	1Z	139	VAL	3.1
33	2b	71	VAL	3.1
1	1A	892	G	3.1
1	1A	1078	U	3.1
47	2p	19	ILE	3.1
52	1u	18	TYR	3.1
12	2Q	59	ARG	3.1
12	2Q	129	THR	3.1
39	2h	59	LEU	3.1
40	2i	82	ALA	3.1
8	2I	19	VAL	3.1
21	2Z	145	GLU	3.0
40	1i	90	PRO	3.0
1	2A	2150	U	3.0
36	1e	6	PHE	3.0
44	1m	4	ILE	3.0
50	2s	81	ARG	3.0
54	1w	70	G	3.0
44	2m	103	THR	3.0
36	2e	14	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
38	2g	155	ARG	3.0
1	2A	2119	A	3.0
1	2A	2167	U	3.0
1	2A	2165	G	3.0
34	2c	87	LEU	3.0
11	2P	15	ARG	3.0
40	2i	66	ARG	3.0
12	2Q	102	VAL	3.0
45	1n	25	VAL	3.0
22	10	57	PHE	3.0
32	1a	1447	A	3.0
50	2s	31	ILE	3.0
34	1c	185	GLY	3.0
50	2s	82	GLY	3.0
40	1i	4	TYR	3.0
34	1c	18	TRP	3.0
19	2X	2	LYS	3.0
51	1t	22	ARG	3.0
12	2Q	109	VAL	3.0
40	2i	53	VAL	3.0
32	2a	1029	C	3.0
12	2Q	66	ILE	3.0
32	1a	1025	U	3.0
1	1A	1098	A	3.0
31	29	15	LYS	3.0
31	29	19	ARG	3.0
40	1i	116	LYS	3.0
7	2H	39	PRO	3.0
45	1n	33	VAL	3.0
34	1c	128	PHE	3.0
36	2e	45	PHE	3.0
1	2A	1847	A	3.0
7	1H	2	SER	3.0
8	2I	42	SER	3.0
32	2a	1286	A	3.0
35	1d	138	TYR	3.0
14	2S	37	ALA	3.0
35	1d	135	LEU	3.0
49	2r	58	LEU	3.0
51	2t	24	LEU	3.0
48	1q	28	PRO	3.0
52	1u	15	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
29	17	1	MET	3.0
6	1G	80	PHE	3.0
32	2a	1196	U	3.0
33	2b	8	LYS	3.0
44	2m	97	PRO	3.0
35	1d	156	GLU	2.9
1	1A	883	G	2.9
52	2u	22	ARG	2.9
1	1A	278	A	2.9
42	2k	109	VAL	2.9
44	2m	60	VAL	2.9
33	1b	222	ILE	2.9
33	2b	152	PHE	2.9
55	2x	47	U	2.9
35	1d	3	ARG	2.9
35	1d	168	ARG	2.9
1	2A	11	G	2.9
20	2Y	90	LEU	2.9
34	2c	48	TYR	2.9
39	1h	133	LEU	2.9
54	2w	69	G	2.9
1	1A	1509(A)	A	2.9
11	2P	38	GLN	2.9
11	2P	79	ARG	2.9
33	2b	163	PHE	2.9
40	1i	59	PHE	2.9
41	1j	11	PHE	2.9
1	1A	2146	C	2.9
8	2I	9	LEU	2.9
34	2c	15	THR	2.9
49	2r	85	LEU	2.9
51	1t	24	LEU	2.9
7	2H	24	VAL	2.9
41	2j	46	ARG	2.9
45	2n	41	ARG	2.9
1	2A	2169	A	2.9
1	2A	271(K)	U	2.9
1	2A	2132	U	2.9
26	14	49	PHE	2.9
33	2b	37	ASN	2.9
11	2P	30	THR	2.9
14	2S	58	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
33	1b	187	LEU	2.9
12	1Q	59	ARG	2.9
21	2Z	141	VAL	2.9
39	1h	93	VAL	2.9
26	24	45	GLY	2.9
32	2a	983	A	2.9
33	2b	17	PHE	2.9
42	2k	125	PHE	2.9
50	1s	40	ILE	2.9
50	2s	53	ASN	2.9
12	2Q	99	PRO	2.9
33	1b	31	TYR	2.9
33	2b	33	TYR	2.9
9	2N	77	GLY	2.9
46	2o	61	GLY	2.9
1	2A	2131	G	2.9
45	1n	16	PHE	2.9
32	2a	1005	A	2.9
7	2H	65	HIS	2.9
14	2S	32	LEU	2.9
15	2T	30	VAL	2.8
40	2i	71	SER	2.8
31	29	9	ARG	2.8
9	2N	83	LYS	2.8
20	2Y	88	LYS	2.8
35	1d	70	ILE	2.8
38	2g	120	ILE	2.8
40	2i	63	ILE	2.8
33	2b	118	LEU	2.8
12	2Q	19	GLY	2.8
25	23	50	VAL	2.8
29	27	23	ARG	2.8
1	1A	2132	U	2.8
7	2H	8	PRO	2.8
7	2H	89	ILE	2.8
33	1b	70	PHE	2.8
39	2h	134	ILE	2.8
42	2k	89	ALA	2.8
41	1j	97	GLU	2.8
13	2R	69	ASP	2.8
32	2a	965	A	2.8
12	1Q	15	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
35	2d	47	ARG	2.8
41	1j	93	GLY	2.8
41	2j	29	ARG	2.8
8	2I	1	MET	2.8
9	2N	75	TYR	2.8
39	2h	94	TYR	2.8
1	2A	2129	C	2.8
5	2F	64	ILE	2.8
38	2g	27	ILE	2.8
41	1j	64	GLU	2.8
45	1n	7	ILE	2.8
10	2O	103	ALA	2.8
40	2i	116	LYS	2.8
1	2A	2173	A	2.8
1	1A	271(I)	G	2.8
1	1A	2110	G	2.8
5	1F	89	VAL	2.8
7	2H	141	VAL	2.8
34	1c	198	VAL	2.8
41	1j	34	VAL	2.8
43	1l	18	VAL	2.8
48	1q	32	TYR	2.8
43	2l	25	PRO	2.8
8	2I	88	ILE	2.8
12	2Q	121	ALA	2.8
21	2Z	80	ARG	2.8
23	21	63	ALA	2.8
28	26	28	ARG	2.8
51	2t	25	ARG	2.8
41	1j	40	LEU	2.8
44	2m	90	LEU	2.8
49	1r	79	LEU	2.8
34	1c	194	GLY	2.8
9	2N	44	PRO	2.8
11	1P	36	LYS	2.8
24	22	8	LYS	2.8
26	14	50	VAL	2.8
19	2X	60	ARG	2.8
38	2g	151	TYR	2.8
48	2q	75	ARG	2.8
52	2u	9	ARG	2.8
54	1y	19	G	2.8

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Mol	Chain	Res	Type	RSRZ
39	1h	134	ILE	2.8
17	2V	77	ALA	2.8
36	1e	95	ALA	2.8
7	2H	100	GLY	2.8
33	2b	121	LEU	2.8
36	1e	136	MET	2.8
43	2l	41	ARG	2.8
20	2Y	42	VAL	2.8
27	15	60	VAL	2.8
31	29	20	HIS	2.8
33	1b	19	HIS	2.8
45	2n	24	CYS	2.8
54	2y	58	A	2.8
51	1t	18	GLN	2.8
5	2F	82	ILE	2.8
7	2H	92	ILE	2.8
12	2Q	127	ILE	2.8
1	1A	2115	G	2.8
24	22	60	LEU	2.8
41	1j	65	LEU	2.8
1	1A	1100	C	2.8
43	2l	62	SER	2.8
45	2n	60	SER	2.8
18	2W	17	VAL	2.7
41	2j	61	GLU	2.7
3	2D	275	LYS	2.7
7	2H	94	TYR	2.7
36	2e	99	GLY	2.7
51	1t	9	ASN	2.7
9	2N	102	ALA	2.7
30	28	29	LYS	2.7
32	2a	1256	A	2.7
32	2a	1503	A	2.7
14	2S	29	PHE	2.7
34	2c	190	ARG	2.7
45	1n	41	ARG	2.7
32	2a	1023	G	2.7
54	1y	24	G	2.7
54	2w	44	G	2.7
1	1A	2111	C	2.7
52	2u	5	ASP	2.7
45	2n	14	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
11	2P	39	LYS	2.7
12	2Q	130	LYS	2.7
35	1d	17	VAL	2.7
48	2q	21	VAL	2.7
40	2i	30	GLY	2.7
1	2A	2895	U	2.7
35	1d	207	TYR	2.7
36	1e	89	ILE	2.7
43	1l	61	THR	2.7
6	1G	139	LEU	2.7
12	2Q	37	LEU	2.7
21	2Z	150	LEU	2.7
36	2e	20	GLN	2.7
45	2n	17	LYS	2.7
50	2s	57	HIS	2.7
19	1X	1	MET	2.7
1	2A	100	G	2.7
32	2a	1112	C	2.7
7	1H	174	GLY	2.7
43	1l	55	VAL	2.7
4	2E	131	ALA	2.7
40	1i	110	GLU	2.7
21	1Z	146	ILE	2.7
40	2i	76	ALA	2.7
48	2q	65	ILE	2.7
49	1r	73	ALA	2.7
54	2y	33	U	2.7
54	2y	45	U	2.7
39	2h	135	CYS	2.7
41	2j	39	PRO	2.7
49	2r	54	ARG	2.7
11	2P	19	VAL	2.7
23	21	53	VAL	2.7
33	2b	93	VAL	2.7
35	1d	104	VAL	2.7
45	1n	56	VAL	2.7
17	2V	92	THR	2.7
38	2g	24	THR	2.7
40	2i	45	ALA	2.7
45	1n	17	LYS	2.7
21	1Z	104	PHE	2.7
23	21	38	SER	2.7

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Mol	Chain	Res	Type	RSRZ
34	2c	22	TRP	2.7
1	2A	652(B)	A	2.7
34	1c	171	GLY	2.7
53	1v	15	A	2.7
6	2G	182	LYS	2.7
36	1e	9	LYS	2.7
40	2i	112	LYS	2.7
25	23	47	VAL	2.7
32	1a	345	C	2.7
50	2s	13	ASP	2.7
7	2H	71	LEU	2.7
35	2d	158	ILE	2.7
40	2i	79	LEU	2.7
45	1n	39	LEU	2.7
10	2O	32	TYR	2.7
25	23	29	ARG	2.7
22	20	12	ASN	2.7
34	2c	63	ASN	2.7
42	1k	88	GLY	2.7
53	2v	15	A	2.7
7	2H	19	VAL	2.7
21	1Z	141	VAL	2.7
36	1e	132	ALA	2.7
1	1A	2109	U	2.7
23	21	37	ILE	2.7
23	21	46	LEU	2.7
26	14	68	ARG	2.7
41	1j	45	ARG	2.7
43	2l	100	ILE	2.7
50	2s	83	HIS	2.7
42	1k	75	TYR	2.7
50	2s	70	LYS	2.7
1	2A	2166	G	2.7
33	2b	131	PRO	2.7
9	2N	10	GLU	2.6
7	2H	96	ALA	2.6
32	2a	723	U	2.6
33	1b	132	LYS	2.6
40	1i	58	HIS	2.6
1	2A	897	C	2.6
7	2H	121	ILE	2.6
33	1b	162	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
45	1n	36	PHE	2.6
50	2s	40	ILE	2.6
3	1D	112	GLN	2.6
12	1Q	32	TYR	2.6
35	1d	38	TYR	2.6
1	1A	1063	G	2.6
1	1A	2147	G	2.6
1	2A	2893	G	2.6
45	2n	26	ARG	2.6
33	1b	93	VAL	2.6
40	2i	28	VAL	2.6
21	2Z	172	ALA	2.6
42	2k	23	ALA	2.6
45	2n	30	ALA	2.6
49	2r	24	ALA	2.6
1	1A	1066	U	2.6
1	1A	1097	U	2.6
42	2k	29	ILE	2.6
49	2r	66	LEU	2.6
1	1A	1092	C	2.6
12	2Q	126	PRO	2.6
7	2H	132	ARG	2.6
34	1c	126	ARG	2.6
35	1d	122	ARG	2.6
34	1c	207	VAL	2.6
34	1c	15	THR	2.6
34	2c	146	ALA	2.6
36	2e	90	VAL	2.6
40	1i	65	VAL	2.6
54	1w	15	G	2.6
7	2H	174	GLY	2.6
11	1P	44	GLY	2.6
6	2G	3	LEU	2.6
7	2H	46	GLU	2.6
34	2c	32	LEU	2.6
6	2G	39	ILE	2.6
7	2H	148	ILE	2.6
9	2N	71	ILE	2.6
12	2Q	65	PHE	2.6
34	2c	57	ILE	2.6
12	1Q	6	ARG	2.6
40	2i	16	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
40	2i	107	ARG	2.6
22	20	68	GLU	2.6
7	2H	50	VAL	2.6
41	2j	34	VAL	2.6
43	2l	96	VAL	2.6
52	2u	8	THR	2.6
1	1A	1099	G	2.6
1	2A	881	G	2.6
4	2E	120	TRP	2.6
7	2H	51	ARG	2.6
32	2a	1061	G	2.6
34	1c	32	LEU	2.6
40	1i	112	LYS	2.6
40	2i	78	LYS	2.6
44	2m	65	LYS	2.6
34	2c	202	ILE	2.6
1	1A	655	A	2.6
32	1a	162	A	2.6
1	1A	2139	C	2.6
1	2A	2107	C	2.6
7	2H	2	SER	2.6
34	1c	170	GLN	2.6
51	1t	38	LYS	2.6
21	2Z	58	VAL	2.6
39	2h	26	VAL	2.6
32	1a	1446	U	2.6
33	1b	26	PRO	2.6
21	2Z	124	ILE	2.6
34	1c	203	PHE	2.6
1	1A	2141	G	2.6
1	1A	2166	G	2.6
1	2A	2592	G	2.6
54	2y	15	G	2.6
32	2a	1001	A	2.6
33	1b	179	LYS	2.6
34	1c	205	GLY	2.6
40	1i	20	ARG	2.6
34	2c	149	ALA	2.6
43	2l	56	ALA	2.6
39	2h	93	VAL	2.6
43	2l	43	VAL	2.6
6	1G	133	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
7	2H	159	GLU	2.6
26	14	57	GLU	2.6
46	2o	81	LEU	2.6
47	1p	66	PRO	2.6
16	2U	65	ILE	2.6
1	1A	2158	A	2.6
32	1a	1023	G	2.6
34	1c	2	GLY	2.6
40	2i	75	ASP	2.6
45	2n	19	ARG	2.6
54	2w	38	A	2.6
39	2h	65	TYR	2.6
40	1i	114	TYR	2.6
32	2a	1452	C	2.6
38	2g	152	ALA	2.5
45	2n	43	CYS	2.5
6	1G	152	LEU	2.5
8	2I	12	LEU	2.5
23	21	94	LEU	2.5
49	2r	26	LEU	2.5
38	2g	42	ILE	2.5
39	2h	84	ARG	2.5
3	2D	256	GLY	2.5
33	2b	72	GLY	2.5
34	2c	154	SER	2.5
32	1a	1024	G	2.5
34	1c	113	ALA	2.5
4	2E	116	VAL	2.5
7	2H	115	VAL	2.5
32	2a	1060	C	2.5
34	2c	177	THR	2.5
55	1x	67	C	2.5
11	2P	59	LEU	2.5
24	12	70	GLN	2.5
1	1A	1081	U	2.5
1	2A	614(A)	U	2.5
22	20	11	ARG	2.5
32	1a	204	U	2.5
38	2g	76	ARG	2.5
41	1j	9	ARG	2.5
33	2b	223	ILE	2.5
51	1t	63	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
12	2Q	61	GLY	2.5
43	2l	16	GLU	2.5
13	1R	14	SER	2.5
39	2h	98	LYS	2.5
45	1n	50	LYS	2.5
45	2n	15	LYS	2.5
1	1A	2062	A	2.5
5	2F	80	ALA	2.5
6	2G	152	LEU	2.5
21	2Z	96	VAL	2.5
25	23	26	LEU	2.5
35	2d	8	VAL	2.5
40	2i	93	ARG	2.5
48	2q	84	LEU	2.5
50	2s	71	LEU	2.5
54	2w	15	G	2.5
48	2q	33	GLY	2.5
6	2G	73	ALA	2.5
34	2c	117	ALA	2.5
34	2c	200	ALA	2.5
46	2o	65	ARG	2.5
7	2H	83	TYR	2.5
40	2i	62	TYR	2.5
1	2A	899	A	2.5
7	2H	13	LYS	2.5
18	2W	85	VAL	2.5
34	2c	94	LEU	2.5
50	2s	15	LEU	2.5
46	2o	89	GLY	2.5
32	2a	1190	G	2.5
40	1i	37	PHE	2.5
33	2b	90	MET	2.5
41	1j	48	THR	2.5
43	2l	68	ALA	2.5
10	1O	58	VAL	2.5
17	2V	81	TYR	2.5
33	2b	115	LEU	2.5
33	2b	227	GLY	2.5
35	1d	8	VAL	2.5
48	2q	95	TYR	2.5
52	2u	2	GLY	2.5
32	2a	969	A	2.5

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Mol	Chain	Res	Type	RSRZ
53	2v	13	A	2.5
1	2A	2142	C	2.5
32	2a	1149	C	2.5
34	1c	8	ILE	2.5
40	2i	126	SER	2.5
45	2n	7	ILE	2.5
36	2e	25	ARG	2.5
40	1i	111	ARG	2.5
54	2y	65	G	2.5
35	1d	111	ALA	2.5
12	2Q	86	GLY	2.5
17	2V	71	LEU	2.5
23	21	98	LEU	2.5
35	1d	170	VAL	2.5
45	1n	34	TYR	2.5
45	2n	46	GLU	2.5
50	2s	67	VAL	2.5
48	2q	25	ARG	2.5
50	2s	38	SER	2.5
1	1A	1054	A	2.5
1	2A	2114	A	2.5
34	2c	124	ILE	2.5
40	1i	127	LYS	2.5
50	2s	62	ILE	2.5
32	2a	1114	C	2.5
34	2c	50	ALA	2.5
40	2i	61	ALA	2.5
42	1k	89	ALA	2.5
44	2m	119	GLY	2.5
20	2Y	50	ARG	2.4
25	23	53	LEU	2.4
33	1b	196	LEU	2.4
39	2h	122	ARG	2.4
48	2q	100	LYS	2.4
51	2t	83	ARG	2.4
52	1u	10	ARG	2.4
5	2F	57	VAL	2.4
6	2G	160	VAL	2.4
26	24	56	VAL	2.4
47	1p	39	TYR	2.4
1	1A	1082	U	2.4
32	2a	1287	A	2.4

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Mol	Chain	Res	Type	RSRZ
33	1b	226	ARG	2.4
50	2s	63	THR	2.4
52	2u	10	ARG	2.4
1	2A	2807	G	2.4
24	22	53	LEU	2.4
36	2e	32	VAL	2.4
26	24	67	TYR	2.4
44	1m	87	TYR	2.4
6	2G	157	ILE	2.4
33	2b	220	ASP	2.4
42	1k	117	ASN	2.4
16	2U	12	ARG	2.4
42	2k	121	PRO	2.4
43	1l	23	LYS	2.4
43	2l	15	ARG	2.4
48	2q	91	ARG	2.4
39	2h	124	ALA	2.4
50	2s	69	HIS	2.4
3	2D	37	LEU	2.4
25	23	23	LEU	2.4
41	1j	90	LEU	2.4
44	1m	48	LEU	2.4
46	1o	57	LEU	2.4
11	1P	71	VAL	2.4
19	2X	7	VAL	2.4
36	2e	125	SER	2.4
40	1i	17	VAL	2.4
43	2l	11	VAL	2.4
54	2y	53	G	2.4
39	2h	38	ILE	2.4
44	2m	84	ILE	2.4
51	2t	55	ILE	2.4
31	29	22	ARG	2.4
35	1d	181	MET	2.4
5	2F	208	GLY	2.4
34	1c	189	ALA	2.4
36	2e	21	ALA	2.4
1	1A	2119	A	2.4
48	2q	7	THR	2.4
1	2A	2143	C	2.4
54	1w	74	C	2.4
13	2R	4	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
51	1t	72	LEU	2.4
3	2D	34	VAL	2.4
36	2e	105	VAL	2.4
32	2a	1219	U	2.4
38	1g	4	ARG	2.4
51	2t	9	ASN	2.4
52	1u	21	TYR	2.4
40	1i	33	PHE	2.4
10	2O	101	PRO	2.4
32	1a	1186	G	2.4
45	2n	40	CYS	2.4
48	2q	30	PRO	2.4
38	1g	103	TRP	2.4
30	28	24	ALA	2.4
36	2e	132	ALA	2.4
21	2Z	93	ASP	2.4
1	1A	229	A	2.4
1	2A	2174	C	2.4
4	2E	5	LEU	2.4
5	2F	24	LEU	2.4
7	2H	103	LEU	2.4
48	2q	74	LEU	2.4
7	2H	95	ARG	2.4
15	2T	111	ARG	2.4
46	1o	64	ARG	2.4
9	2N	140	VAL	2.4
26	14	46	GLN	2.4
1	1A	1963	U	2.4
12	2Q	112	GLU	2.4
40	2i	117	HIS	2.4
44	2m	92	HIS	2.4
52	2u	23	PRO	2.4
14	2S	6	ALA	2.4
40	1i	46	ALA	2.4
41	1j	18	ALA	2.4
44	2m	42	ALA	2.4
1	1A	2152	G	2.4
35	1d	118	ARG	2.4
40	2i	111	ARG	2.4
9	2N	116	LEU	2.4
14	1S	4	LEU	2.4
34	2c	52	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
34	2c	178	LEU	2.4
1	2A	1536	C	2.4
6	1G	109	VAL	2.4
32	1a	344	A	2.4
33	2b	136	VAL	2.4
43	2l	90	VAL	2.4
50	1s	51	VAL	2.4
34	2c	199	LYS	2.4
41	2j	23	ILE	2.4
46	1o	82	ILE	2.4
14	2S	12	PHE	2.4
19	2X	34	ALA	2.4
34	1c	177	THR	2.4
8	2I	38	LEU	2.4
33	1b	126	GLU	2.4
32	1a	1233	G	2.3
40	1i	11	LYS	2.3
7	2H	26	VAL	2.3
15	2T	28	VAL	2.3
15	2T	70	VAL	2.3
43	1l	43	VAL	2.3
1	1A	2790	A	2.3
1	2A	2118	U	2.3
32	1a	161	A	2.3
32	2a	1116	C	2.3
4	1E	77	ILE	2.3
21	2Z	95	PRO	2.3
9	2N	72	TYR	2.3
41	1j	63	PHE	2.3
13	2R	101	ALA	2.3
11	2P	32	THR	2.3
47	1p	22	THR	2.3
6	2G	139	LEU	2.3
7	2H	7	LEU	2.3
34	2c	33	LEU	2.3
44	2m	68	GLY	2.3
47	1p	48	TRP	2.3
3	2D	3	VAL	2.3
33	1b	71	VAL	2.3
1	1A	1026	U	2.3
1	2A	1113	U	2.3
1	2A	2052	G	2.3

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Mol	Chain	Res	Type	RSRZ
11	2P	35	HIS	2.3
42	1k	114	VAL	2.3
29	17	41	ARG	2.3
52	1u	9	ARG	2.3
21	2Z	146	ILE	2.3
32	2a	1223	C	2.3
44	2m	78	ILE	2.3
3	1D	275	LYS	2.3
8	2I	36	ALA	2.3
10	2O	7	TYR	2.3
34	1c	48	TYR	2.3
40	1i	52	ALA	2.3
51	2t	77	ALA	2.3
12	2Q	15	GLY	2.3
44	2m	106	ASN	2.3
3	2D	206	LEU	2.3
27	15	58	LEU	2.3
41	1j	16	LEU	2.3
41	2j	40	LEU	2.3
45	1n	6	LEU	2.3
23	21	76	ARG	2.3
34	1c	164	ARG	2.3
44	2m	64	TRP	2.3
16	1U	9	VAL	2.3
21	2Z	50	GLN	2.3
47	1p	1	MET	2.3
1	2A	1764	G	2.3
11	2P	51	PHE	2.3
32	2a	1192	C	2.3
32	2a	1224	G	2.3
1	2A	2310	A	2.3
3	2D	50	THR	2.3
12	1Q	93	TYR	2.3
31	29	24	TYR	2.3
32	2a	1014	A	2.3
34	2c	180	ALA	2.3
41	1j	59	SER	2.3
54	1y	58	A	2.3
40	1i	115	GLY	2.3
6	2G	136	ARG	2.3
7	2H	124	GLU	2.3
21	1Z	80	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
21	1Z	102	LEU	2.3
23	11	97	LEU	2.3
35	1d	209	ARG	2.3
36	2e	31	LEU	2.3
33	2b	195	ASP	2.3
7	2H	29	PRO	2.3
23	11	49	VAL	2.3
34	2c	18	TRP	2.3
48	2q	11	VAL	2.3
32	1a	841	U	2.3
31	29	10	ILE	2.3
36	2e	76	ILE	2.3
5	2F	161	GLU	2.3
6	1G	73	ALA	2.3
1	1A	1176	G	2.3
1	1A	2896	C	2.3
12	1Q	10	ARG	2.3
1	1A	2602	A	2.3
1	2A	2158	A	2.3
25	23	15	TYR	2.3
32	1a	1038	C	2.3
39	2h	130	GLY	2.3
41	1j	36	GLY	2.3
51	2t	12	ALA	2.3
9	2N	104	LYS	2.3
11	2P	36	LYS	2.3
30	28	60	LEU	2.3
35	2d	19	LEU	2.3
36	1e	123	LEU	2.3
43	1l	60	LEU	2.3
30	28	25	MET	2.3
34	2c	142	MET	2.3
16	2U	7	GLY	2.3
30	28	41	ILE	2.3
39	2h	13	ILE	2.3
38	1g	77	SER	2.3
50	1s	72	GLY	2.3
4	2E	152	LYS	2.3
23	21	77	ALA	2.3
40	1i	45	ALA	2.3
35	1d	62	GLN	2.3
40	1i	64	THR	2.3

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Mol	Chain	Res	Type	RSRZ
46	1o	62	GLN	2.3
1	1A	2129	C	2.3
1	2A	645	C	2.3
32	2a	1367	C	2.3
48	2q	88	TYR	2.3
9	2N	107	LEU	2.3
12	2Q	2	LEU	2.3
39	1h	112	LEU	2.3
39	1h	119	LEU	2.3
1	2A	2120	G	2.3
18	2W	14	PRO	2.3
48	1q	30	PRO	2.3
3	2D	51	VAL	2.3
17	2V	5	VAL	2.3
34	1c	70	VAL	2.3
35	2d	198	VAL	2.3
45	2n	45	ARG	2.3
10	2O	1	MET	2.3
22	20	46	LYS	2.3
17	2V	73	SER	2.3
46	1o	89	GLY	2.3
33	1b	211	ILE	2.3
11	2P	31	ALA	2.3
34	2c	10	PHE	2.3
34	2c	167	TRP	2.3
11	1P	30	THR	2.3
1	2A	2188	C	2.3
24	22	5	GLU	2.3
26	24	53	GLU	2.3
38	2g	12	LEU	2.3
41	1j	8	LEU	2.3
41	2j	8	LEU	2.3
50	1s	16	LEU	2.3
54	2y	56	C	2.3
1	2A	2170	A	2.2
48	1q	37	LYS	2.2
1	1A	2162	G	2.2
1	1A	2190	G	2.2
1	2A	832	G	2.2
9	2N	46	VAL	2.2
1	2A	1963	U	2.2
11	2P	28	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
34	2c	197	GLY	2.2
39	2h	97	VAL	2.2
48	1q	35	VAL	2.2
38	2g	31	MET	2.2
48	1q	99	SER	2.2
48	2q	39	SER	2.2
34	1c	180	ALA	2.2
35	1d	147	ALA	2.2
43	1l	7	ILE	2.2
5	2F	90	PHE	2.2
47	2p	9	PHE	2.2
41	1j	68	HIS	2.2
41	1j	95	GLU	2.2
48	1q	7	THR	2.2
8	1I	35	LEU	2.2
16	2U	52	ARG	2.2
44	2m	66	LEU	2.2
34	1c	23	TYR	2.2
44	2m	23	TYR	2.2
41	2j	91	PRO	2.2
1	1A	2188	C	2.2
4	2E	150	VAL	2.2
35	1d	133	VAL	2.2
32	2a	961	U	2.2
1	2A	1112	G	2.2
32	2a	1117	G	2.2
32	2a	1370	G	2.2
33	1b	134	GLU	2.2
54	2y	18	G	2.2
4	2E	197	ILE	2.2
3	2D	15	PHE	2.2
6	2G	163	ALA	2.2
33	2b	222	ILE	2.2
34	1c	71	ALA	2.2
40	2i	46	ALA	2.2
44	2m	4	ILE	2.2
21	2Z	151	HIS	2.2
44	1m	103	THR	2.2
51	1t	74	LYS	2.2
40	1i	47	LEU	2.2
48	2q	6	LEU	2.2
12	2Q	93	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
33	1b	37	ASN	2.2
40	1i	125	TYR	2.2
46	1o	78	TYR	2.2
1	1A	2143	C	2.2
38	2g	8	GLU	2.2
54	2y	62	C	2.2
22	20	67	VAL	2.2
33	1b	136	VAL	2.2
35	1d	105	VAL	2.2
39	2h	32	LYS	2.2
42	2k	47	VAL	2.2
44	2m	15	VAL	2.2
54	1y	21	A	2.2
16	2U	17	ILE	2.2
24	22	58	ALA	2.2
25	23	13	ILE	2.2
33	2b	19	HIS	2.2
33	2b	186	ALA	2.2
35	1d	158	ILE	2.2
35	2d	49	ARG	2.2
40	2i	10	ARG	2.2
41	2j	51	ARG	2.2
44	1m	110	ARG	2.2
42	1k	125	PHE	2.2
1	2A	10	G	2.2
1	2A	2190	G	2.2
32	2a	998	G	2.2
38	2g	86	GLN	2.2
34	2c	159	GLY	2.2
47	1p	17	TYR	2.2
9	2N	74	ARG	2.2
32	2a	322	C	2.2
33	1b	197	VAL	2.2
3	2D	247	ALA	2.2
29	27	45	ALA	2.2
36	2e	109	ILE	2.2
39	2h	17	THR	2.2
44	1m	25	ILE	2.2
49	2r	50	ILE	2.2
45	1n	37	PHE	2.2
52	1u	8	THR	2.2
6	2G	135	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
8	2I	20	ASP	2.2
22	20	62	LEU	2.2
34	1c	111	LEU	2.2
40	2i	72	GLY	2.2
51	2t	13	LEU	2.2
32	2a	1202	G	2.2
54	2y	63	G	2.2
30	28	34	TRP	2.2
39	2h	104	ARG	2.2
48	1q	38	ARG	2.2
12	2Q	94	VAL	2.2
23	11	4	VAL	2.2
33	1b	15	VAL	2.2
34	1c	120	VAL	2.2
36	2e	115	VAL	2.2
39	2h	137	VAL	2.2
3	2D	158	ALA	2.2
8	1I	36	ALA	2.2
27	15	2	ALA	2.2
45	1n	48	ALA	2.2
3	2D	64	ILE	2.2
7	2H	175	LYS	2.2
1	2A	2602	A	2.2
12	2Q	69	PHE	2.2
17	2V	74	LYS	2.2
22	10	36	ILE	2.2
48	2q	36	ILE	2.2
20	2Y	107	ASP	2.2
32	2a	1357	A	2.2
33	1b	163	PHE	2.2
54	1w	21	A	2.2
3	1D	234	GLY	2.2
3	2D	238	GLY	2.2
16	2U	20	LEU	2.2
16	2U	39	LEU	2.2
34	1c	52	LEU	2.2
39	1h	89	PRO	2.2
39	2h	71	GLY	2.2
48	2q	8	GLY	2.2
52	2u	4	GLY	2.2
37	2f	46	ARG	2.2
40	1i	120	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
32	2a	1026	G	2.2
6	1G	26	GLN	2.2
1	2A	895	U	2.2
20	2Y	45	VAL	2.2
24	22	63	VAL	2.2
23	11	63	ALA	2.2
35	2d	32	ALA	2.2
16	2U	62	ILE	2.2
19	2X	3	THR	2.2
22	10	12	ASN	2.2
32	2a	1007	C	2.2
34	1c	157	ILE	2.2
39	1h	13	ILE	2.2
5	2F	171	PRO	2.2
14	2S	13	ARG	2.2
22	20	57	PHE	2.2
34	1c	13	GLY	2.2
43	2l	95	GLY	2.2
52	2u	24	ARG	2.2
1	1A	1086	A	2.2
20	2Y	31	LEU	2.2
27	25	58	LEU	2.2
32	2a	1349	A	2.2
32	2a	1447	A	2.2
42	1k	123	LYS	2.1
7	2H	157	TYR	2.1
1	1A	2154	G	2.1
12	2Q	117	ALA	2.1
32	1a	1187	G	2.1
45	2n	18	VAL	2.1
33	2b	161	ALA	2.1
36	2e	17	ALA	2.1
39	2h	15	ASN	2.1
4	2E	124	GLY	2.1
4	2E	153	GLY	2.1
7	2H	4	ILE	2.1
21	2Z	133	ILE	2.1
36	2e	120	THR	2.1
40	2i	74	ILE	2.1
47	1p	19	ILE	2.1
1	1A	1053	C	2.1
47	1p	80	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
8	2I	75	LEU	2.1
13	2R	65	LEU	2.1
38	2g	22	LEU	2.1
39	2h	119	LEU	2.1
44	2m	96	LEU	2.1
3	1D	38	LYS	2.1
3	2D	4	LYS	2.1
1	1A	1067	A	2.1
1	1A	2117	A	2.1
1	2A	2134	A	2.1
5	1F	111	ALA	2.1
7	2H	20	ALA	2.1
9	1N	62	VAL	2.1
9	2N	98	VAL	2.1
24	22	25	VAL	2.1
29	27	33	ARG	2.1
33	1b	48	MET	2.1
44	1m	94	ARG	2.1
27	25	18	ALA	2.1
28	26	2	ALA	2.1
32	1a	1000	U	2.1
47	2p	20	VAL	2.1
50	2s	58	VAL	2.1
44	1m	109	THR	2.1
52	1u	17	THR	2.1
30	28	16	ILE	2.1
34	1c	72	LYS	2.1
36	2e	49	PRO	2.1
36	2e	129	ILE	2.1
33	1b	55	PHE	2.1
5	2F	33	LEU	2.1
19	1X	95	LEU	2.1
21	2Z	41	LEU	2.1
40	1i	79	LEU	2.1
46	2o	32	LEU	2.1
1	1A	1076	C	2.1
32	1a	1452	C	2.1
1	1A	529	A	2.1
34	2c	21	ARG	2.1
35	2d	168	ARG	2.1
40	1i	51	ARG	2.1
40	2i	67	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
3	2D	127	VAL	2.1
4	1E	28	ALA	2.1
5	2F	49	ALA	2.1
14	2S	46	VAL	2.1
33	1b	186	ALA	2.1
33	2b	188	ALA	2.1
40	2i	119	ALA	2.1
41	2j	27	ALA	2.1
50	2s	75	ALA	2.1
54	2y	60	U	2.1
30	18	17	THR	2.1
31	19	26	ILE	2.1
33	1b	185	ILE	2.1
35	1d	189	PRO	2.1
5	2F	83	PHE	2.1
46	2o	15	PHE	2.1
34	1c	91	LEU	2.1
18	2W	13	SER	2.1
1	2A	2723	C	2.1
35	1d	76	ARG	2.1
35	2d	73	ARG	2.1
41	2j	73	ASP	2.1
42	1k	96	ARG	2.1
49	1r	42	ARG	2.1
3	2D	210	GLY	2.1
9	2N	81	GLY	2.1
50	1s	66	MET	2.1
1	1A	614(A)	U	2.1
9	1N	5	VAL	2.1
17	2V	79	VAL	2.1
22	20	18	ALA	2.1
31	29	34	GLN	2.1
37	1f	88	VAL	2.1
44	2m	18	ALA	2.1
44	2m	98	VAL	2.1
48	2q	32	TYR	2.1
48	2q	35	VAL	2.1
11	2P	75	ILE	2.1
39	2h	100	ILE	2.1
24	12	11	GLU	2.1
30	28	48	PHE	2.1
34	2c	140	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
43	2l	52	LEU	2.1
52	1u	6	ARG	2.1
10	2O	29	ASN	2.1
16	2U	43	GLY	2.1
55	2x	34	C	2.1
36	2e	19	MET	2.1
1	1A	1069	A	2.1
3	1D	229	VAL	2.1
4	2E	165	VAL	2.1
5	2F	53	THR	2.1
6	2G	48	GLU	2.1
25	13	9	VAL	2.1
39	2h	61	VAL	2.1
41	1j	20	ALA	2.1
19	2X	5	TYR	2.1
32	2a	781	A	2.1
32	2a	1251	A	2.1
34	2c	165	THR	2.1
43	2l	58	VAL	2.1
40	2i	120	ARG	2.1
43	2l	61	THR	2.1
12	2Q	72	LYS	2.1
33	2b	41	ILE	2.1
40	1i	78	LYS	2.1
33	1b	17	PHE	2.1
33	2b	113	HIS	2.1
40	2i	50	LEU	2.1
45	1n	53	LEU	2.1
45	2n	16	PHE	2.1
51	2t	72	LEU	2.1
41	2j	52	GLY	2.1
50	1s	84	GLY	2.1
35	2d	160	GLN	2.1
1	2A	2136	C	2.1
3	2D	156	ALA	2.1
9	2N	84	LYS	2.1
12	1Q	44	ALA	2.1
32	2a	953	G	2.1
34	1c	60	ALA	2.1
38	2g	147	ALA	2.1
41	2j	7	LYS	2.1
44	2m	75	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
44	2m	93	ARG	2.1
51	1t	67	ALA	2.1
4	2E	38	THR	2.1
21	2Z	128	VAL	2.1
34	2c	64	VAL	2.1
36	1e	90	VAL	2.1
37	1f	9	VAL	2.1
54	2y	59	U	2.1
4	2E	151	TYR	2.1
15	2T	48	ILE	2.1
32	2a	1225	A	2.1
9	2N	112	LEU	2.1
19	2X	95	LEU	2.1
33	1b	215	LEU	2.1
44	1m	96	LEU	2.1
6	2G	132	ASN	2.1
3	2D	223	GLY	2.1
11	2P	109	GLY	2.1
45	2n	27	CYS	2.1
42	1k	42	TRP	2.1
21	2Z	46	LYS	2.1
37	2f	92	LYS	2.1
38	1g	155	ARG	2.1
35	2d	33	MET	2.0
39	2h	9	MET	2.0
14	1S	6	ALA	2.0
35	1d	7	PRO	2.0
1	1A	895	U	2.0
7	2H	131	VAL	2.0
10	2O	102	VAL	2.0
44	1m	98	VAL	2.0
45	2n	33	VAL	2.0
54	1y	45	U	2.0
1	2A	831	G	2.0
14	2S	92	TYR	2.0
8	2I	11	ASN	2.0
33	1b	214	ILE	2.0
46	1o	81	LEU	2.0
41	1j	5	ARG	2.0
4	2E	123	ALA	2.0
25	23	51	ALA	2.0
30	18	10	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
40	1i	123	PRO	2.0
45	2n	54	PRO	2.0
18	2W	76	VAL	2.0
41	2j	92	THR	2.0
32	1a	307	C	2.0
32	1a	1223	C	2.0
49	2r	22	VAL	2.0
39	1h	87	SER	2.0
40	2i	31	GLN	2.0
12	2Q	47	ILE	2.0
21	2Z	143	GLY	2.0
11	2P	77	ARG	2.0
23	11	95	LEU	2.0
35	1d	23	GLY	2.0
39	1h	2	LEU	2.0
43	2l	70	ILE	2.0
41	1j	70	ARG	2.0
1	1A	1992	G	2.0
1	2A	2319	G	2.0
32	1a	630	G	2.0
6	2G	142	PRO	2.0
12	2Q	4	PRO	2.0
46	2o	59	MET	2.0
21	2Z	51	ALA	2.0
42	1k	87	THR	2.0
3	1D	34	VAL	2.0
3	1D	51	VAL	2.0
6	2G	115	ARG	2.0
7	2H	142	GLY	2.0
15	1T	106	SER	2.0
18	2W	60	ASN	2.0
40	1i	26	VAL	2.0
48	2q	10	VAL	2.0
15	1T	111	ARG	2.0
22	20	77	ARG	2.0
35	2d	122	ARG	2.0
44	1m	100	GLY	2.0
4	1E	78	LEU	2.0
5	2F	32	LEU	2.0
10	1O	47	ILE	2.0
36	1e	129	ILE	2.0
39	1h	38	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
55	2x	71	C	2.0
41	1j	54	PHE	2.0
44	1m	23	TYR	2.0
47	2p	38	TYR	2.0
49	1r	34	TYR	2.0
1	2A	2051	A	2.0
1	2A	2123	G	2.0
32	1a	949	A	2.0
32	2a	928	G	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	PSU	2y	55	20/21	0.70	0.22	96,101,110,117	0
54	PSU	2y	32	20/21	0.74	0.32	86,92,101,110	0
54	G7M	2y	46	24/25	0.76	0.19	96,99,105,124	0
54	5MU	1y	54	21/22	0.76	0.29	88,94,106,116	0
54	4SU	2y	8	20/21	0.77	0.15	94,99,103,117	0
54	PSU	1y	55	20/21	0.77	0.24	91,98,108,119	0
54	4SU	1y	8	20/21	0.78	0.18	92,96,103,107	0
54	4SU	2w	8	20/21	0.78	0.21	92,97,102,108	0
54	G7M	1y	46	24/25	0.79	0.22	91,97,103,117	0
54	G7M	1w	46	24/25	0.79	0.22	72,89,108,125	0
54	5MU	2y	54	21/22	0.80	0.27	93,98,108,122	0
54	MIA	2y	37	22/30	0.80	0.33	83,93,104,117	0
54	G7M	2w	46	24/25	0.82	0.21	86,98,107,118	0
54	MIA	1y	37	22/30	0.85	0.28	81,88,95,103	0
54	PSU	1y	39	20/21	0.86	0.22	84,87,98,100	0
54	PSU	2w	55	20/21	0.86	0.20	82,89,98,101	0
54	PSU	1w	55	20/21	0.88	0.18	68,79,86,88	0
54	PSU	2y	39	20/21	0.89	0.28	84,89,97,104	0
54	MIA	2w	37	25/30	0.89	0.30	61,76,87,107	0
55	4SU	2x	8	20/21	0.90	0.16	73,81,85,85	0
54	PSU	2w	32	20/21	0.91	0.28	76,85,97,99	0
54	PSU	1y	32	20/21	0.91	0.21	80,88,92,96	0
54	4SU	1w	8	20/21	0.92	0.21	80,85,90,92	0
32	5MC	2a	967	21/22	0.92	0.21	63,70,81,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	PSU	2x	55	20/21	0.92	0.17	69,75,83,89	0
54	MIA	1w	37	29/30	0.92	0.31	52,60,77,90	0
54	5MU	2w	54	21/22	0.92	0.16	78,82,89,93	0
43	0TD	2l	92	10/11	0.93	0.18	65,68,71,74	0
32	PSU	2a	516	20/21	0.93	0.18	64,72,76,82	0
32	M2G	2a	966	25/26	0.93	0.28	61,68,80,84	0
55	5MU	2x	54	21/22	0.93	0.24	69,79,83,86	0
54	PSU	1w	32	20/21	0.93	0.21	63,71,81,82	0
32	2MG	2a	1207	24/25	0.93	0.18	76,86,89,90	0
32	5MC	2a	1404	21/22	0.94	0.21	48,54,59,63	0
1	MA6	2A	2058	24/25	0.94	0.26	38,49,57,59	0
43	0TD	1l	92	10/11	0.94	0.17	48,53,57,74	0
55	PSU	1x	55	20/21	0.94	0.16	56,62,72,77	0
54	5MU	1w	54	21/22	0.94	0.16	57,70,73,78	0
1	5MU	2A	1915	21/22	0.94	0.16	65,69,75,76	0
55	5MU	1x	54	21/22	0.95	0.16	58,64,73,74	0
1	PSU	2A	1917	20/21	0.95	0.16	57,62,73,75	0
32	4OC	2a	1402	22/23	0.95	0.21	54,61,67,68	0
1	OMC	2A	1920	21/22	0.95	0.20	54,62,64,65	0
32	MA6	2a	1518	24/25	0.95	0.25	51,64,71,75	0
32	MA6	2a	1519	24/25	0.95	0.27	54,61,69,72	0
1	5MC	2A	1962	21/22	0.95	0.19	39,50,58,68	0
32	2MG	1a	1207	24/25	0.95	0.19	67,74,77,79	0
1	5MU	1A	1915	21/22	0.95	0.18	50,56,59,61	0
32	G7M	2a	527	24/25	0.95	0.18	57,66,70,74	0
54	PSU	2w	39	20/21	0.95	0.29	65,81,87,87	0
1	PSU	2A	1911	20/21	0.95	0.17	59,62,67,71	0
32	5MC	1a	967	21/22	0.96	0.25	47,54,62,67	0
32	5MC	2a	1400	21/22	0.96	0.27	65,70,73,77	0
1	MA6	1A	2058	24/25	0.96	0.26	25,38,41,42	0
32	M2G	1a	966	25/26	0.96	0.23	45,53,63,69	0
32	5MC	2a	1407	21/22	0.96	0.21	48,55,60,66	0
55	4SU	1x	8	20/21	0.96	0.17	55,63,67,67	0
55	5MC	1x	32	21/22	0.96	0.22	54,59,63,71	0
54	PSU	1w	39	20/21	0.96	0.22	56,68,73,81	0
55	5MC	2x	32	21/22	0.96	0.20	68,71,77,79	0
32	PSU	1a	516	20/21	0.97	0.17	50,60,64,65	0
32	5MC	1a	1400	21/22	0.97	0.22	48,53,57,60	0
55	31H	2x	76	32/33	0.97	0.27	41,47,60,65	0
1	OMU	2A	2552	21/22	0.97	0.23	39,46,51,55	0
1	PSU	2A	2605	20/21	0.97	0.21	37,41,49,50	0
32	G7M	1a	527	24/25	0.97	0.19	48,53,59,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	UR3	2a	1498	21/22	0.97	0.24	53,59,63,68	0
1	PSU	1A	1917	20/21	0.97	0.20	46,52,57,58	0
1	PSU	1A	1911	20/21	0.97	0.19	40,48,54,54	0
1	5MC	2A	1942	21/22	0.97	0.19	53,59,63,63	0
32	5MC	1a	1407	21/22	0.98	0.20	36,44,46,49	0
32	UR3	1a	1498	21/22	0.98	0.23	40,44,48,54	0
32	MA6	1a	1518	24/25	0.98	0.23	38,42,47,47	0
32	MA6	1a	1519	24/25	0.98	0.24	41,46,50,53	0
1	5MC	1A	1942	21/22	0.98	0.22	36,41,47,51	0
1	5MU	2A	1939	21/22	0.98	0.21	33,39,46,50	0
55	31H	1x	76	32/33	0.98	0.24	24,31,38,47	10
1	5MC	1A	1962	21/22	0.98	0.21	31,39,43,52	0
1	OMC	1A	1920	21/22	0.98	0.21	41,46,48,48	0
1	OMG	2A	2251	24/25	0.98	0.23	39,44,48,50	0
1	2MA	2A	2503	23/24	0.98	0.22	37,41,44,45	0
1	PSU	1A	2605	20/21	0.98	0.22	24,29,36,37	0
1	5MU	1A	1939	21/22	0.98	0.22	27,32,37,38	0
32	4OC	1a	1402	22/23	0.98	0.20	43,49,51,54	0
32	5MC	1a	1404	21/22	0.98	0.22	34,43,47,48	0
1	OMU	1A	2552	21/22	0.99	0.25	27,32,34,38	0
1	OMG	1A	2251	24/25	0.99	0.22	24,27,32,32	0
1	2MA	1A	2503	23/24	0.99	0.24	23,27,29,30	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(Å^2)	Q<0.9
56	MG	2d	302	1/1	0.30	0.21	68,68,68,68	0
56	MG	2A	3085	1/1	0.34	0.13	87,87,87,87	0
56	MG	2a	1657	1/1	0.35	0.21	74,74,74,74	0
56	MG	1A	4056	1/1	0.42	0.20	65,65,65,65	0
56	MG	1A	4041	1/1	0.42	0.31	75,75,75,75	0
56	MG	1A	4061	1/1	0.43	0.56	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3237	1/1	0.43	0.69	67,67,67,67	0
56	MG	1A	3966	1/1	0.45	0.43	82,82,82,82	0
56	MG	1A	3794	1/1	0.46	0.13	66,66,66,66	0
56	MG	2A	3383	1/1	0.46	0.24	66,66,66,66	0
56	MG	2a	1722	1/1	0.47	0.30	72,72,72,72	0
56	MG	2A	3086	1/1	0.47	0.23	72,72,72,72	0
56	MG	2A	3203	1/1	0.48	0.23	73,73,73,73	0
56	MG	2A	3046	1/1	0.48	0.20	74,74,74,74	0
56	MG	1A	3594	1/1	0.49	0.24	62,62,62,62	0
56	MG	1A	4024	1/1	0.49	0.16	62,62,62,62	0
56	MG	2A	3188	1/1	0.49	0.18	68,68,68,68	0
56	MG	2A	3240	1/1	0.50	0.30	84,84,84,84	0
56	MG	2A	3243	1/1	0.50	0.19	80,80,80,80	0
56	MG	2A	3532	1/1	0.51	0.21	69,69,69,69	0
56	MG	2A	3729	1/1	0.51	0.26	63,63,63,63	0
56	MG	1A	3703	1/1	0.51	0.22	56,56,56,56	0
56	MG	1A	3993	1/1	0.51	0.11	67,67,67,67	0
56	MG	2a	1753	1/1	0.51	0.16	92,92,92,92	0
56	MG	2a	1820	1/1	0.51	0.19	74,74,74,74	0
56	MG	2A	3035	1/1	0.51	0.20	74,74,74,74	0
56	MG	1A	3268	1/1	0.52	0.22	55,55,55,55	0
56	MG	1x	102	1/1	0.54	0.31	68,68,68,68	0
56	MG	2a	1688	1/1	0.54	0.26	72,72,72,72	0
56	MG	1A	4090	1/1	0.56	0.24	85,85,85,85	0
56	MG	2A	3771	1/1	0.56	0.12	68,68,68,68	0
56	MG	2a	1627	1/1	0.57	0.32	77,77,77,77	0
56	MG	1a	1735	1/1	0.57	0.13	70,70,70,70	0
56	MG	2A	3433	1/1	0.57	0.24	82,82,82,82	0
56	MG	1A	4074	1/1	0.57	0.24	72,72,72,72	0
56	MG	2A	3097	1/1	0.57	0.27	68,68,68,68	0
56	MG	2A	3057	1/1	0.57	0.21	66,66,66,66	0
56	MG	2A	3796	1/1	0.57	0.07	69,69,69,69	0
56	MG	1A	3403	1/1	0.58	0.44	54,54,54,54	0
56	MG	1A	3942	1/1	0.58	0.13	78,78,78,78	0
56	MG	1a	1737	1/1	0.58	0.15	80,80,80,80	0
56	MG	1A	4046	1/1	0.58	0.36	47,47,47,47	0
56	MG	2A	3432	1/1	0.58	0.17	75,75,75,75	0
56	MG	2E	307	1/1	0.58	0.16	69,69,69,69	0
56	MG	2a	1622	1/1	0.58	0.44	73,73,73,73	0
56	MG	1A	4018	1/1	0.59	0.35	64,64,64,64	0
56	MG	2a	1610	1/1	0.59	0.17	66,66,66,66	0
56	MG	1A	4007	1/1	0.59	0.14	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1808	1/1	0.59	0.14	77,77,77,77	0
56	MG	2A	3773	1/1	0.59	0.17	67,67,67,67	0
56	MG	1A	4040	1/1	0.59	0.18	69,69,69,69	0
56	MG	2A	3314	1/1	0.60	0.33	78,78,78,78	0
56	MG	1A	3735	1/1	0.60	0.19	62,62,62,62	0
56	MG	2A	3005	1/1	0.61	0.20	62,62,62,62	0
56	MG	2A	3425	1/1	0.61	0.47	63,63,63,63	0
56	MG	2A	3062	1/1	0.61	0.31	74,74,74,74	0
56	MG	2a	1699	1/1	0.61	0.10	78,78,78,78	0
56	MG	2A	3279	1/1	0.61	0.49	76,76,76,76	0
56	MG	2a	1739	1/1	0.61	0.13	79,79,79,79	0
56	MG	2A	3513	1/1	0.61	0.19	76,76,76,76	0
56	MG	2A	3080	1/1	0.61	0.29	66,66,66,66	0
56	MG	2a	1616	1/1	0.61	0.11	77,77,77,77	0
56	MG	2A	3620	1/1	0.61	0.17	78,78,78,78	0
56	MG	1a	1632	1/1	0.62	0.29	83,83,83,83	0
56	MG	2A	3299	1/1	0.62	0.26	68,68,68,68	0
56	MG	1A	3264	1/1	0.62	0.51	67,67,67,67	0
56	MG	2A	3338	1/1	0.62	0.13	62,62,62,62	0
56	MG	2A	3615	1/1	0.62	0.19	60,60,60,60	0
56	MG	2a	1755	1/1	0.62	0.23	84,84,84,84	0
56	MG	1A	3292	1/1	0.62	0.20	55,55,55,55	0
56	MG	2A	3391	1/1	0.62	0.18	76,76,76,76	0
56	MG	2A	3254	1/1	0.62	0.42	66,66,66,66	0
56	MG	1A	3180	1/1	0.63	0.20	56,56,56,56	0
56	MG	1E	318	1/1	0.63	0.33	45,45,45,45	0
56	MG	1V	207	1/1	0.63	0.23	62,62,62,62	0
56	MG	2A	3068	1/1	0.63	0.32	63,63,63,63	0
56	MG	2a	1642	1/1	0.63	0.14	70,70,70,70	0
56	MG	2a	1701	1/1	0.64	0.15	68,68,68,68	0
56	MG	2A	3665	1/1	0.64	0.11	76,76,76,76	0
56	MG	1O	201	1/1	0.64	0.33	72,72,72,72	0
56	MG	1A	3579	1/1	0.64	0.29	44,44,44,44	0
56	MG	1A	3418	1/1	0.64	0.38	69,69,69,69	0
56	MG	2a	1769	1/1	0.64	0.19	69,69,69,69	0
56	MG	2a	1771	1/1	0.64	0.27	70,70,70,70	0
56	MG	2A	3015	1/1	0.64	0.19	65,65,65,65	0
56	MG	1A	3782	1/1	0.64	0.15	51,51,51,51	0
56	MG	2A	3291	1/1	0.64	0.17	67,67,67,67	0
56	MG	1A	3368	1/1	0.65	0.30	54,54,54,54	0
56	MG	2a	1698	1/1	0.65	0.13	77,77,77,77	0
56	MG	1A	3995	1/1	0.65	0.24	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3293	1/1	0.65	0.35	85,85,85,85	0
56	MG	2B	205	1/1	0.65	0.22	72,72,72,72	0
56	MG	1A	3892	1/1	0.65	0.16	57,57,57,57	0
56	MG	1A	3349	1/1	0.65	0.22	64,64,64,64	0
56	MG	2a	1612	1/1	0.65	0.23	76,76,76,76	0
56	MG	2A	3365	1/1	0.65	0.23	66,66,66,66	0
56	MG	2a	1770	1/1	0.65	0.15	77,77,77,77	0
56	MG	2A	3379	1/1	0.65	0.15	64,64,64,64	0
56	MG	2A	3248	1/1	0.65	0.51	72,72,72,72	0
56	MG	2A	3673	1/1	0.65	0.17	78,78,78,78	0
56	MG	1A	3488	1/1	0.65	0.28	65,65,65,65	0
56	MG	2a	1694	1/1	0.66	0.37	73,73,73,73	0
56	MG	1A	3019	1/1	0.66	0.17	50,50,50,50	0
56	MG	2a	1606	1/1	0.66	0.12	81,81,81,81	0
56	MG	2A	3366	1/1	0.66	0.27	72,72,72,72	0
56	MG	2A	3553	1/1	0.66	0.19	40,40,40,40	0
56	MG	2E	302	1/1	0.66	0.39	76,76,76,76	0
56	MG	2a	1690	1/1	0.66	0.11	80,80,80,80	0
56	MG	2A	3263	1/1	0.67	0.21	73,73,73,73	0
56	MG	2A	3277	1/1	0.67	0.49	74,74,74,74	0
56	MG	1A	4012	1/1	0.67	0.23	80,80,80,80	0
56	MG	2A	3282	1/1	0.67	0.26	70,70,70,70	0
56	MG	2A	3213	1/1	0.67	0.20	49,49,49,49	0
56	MG	1A	3933	1/1	0.67	0.18	35,35,35,35	0
56	MG	1B	221	1/1	0.67	0.16	66,66,66,66	0
56	MG	1A	3512	1/1	0.67	0.32	64,64,64,64	0
56	MG	2A	3362	1/1	0.67	0.30	64,64,64,64	0
56	MG	1a	1768	1/1	0.67	0.09	70,70,70,70	0
56	MG	1A	3466	1/1	0.67	0.18	67,67,67,67	0
56	MG	1A	3187	1/1	0.68	0.16	58,58,58,58	0
56	MG	1A	3329	1/1	0.68	0.28	47,47,47,47	0
56	MG	1A	3575	1/1	0.68	0.16	49,49,49,49	0
56	MG	1a	1636	1/1	0.68	0.36	69,69,69,69	0
56	MG	2a	1750	1/1	0.68	0.14	74,74,74,74	0
56	MG	2A	3190	1/1	0.68	0.20	79,79,79,79	0
56	MG	1a	1694	1/1	0.68	0.16	72,72,72,72	0
56	MG	1A	3465	1/1	0.68	0.25	76,76,76,76	0
56	MG	2A	3217	1/1	0.68	0.13	86,86,86,86	0
56	MG	2A	3797	1/1	0.68	0.14	68,68,68,68	0
56	MG	1A	3391	1/1	0.68	0.15	63,63,63,63	0
56	MG	1A	3898	1/1	0.68	0.15	48,48,48,48	0
56	MG	1b	301	1/1	0.68	0.14	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2B	208	1/1	0.69	0.33	73,73,73,73	0
56	MG	2A	3790	1/1	0.69	0.24	66,66,66,66	0
56	MG	1A	3460	1/1	0.69	0.25	73,73,73,73	0
56	MG	2A	3373	1/1	0.69	0.13	73,73,73,73	0
56	MG	2a	1634	1/1	0.69	0.23	79,79,79,79	0
56	MG	2a	1700	1/1	0.69	0.23	64,64,64,64	0
56	MG	2A	3258	1/1	0.69	0.16	82,82,82,82	0
56	MG	2a	1647	1/1	0.69	0.11	83,83,83,83	0
56	MG	2a	1611	1/1	0.69	0.14	81,81,81,81	0
56	MG	2y	103	1/1	0.69	0.14	85,85,85,85	0
56	MG	2A	3336	1/1	0.70	0.28	78,78,78,78	0
56	MG	1A	3451	1/1	0.70	0.19	69,69,69,69	0
56	MG	1a	1703	1/1	0.70	0.30	81,81,81,81	0
56	MG	1A	3804	1/1	0.70	0.17	55,55,55,55	0
56	MG	2A	3245	1/1	0.70	0.12	78,78,78,78	0
56	MG	1A	3846	1/1	0.70	0.11	76,76,76,76	0
56	MG	1A	3065	1/1	0.70	0.23	62,62,62,62	0
56	MG	1A	3088	1/1	0.70	0.36	58,58,58,58	0
56	MG	1A	3195	1/1	0.70	0.30	73,73,73,73	0
56	MG	2A	3264	1/1	0.70	0.21	78,78,78,78	0
56	MG	2B	211	1/1	0.70	0.18	79,79,79,79	0
56	MG	2D	303	1/1	0.70	0.16	65,65,65,65	0
56	MG	2a	1734	1/1	0.70	0.19	67,67,67,67	0
56	MG	1A	3468	1/1	0.70	0.26	66,66,66,66	0
56	MG	1a	1604	1/1	0.70	0.14	66,66,66,66	0
56	MG	1A	3356	1/1	0.70	0.19	66,66,66,66	0
56	MG	2A	3205	1/1	0.70	0.25	78,78,78,78	0
56	MG	2a	1767	1/1	0.70	0.14	72,72,72,72	0
56	MG	2A	3540	1/1	0.70	0.32	70,70,70,70	0
56	MG	1A	3505	1/1	0.70	0.22	66,66,66,66	0
56	MG	2a	1613	1/1	0.70	0.21	81,81,81,81	0
56	MG	2A	3049	1/1	0.70	0.18	71,71,71,71	0
56	MG	2a	1811	1/1	0.70	0.19	82,82,82,82	0
56	MG	2a	1621	1/1	0.70	0.09	83,83,83,83	0
56	MG	2A	3321	1/1	0.70	0.31	69,69,69,69	0
56	MG	2A	3643	1/1	0.70	0.17	85,85,85,85	0
56	MG	2A	3197	1/1	0.71	0.30	65,65,65,65	0
56	MG	1A	4083	1/1	0.71	0.13	43,43,43,43	0
56	MG	1A	3498	1/1	0.71	0.47	65,65,65,65	0
56	MG	1a	1667	1/1	0.71	0.14	63,63,63,63	0
56	MG	2A	3345	1/1	0.71	0.23	76,76,76,76	0
56	MG	2A	3353	1/1	0.71	0.28	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3586	1/1	0.71	0.18	64,64,64,64	0
56	MG	2A	3231	1/1	0.71	0.34	59,59,59,59	0
56	MG	1A	3914	1/1	0.71	0.11	68,68,68,68	0
56	MG	1A	3519	1/1	0.71	0.32	57,57,57,57	0
56	MG	1A	3698	1/1	0.71	0.14	59,59,59,59	0
56	MG	2w	104	1/1	0.71	0.26	81,81,81,81	0
56	MG	1A	3369	1/1	0.71	0.32	66,66,66,66	0
56	MG	1A	3526	1/1	0.72	0.27	59,59,59,59	0
56	MG	2A	3171	1/1	0.72	0.17	57,57,57,57	0
56	MG	1A	3027	1/1	0.72	0.11	82,82,82,82	0
56	MG	1A	3366	1/1	0.72	0.47	50,50,50,50	0
56	MG	1T	201	1/1	0.72	0.26	61,61,61,61	0
56	MG	2B	212	1/1	0.72	0.19	78,78,78,78	0
56	MG	1A	3017	1/1	0.72	0.33	65,65,65,65	0
56	MG	2A	3471	1/1	0.72	0.13	42,42,42,42	0
56	MG	2a	1729	1/1	0.72	0.32	57,57,57,57	0
56	MG	2A	3287	1/1	0.72	0.28	55,55,55,55	0
56	MG	2F	303	1/1	0.72	0.26	74,74,74,74	0
56	MG	2A	3027	1/1	0.72	0.13	50,50,50,50	0
56	MG	1a	1603	1/1	0.72	0.11	68,68,68,68	0
56	MG	1A	3232	1/1	0.72	0.35	66,66,66,66	0
56	MG	1A	3598	1/1	0.72	0.24	59,59,59,59	0
56	MG	1A	3642	1/1	0.72	0.17	31,31,31,31	0
56	MG	2A	3625	1/1	0.72	0.15	57,57,57,57	0
56	MG	1A	3654	1/1	0.72	0.20	29,29,29,29	0
56	MG	2a	1801	1/1	0.72	0.15	89,89,89,89	0
56	MG	1A	3354	1/1	0.72	0.13	68,68,68,68	0
56	MG	2A	3244	1/1	0.72	0.33	79,79,79,79	0
56	MG	1A	3400	1/1	0.72	0.38	59,59,59,59	0
56	MG	1A	3525	1/1	0.72	0.20	57,57,57,57	0
56	MG	2A	3252	1/1	0.72	0.19	72,72,72,72	0
56	MG	1A	3749	1/1	0.72	0.11	41,41,41,41	0
56	MG	1A	3934	1/1	0.73	0.10	65,65,65,65	0
56	MG	1A	3263	1/1	0.73	0.19	59,59,59,59	0
56	MG	2A	3158	1/1	0.73	0.28	79,79,79,79	0
56	MG	1A	3570	1/1	0.73	0.27	64,64,64,64	0
56	MG	1A	3438	1/1	0.73	0.25	50,50,50,50	0
56	MG	2A	3262	1/1	0.73	0.19	70,70,70,70	0
56	MG	2A	3369	1/1	0.73	0.26	70,70,70,70	0
56	MG	2A	3687	1/1	0.73	0.19	51,51,51,51	0
56	MG	1A	3576	1/1	0.73	0.34	57,57,57,57	0
56	MG	2A	3020	1/1	0.73	0.22	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3183	1/1	0.73	0.18	81,81,81,81	0
56	MG	1A	4009	1/1	0.73	0.11	59,59,59,59	0
56	MG	1a	1664	1/1	0.73	0.21	71,71,71,71	0
56	MG	1A	3714	1/1	0.73	0.15	47,47,47,47	0
56	MG	1A	3481	1/1	0.73	0.15	57,57,57,57	0
56	MG	2a	1648	1/1	0.73	0.17	80,80,80,80	0
56	MG	1B	227	1/1	0.73	0.24	50,50,50,50	0
56	MG	2a	1671	1/1	0.73	0.17	72,72,72,72	0
56	MG	2a	1686	1/1	0.73	0.20	76,76,76,76	0
56	MG	1A	3256	1/1	0.73	0.20	41,41,41,41	0
56	MG	2v	101	1/1	0.73	0.18	75,75,75,75	0
56	MG	2v	102	1/1	0.73	0.15	83,83,83,83	0
56	MG	1F	312	1/1	0.73	0.27	60,60,60,60	0
56	MG	1a	1767	1/1	0.73	0.13	62,62,62,62	0
56	MG	2A	3058	1/1	0.74	0.19	85,85,85,85	0
56	MG	2A	3060	1/1	0.74	0.23	60,60,60,60	0
56	MG	2a	1704	1/1	0.74	0.20	70,70,70,70	0
56	MG	2A	3333	1/1	0.74	0.15	69,69,69,69	0
56	MG	1A	3492	1/1	0.74	0.19	51,51,51,51	0
56	MG	1a	1776	1/1	0.74	0.13	78,78,78,78	0
56	MG	1a	1782	1/1	0.74	0.10	66,66,66,66	0
56	MG	1a	1788	1/1	0.74	0.11	84,84,84,84	0
56	MG	1A	3960	1/1	0.74	0.40	59,59,59,59	0
56	MG	1A	3874	1/1	0.74	0.19	43,43,43,43	0
56	MG	1A	3761	1/1	0.74	0.27	35,35,35,35	0
56	MG	1B	234	1/1	0.74	0.15	74,74,74,74	0
56	MG	1A	3144	1/1	0.74	0.31	46,46,46,46	0
56	MG	1A	3079	1/1	0.74	0.17	58,58,58,58	0
56	MG	1A	3803	1/1	0.74	0.18	52,52,52,52	0
56	MG	1R	208	1/1	0.74	0.37	45,45,45,45	0
56	MG	2A	3047	1/1	0.74	0.17	51,51,51,51	0
56	MG	2A	3210	1/1	0.74	0.45	59,59,59,59	0
56	MG	1A	4073	1/1	0.74	0.31	86,86,86,86	0
56	MG	2A	3437	1/1	0.74	0.22	60,60,60,60	0
56	MG	1A	3416	1/1	0.74	0.54	56,56,56,56	0
56	MG	2A	3225	1/1	0.74	0.63	73,73,73,73	0
56	MG	2A	3309	1/1	0.74	0.23	72,72,72,72	0
56	MG	1A	3094	1/1	0.75	0.22	81,81,81,81	0
56	MG	2A	3183	1/1	0.75	0.18	67,67,67,67	0
56	MG	2A	3184	1/1	0.75	0.16	80,80,80,80	0
56	MG	1A	3398	1/1	0.75	0.28	54,54,54,54	0
56	MG	1A	3249	1/1	0.75	0.23	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	2A	3800	1/1	0.75	0.17	74,74,74,74	0
56	MG	2A	3802	1/1	0.75	0.16	74,74,74,74	0
56	MG	1A	3591	1/1	0.75	0.10	63,63,63,63	0
56	MG	1A	3093	1/1	0.75	0.30	57,57,57,57	0
56	MG	1A	3523	1/1	0.75	0.16	59,59,59,59	0
56	MG	1a	1718	1/1	0.75	0.18	75,75,75,75	0
56	MG	1A	3410	1/1	0.75	0.17	75,75,75,75	0
56	MG	2A	3475	1/1	0.75	0.09	70,70,70,70	0
56	MG	2A	3505	1/1	0.75	0.16	38,38,38,38	0
56	MG	1A	3860	1/1	0.75	0.10	57,57,57,57	0
56	MG	1A	3261	1/1	0.75	0.14	62,62,62,62	0
56	MG	1A	3529	1/1	0.75	0.33	65,65,65,65	0
56	MG	2a	1756	1/1	0.75	0.16	74,74,74,74	0
56	MG	1A	3535	1/1	0.75	0.25	61,61,61,61	0
56	MG	2A	3581	1/1	0.75	0.14	55,55,55,55	0
56	MG	1A	3908	1/1	0.75	0.24	42,42,42,42	0
56	MG	2A	3083	1/1	0.75	0.34	63,63,63,63	0
56	MG	2A	3343	1/1	0.75	0.13	70,70,70,70	0
56	MG	1A	3371	1/1	0.75	0.23	62,62,62,62	0
56	MG	1A	4043	1/1	0.75	0.16	57,57,57,57	0
56	MG	2A	3088	1/1	0.75	0.73	61,61,61,61	0
56	MG	2a	1635	1/1	0.75	0.18	79,79,79,79	0
56	MG	1A	3920	1/1	0.75	0.18	50,50,50,50	0
56	MG	1A	3376	1/1	0.75	0.21	64,64,64,64	0
56	MG	2A	3733	1/1	0.75	0.08	79,79,79,79	0
56	MG	2A	3759	1/1	0.75	0.17	60,60,60,60	0
58	ZN	24	501	1/1	0.75	0.17	132,132,132,132	0
56	MG	2A	3455	1/1	0.76	0.22	79,79,79,79	0
56	MG	2A	3317	1/1	0.76	0.18	79,79,79,79	0
56	MG	1A	3237	1/1	0.76	0.17	47,47,47,47	0
56	MG	2A	3798	1/1	0.76	0.15	62,62,62,62	0
56	MG	1A	4062	1/1	0.76	0.26	70,70,70,70	0
56	MG	1A	3467	1/1	0.76	0.36	72,72,72,72	0
56	MG	1V	206	1/1	0.76	0.26	68,68,68,68	0
56	MG	2A	3536	1/1	0.76	0.15	73,73,73,73	0
56	MG	1A	3286	1/1	0.76	0.23	52,52,52,52	0
56	MG	2A	3548	1/1	0.76	0.18	72,72,72,72	0
56	MG	1A	3638	1/1	0.76	0.19	70,70,70,70	0
56	MG	2A	3568	1/1	0.76	0.23	47,47,47,47	0
56	MG	1A	3956	1/1	0.76	0.17	60,60,60,60	0
56	MG	2A	3604	1/1	0.76	0.21	67,67,67,67	0
56	MG	27	103	1/1	0.76	0.30	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3198	1/1	0.76	0.20	77,77,77,77	0
56	MG	2A	3199	1/1	0.76	0.32	52,52,52,52	0
56	MG	1A	3068	1/1	0.76	0.23	60,60,60,60	0
56	MG	2A	3631	1/1	0.76	0.12	68,68,68,68	0
56	MG	2A	3266	1/1	0.76	0.17	74,74,74,74	0
56	MG	1A	3584	1/1	0.76	0.21	67,67,67,67	0
56	MG	2A	3666	1/1	0.76	0.14	72,72,72,72	0
56	MG	1a	1643	1/1	0.76	0.17	63,63,63,63	0
56	MG	2A	3685	1/1	0.76	0.15	42,42,42,42	0
56	MG	1x	109	1/1	0.76	0.19	76,76,76,76	0
56	MG	1A	3980	1/1	0.76	0.18	33,33,33,33	0
56	MG	1E	314	1/1	0.76	0.17	69,69,69,69	0
56	MG	2A	3744	1/1	0.76	0.18	37,37,37,37	0
56	MG	1A	3687	1/1	0.76	0.14	70,70,70,70	0
56	MG	1A	3143	1/1	0.76	0.19	56,56,56,56	0
56	MG	2A	3118	1/1	0.76	0.13	57,57,57,57	0
56	MG	2A	3093	1/1	0.77	0.11	56,56,56,56	0
56	MG	2A	3609	1/1	0.77	0.22	63,63,63,63	0
56	MG	2A	3095	1/1	0.77	0.10	73,73,73,73	0
56	MG	2A	3259	1/1	0.77	0.19	78,78,78,78	0
56	MG	2a	1762	1/1	0.77	0.14	72,72,72,72	0
56	MG	2A	3232	1/1	0.77	0.34	72,72,72,72	0
56	MG	2A	3316	1/1	0.77	0.45	56,56,56,56	0
56	MG	1A	3390	1/1	0.77	0.49	71,71,71,71	0
56	MG	2A	3522	1/1	0.77	0.27	76,76,76,76	0
56	MG	2a	1784	1/1	0.77	0.21	72,72,72,72	0
56	MG	2a	1615	1/1	0.77	0.27	78,78,78,78	0
56	MG	1A	3862	1/1	0.77	0.22	53,53,53,53	0
56	MG	1A	3313	1/1	0.77	0.15	47,47,47,47	0
56	MG	1A	3248	1/1	0.77	0.17	63,63,63,63	0
56	MG	2a	1626	1/1	0.77	0.15	78,78,78,78	0
56	MG	2A	3397	1/1	0.77	0.20	71,71,71,71	0
56	MG	1a	1695	1/1	0.77	0.17	53,53,53,53	0
56	MG	2w	101	1/1	0.77	0.16	80,80,80,80	0
56	MG	1A	3810	1/1	0.77	0.21	65,65,65,65	0
56	MG	1A	3469	1/1	0.77	0.19	73,73,73,73	0
56	MG	2a	1749	1/1	0.77	0.22	80,80,80,80	0
56	MG	1a	1769	1/1	0.78	0.12	64,64,64,64	0
56	MG	2A	3420	1/1	0.78	0.23	77,77,77,77	0
56	MG	1A	3347	1/1	0.78	0.17	73,73,73,73	0
56	MG	2A	3429	1/1	0.78	0.41	52,52,52,52	0
56	MG	1a	1638	1/1	0.78	0.15	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3555	1/1	0.78	0.21	56,56,56,56	0
56	MG	1A	4079	1/1	0.78	0.17	67,67,67,67	0
56	MG	1a	1666	1/1	0.78	0.22	70,70,70,70	0
56	MG	2A	3337	1/1	0.78	0.24	76,76,76,76	0
56	MG	1A	3457	1/1	0.78	0.21	69,69,69,69	0
56	MG	2A	3715	1/1	0.78	0.12	77,77,77,77	0
56	MG	2A	3722	1/1	0.78	0.15	68,68,68,68	0
56	MG	2A	3496	1/1	0.78	0.17	75,75,75,75	0
56	MG	2a	1620	1/1	0.78	0.34	65,65,65,65	0
56	MG	2A	3341	1/1	0.78	0.19	78,78,78,78	0
56	MG	2A	3739	1/1	0.78	0.17	70,70,70,70	0
56	MG	1A	3477	1/1	0.78	0.24	67,67,67,67	0
56	MG	1B	207	1/1	0.78	0.17	73,73,73,73	0
56	MG	1A	3323	1/1	0.78	0.20	65,65,65,65	0
56	MG	18	101	1/1	0.78	0.68	66,66,66,66	0
56	MG	2a	1807	1/1	0.78	0.15	67,67,67,67	0
56	MG	2A	3539	1/1	0.78	0.22	70,70,70,70	0
56	MG	1a	1721	1/1	0.78	0.30	88,88,88,88	0
56	MG	18	104	1/1	0.78	0.63	53,53,53,53	0
56	MG	1A	3328	1/1	0.78	0.12	53,53,53,53	0
56	MG	2l	202	1/1	0.78	0.32	70,70,70,70	0
56	MG	1A	3208	1/1	0.78	0.13	69,69,69,69	0
56	MG	2A	3295	1/1	0.78	0.34	79,79,79,79	0
56	MG	2A	3584	1/1	0.78	0.45	67,67,67,67	0
56	MG	2B	206	1/1	0.78	0.22	67,67,67,67	0
56	MG	2A	3050	1/1	0.78	0.13	65,65,65,65	0
56	MG	1A	3375	1/1	0.78	0.21	42,42,42,42	0
56	MG	2A	3770	1/1	0.79	0.10	78,78,78,78	0
56	MG	2a	1677	1/1	0.79	0.15	67,67,67,67	0
56	MG	2A	3305	1/1	0.79	0.64	61,61,61,61	0
56	MG	1A	3393	1/1	0.79	0.14	64,64,64,64	0
56	MG	2A	3311	1/1	0.79	0.20	63,63,63,63	0
56	MG	1A	3650	1/1	0.79	0.16	60,60,60,60	0
56	MG	1A	3396	1/1	0.79	0.59	46,46,46,46	0
56	MG	1A	3573	1/1	0.79	0.34	46,46,46,46	0
56	MG	1A	3324	1/1	0.79	0.21	52,52,52,52	0
56	MG	1A	3362	1/1	0.79	1.00	64,64,64,64	0
56	MG	2A	3242	1/1	0.79	0.17	74,74,74,74	0
56	MG	2a	1713	1/1	0.79	0.15	59,59,59,59	0
56	MG	1A	3878	1/1	0.79	0.24	33,33,33,33	0
56	MG	1a	1649	1/1	0.79	0.14	65,65,65,65	0
56	MG	2A	3105	1/1	0.79	0.24	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1a	1653	1/1	0.79	0.23	73,73,73,73	0
56	MG	1A	4010	1/1	0.79	0.15	64,64,64,64	0
56	MG	1A	3401	1/1	0.79	0.27	51,51,51,51	0
56	MG	1A	3024	1/1	0.79	0.24	70,70,70,70	0
56	MG	2A	3612	1/1	0.79	0.13	58,58,58,58	0
56	MG	2A	3363	1/1	0.79	0.41	74,74,74,74	0
56	MG	1a	1685	1/1	0.79	0.26	65,65,65,65	0
56	MG	2A	3621	1/1	0.79	0.21	61,61,61,61	0
56	MG	1A	3744	1/1	0.79	0.21	42,42,42,42	0
56	MG	1A	3351	1/1	0.79	0.19	66,66,66,66	0
56	MG	1A	3915	1/1	0.79	0.13	59,59,59,59	0
56	MG	1A	3308	1/1	0.79	0.15	63,63,63,63	0
56	MG	1A	3765	1/1	0.79	0.17	24,24,24,24	0
56	MG	2A	3200	1/1	0.79	0.40	73,73,73,73	0
56	MG	1A	3392	1/1	0.79	0.38	74,74,74,74	0
56	MG	1A	3419	1/1	0.79	0.23	58,58,58,58	0
56	MG	2a	1623	1/1	0.79	0.16	77,77,77,77	0
56	MG	2d	301	1/1	0.79	0.35	67,67,67,67	0
56	MG	2A	3714	1/1	0.79	0.11	82,82,82,82	0
56	MG	1a	1749	1/1	0.79	0.09	74,74,74,74	0
56	MG	2A	3211	1/1	0.79	0.39	76,76,76,76	0
56	MG	2A	3296	1/1	0.79	0.26	84,84,84,84	0
56	MG	1A	3437	1/1	0.79	0.44	61,61,61,61	0
56	MG	2A	3302	1/1	0.79	0.25	65,65,65,65	0
56	MG	2A	3303	1/1	0.79	0.95	56,56,56,56	0
56	MG	2A	3304	1/1	0.79	0.35	76,76,76,76	0
56	MG	2a	1636	1/1	0.80	0.14	71,71,71,71	0
56	MG	1A	3829	1/1	0.80	0.11	52,52,52,52	0
56	MG	1A	3052	1/1	0.80	0.34	49,49,49,49	0
56	MG	2A	3065	1/1	0.80	0.42	60,60,60,60	0
56	MG	2a	1654	1/1	0.80	0.09	84,84,84,84	0
56	MG	1A	3708	1/1	0.80	0.35	60,60,60,60	0
56	MG	2A	3069	1/1	0.80	0.12	71,71,71,71	0
56	MG	1A	3968	1/1	0.80	0.12	70,70,70,70	0
56	MG	2A	3760	1/1	0.80	0.15	46,46,46,46	0
56	MG	1A	4072	1/1	0.80	0.16	78,78,78,78	0
56	MG	2a	1689	1/1	0.80	0.27	71,71,71,71	0
56	MG	2A	3478	1/1	0.80	0.17	65,65,65,65	0
56	MG	2A	3238	1/1	0.80	0.26	75,75,75,75	0
56	MG	2A	3774	1/1	0.80	0.13	41,41,41,41	0
56	MG	1Y	202	1/1	0.80	0.20	79,79,79,79	0
56	MG	2A	3795	1/1	0.80	0.43	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3554	1/1	0.80	0.31	58,58,58,58	0
56	MG	2A	3329	1/1	0.80	0.31	72,72,72,72	0
56	MG	1A	3728	1/1	0.80	0.18	65,65,65,65	0
56	MG	1A	4075	1/1	0.80	0.15	59,59,59,59	0
56	MG	1A	3330	1/1	0.80	0.14	60,60,60,60	0
56	MG	1A	3198	1/1	0.80	0.22	49,49,49,49	0
56	MG	1A	3572	1/1	0.80	0.53	49,49,49,49	0
56	MG	1A	4091	1/1	0.80	0.17	65,65,65,65	0
56	MG	1a	1642	1/1	0.80	0.11	67,67,67,67	0
56	MG	2A	3572	1/1	0.80	0.18	70,70,70,70	0
56	MG	2a	1754	1/1	0.80	0.12	70,70,70,70	0
56	MG	1A	4092	1/1	0.80	0.27	62,62,62,62	0
56	MG	2A	3360	1/1	0.80	0.18	53,53,53,53	0
56	MG	2E	306	1/1	0.80	0.16	38,38,38,38	0
56	MG	2A	3588	1/1	0.80	0.13	51,51,51,51	0
56	MG	1A	4093	1/1	0.80	0.23	65,65,65,65	0
56	MG	2A	3608	1/1	0.80	0.24	58,58,58,58	0
56	MG	2a	1605	1/1	0.80	0.18	69,69,69,69	0
56	MG	1B	203	1/1	0.80	0.19	59,59,59,59	0
56	MG	2a	1790	1/1	0.80	0.14	67,67,67,67	0
56	MG	1A	3025	1/1	0.80	0.35	42,42,42,42	0
56	MG	2A	3032	1/1	0.80	0.18	40,40,40,40	0
56	MG	2A	3195	1/1	0.80	0.52	74,74,74,74	0
56	MG	2A	3370	1/1	0.80	0.35	68,68,68,68	0
56	MG	1A	3221	1/1	0.80	0.21	58,58,58,58	0
56	MG	1A	3307	1/1	0.80	0.19	69,69,69,69	0
56	MG	1A	3656	1/1	0.80	0.22	26,26,26,26	0
56	MG	1a	1691	1/1	0.80	0.21	62,62,62,62	0
56	MG	1A	3501	1/1	0.80	0.29	53,53,53,53	0
56	MG	2A	3404	1/1	0.80	0.36	66,66,66,66	0
56	MG	2A	3413	1/1	0.80	0.17	65,65,65,65	0
56	MG	1A	3690	1/1	0.80	0.10	39,39,39,39	0
56	MG	1A	3530	1/1	0.80	0.35	72,72,72,72	0
56	MG	2A	3428	1/1	0.80	0.11	76,76,76,76	0
56	MG	2A	3659	1/1	0.81	0.12	67,67,67,67	0
56	MG	1A	3426	1/1	0.81	0.26	57,57,57,57	0
56	MG	1A	3101	1/1	0.81	0.15	66,66,66,66	0
56	MG	2A	3130	1/1	0.81	0.23	78,78,78,78	0
56	MG	2A	3133	1/1	0.81	0.18	64,64,64,64	0
56	MG	2A	3134	1/1	0.81	0.23	50,50,50,50	0
56	MG	2A	3699	1/1	0.81	0.37	48,48,48,48	0
56	MG	2A	3701	1/1	0.81	0.15	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3273	1/1	0.81	0.12	77,77,77,77	0
56	MG	2A	3147	1/1	0.81	0.46	69,69,69,69	0
56	MG	2a	1668	1/1	0.81	0.13	66,66,66,66	0
56	MG	2a	1669	1/1	0.81	0.27	84,84,84,84	0
56	MG	1A	4088	1/1	0.81	0.12	63,63,63,63	0
56	MG	2a	1676	1/1	0.81	0.18	66,66,66,66	0
56	MG	1A	4008	1/1	0.81	0.14	69,69,69,69	0
56	MG	1A	3729	1/1	0.81	0.19	54,54,54,54	0
56	MG	2A	3289	1/1	0.81	0.17	72,72,72,72	0
56	MG	1x	108	1/1	0.81	0.23	76,76,76,76	0
56	MG	1a	1633	1/1	0.81	0.13	49,49,49,49	0
56	MG	1A	3734	1/1	0.81	0.12	56,56,56,56	0
56	MG	2A	3298	1/1	0.81	0.11	85,85,85,85	0
56	MG	1A	3103	1/1	0.81	0.47	44,44,44,44	0
56	MG	1A	4097	1/1	0.81	0.17	58,58,58,58	0
56	MG	1A	3491	1/1	0.81	0.24	38,38,38,38	0
56	MG	2A	3789	1/1	0.81	0.13	69,69,69,69	0
56	MG	1A	3641	1/1	0.81	0.15	39,39,39,39	0
56	MG	1B	215	1/1	0.81	0.18	64,64,64,64	0
56	MG	2A	3307	1/1	0.81	0.24	68,68,68,68	0
56	MG	2A	3042	1/1	0.81	0.17	58,58,58,58	0
56	MG	2A	3310	1/1	0.81	0.20	72,72,72,72	0
56	MG	1a	1656	1/1	0.81	0.15	61,61,61,61	0
56	MG	1a	1662	1/1	0.81	0.26	66,66,66,66	0
56	MG	2B	201	1/1	0.81	0.33	78,78,78,78	0
56	MG	1A	3752	1/1	0.81	0.25	57,57,57,57	0
56	MG	1B	226	1/1	0.81	0.17	58,58,58,58	0
56	MG	1A	3443	1/1	0.81	0.18	65,65,65,65	0
56	MG	1B	230	1/1	0.81	0.10	81,81,81,81	0
56	MG	2A	3559	1/1	0.81	0.23	70,70,70,70	0
56	MG	1A	3225	1/1	0.81	0.24	47,47,47,47	0
56	MG	1D	310	1/1	0.81	0.15	67,67,67,67	0
56	MG	2A	3576	1/1	0.81	0.09	45,45,45,45	0
56	MG	2a	1781	1/1	0.81	0.15	79,79,79,79	0
56	MG	1A	3269	1/1	0.81	0.16	47,47,47,47	0
56	MG	1A	3385	1/1	0.81	0.36	48,48,48,48	0
56	MG	20	104	1/1	0.81	0.14	58,58,58,58	0
56	MG	2a	1802	1/1	0.81	0.20	69,69,69,69	0
56	MG	1A	4058	1/1	0.81	0.26	55,55,55,55	0
56	MG	1A	3657	1/1	0.81	0.15	52,52,52,52	0
56	MG	2A	3344	1/1	0.81	0.17	72,72,72,72	0
56	MG	1A	3226	1/1	0.81	0.22	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3258	1/1	0.81	0.32	51,51,51,51	0
56	MG	1A	3020	1/1	0.81	0.16	55,55,55,55	0
56	MG	2A	3618	1/1	0.81	0.20	48,48,48,48	0
56	MG	2A	3247	1/1	0.81	0.17	68,68,68,68	0
56	MG	1A	3300	1/1	0.81	0.25	31,31,31,31	0
56	MG	1A	3425	1/1	0.81	0.14	71,71,71,71	0
56	MG	2w	103	1/1	0.81	0.09	77,77,77,77	0
56	MG	14	101	1/1	0.81	0.17	81,81,81,81	0
56	MG	2A	3642	1/1	0.81	0.14	73,73,73,73	0
56	MG	1a	1774	1/1	0.81	0.09	70,70,70,70	0
56	MG	1a	1614	1/1	0.82	0.18	60,60,60,60	0
56	MG	2A	3713	1/1	0.82	0.41	63,63,63,63	0
56	MG	2a	1638	1/1	0.82	0.17	78,78,78,78	0
56	MG	1a	1617	1/1	0.82	0.19	52,52,52,52	0
56	MG	1a	1620	1/1	0.82	0.16	74,74,74,74	0
56	MG	1A	3692	1/1	0.82	0.20	29,29,29,29	0
56	MG	2A	3297	1/1	0.82	0.25	84,84,84,84	0
56	MG	2A	3731	1/1	0.82	0.19	69,69,69,69	0
56	MG	2A	3013	1/1	0.82	0.14	70,70,70,70	0
56	MG	1A	3257	1/1	0.82	0.17	46,46,46,46	0
56	MG	1A	3090	1/1	0.82	0.18	61,61,61,61	0
56	MG	1A	3856	1/1	0.82	0.18	63,63,63,63	0
56	MG	1A	3040	1/1	0.82	0.20	66,66,66,66	0
56	MG	1A	3374	1/1	0.82	0.44	42,42,42,42	0
56	MG	1A	3262	1/1	0.82	0.24	58,58,58,58	0
56	MG	2A	3503	1/1	0.82	0.21	65,65,65,65	0
56	MG	2A	3043	1/1	0.82	0.22	65,65,65,65	0
56	MG	1A	3411	1/1	0.82	0.34	50,50,50,50	0
56	MG	1A	3881	1/1	0.82	0.14	49,49,49,49	0
56	MG	2A	3313	1/1	0.82	0.18	74,74,74,74	0
56	MG	1a	1660	1/1	0.82	0.20	67,67,67,67	0
56	MG	1A	3413	1/1	0.82	0.17	55,55,55,55	0
56	MG	1A	3126	1/1	0.82	0.46	40,40,40,40	0
56	MG	1B	233	1/1	0.82	0.15	68,68,68,68	0
56	MG	2a	1718	1/1	0.82	0.42	80,80,80,80	0
56	MG	1A	3209	1/1	0.82	0.16	35,35,35,35	0
56	MG	2a	1728	1/1	0.82	0.19	67,67,67,67	0
56	MG	1a	1679	1/1	0.82	0.27	69,69,69,69	0
56	MG	2B	203	1/1	0.82	0.26	66,66,66,66	0
56	MG	1a	1682	1/1	0.82	0.36	66,66,66,66	0
56	MG	2a	1743	1/1	0.82	0.22	78,78,78,78	0
56	MG	1A	3217	1/1	0.82	0.16	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	3751	1/1	0.82	0.20	58,58,58,58	0
56	MG	1E	317	1/1	0.82	0.14	37,37,37,37	0
56	MG	1A	3479	1/1	0.82	0.45	51,51,51,51	0
56	MG	2A	3084	1/1	0.82	0.26	61,61,61,61	0
56	MG	1A	3542	1/1	0.82	0.19	64,64,64,64	0
56	MG	1A	3358	1/1	0.82	0.51	59,59,59,59	0
56	MG	2a	1763	1/1	0.82	0.18	74,74,74,74	0
56	MG	1A	3002	1/1	0.82	0.16	52,52,52,52	0
56	MG	1A	4064	1/1	0.82	0.22	39,39,39,39	0
56	MG	1A	3945	1/1	0.82	0.13	69,69,69,69	0
56	MG	21	101	1/1	0.82	0.13	58,58,58,58	0
56	MG	27	102	1/1	0.82	0.21	72,72,72,72	0
56	MG	2A	3261	1/1	0.82	0.26	70,70,70,70	0
56	MG	1A	3948	1/1	0.82	0.19	48,48,48,48	0
56	MG	1X	102	1/1	0.82	0.29	45,45,45,45	0
56	MG	2a	1608	1/1	0.82	0.23	73,73,73,73	0
56	MG	1A	3786	1/1	0.82	0.17	61,61,61,61	0
56	MG	2A	3372	1/1	0.82	0.14	68,68,68,68	0
56	MG	2A	3641	1/1	0.82	0.14	35,35,35,35	0
56	MG	1Z	302	1/1	0.82	0.14	69,69,69,69	0
56	MG	1A	3958	1/1	0.82	0.12	53,53,53,53	0
56	MG	2A	3652	1/1	0.82	0.36	56,56,56,56	0
56	MG	1A	3363	1/1	0.82	0.30	60,60,60,60	0
56	MG	2l	204	1/1	0.82	0.19	77,77,77,77	0
56	MG	1A	3224	1/1	0.82	0.34	52,52,52,52	0
56	MG	2A	3393	1/1	0.82	0.37	56,56,56,56	0
56	MG	2A	3396	1/1	0.82	0.18	66,66,66,66	0
56	MG	1A	3493	1/1	0.82	0.45	45,45,45,45	0
56	MG	1A	3973	1/1	0.82	0.26	61,61,61,61	0
56	MG	2a	1633	1/1	0.82	0.31	70,70,70,70	0
56	MG	2A	3288	1/1	0.82	0.55	57,57,57,57	0
56	MG	2a	1666	1/1	0.83	0.15	74,74,74,74	0
56	MG	1A	3725	1/1	0.83	0.18	33,33,33,33	0
56	MG	2A	3538	1/1	0.83	0.10	68,68,68,68	0
56	MG	1A	3644	1/1	0.83	0.14	59,59,59,59	0
56	MG	2A	3096	1/1	0.83	0.26	79,79,79,79	0
56	MG	2A	3547	1/1	0.83	0.21	64,64,64,64	0
56	MG	1a	1631	1/1	0.83	0.18	75,75,75,75	0
56	MG	1A	3820	1/1	0.83	0.25	58,58,58,58	0
56	MG	1A	3132	1/1	0.83	0.26	46,46,46,46	0
56	MG	1A	3830	1/1	0.83	0.17	66,66,66,66	0
56	MG	1D	304	1/1	0.83	0.26	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1695	1/1	0.83	0.19	58,58,58,58	0
56	MG	2A	3260	1/1	0.83	0.09	80,80,80,80	0
56	MG	1A	3322	1/1	0.83	0.56	59,59,59,59	0
56	MG	2A	3582	1/1	0.83	0.40	54,54,54,54	0
56	MG	2A	3141	1/1	0.83	0.18	63,63,63,63	0
56	MG	1E	309	1/1	0.83	0.43	63,63,63,63	0
56	MG	2a	1712	1/1	0.83	0.22	74,74,74,74	0
56	MG	2A	3595	1/1	0.83	0.18	75,75,75,75	0
56	MG	2A	3152	1/1	0.83	0.16	68,68,68,68	0
56	MG	1A	4063	1/1	0.83	0.16	60,60,60,60	0
56	MG	2a	1723	1/1	0.83	0.36	70,70,70,70	0
56	MG	2A	3162	1/1	0.83	0.22	68,68,68,68	0
56	MG	2D	306	1/1	0.83	0.57	59,59,59,59	0
56	MG	1A	3853	1/1	0.83	0.08	49,49,49,49	0
56	MG	2A	3278	1/1	0.83	0.19	75,75,75,75	0
56	MG	1A	3210	1/1	0.83	0.42	50,50,50,50	0
56	MG	1F	305	1/1	0.83	0.23	41,41,41,41	0
56	MG	2T	201	1/1	0.83	0.11	71,71,71,71	0
56	MG	1F	309	1/1	0.83	0.15	52,52,52,52	0
56	MG	2A	3624	1/1	0.83	0.16	61,61,61,61	0
56	MG	1A	3015	1/1	0.83	0.45	48,48,48,48	0
56	MG	1F	313	1/1	0.83	0.33	63,63,63,63	0
56	MG	2A	3196	1/1	0.83	0.41	63,63,63,63	0
56	MG	1N	201	1/1	0.83	0.24	64,64,64,64	0
56	MG	1A	3676	1/1	0.83	0.28	64,64,64,64	0
56	MG	2A	3406	1/1	0.83	0.17	71,71,71,71	0
56	MG	1a	1680	1/1	0.83	0.37	63,63,63,63	0
56	MG	2A	3661	1/1	0.83	0.19	52,52,52,52	0
56	MG	1A	3540	1/1	0.83	0.12	69,69,69,69	0
56	MG	2A	3202	1/1	0.83	0.17	62,62,62,62	0
56	MG	1A	3245	1/1	0.83	0.20	72,72,72,72	0
56	MG	1A	3759	1/1	0.83	0.20	38,38,38,38	0
56	MG	1A	3999	1/1	0.83	0.20	41,41,41,41	0
56	MG	1W	201	1/1	0.83	0.22	53,53,53,53	0
56	MG	1A	3056	1/1	0.83	0.24	54,54,54,54	0
56	MG	1A	3895	1/1	0.83	0.36	47,47,47,47	0
56	MG	2a	1814	1/1	0.83	0.15	81,81,81,81	0
56	MG	2a	1816	1/1	0.83	0.10	75,75,75,75	0
56	MG	1A	3404	1/1	0.83	0.47	54,54,54,54	0
56	MG	1A	3173	1/1	0.83	0.22	38,38,38,38	0
56	MG	1A	3909	1/1	0.83	0.13	66,66,66,66	0
56	MG	1a	1747	1/1	0.83	0.15	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3502	1/1	0.83	0.18	63,63,63,63	0
56	MG	1A	3339	1/1	0.83	0.26	70,70,70,70	0
56	MG	1A	3004	1/1	0.83	0.14	28,28,28,28	0
56	MG	2A	3318	1/1	0.83	0.09	85,85,85,85	0
56	MG	2A	3514	1/1	0.83	0.11	44,44,44,44	0
56	MG	1A	3802	1/1	0.83	0.21	62,62,62,62	0
56	MG	2y	101	1/1	0.83	0.12	85,85,85,85	0
56	MG	1A	3718	1/1	0.83	0.16	55,55,55,55	0
58	ZN	14	102	1/1	0.83	0.05	111,111,111,111	0
56	MG	2a	1659	1/1	0.83	0.14	70,70,70,70	0
56	MG	2A	3422	1/1	0.84	0.14	44,44,44,44	0
56	MG	1a	1730	1/1	0.84	0.18	70,70,70,70	0
56	MG	2a	1655	1/1	0.84	0.21	72,72,72,72	0
56	MG	1A	3950	1/1	0.84	0.21	57,57,57,57	0
56	MG	1A	4030	1/1	0.84	0.17	47,47,47,47	0
56	MG	1A	3446	1/1	0.84	0.29	71,71,71,71	0
56	MG	2A	3066	1/1	0.84	0.14	50,50,50,50	0
56	MG	2A	3301	1/1	0.84	0.22	62,62,62,62	0
56	MG	2A	3204	1/1	0.84	0.20	59,59,59,59	0
56	MG	2a	1675	1/1	0.84	0.12	70,70,70,70	0
56	MG	1A	3885	1/1	0.84	0.19	33,33,33,33	0
56	MG	2A	3206	1/1	0.84	0.15	67,67,67,67	0
56	MG	2a	1681	1/1	0.84	0.32	63,63,63,63	0
56	MG	2a	1685	1/1	0.84	0.21	79,79,79,79	0
56	MG	1a	1760	1/1	0.84	0.13	66,66,66,66	0
56	MG	2A	3306	1/1	0.84	0.40	69,69,69,69	0
56	MG	2A	3075	1/1	0.84	0.20	60,60,60,60	0
56	MG	1a	1765	1/1	0.84	0.20	73,73,73,73	0
56	MG	2A	3779	1/1	0.84	0.27	69,69,69,69	0
56	MG	2A	3782	1/1	0.84	0.11	69,69,69,69	0
56	MG	2a	1696	1/1	0.84	0.14	69,69,69,69	0
56	MG	1A	3807	1/1	0.84	0.16	76,76,76,76	0
56	MG	2A	3222	1/1	0.84	0.47	67,67,67,67	0
56	MG	2A	3224	1/1	0.84	0.31	73,73,73,73	0
56	MG	2A	3516	1/1	0.84	0.18	55,55,55,55	0
56	MG	1A	3539	1/1	0.84	0.18	66,66,66,66	0
56	MG	2a	1711	1/1	0.84	0.21	74,74,74,74	0
56	MG	1A	4050	1/1	0.84	0.10	37,37,37,37	0
56	MG	1A	3152	1/1	0.84	0.30	45,45,45,45	0
56	MG	2A	3801	1/1	0.84	0.18	74,74,74,74	0
56	MG	1A	3824	1/1	0.84	0.23	60,60,60,60	0
56	MG	1a	1654	1/1	0.84	0.17	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3326	1/1	0.84	0.12	80,80,80,80	0
56	MG	2A	3327	1/1	0.84	0.30	54,54,54,54	0
56	MG	2a	1733	1/1	0.84	0.23	79,79,79,79	0
56	MG	1A	3704	1/1	0.84	0.13	61,61,61,61	0
56	MG	2B	207	1/1	0.84	0.12	72,72,72,72	0
56	MG	2A	3331	1/1	0.84	0.20	67,67,67,67	0
56	MG	1A	3982	1/1	0.84	0.30	69,69,69,69	0
56	MG	1A	3213	1/1	0.84	0.16	44,44,44,44	0
56	MG	2A	3099	1/1	0.84	0.15	68,68,68,68	0
56	MG	2A	3104	1/1	0.84	0.23	75,75,75,75	0
56	MG	2A	3339	1/1	0.84	0.16	72,72,72,72	0
56	MG	2A	3340	1/1	0.84	0.20	72,72,72,72	0
56	MG	1x	103	1/1	0.84	0.20	65,65,65,65	0
56	MG	1A	3046	1/1	0.84	0.17	38,38,38,38	0
56	MG	12	102	1/1	0.84	0.19	48,48,48,48	0
56	MG	1x	110	1/1	0.84	0.08	60,60,60,60	0
56	MG	2A	3346	1/1	0.84	0.44	59,59,59,59	0
56	MG	27	101	1/1	0.84	0.54	51,51,51,51	0
56	MG	2A	3256	1/1	0.84	0.22	69,69,69,69	0
56	MG	1A	3916	1/1	0.84	0.17	31,31,31,31	0
56	MG	1a	1669	1/1	0.84	0.19	47,47,47,47	0
56	MG	2A	3146	1/1	0.84	0.22	64,64,64,64	0
56	MG	1A	3470	1/1	0.84	0.23	69,69,69,69	0
56	MG	1A	3496	1/1	0.84	0.11	81,81,81,81	0
56	MG	2A	3153	1/1	0.84	0.24	62,62,62,62	0
56	MG	19	101	1/1	0.84	0.23	51,51,51,51	0
56	MG	2A	3160	1/1	0.84	0.20	48,48,48,48	0
56	MG	2A	3270	1/1	0.84	0.68	72,72,72,72	0
56	MG	2A	3272	1/1	0.84	0.14	62,62,62,62	0
56	MG	2a	1830	1/1	0.84	0.15	77,77,77,77	0
56	MG	1a	1601	1/1	0.84	0.23	53,53,53,53	0
56	MG	2A	3649	1/1	0.84	0.14	43,43,43,43	0
56	MG	1a	1690	1/1	0.84	0.28	57,57,57,57	0
56	MG	1A	3596	1/1	0.84	0.59	42,42,42,42	0
56	MG	2q	201	1/1	0.84	0.32	74,74,74,74	0
56	MG	1A	3464	1/1	0.84	0.19	61,61,61,61	0
56	MG	1a	1610	1/1	0.84	0.15	67,67,67,67	0
56	MG	2A	3401	1/1	0.84	0.17	66,66,66,66	0
56	MG	1A	3006	1/1	0.84	0.26	74,74,74,74	0
56	MG	1A	4086	1/1	0.84	0.44	54,54,54,54	0
56	MG	2A	3411	1/1	0.84	0.21	57,57,57,57	0
56	MG	1A	3691	1/1	0.84	0.18	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3417	1/1	0.84	0.16	48,48,48,48	0
56	MG	1a	1725	1/1	0.84	0.09	82,82,82,82	0
56	MG	2A	3542	1/1	0.85	0.20	84,84,84,84	0
56	MG	1A	3337	1/1	0.85	0.40	43,43,43,43	0
56	MG	1A	3499	1/1	0.85	0.19	45,45,45,45	0
56	MG	1B	204	1/1	0.85	0.28	67,67,67,67	0
56	MG	1A	4017	1/1	0.85	0.14	48,48,48,48	0
56	MG	1B	212	1/1	0.85	0.37	68,68,68,68	0
56	MG	2A	3367	1/1	0.85	0.22	57,57,57,57	0
56	MG	1A	3169	1/1	0.85	0.22	64,64,64,64	0
56	MG	1A	3129	1/1	0.85	0.27	57,57,57,57	0
56	MG	1A	4029	1/1	0.85	0.15	55,55,55,55	0
56	MG	1A	3797	1/1	0.85	0.18	23,23,23,23	0
56	MG	2A	3585	1/1	0.85	0.08	55,55,55,55	0
56	MG	2A	3082	1/1	0.85	0.35	65,65,65,65	0
56	MG	2A	3207	1/1	0.85	0.17	64,64,64,64	0
56	MG	2A	3384	1/1	0.85	0.17	57,57,57,57	0
56	MG	1A	4031	1/1	0.85	0.16	51,51,51,51	0
56	MG	1A	3091	1/1	0.85	0.15	62,62,62,62	0
56	MG	1A	3120	1/1	0.85	0.29	42,42,42,42	0
56	MG	1A	3370	1/1	0.85	0.14	59,59,59,59	0
56	MG	1A	3590	1/1	0.85	0.21	32,32,32,32	0
56	MG	2A	3091	1/1	0.85	0.13	67,67,67,67	0
56	MG	1A	3705	1/1	0.85	0.23	58,58,58,58	0
56	MG	1A	3707	1/1	0.85	0.09	69,69,69,69	0
56	MG	2Q	203	1/1	0.85	0.34	66,66,66,66	0
56	MG	1A	3353	1/1	0.85	0.17	66,66,66,66	0
56	MG	2A	3626	1/1	0.85	0.20	55,55,55,55	0
56	MG	2A	3629	1/1	0.85	0.10	77,77,77,77	0
56	MG	25	103	1/1	0.85	0.54	62,62,62,62	0
56	MG	2A	3415	1/1	0.85	0.15	59,59,59,59	0
56	MG	2A	3634	1/1	0.85	0.32	55,55,55,55	0
56	MG	2A	3635	1/1	0.85	0.14	74,74,74,74	0
56	MG	2A	3233	1/1	0.85	0.18	54,54,54,54	0
56	MG	1a	1793	1/1	0.85	0.18	83,83,83,83	0
56	MG	1A	3474	1/1	0.85	0.51	50,50,50,50	0
56	MG	1w	105	1/1	0.85	0.18	67,67,67,67	0
56	MG	1A	3440	1/1	0.85	0.31	48,48,48,48	0
56	MG	2a	1766	1/1	0.85	0.13	83,83,83,83	0
56	MG	1A	3306	1/1	0.85	0.32	63,63,63,63	0
56	MG	2A	3431	1/1	0.85	0.16	57,57,57,57	0
56	MG	1A	3610	1/1	0.85	0.15	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	3855	1/1	0.85	0.17	56,56,56,56	0
56	MG	1A	3123	1/1	0.85	0.24	56,56,56,56	0
56	MG	1A	3538	1/1	0.85	0.15	53,53,53,53	0
56	MG	2A	3250	1/1	0.85	0.35	61,61,61,61	0
56	MG	2a	1797	1/1	0.85	0.10	83,83,83,83	0
56	MG	1P	205	1/1	0.85	0.30	48,48,48,48	0
56	MG	2A	3700	1/1	0.85	0.12	68,68,68,68	0
56	MG	1R	205	1/1	0.85	0.27	58,58,58,58	0
56	MG	2A	3484	1/1	0.85	0.16	42,42,42,42	0
56	MG	2a	1810	1/1	0.85	0.18	69,69,69,69	0
56	MG	1A	3482	1/1	0.85	0.24	60,60,60,60	0
56	MG	1A	3450	1/1	0.85	0.43	50,50,50,50	0
56	MG	1A	3005	1/1	0.85	0.23	50,50,50,50	0
56	MG	1A	4084	1/1	0.85	0.17	32,32,32,32	0
56	MG	2a	1822	1/1	0.85	0.25	77,77,77,77	0
56	MG	2a	1827	1/1	0.85	0.17	81,81,81,81	0
56	MG	2a	1828	1/1	0.85	0.14	79,79,79,79	0
56	MG	2a	1641	1/1	0.85	0.23	73,73,73,73	0
56	MG	1A	3359	1/1	0.85	0.17	56,56,56,56	0
56	MG	1a	1688	1/1	0.85	0.18	68,68,68,68	0
56	MG	1A	3459	1/1	0.85	0.35	50,50,50,50	0
56	MG	2a	1651	1/1	0.85	0.25	74,74,74,74	0
56	MG	2A	3517	1/1	0.85	0.22	51,51,51,51	0
56	MG	2A	3342	1/1	0.85	0.13	79,79,79,79	0
56	MG	2A	3526	1/1	0.85	0.16	64,64,64,64	0
56	MG	1A	4003	1/1	0.85	0.15	50,50,50,50	0
56	MG	2A	3185	1/1	0.85	0.15	74,74,74,74	0
56	MG	1A	3889	1/1	0.85	0.43	49,49,49,49	0
56	MG	1A	3360	1/1	0.85	0.22	62,62,62,62	0
56	MG	1A	3663	1/1	0.85	0.19	37,37,37,37	0
56	MG	2a	1672	1/1	0.85	0.11	71,71,71,71	0
56	MG	2A	3541	1/1	0.85	0.18	41,41,41,41	0
56	MG	2A	3212	1/1	0.86	0.49	58,58,58,58	0
56	MG	1A	3168	1/1	0.86	0.43	39,39,39,39	0
56	MG	2A	3039	1/1	0.86	0.27	77,77,77,77	0
56	MG	2A	3617	1/1	0.86	0.17	82,82,82,82	0
56	MG	2a	1624	1/1	0.86	0.52	84,84,84,84	0
56	MG	1B	218	1/1	0.86	0.13	52,52,52,52	0
56	MG	1A	3836	1/1	0.86	0.05	70,70,70,70	0
56	MG	1A	3397	1/1	0.86	0.20	47,47,47,47	0
56	MG	2A	3361	1/1	0.86	0.28	52,52,52,52	0
56	MG	2A	3230	1/1	0.86	0.20	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3312	1/1	0.86	0.21	64,64,64,64	0
56	MG	1A	3447	1/1	0.86	0.29	51,51,51,51	0
56	MG	1A	3580	1/1	0.86	0.44	62,62,62,62	0
56	MG	2A	3053	1/1	0.86	0.14	68,68,68,68	0
56	MG	2A	3054	1/1	0.86	0.21	58,58,58,58	0
56	MG	1a	1663	1/1	0.86	0.12	76,76,76,76	0
56	MG	2a	1649	1/1	0.86	0.14	77,77,77,77	0
56	MG	1A	3713	1/1	0.86	0.27	52,52,52,52	0
56	MG	1A	3581	1/1	0.86	0.21	72,72,72,72	0
56	MG	2A	3378	1/1	0.86	0.31	70,70,70,70	0
56	MG	1A	3869	1/1	0.86	0.21	52,52,52,52	0
56	MG	1A	3583	1/1	0.86	0.24	54,54,54,54	0
56	MG	1a	1675	1/1	0.86	0.31	63,63,63,63	0
56	MG	1A	3875	1/1	0.86	0.22	35,35,35,35	0
56	MG	1A	3348	1/1	0.86	0.47	66,66,66,66	0
56	MG	2A	3667	1/1	0.86	0.23	71,71,71,71	0
56	MG	1A	3270	1/1	0.86	0.27	50,50,50,50	0
56	MG	1a	1683	1/1	0.86	0.16	64,64,64,64	0
56	MG	2A	3400	1/1	0.86	0.15	67,67,67,67	0
56	MG	2A	3691	1/1	0.86	0.15	63,63,63,63	0
56	MG	1A	3452	1/1	0.86	0.11	58,58,58,58	0
56	MG	1A	3888	1/1	0.86	0.14	44,44,44,44	0
56	MG	1A	3315	1/1	0.86	0.25	75,75,75,75	0
56	MG	1A	3372	1/1	0.86	0.72	54,54,54,54	0
56	MG	1A	3406	1/1	0.86	0.12	72,72,72,72	0
56	MG	2A	3414	1/1	0.86	0.18	41,41,41,41	0
56	MG	1A	3747	1/1	0.86	0.26	52,52,52,52	0
56	MG	2A	3725	1/1	0.86	0.09	57,57,57,57	0
56	MG	1O	204	1/1	0.86	0.19	58,58,58,58	0
56	MG	1A	4051	1/1	0.86	0.30	69,69,69,69	0
56	MG	2A	3732	1/1	0.86	0.20	72,72,72,72	0
56	MG	2A	3094	1/1	0.86	0.14	55,55,55,55	0
56	MG	2A	3735	1/1	0.86	0.22	62,62,62,62	0
56	MG	2A	3738	1/1	0.86	0.12	63,63,63,63	0
56	MG	2a	1705	1/1	0.86	0.12	62,62,62,62	0
56	MG	1A	3409	1/1	0.86	0.28	46,46,46,46	0
56	MG	1A	3029	1/1	0.86	0.24	41,41,41,41	0
56	MG	2A	3746	1/1	0.86	0.22	63,63,63,63	0
56	MG	2a	1714	1/1	0.86	0.22	68,68,68,68	0
56	MG	1A	3287	1/1	0.86	0.19	69,69,69,69	0
56	MG	1A	3172	1/1	0.86	0.21	45,45,45,45	0
56	MG	1a	1736	1/1	0.86	0.15	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3377	1/1	0.86	0.29	54,54,54,54	0
56	MG	1A	3643	1/1	0.86	0.15	33,33,33,33	0
56	MG	2a	1730	1/1	0.86	0.12	70,70,70,70	0
56	MG	2A	3445	1/1	0.86	0.24	59,59,59,59	0
56	MG	2A	3129	1/1	0.86	0.14	57,57,57,57	0
56	MG	2A	3464	1/1	0.86	0.27	75,75,75,75	0
56	MG	2A	3788	1/1	0.86	0.13	62,62,62,62	0
56	MG	1a	1748	1/1	0.86	0.26	69,69,69,69	0
56	MG	1A	3923	1/1	0.86	0.12	65,65,65,65	0
56	MG	1a	1753	1/1	0.86	0.28	62,62,62,62	0
56	MG	2A	3136	1/1	0.86	0.21	50,50,50,50	0
56	MG	1A	3533	1/1	0.86	0.28	49,49,49,49	0
56	MG	1A	3001	1/1	0.86	0.18	46,46,46,46	0
56	MG	10	109	1/1	0.86	0.16	58,58,58,58	0
56	MG	11	102	1/1	0.86	0.20	49,49,49,49	0
56	MG	1A	3792	1/1	0.86	0.20	46,46,46,46	0
56	MG	2A	3807	1/1	0.86	0.40	72,72,72,72	0
56	MG	2A	3155	1/1	0.86	0.38	74,74,74,74	0
56	MG	1A	4078	1/1	0.86	0.33	59,59,59,59	0
56	MG	16	101	1/1	0.86	0.26	53,53,53,53	0
56	MG	1A	3536	1/1	0.86	0.27	51,51,51,51	0
56	MG	2A	3165	1/1	0.86	0.17	71,71,71,71	0
56	MG	1a	1786	1/1	0.86	0.32	64,64,64,64	0
56	MG	2a	1792	1/1	0.86	0.35	71,71,71,71	0
56	MG	1A	3947	1/1	0.86	0.18	54,54,54,54	0
56	MG	1A	3151	1/1	0.86	0.39	40,40,40,40	0
56	MG	1A	3254	1/1	0.86	0.18	72,72,72,72	0
56	MG	1e	3100	1/1	0.86	0.15	76,76,76,76	0
56	MG	2A	3189	1/1	0.86	0.22	60,60,60,60	0
56	MG	1A	4087	1/1	0.86	0.27	68,68,68,68	0
56	MG	1A	3951	1/1	0.86	0.11	28,28,28,28	0
56	MG	1A	3476	1/1	0.86	0.90	58,58,58,58	0
56	MG	2A	3550	1/1	0.86	0.20	66,66,66,66	0
56	MG	1x	107	1/1	0.86	0.18	71,71,71,71	0
56	MG	2A	3557	1/1	0.86	0.15	47,47,47,47	0
56	MG	1A	3334	1/1	0.86	0.18	53,53,53,53	0
56	MG	25	101	1/1	0.86	0.17	68,68,68,68	0
56	MG	2a	1829	1/1	0.86	0.26	64,64,64,64	0
56	MG	2A	3567	1/1	0.86	0.17	61,61,61,61	0
56	MG	1A	3806	1/1	0.86	0.08	61,61,61,61	0
56	MG	1A	3543	1/1	0.86	0.37	45,45,45,45	0
56	MG	1A	3430	1/1	0.86	0.17	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1604	1/1	0.86	0.10	82,82,82,82	0
56	MG	2A	3008	1/1	0.86	0.15	52,52,52,52	0
56	MG	1A	3434	1/1	0.86	0.22	76,76,76,76	0
56	MG	1A	3082	1/1	0.86	0.43	52,52,52,52	0
56	MG	1A	3825	1/1	0.86	0.21	67,67,67,67	0
56	MG	2A	3021	1/1	0.86	0.20	67,67,67,67	0
56	MG	2A	3209	1/1	0.86	0.84	48,48,48,48	0
56	MG	2x	102	1/1	0.86	0.14	72,72,72,72	0
56	MG	2x	104	1/1	0.86	0.22	78,78,78,78	0
56	MG	2A	3600	1/1	0.86	0.15	81,81,81,81	0
56	MG	1B	209	1/1	0.86	0.21	55,55,55,55	0
56	MG	1A	3394	1/1	0.86	0.12	35,35,35,35	0
56	MG	2a	1619	1/1	0.86	0.12	79,79,79,79	0
56	MG	2a	1629	1/1	0.87	0.68	93,93,93,93	0
56	MG	1A	3700	1/1	0.87	0.21	31,31,31,31	0
56	MG	2A	3655	1/1	0.87	0.10	57,57,57,57	0
56	MG	2A	3657	1/1	0.87	0.14	65,65,65,65	0
56	MG	2A	3139	1/1	0.87	0.26	78,78,78,78	0
56	MG	1r	101	1/1	0.87	0.30	69,69,69,69	0
56	MG	2A	3268	1/1	0.87	0.16	68,68,68,68	0
56	MG	1A	3205	1/1	0.87	0.12	65,65,65,65	0
56	MG	1a	1639	1/1	0.87	0.15	68,68,68,68	0
56	MG	2A	3668	1/1	0.87	0.15	67,67,67,67	0
56	MG	2A	3671	1/1	0.87	0.12	72,72,72,72	0
56	MG	2A	3412	1/1	0.87	0.18	70,70,70,70	0
56	MG	1A	3282	1/1	0.87	0.27	49,49,49,49	0
56	MG	2A	3274	1/1	0.87	0.15	69,69,69,69	0
56	MG	2A	3276	1/1	0.87	0.85	58,58,58,58	0
56	MG	2a	1658	1/1	0.87	0.15	49,49,49,49	0
56	MG	1A	3605	1/1	0.87	0.21	59,59,59,59	0
56	MG	1A	3473	1/1	0.87	0.33	52,52,52,52	0
56	MG	2A	3421	1/1	0.87	0.19	64,64,64,64	0
56	MG	1A	3924	1/1	0.87	0.17	38,38,38,38	0
56	MG	2A	3280	1/1	0.87	0.75	62,62,62,62	0
56	MG	1A	3930	1/1	0.87	0.15	64,64,64,64	0
56	MG	2A	3716	1/1	0.87	0.23	74,74,74,74	0
56	MG	2A	3284	1/1	0.87	0.17	60,60,60,60	0
56	MG	2A	3001	1/1	0.87	0.23	54,54,54,54	0
56	MG	2a	1678	1/1	0.87	0.18	63,63,63,63	0
56	MG	1A	3630	1/1	0.87	0.22	32,32,32,32	0
56	MG	2A	3169	1/1	0.87	0.62	66,66,66,66	0
56	MG	1A	3710	1/1	0.87	0.16	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3292	1/1	0.87	0.42	63,63,63,63	0
56	MG	2A	3182	1/1	0.87	0.13	67,67,67,67	0
56	MG	2A	3736	1/1	0.87	0.10	47,47,47,47	0
56	MG	2A	3456	1/1	0.87	0.20	38,38,38,38	0
56	MG	1A	4060	1/1	0.87	0.13	62,62,62,62	0
56	MG	1F	310	1/1	0.87	0.27	55,55,55,55	0
56	MG	1A	3637	1/1	0.87	0.19	57,57,57,57	0
56	MG	2A	3747	1/1	0.87	0.13	46,46,46,46	0
56	MG	2A	3754	1/1	0.87	0.11	60,60,60,60	0
56	MG	1A	3943	1/1	0.87	0.14	55,55,55,55	0
56	MG	2A	3300	1/1	0.87	0.48	76,76,76,76	0
56	MG	2A	3766	1/1	0.87	0.09	67,67,67,67	0
56	MG	1A	3503	1/1	0.87	0.16	57,57,57,57	0
56	MG	2A	3030	1/1	0.87	0.10	44,44,44,44	0
56	MG	1N	203	1/1	0.87	0.23	51,51,51,51	0
56	MG	1A	3233	1/1	0.87	0.24	56,56,56,56	0
56	MG	1a	1677	1/1	0.87	0.23	63,63,63,63	0
56	MG	1A	3475	1/1	0.87	0.49	41,41,41,41	0
56	MG	1A	3218	1/1	0.87	0.31	42,42,42,42	0
56	MG	2A	3308	1/1	0.87	0.17	54,54,54,54	0
56	MG	1Q	204	1/1	0.87	0.16	72,72,72,72	0
56	MG	1Q	205	1/1	0.87	0.16	60,60,60,60	0
56	MG	2a	1732	1/1	0.87	0.35	67,67,67,67	0
56	MG	1R	204	1/1	0.87	0.41	45,45,45,45	0
56	MG	1A	3838	1/1	0.87	0.10	64,64,64,64	0
56	MG	1A	3521	1/1	0.87	0.31	38,38,38,38	0
56	MG	1A	3731	1/1	0.87	0.18	58,58,58,58	0
56	MG	1U	207	1/1	0.87	0.51	39,39,39,39	0
56	MG	2A	3208	1/1	0.87	0.23	66,66,66,66	0
56	MG	1A	3648	1/1	0.87	0.22	46,46,46,46	0
56	MG	2A	3544	1/1	0.87	0.25	64,64,64,64	0
56	MG	2A	3546	1/1	0.87	0.25	74,74,74,74	0
56	MG	1a	1702	1/1	0.87	0.35	66,66,66,66	0
56	MG	1A	3260	1/1	0.87	0.14	74,74,74,74	0
56	MG	1a	1704	1/1	0.87	0.09	71,71,71,71	0
56	MG	1A	3857	1/1	0.87	0.11	63,63,63,63	0
56	MG	2A	3216	1/1	0.87	0.31	47,47,47,47	0
56	MG	2a	1768	1/1	0.87	0.16	78,78,78,78	0
56	MG	1A	4085	1/1	0.87	0.49	40,40,40,40	0
56	MG	1A	3738	1/1	0.87	0.16	50,50,50,50	0
56	MG	2A	3223	1/1	0.87	0.32	61,61,61,61	0
56	MG	2E	301	1/1	0.87	0.13	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3072	1/1	0.87	0.12	48,48,48,48	0
56	MG	1A	3026	1/1	0.87	0.16	68,68,68,68	0
56	MG	10	106	1/1	0.87	0.12	52,52,52,52	0
56	MG	1A	3865	1/1	0.87	0.27	39,39,39,39	0
56	MG	1A	3983	1/1	0.87	0.12	66,66,66,66	0
56	MG	1A	3655	1/1	0.87	0.19	29,29,29,29	0
56	MG	2a	1805	1/1	0.87	0.07	84,84,84,84	0
56	MG	20	101	1/1	0.87	0.14	72,72,72,72	0
56	MG	2A	3235	1/1	0.87	0.31	64,64,64,64	0
56	MG	1A	3294	1/1	0.87	0.10	55,55,55,55	0
56	MG	2A	3596	1/1	0.87	0.15	70,70,70,70	0
56	MG	2A	3347	1/1	0.87	0.16	57,57,57,57	0
56	MG	1A	3148	1/1	0.87	0.53	39,39,39,39	0
56	MG	2A	3606	1/1	0.87	0.30	52,52,52,52	0
56	MG	1a	1751	1/1	0.87	0.15	67,67,67,67	0
56	MG	2a	1825	1/1	0.87	0.32	63,63,63,63	0
56	MG	28	102	1/1	0.87	0.18	59,59,59,59	0
56	MG	2a	1601	1/1	0.87	0.32	61,61,61,61	0
56	MG	1A	3660	1/1	0.87	0.21	27,27,27,27	0
56	MG	1A	3485	1/1	0.87	0.35	51,51,51,51	0
56	MG	1A	3669	1/1	0.87	0.21	31,31,31,31	0
56	MG	1A	3179	1/1	0.87	0.38	35,35,35,35	0
56	MG	2A	3246	1/1	0.87	0.46	76,76,76,76	0
56	MG	1A	3382	1/1	0.87	0.33	73,73,73,73	0
56	MG	1A	3784	1/1	0.87	0.17	85,85,85,85	0
56	MG	2r	101	1/1	0.87	0.11	82,82,82,82	0
56	MG	2A	3249	1/1	0.87	0.30	67,67,67,67	0
56	MG	1a	1772	1/1	0.87	0.17	64,64,64,64	0
56	MG	1A	3250	1/1	0.87	0.19	68,68,68,68	0
56	MG	1A	3537	1/1	0.87	0.39	61,61,61,61	0
56	MG	1A	4022	1/1	0.87	0.26	59,59,59,59	0
56	MG	2A	3125	1/1	0.87	0.14	68,68,68,68	0
56	MG	2x	103	1/1	0.87	0.16	72,72,72,72	0
56	MG	1A	3906	1/1	0.87	0.20	26,26,26,26	0
56	MG	1A	3253	1/1	0.87	0.18	62,62,62,62	0
56	MG	1B	229	1/1	0.87	0.16	87,87,87,87	0
56	MG	2A	3395	1/1	0.87	0.56	45,45,45,45	0
56	MG	1A	3170	1/1	0.87	0.47	54,54,54,54	0
56	MG	1A	3661	1/1	0.88	0.15	30,30,30,30	0
56	MG	10	102	1/1	0.88	0.32	59,59,59,59	0
56	MG	1A	4096	1/1	0.88	0.16	54,54,54,54	0
56	MG	2A	3381	1/1	0.88	0.18	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	2a	1625	1/1	0.88	0.11	74,74,74,74	0
56	MG	1A	3357	1/1	0.88	0.24	66,66,66,66	0
56	MG	1A	3764	1/1	0.88	0.17	34,34,34,34	0
56	MG	1A	3234	1/1	0.88	0.21	56,56,56,56	0
56	MG	1a	1745	1/1	0.88	0.13	59,59,59,59	0
56	MG	2A	3653	1/1	0.88	0.17	62,62,62,62	0
56	MG	2A	3394	1/1	0.88	0.15	66,66,66,66	0
56	MG	13	103	1/1	0.88	0.21	58,58,58,58	0
56	MG	2a	1637	1/1	0.88	0.38	61,61,61,61	0
56	MG	1A	3673	1/1	0.88	0.19	57,57,57,57	0
56	MG	15	108	1/1	0.88	0.07	62,62,62,62	0
56	MG	1A	4014	1/1	0.88	0.14	83,83,83,83	0
56	MG	2a	1643	1/1	0.88	0.21	68,68,68,68	0
56	MG	2a	1645	1/1	0.88	0.23	72,72,72,72	0
56	MG	1A	3309	1/1	0.88	0.29	58,58,58,58	0
56	MG	2A	3402	1/1	0.88	0.10	72,72,72,72	0
56	MG	1A	3311	1/1	0.88	0.38	65,65,65,65	0
56	MG	1A	3907	1/1	0.88	0.29	39,39,39,39	0
56	MG	2a	1653	1/1	0.88	0.21	77,77,77,77	0
56	MG	2A	3407	1/1	0.88	0.74	61,61,61,61	0
56	MG	2A	3675	1/1	0.88	0.16	64,64,64,64	0
56	MG	2A	3682	1/1	0.88	0.20	40,40,40,40	0
56	MG	1A	3445	1/1	0.88	0.66	69,69,69,69	0
56	MG	2A	3113	1/1	0.88	0.13	42,42,42,42	0
56	MG	2A	3690	1/1	0.88	0.21	64,64,64,64	0
56	MG	2A	3114	1/1	0.88	0.26	44,44,44,44	0
56	MG	2A	3692	1/1	0.88	0.34	75,75,75,75	0
56	MG	2a	1670	1/1	0.88	0.13	76,76,76,76	0
56	MG	2A	3117	1/1	0.88	0.25	65,65,65,65	0
56	MG	1A	3588	1/1	0.88	0.21	33,33,33,33	0
56	MG	2a	1674	1/1	0.88	0.16	60,60,60,60	0
56	MG	2A	3271	1/1	0.88	0.22	64,64,64,64	0
56	MG	2A	3704	1/1	0.88	0.25	66,66,66,66	0
56	MG	1A	3795	1/1	0.88	0.14	44,44,44,44	0
56	MG	1A	3165	1/1	0.88	0.29	40,40,40,40	0
56	MG	1A	4037	1/1	0.88	0.12	50,50,50,50	0
56	MG	2A	3275	1/1	0.88	0.89	58,58,58,58	0
56	MG	2A	3721	1/1	0.88	0.22	80,80,80,80	0
56	MG	1B	231	1/1	0.88	0.20	58,58,58,58	0
56	MG	1a	1779	1/1	0.88	0.07	81,81,81,81	0
56	MG	2A	3430	1/1	0.88	0.16	67,67,67,67	0
56	MG	1a	1619	1/1	0.88	0.39	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3387	1/1	0.88	0.07	57,57,57,57	0
56	MG	1a	1622	1/1	0.88	0.08	75,75,75,75	0
56	MG	2A	3434	1/1	0.88	0.11	69,69,69,69	0
56	MG	1a	1789	1/1	0.88	0.12	82,82,82,82	0
56	MG	1A	3448	1/1	0.88	0.12	70,70,70,70	0
56	MG	2A	3150	1/1	0.88	0.20	40,40,40,40	0
56	MG	1B	235	1/1	0.88	0.13	73,73,73,73	0
56	MG	1B	236	1/1	0.88	0.18	40,40,40,40	0
56	MG	1A	3344	1/1	0.88	0.30	55,55,55,55	0
56	MG	1w	101	1/1	0.88	0.12	48,48,48,48	0
56	MG	1A	3483	1/1	0.88	0.16	60,60,60,60	0
56	MG	1D	311	1/1	0.88	0.42	42,42,42,42	0
56	MG	2a	1715	1/1	0.88	0.33	69,69,69,69	0
56	MG	2a	1716	1/1	0.88	0.35	72,72,72,72	0
56	MG	2A	3490	1/1	0.88	0.18	39,39,39,39	0
56	MG	2a	1721	1/1	0.88	0.13	84,84,84,84	0
56	MG	2A	3164	1/1	0.88	0.14	79,79,79,79	0
56	MG	1A	4049	1/1	0.88	0.10	56,56,56,56	0
56	MG	2a	1725	1/1	0.88	0.26	60,60,60,60	0
56	MG	2a	1727	1/1	0.88	0.39	85,85,85,85	0
56	MG	2A	3166	1/1	0.88	0.21	78,78,78,78	0
56	MG	1x	105	1/1	0.88	0.18	51,51,51,51	0
56	MG	2A	3775	1/1	0.88	0.09	48,48,48,48	0
56	MG	1x	106	1/1	0.88	0.16	64,64,64,64	0
56	MG	1A	3255	1/1	0.88	0.27	37,37,37,37	0
56	MG	1A	3606	1/1	0.88	0.14	37,37,37,37	0
56	MG	1A	3609	1/1	0.88	0.15	55,55,55,55	0
56	MG	2a	1740	1/1	0.88	0.31	72,72,72,72	0
56	MG	1A	3089	1/1	0.88	0.27	51,51,51,51	0
56	MG	2A	3794	1/1	0.88	0.11	58,58,58,58	0
56	MG	1x	112	1/1	0.88	0.18	76,76,76,76	0
56	MG	2A	3528	1/1	0.88	0.17	59,59,59,59	0
56	MG	1A	3453	1/1	0.88	0.23	49,49,49,49	0
56	MG	1A	3130	1/1	0.88	0.26	44,44,44,44	0
56	MG	1A	3219	1/1	0.88	0.34	54,54,54,54	0
56	MG	1A	3719	1/1	0.88	0.13	54,54,54,54	0
56	MG	1A	3721	1/1	0.88	0.27	62,62,62,62	0
56	MG	1a	1665	1/1	0.88	0.17	71,71,71,71	0
56	MG	1A	3155	1/1	0.88	0.20	41,41,41,41	0
56	MG	1A	3550	1/1	0.88	0.29	40,40,40,40	0
56	MG	2A	3028	1/1	0.88	0.11	56,56,56,56	0
56	MG	1a	1668	1/1	0.88	0.20	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3551	1/1	0.88	0.29	41,41,41,41	0
56	MG	2A	3549	1/1	0.88	0.23	58,58,58,58	0
56	MG	2B	210	1/1	0.88	0.35	68,68,68,68	0
56	MG	2a	1786	1/1	0.88	0.12	77,77,77,77	0
56	MG	2A	3033	1/1	0.88	0.15	47,47,47,47	0
56	MG	1O	205	1/1	0.88	0.17	73,73,73,73	0
56	MG	1A	3273	1/1	0.88	0.22	46,46,46,46	0
56	MG	1A	4076	1/1	0.88	0.23	76,76,76,76	0
56	MG	2A	3561	1/1	0.88	0.13	68,68,68,68	0
56	MG	1A	3733	1/1	0.88	0.17	46,46,46,46	0
56	MG	1A	3427	1/1	0.88	0.27	55,55,55,55	0
56	MG	1A	3861	1/1	0.88	0.27	49,49,49,49	0
56	MG	2F	302	1/1	0.88	0.17	76,76,76,76	0
56	MG	1A	3373	1/1	0.88	0.31	53,53,53,53	0
56	MG	2P	201	1/1	0.88	0.12	61,61,61,61	0
56	MG	1A	3432	1/1	0.88	0.22	57,57,57,57	0
56	MG	2a	1817	1/1	0.88	0.17	78,78,78,78	0
56	MG	1a	1689	1/1	0.88	0.25	63,63,63,63	0
56	MG	2T	202	1/1	0.88	0.26	72,72,72,72	0
56	MG	1U	204	1/1	0.88	0.31	40,40,40,40	0
56	MG	2A	3055	1/1	0.88	0.13	56,56,56,56	0
56	MG	1A	3433	1/1	0.88	0.18	64,64,64,64	0
56	MG	1A	3984	1/1	0.88	0.29	49,49,49,49	0
56	MG	1A	3281	1/1	0.88	0.39	41,41,41,41	0
56	MG	2A	3597	1/1	0.88	0.09	61,61,61,61	0
56	MG	2A	3226	1/1	0.88	0.33	69,69,69,69	0
56	MG	1A	3513	1/1	0.88	0.17	66,66,66,66	0
56	MG	1A	3658	1/1	0.88	0.17	43,43,43,43	0
56	MG	2A	3358	1/1	0.88	0.38	63,63,63,63	0
56	MG	1X	106	1/1	0.88	0.19	37,37,37,37	0
56	MG	2A	3610	1/1	0.88	0.51	69,69,69,69	0
56	MG	1a	1705	1/1	0.88	0.25	70,70,70,70	0
56	MG	2a	1607	1/1	0.88	0.18	79,79,79,79	0
56	MG	2A	3234	1/1	0.88	0.26	59,59,59,59	0
56	MG	1a	1707	1/1	0.88	0.18	70,70,70,70	0
56	MG	2A	3364	1/1	0.88	0.19	63,63,63,63	0
56	MG	2A	3071	1/1	0.88	0.66	46,46,46,46	0
56	MG	1a	1708	1/1	0.88	0.20	56,56,56,56	0
56	MG	2A	3074	1/1	0.88	0.13	62,62,62,62	0
56	MG	1a	1717	1/1	0.88	0.11	66,66,66,66	0
56	MG	2A	3076	1/1	0.88	0.84	62,62,62,62	0
56	MG	1A	3514	1/1	0.88	0.18	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3689	1/1	0.89	0.12	71,71,71,71	0
56	MG	2A	3187	1/1	0.89	0.13	64,64,64,64	0
56	MG	1A	3793	1/1	0.89	0.08	47,47,47,47	0
56	MG	1A	3545	1/1	0.89	0.20	60,60,60,60	0
56	MG	1a	1727	1/1	0.89	0.18	66,66,66,66	0
56	MG	2a	1646	1/1	0.89	0.12	79,79,79,79	0
56	MG	2A	3191	1/1	0.89	0.19	48,48,48,48	0
56	MG	2A	3443	1/1	0.89	0.25	67,67,67,67	0
56	MG	2A	3703	1/1	0.89	0.10	69,69,69,69	0
56	MG	2A	3192	1/1	0.89	0.18	71,71,71,71	0
56	MG	2A	3451	1/1	0.89	0.14	55,55,55,55	0
56	MG	2A	3453	1/1	0.89	0.18	38,38,38,38	0
56	MG	1a	1728	1/1	0.89	0.13	53,53,53,53	0
56	MG	1A	3092	1/1	0.89	0.21	28,28,28,28	0
56	MG	1A	3291	1/1	0.89	0.28	47,47,47,47	0
56	MG	1A	3553	1/1	0.89	0.31	78,78,78,78	0
56	MG	1a	1613	1/1	0.89	0.14	54,54,54,54	0
56	MG	1a	1740	1/1	0.89	0.14	63,63,63,63	0
56	MG	2A	3201	1/1	0.89	0.58	48,48,48,48	0
56	MG	1a	1743	1/1	0.89	0.15	64,64,64,64	0
56	MG	2A	3492	1/1	0.89	0.22	57,57,57,57	0
56	MG	2A	3063	1/1	0.89	0.14	61,61,61,61	0
56	MG	1A	3325	1/1	0.89	0.25	45,45,45,45	0
56	MG	1A	3361	1/1	0.89	0.62	56,56,56,56	0
56	MG	1A	3557	1/1	0.89	0.19	25,25,25,25	0
56	MG	2A	3740	1/1	0.89	0.26	59,59,59,59	0
56	MG	1A	3932	1/1	0.89	0.16	30,30,30,30	0
56	MG	2A	3315	1/1	0.89	0.12	76,76,76,76	0
56	MG	1A	3164	1/1	0.89	0.39	63,63,63,63	0
56	MG	1A	3809	1/1	0.89	0.26	41,41,41,41	0
56	MG	2A	3755	1/1	0.89	0.18	51,51,51,51	0
56	MG	1A	3941	1/1	0.89	0.20	58,58,58,58	0
56	MG	1A	3016	1/1	0.89	0.28	54,54,54,54	0
56	MG	2A	3322	1/1	0.89	0.18	64,64,64,64	0
56	MG	2A	3324	1/1	0.89	0.32	70,70,70,70	0
56	MG	1A	3166	1/1	0.89	0.39	45,45,45,45	0
56	MG	1A	3720	1/1	0.89	0.27	73,73,73,73	0
56	MG	1A	3298	1/1	0.89	0.23	55,55,55,55	0
56	MG	1A	3011	1/1	0.89	0.22	56,56,56,56	0
56	MG	1a	1773	1/1	0.89	0.09	52,52,52,52	0
56	MG	1A	3131	1/1	0.89	0.13	65,65,65,65	0
56	MG	1A	3246	1/1	0.89	0.29	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1O	203	1/1	0.89	0.12	63,63,63,63	0
56	MG	2A	3089	1/1	0.89	0.29	48,48,48,48	0
56	MG	2A	3229	1/1	0.89	0.13	78,78,78,78	0
56	MG	1A	3955	1/1	0.89	0.11	54,54,54,54	0
56	MG	1A	3098	1/1	0.89	0.17	55,55,55,55	0
56	MG	2A	3551	1/1	0.89	0.16	70,70,70,70	0
56	MG	1O	206	1/1	0.89	0.30	70,70,70,70	0
56	MG	2a	1720	1/1	0.89	0.14	58,58,58,58	0
56	MG	2A	3554	1/1	0.89	0.20	40,40,40,40	0
56	MG	1A	3845	1/1	0.89	0.13	75,75,75,75	0
56	MG	1A	3405	1/1	0.89	0.22	59,59,59,59	0
56	MG	1A	3962	1/1	0.89	0.12	65,65,65,65	0
56	MG	1R	201	1/1	0.89	0.33	57,57,57,57	0
56	MG	2A	3348	1/1	0.89	0.21	41,41,41,41	0
56	MG	2A	3352	1/1	0.89	0.33	60,60,60,60	0
56	MG	1A	3063	1/1	0.89	0.25	61,61,61,61	0
56	MG	1A	3064	1/1	0.89	0.22	38,38,38,38	0
56	MG	2A	3106	1/1	0.89	0.27	42,42,42,42	0
56	MG	1A	3970	1/1	0.89	0.26	71,71,71,71	0
56	MG	1S	201	1/1	0.89	0.95	51,51,51,51	0
56	MG	1a	1673	1/1	0.89	0.24	68,68,68,68	0
56	MG	2A	3591	1/1	0.89	0.31	65,65,65,65	0
56	MG	2D	305	1/1	0.89	0.89	46,46,46,46	0
56	MG	2A	3592	1/1	0.89	0.14	75,75,75,75	0
56	MG	2a	1752	1/1	0.89	0.10	90,90,90,90	0
56	MG	1a	1674	1/1	0.89	0.21	73,73,73,73	0
56	MG	2A	3119	1/1	0.89	0.13	50,50,50,50	0
56	MG	2E	305	1/1	0.89	0.08	66,66,66,66	0
56	MG	1A	3350	1/1	0.89	0.26	71,71,71,71	0
56	MG	2A	3127	1/1	0.89	0.18	52,52,52,52	0
56	MG	1A	3742	1/1	0.89	0.16	65,65,65,65	0
56	MG	1a	1678	1/1	0.89	0.34	57,57,57,57	0
56	MG	2G	201	1/1	0.89	0.07	75,75,75,75	0
56	MG	2A	3371	1/1	0.89	0.27	62,62,62,62	0
56	MG	1A	3668	1/1	0.89	0.13	30,30,30,30	0
56	MG	2R	201	1/1	0.89	0.17	53,53,53,53	0
56	MG	1A	3147	1/1	0.89	0.18	36,36,36,36	0
56	MG	2a	1775	1/1	0.89	0.22	55,55,55,55	0
56	MG	1A	3116	1/1	0.89	0.28	40,40,40,40	0
56	MG	2W	205	1/1	0.89	0.55	56,56,56,56	0
56	MG	1x	113	1/1	0.89	0.10	85,85,85,85	0
56	MG	1x	115	1/1	0.89	0.20	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3380	1/1	0.89	0.15	45,45,45,45	0
56	MG	2a	1795	1/1	0.89	0.16	74,74,74,74	0
56	MG	2A	3003	1/1	0.89	0.23	57,57,57,57	0
56	MG	2a	1798	1/1	0.89	0.11	71,71,71,71	0
56	MG	2a	1799	1/1	0.89	0.07	71,71,71,71	0
56	MG	2A	3385	1/1	0.89	0.20	67,67,67,67	0
56	MG	2A	3388	1/1	0.89	0.26	63,63,63,63	0
56	MG	1A	3678	1/1	0.89	0.19	45,45,45,45	0
56	MG	2A	3151	1/1	0.89	0.28	55,55,55,55	0
56	MG	2A	3265	1/1	0.89	0.08	69,69,69,69	0
56	MG	1A	3756	1/1	0.89	0.19	25,25,25,25	0
56	MG	2a	1602	1/1	0.89	0.15	86,86,86,86	0
56	MG	2a	1813	1/1	0.89	0.25	84,84,84,84	0
56	MG	2A	3267	1/1	0.89	0.33	70,70,70,70	0
56	MG	1A	3684	1/1	0.89	0.26	30,30,30,30	0
56	MG	2A	3154	1/1	0.89	0.20	64,64,64,64	0
56	MG	1A	3685	1/1	0.89	0.19	24,24,24,24	0
56	MG	2A	3157	1/1	0.89	0.18	43,43,43,43	0
56	MG	1A	3018	1/1	0.89	0.18	47,47,47,47	0
56	MG	2A	3651	1/1	0.89	0.21	65,65,65,65	0
56	MG	1A	3494	1/1	0.89	0.15	65,65,65,65	0
56	MG	1A	3770	1/1	0.89	0.27	70,70,70,70	0
56	MG	2A	3654	1/1	0.89	0.11	61,61,61,61	0
56	MG	2A	3163	1/1	0.89	0.12	77,77,77,77	0
56	MG	2a	1617	1/1	0.89	0.11	77,77,77,77	0
56	MG	2a	1618	1/1	0.89	0.17	71,71,71,71	0
56	MG	1a	1696	1/1	0.89	0.12	49,49,49,49	0
56	MG	1A	3774	1/1	0.89	0.14	42,42,42,42	0
56	MG	1A	3777	1/1	0.89	0.21	30,30,30,30	0
56	MG	2t	201	1/1	0.89	0.13	54,54,54,54	0
56	MG	2A	3168	1/1	0.89	0.52	75,75,75,75	0
56	MG	1A	3601	1/1	0.89	0.14	62,62,62,62	0
56	MG	2A	3419	1/1	0.89	0.32	64,64,64,64	0
56	MG	1A	3897	1/1	0.89	0.20	70,70,70,70	0
56	MG	2A	3285	1/1	0.89	0.21	61,61,61,61	0
56	MG	2A	3181	1/1	0.89	0.20	56,56,56,56	0
56	MG	1A	3321	1/1	0.89	0.23	54,54,54,54	0
56	MG	2A	3677	1/1	0.89	0.20	69,69,69,69	0
56	MG	2A	3680	1/1	0.89	0.24	69,69,69,69	0
56	MG	2y	102	1/1	0.89	0.20	79,79,79,79	0
56	MG	1A	3049	1/1	0.89	0.14	26,26,26,26	0
56	MG	1A	3791	1/1	0.89	0.18	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3607	1/1	0.89	0.18	53,53,53,53	0
56	MG	1a	1623	1/1	0.90	0.27	61,61,61,61	0
56	MG	2A	3107	1/1	0.90	0.16	56,56,56,56	0
56	MG	2A	3648	1/1	0.90	0.19	35,35,35,35	0
56	MG	2A	3112	1/1	0.90	0.20	63,63,63,63	0
56	MG	1A	3912	1/1	0.90	0.16	53,53,53,53	0
56	MG	1a	1775	1/1	0.90	0.14	62,62,62,62	0
56	MG	2A	3398	1/1	0.90	0.25	71,71,71,71	0
56	MG	1A	3532	1/1	0.90	0.20	26,26,26,26	0
56	MG	1E	303	1/1	0.90	0.39	42,42,42,42	0
56	MG	1E	307	1/1	0.90	0.30	57,57,57,57	0
56	MG	2A	3124	1/1	0.90	0.37	51,51,51,51	0
56	MG	1a	1783	1/1	0.90	0.11	66,66,66,66	0
56	MG	2A	3662	1/1	0.90	0.18	66,66,66,66	0
56	MG	1a	1784	1/1	0.90	0.07	62,62,62,62	0
56	MG	1A	4033	1/1	0.90	0.25	43,43,43,43	0
56	MG	1A	4036	1/1	0.90	0.10	52,52,52,52	0
56	MG	2A	3269	1/1	0.90	0.20	60,60,60,60	0
56	MG	1A	3808	1/1	0.90	0.21	73,73,73,73	0
56	MG	2a	1640	1/1	0.90	0.10	66,66,66,66	0
56	MG	2A	3672	1/1	0.90	0.12	61,61,61,61	0
56	MG	1A	3163	1/1	0.90	0.17	57,57,57,57	0
56	MG	2A	3416	1/1	0.90	0.18	70,70,70,70	0
56	MG	1a	1647	1/1	0.90	0.17	44,44,44,44	0
56	MG	2A	3137	1/1	0.90	0.16	46,46,46,46	0
56	MG	2A	3138	1/1	0.90	0.16	55,55,55,55	0
56	MG	1a	1648	1/1	0.90	0.17	55,55,55,55	0
56	MG	1A	3272	1/1	0.90	0.11	49,49,49,49	0
56	MG	1a	1650	1/1	0.90	0.16	48,48,48,48	0
56	MG	2A	3427	1/1	0.90	0.14	53,53,53,53	0
56	MG	1A	3816	1/1	0.90	0.23	37,37,37,37	0
56	MG	1A	3817	1/1	0.90	0.15	41,41,41,41	0
56	MG	2A	3693	1/1	0.90	0.10	69,69,69,69	0
56	MG	1A	3389	1/1	0.90	0.35	42,42,42,42	0
56	MG	1a	1657	1/1	0.90	0.18	67,67,67,67	0
56	MG	2a	1665	1/1	0.90	0.12	46,46,46,46	0
56	MG	1A	3102	1/1	0.90	0.13	34,34,34,34	0
56	MG	1A	3061	1/1	0.90	0.10	54,54,54,54	0
56	MG	1A	3827	1/1	0.90	0.25	47,47,47,47	0
56	MG	2A	3709	1/1	0.90	0.23	76,76,76,76	0
56	MG	1A	3935	1/1	0.90	0.24	73,73,73,73	0
56	MG	1O	202	1/1	0.90	0.39	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3159	1/1	0.90	0.14	61,61,61,61	0
56	MG	1A	3937	1/1	0.90	0.20	45,45,45,45	0
56	MG	2A	3718	1/1	0.90	0.13	38,38,38,38	0
56	MG	2A	3293	1/1	0.90	0.10	65,65,65,65	0
56	MG	1A	3455	1/1	0.90	0.23	50,50,50,50	0
56	MG	2a	1679	1/1	0.90	0.13	66,66,66,66	0
56	MG	1A	3423	1/1	0.90	0.52	63,63,63,63	0
56	MG	1A	3832	1/1	0.90	0.10	44,44,44,44	0
56	MG	2A	3469	1/1	0.90	0.17	43,43,43,43	0
56	MG	1a	1670	1/1	0.90	0.07	75,75,75,75	0
56	MG	2A	3474	1/1	0.90	0.18	64,64,64,64	0
56	MG	1a	1672	1/1	0.90	0.15	65,65,65,65	0
56	MG	2a	1692	1/1	0.90	0.32	66,66,66,66	0
56	MG	1A	3458	1/1	0.90	0.19	57,57,57,57	0
56	MG	1A	3686	1/1	0.90	0.17	29,29,29,29	0
56	MG	2A	3489	1/1	0.90	0.27	46,46,46,46	0
56	MG	1A	3839	1/1	0.90	0.13	69,69,69,69	0
56	MG	2A	3742	1/1	0.90	0.18	52,52,52,52	0
56	MG	2A	3177	1/1	0.90	0.14	43,43,43,43	0
56	MG	1A	3340	1/1	0.90	0.38	73,73,73,73	0
56	MG	1R	202	1/1	0.90	0.21	64,64,64,64	0
56	MG	1A	3755	1/1	0.90	0.17	47,47,47,47	0
56	MG	2A	3504	1/1	0.90	0.18	61,61,61,61	0
56	MG	1A	3850	1/1	0.90	0.20	59,59,59,59	0
56	MG	2A	3506	1/1	0.90	0.18	64,64,64,64	0
56	MG	2A	3762	1/1	0.90	0.23	54,54,54,54	0
56	MG	2A	3764	1/1	0.90	0.18	86,86,86,86	0
56	MG	1A	3341	1/1	0.90	0.40	50,50,50,50	0
56	MG	1A	3549	1/1	0.90	0.54	61,61,61,61	0
56	MG	1a	1684	1/1	0.90	0.14	72,72,72,72	0
56	MG	1A	3142	1/1	0.90	0.10	47,47,47,47	0
56	MG	1A	3762	1/1	0.90	0.21	47,47,47,47	0
56	MG	2A	3040	1/1	0.90	0.68	58,58,58,58	0
56	MG	2A	3777	1/1	0.90	0.21	46,46,46,46	0
56	MG	2A	3041	1/1	0.90	0.10	73,73,73,73	0
56	MG	2A	3193	1/1	0.90	0.22	72,72,72,72	0
56	MG	1A	3763	1/1	0.90	0.21	34,34,34,34	0
56	MG	1A	3428	1/1	0.90	0.56	49,49,49,49	0
56	MG	2a	1731	1/1	0.90	0.16	69,69,69,69	0
56	MG	1A	3613	1/1	0.90	0.30	32,32,32,32	0
56	MG	2A	3791	1/1	0.90	0.17	53,53,53,53	0
56	MG	2A	3793	1/1	0.90	0.21	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1737	1/1	0.90	0.20	83,83,83,83	0
56	MG	1a	1692	1/1	0.90	0.24	63,63,63,63	0
56	MG	1a	1693	1/1	0.90	0.19	44,44,44,44	0
56	MG	2a	1741	1/1	0.90	0.14	76,76,76,76	0
56	MG	1A	3864	1/1	0.90	0.09	44,44,44,44	0
56	MG	2A	3051	1/1	0.90	0.14	77,77,77,77	0
56	MG	2A	3052	1/1	0.90	0.19	72,72,72,72	0
56	MG	1W	203	1/1	0.90	0.33	47,47,47,47	0
56	MG	1A	3974	1/1	0.90	0.63	64,64,64,64	0
56	MG	2A	3335	1/1	0.90	0.35	62,62,62,62	0
56	MG	1A	3976	1/1	0.90	0.15	41,41,41,41	0
56	MG	2A	3808	1/1	0.90	0.35	74,74,74,74	0
56	MG	1A	3099	1/1	0.90	0.16	69,69,69,69	0
56	MG	2B	202	1/1	0.90	0.22	60,60,60,60	0
56	MG	2A	3552	1/1	0.90	0.18	39,39,39,39	0
56	MG	1A	3771	1/1	0.90	0.14	49,49,49,49	0
56	MG	1A	4094	1/1	0.90	0.09	62,62,62,62	0
56	MG	2A	3556	1/1	0.90	0.27	55,55,55,55	0
56	MG	10	105	1/1	0.90	0.26	68,68,68,68	0
56	MG	2B	209	1/1	0.90	0.25	75,75,75,75	0
56	MG	2a	1772	1/1	0.90	0.14	70,70,70,70	0
56	MG	2a	1774	1/1	0.90	0.20	66,66,66,66	0
56	MG	1A	3236	1/1	0.90	0.27	36,36,36,36	0
56	MG	2a	1780	1/1	0.90	0.09	73,73,73,73	0
56	MG	1a	1712	1/1	0.90	0.20	64,64,64,64	0
56	MG	1A	3316	1/1	0.90	0.38	38,38,38,38	0
56	MG	2A	3067	1/1	0.90	0.15	53,53,53,53	0
56	MG	2A	3215	1/1	0.90	1.31	59,59,59,59	0
56	MG	1A	3987	1/1	0.90	0.21	30,30,30,30	0
56	MG	11	105	1/1	0.90	0.12	49,49,49,49	0
56	MG	1A	3184	1/1	0.90	0.27	40,40,40,40	0
56	MG	2A	3349	1/1	0.90	0.31	63,63,63,63	0
56	MG	1A	3559	1/1	0.90	0.34	44,44,44,44	0
56	MG	2a	1800	1/1	0.90	0.25	67,67,67,67	0
56	MG	1A	3569	1/1	0.90	0.17	41,41,41,41	0
56	MG	2F	301	1/1	0.90	0.40	50,50,50,50	0
56	MG	15	103	1/1	0.90	0.26	42,42,42,42	0
56	MG	1A	4001	1/1	0.90	0.13	44,44,44,44	0
56	MG	2A	3593	1/1	0.90	0.23	83,83,83,83	0
56	MG	2A	3079	1/1	0.90	0.42	54,54,54,54	0
56	MG	1A	3243	1/1	0.90	0.12	46,46,46,46	0
56	MG	17	105	1/1	0.90	0.17	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3599	1/1	0.90	0.21	72,72,72,72	0
56	MG	1A	3517	1/1	0.90	0.17	60,60,60,60	0
56	MG	2T	204	1/1	0.90	0.27	72,72,72,72	0
56	MG	2V	202	1/1	0.90	0.24	64,64,64,64	0
56	MG	2W	202	1/1	0.90	0.91	56,56,56,56	0
56	MG	2A	3602	1/1	0.90	0.08	75,75,75,75	0
56	MG	1A	3185	1/1	0.90	0.11	52,52,52,52	0
56	MG	1a	1744	1/1	0.90	0.19	70,70,70,70	0
56	MG	1B	222	1/1	0.90	0.10	80,80,80,80	0
56	MG	23	101	1/1	0.90	0.16	55,55,55,55	0
56	MG	2A	3087	1/1	0.90	0.61	48,48,48,48	0
56	MG	1A	3893	1/1	0.90	0.21	52,52,52,52	0
56	MG	2j	201	1/1	0.90	0.07	85,85,85,85	0
56	MG	1A	3153	1/1	0.90	0.12	37,37,37,37	0
56	MG	1A	3355	1/1	0.90	0.42	57,57,57,57	0
56	MG	1a	1607	1/1	0.90	0.18	56,56,56,56	0
56	MG	2A	3374	1/1	0.90	0.27	66,66,66,66	0
56	MG	2A	3375	1/1	0.90	0.14	62,62,62,62	0
56	MG	2A	3377	1/1	0.90	0.22	64,64,64,64	0
56	MG	2a	1603	1/1	0.90	0.19	85,85,85,85	0
56	MG	1A	3444	1/1	0.90	0.39	46,46,46,46	0
56	MG	1A	3189	1/1	0.90	0.35	36,36,36,36	0
56	MG	1A	3727	1/1	0.90	0.13	67,67,67,67	0
56	MG	2A	3628	1/1	0.90	0.18	71,71,71,71	0
56	MG	1A	3054	1/1	0.90	0.14	48,48,48,48	0
56	MG	1A	4023	1/1	0.90	0.13	51,51,51,51	0
56	MG	2A	3102	1/1	0.90	0.30	57,57,57,57	0
56	MG	1A	3197	1/1	0.90	0.66	49,49,49,49	0
56	MG	2A	3638	1/1	0.90	0.16	67,67,67,67	0
56	MG	2A	3639	1/1	0.90	0.06	61,61,61,61	0
56	MG	1A	3910	1/1	0.90	0.17	45,45,45,45	0
56	MG	2A	3483	1/1	0.91	0.17	66,66,66,66	0
56	MG	10	104	1/1	0.91	0.65	48,48,48,48	0
56	MG	2A	3719	1/1	0.91	0.09	62,62,62,62	0
56	MG	2A	3720	1/1	0.91	0.13	71,71,71,71	0
56	MG	2A	3486	1/1	0.91	0.16	42,42,42,42	0
56	MG	1A	4005	1/1	0.91	0.21	56,56,56,56	0
56	MG	1A	3422	1/1	0.91	0.11	59,59,59,59	0
56	MG	10	108	1/1	0.91	0.16	67,67,67,67	0
56	MG	1A	3665	1/1	0.91	0.17	41,41,41,41	0
56	MG	2A	3499	1/1	0.91	0.24	49,49,49,49	0
56	MG	1A	3737	1/1	0.91	0.15	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3267	1/1	0.91	0.31	72,72,72,72	0
56	MG	1A	3818	1/1	0.91	0.13	39,39,39,39	0
56	MG	2A	3737	1/1	0.91	0.08	54,54,54,54	0
56	MG	1A	3206	1/1	0.91	0.28	34,34,34,34	0
56	MG	13	104	1/1	0.91	0.24	62,62,62,62	0
56	MG	1A	3252	1/1	0.91	0.22	35,35,35,35	0
56	MG	1A	3675	1/1	0.91	0.14	32,32,32,32	0
56	MG	1A	3593	1/1	0.91	0.22	45,45,45,45	0
56	MG	1a	1713	1/1	0.91	0.16	52,52,52,52	0
56	MG	2A	3520	1/1	0.91	0.23	58,58,58,58	0
56	MG	1A	3750	1/1	0.91	0.17	58,58,58,58	0
56	MG	2A	3061	1/1	0.91	0.19	66,66,66,66	0
56	MG	2A	3330	1/1	0.91	0.37	71,71,71,71	0
56	MG	17	101	1/1	0.91	0.13	37,37,37,37	0
56	MG	1A	3495	1/1	0.91	0.31	62,62,62,62	0
56	MG	2A	3334	1/1	0.91	0.16	65,65,65,65	0
56	MG	1A	3925	1/1	0.91	0.14	37,37,37,37	0
56	MG	1A	3927	1/1	0.91	0.23	63,63,63,63	0
56	MG	18	106	1/1	0.91	0.24	49,49,49,49	0
56	MG	1A	3928	1/1	0.91	0.20	37,37,37,37	0
56	MG	2a	1691	1/1	0.91	0.23	73,73,73,73	0
56	MG	1A	3541	1/1	0.91	0.10	69,69,69,69	0
56	MG	1A	4034	1/1	0.91	0.19	32,32,32,32	0
56	MG	1D	306	1/1	0.91	0.28	38,38,38,38	0
56	MG	1a	1738	1/1	0.91	0.11	62,62,62,62	0
56	MG	1D	308	1/1	0.91	0.17	50,50,50,50	0
56	MG	1A	3230	1/1	0.91	0.16	56,56,56,56	0
56	MG	1a	1612	1/1	0.91	0.11	71,71,71,71	0
56	MG	1A	3600	1/1	0.91	0.23	36,36,36,36	0
56	MG	2a	1703	1/1	0.91	0.28	68,68,68,68	0
56	MG	2A	3221	1/1	0.91	0.18	70,70,70,70	0
56	MG	2A	3081	1/1	0.91	0.15	57,57,57,57	0
56	MG	1A	3758	1/1	0.91	0.18	28,28,28,28	0
56	MG	1A	3271	1/1	0.91	0.32	36,36,36,36	0
56	MG	1A	3364	1/1	0.91	0.62	48,48,48,48	0
56	MG	2A	3356	1/1	0.91	0.22	62,62,62,62	0
56	MG	2A	3357	1/1	0.91	0.31	68,68,68,68	0
56	MG	1E	310	1/1	0.91	0.26	59,59,59,59	0
56	MG	1E	311	1/1	0.91	0.19	27,27,27,27	0
56	MG	1A	3133	1/1	0.91	0.46	52,52,52,52	0
56	MG	1a	1761	1/1	0.91	0.08	83,83,83,83	0
56	MG	1a	1624	1/1	0.91	0.26	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3090	1/1	0.91	0.15	42,42,42,42	0
56	MG	1a	1627	1/1	0.91	0.16	66,66,66,66	0
56	MG	2A	3092	1/1	0.91	0.20	80,80,80,80	0
56	MG	1a	1629	1/1	0.91	0.20	74,74,74,74	0
56	MG	1A	3310	1/1	0.91	0.31	61,61,61,61	0
56	MG	1A	3696	1/1	0.91	0.12	30,30,30,30	0
56	MG	1A	3139	1/1	0.91	0.16	44,44,44,44	0
56	MG	1a	1634	1/1	0.91	0.15	70,70,70,70	0
56	MG	1A	3508	1/1	0.91	0.64	41,41,41,41	0
56	MG	1a	1637	1/1	0.91	0.33	63,63,63,63	0
56	MG	1A	3104	1/1	0.91	0.99	53,53,53,53	0
56	MG	2A	3376	1/1	0.91	0.22	66,66,66,66	0
56	MG	1A	4059	1/1	0.91	0.22	41,41,41,41	0
56	MG	1a	1640	1/1	0.91	0.15	61,61,61,61	0
56	MG	2a	1742	1/1	0.91	0.27	68,68,68,68	0
56	MG	1A	3186	1/1	0.91	0.28	45,45,45,45	0
56	MG	2A	3380	1/1	0.91	0.21	48,48,48,48	0
56	MG	1a	1785	1/1	0.91	0.09	57,57,57,57	0
56	MG	1G	201	1/1	0.91	0.18	36,36,36,36	0
56	MG	2A	3613	1/1	0.91	0.12	71,71,71,71	0
56	MG	1a	1645	1/1	0.91	0.16	70,70,70,70	0
56	MG	2A	3255	1/1	0.91	0.11	62,62,62,62	0
56	MG	1A	3775	1/1	0.91	0.13	56,56,56,56	0
56	MG	2A	3389	1/1	0.91	0.18	78,78,78,78	0
56	MG	2A	3390	1/1	0.91	0.32	62,62,62,62	0
56	MG	1A	3314	1/1	0.91	0.21	52,52,52,52	0
56	MG	1A	3107	1/1	0.91	0.55	46,46,46,46	0
56	MG	2R	202	1/1	0.91	0.47	55,55,55,55	0
56	MG	1d	301	1/1	0.91	0.27	78,78,78,78	0
56	MG	1A	3563	1/1	0.91	0.19	46,46,46,46	0
56	MG	2T	203	1/1	0.91	0.32	65,65,65,65	0
56	MG	1m	3002	1/1	0.91	0.12	69,69,69,69	0
56	MG	1A	4065	1/1	0.91	0.15	55,55,55,55	0
56	MG	1A	4066	1/1	0.91	0.26	37,37,37,37	0
56	MG	1w	102	1/1	0.91	0.11	56,56,56,56	0
56	MG	2X	102	1/1	0.91	0.14	54,54,54,54	0
56	MG	1A	3872	1/1	0.91	0.16	37,37,37,37	0
56	MG	2A	3135	1/1	0.91	0.21	66,66,66,66	0
56	MG	1A	3171	1/1	0.91	0.18	55,55,55,55	0
56	MG	1A	3317	1/1	0.91	0.44	46,46,46,46	0
56	MG	1x	104	1/1	0.91	0.14	70,70,70,70	0
56	MG	1A	3877	1/1	0.91	0.24	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3288	1/1	0.91	0.26	65,65,65,65	0
56	MG	2A	3650	1/1	0.91	0.28	54,54,54,54	0
56	MG	1Q	206	1/1	0.91	0.18	50,50,50,50	0
56	MG	1A	3971	1/1	0.91	0.12	66,66,66,66	0
56	MG	2A	3148	1/1	0.91	0.20	55,55,55,55	0
56	MG	2A	3149	1/1	0.91	0.18	45,45,45,45	0
56	MG	1A	3972	1/1	0.91	0.11	58,58,58,58	0
56	MG	2A	3418	1/1	0.91	0.15	72,72,72,72	0
56	MG	2a	1809	1/1	0.91	0.16	77,77,77,77	0
56	MG	1A	3879	1/1	0.91	0.17	44,44,44,44	0
56	MG	1A	3524	1/1	0.91	0.25	50,50,50,50	0
56	MG	1A	3882	1/1	0.91	0.22	30,30,30,30	0
56	MG	2A	3664	1/1	0.91	0.21	61,61,61,61	0
56	MG	2a	1815	1/1	0.91	0.25	66,66,66,66	0
56	MG	2A	3281	1/1	0.91	0.15	73,73,73,73	0
56	MG	2A	3424	1/1	0.91	0.21	45,45,45,45	0
56	MG	1A	3649	1/1	0.91	0.21	51,51,51,51	0
56	MG	1A	3981	1/1	0.91	0.17	55,55,55,55	0
56	MG	2A	3002	1/1	0.91	0.20	61,61,61,61	0
56	MG	1U	203	1/1	0.91	0.44	59,59,59,59	0
56	MG	1A	3574	1/1	0.91	0.18	44,44,44,44	0
56	MG	1A	3160	1/1	0.91	0.32	36,36,36,36	0
56	MG	1a	1676	1/1	0.91	0.24	50,50,50,50	0
56	MG	1A	3890	1/1	0.91	0.22	52,52,52,52	0
56	MG	1A	3986	1/1	0.91	0.14	55,55,55,55	0
56	MG	1A	3053	1/1	0.91	0.15	56,56,56,56	0
56	MG	2A	3442	1/1	0.91	0.34	66,66,66,66	0
56	MG	1A	3055	1/1	0.91	0.20	37,37,37,37	0
56	MG	1A	3086	1/1	0.91	0.52	39,39,39,39	0
56	MG	1A	3327	1/1	0.91	0.24	64,64,64,64	0
56	MG	1X	107	1/1	0.91	0.18	59,59,59,59	0
56	MG	2A	3454	1/1	0.91	0.20	65,65,65,65	0
56	MG	2a	1630	1/1	0.91	0.14	82,82,82,82	0
56	MG	2v	103	1/1	0.91	0.21	59,59,59,59	0
56	MG	2A	3174	1/1	0.91	0.17	62,62,62,62	0
56	MG	1Y	201	1/1	0.91	0.29	66,66,66,66	0
56	MG	2A	3178	1/1	0.91	0.21	64,64,64,64	0
56	MG	2A	3179	1/1	0.91	0.11	51,51,51,51	0
56	MG	1B	202	1/1	0.91	0.43	62,62,62,62	0
56	MG	2A	3708	1/1	0.91	0.10	67,67,67,67	0
56	MG	2a	1639	1/1	0.91	0.22	76,76,76,76	0
56	MG	2A	3473	1/1	0.91	0.13	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3037	1/1	0.91	0.16	65,65,65,65	0
56	MG	1A	3486	1/1	0.91	0.26	57,57,57,57	0
56	MG	1A	3388	1/1	0.91	0.73	47,47,47,47	0
56	MG	1B	211	1/1	0.92	0.36	61,61,61,61	0
56	MG	1A	3326	1/1	0.92	0.21	60,60,60,60	0
56	MG	15	107	1/1	0.92	0.34	50,50,50,50	0
56	MG	1A	3031	1/1	0.92	0.48	46,46,46,46	0
56	MG	1A	3587	1/1	0.92	0.19	35,35,35,35	0
56	MG	2A	3059	1/1	0.92	0.09	81,81,81,81	0
56	MG	2a	1652	1/1	0.92	0.11	62,62,62,62	0
56	MG	2A	3498	1/1	0.92	0.22	40,40,40,40	0
56	MG	2A	3319	1/1	0.92	0.17	69,69,69,69	0
56	MG	2A	3320	1/1	0.92	0.28	77,77,77,77	0
56	MG	1A	3381	1/1	0.92	0.23	54,54,54,54	0
56	MG	1A	3412	1/1	0.92	0.28	65,65,65,65	0
56	MG	1A	3069	1/1	0.92	0.31	31,31,31,31	0
56	MG	2a	1664	1/1	0.92	0.20	62,62,62,62	0
56	MG	2A	3325	1/1	0.92	0.16	67,67,67,67	0
56	MG	1A	3913	1/1	0.92	0.10	44,44,44,44	0
56	MG	1A	4013	1/1	0.92	0.08	60,60,60,60	0
56	MG	1a	1734	1/1	0.92	0.20	66,66,66,66	0
56	MG	1A	3415	1/1	0.92	0.21	69,69,69,69	0
56	MG	1A	3106	1/1	0.92	0.14	29,29,29,29	0
56	MG	1a	1602	1/1	0.92	0.13	70,70,70,70	0
56	MG	2a	1673	1/1	0.92	0.14	62,62,62,62	0
56	MG	2A	3070	1/1	0.92	0.29	44,44,44,44	0
56	MG	1A	3828	1/1	0.92	0.16	37,37,37,37	0
56	MG	2A	3748	1/1	0.92	0.27	58,58,58,58	0
56	MG	2A	3753	1/1	0.92	0.11	47,47,47,47	0
56	MG	1A	4019	1/1	0.92	0.22	45,45,45,45	0
56	MG	2A	3533	1/1	0.92	0.21	66,66,66,66	0
56	MG	1a	1741	1/1	0.92	0.29	77,77,77,77	0
56	MG	1A	3919	1/1	0.92	0.10	46,46,46,46	0
56	MG	1A	3072	1/1	0.92	0.31	33,33,33,33	0
56	MG	1A	3681	1/1	0.92	0.13	33,33,33,33	0
56	MG	1A	4025	1/1	0.92	0.08	47,47,47,47	0
56	MG	2A	3768	1/1	0.92	0.10	51,51,51,51	0
56	MG	1A	4026	1/1	0.92	0.34	65,65,65,65	0
56	MG	1A	4028	1/1	0.92	0.17	37,37,37,37	0
56	MG	1a	1618	1/1	0.92	0.11	42,42,42,42	0
56	MG	2A	3218	1/1	0.92	0.33	47,47,47,47	0
56	MG	2A	3219	1/1	0.92	0.19	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3108	1/1	0.92	0.45	34,34,34,34	0
56	MG	1a	1754	1/1	0.92	0.09	73,73,73,73	0
56	MG	1A	3833	1/1	0.92	0.19	66,66,66,66	0
56	MG	2A	3350	1/1	0.92	0.27	54,54,54,54	0
56	MG	1A	3926	1/1	0.92	0.23	38,38,38,38	0
56	MG	1A	3835	1/1	0.92	0.12	73,73,73,73	0
56	MG	1A	3335	1/1	0.92	0.23	57,57,57,57	0
56	MG	2a	1710	1/1	0.92	0.25	71,71,71,71	0
56	MG	2A	3227	1/1	0.92	0.09	78,78,78,78	0
56	MG	1A	3929	1/1	0.92	0.09	68,68,68,68	0
56	MG	1A	3497	1/1	0.92	0.06	80,80,80,80	0
56	MG	1A	4039	1/1	0.92	0.23	28,28,28,28	0
56	MG	1A	3077	1/1	0.92	0.17	38,38,38,38	0
56	MG	1A	3338	1/1	0.92	0.35	47,47,47,47	0
56	MG	1A	3500	1/1	0.92	0.14	70,70,70,70	0
56	MG	1A	4045	1/1	0.92	0.12	61,61,61,61	0
56	MG	2A	3236	1/1	0.92	0.16	73,73,73,73	0
56	MG	1A	3608	1/1	0.92	0.25	37,37,37,37	0
56	MG	1A	3851	1/1	0.92	0.65	44,44,44,44	0
56	MG	1A	3939	1/1	0.92	0.08	71,71,71,71	0
56	MG	1G	204	1/1	0.92	0.21	69,69,69,69	0
56	MG	1A	3695	1/1	0.92	0.23	35,35,35,35	0
56	MG	2B	204	1/1	0.92	0.20	74,74,74,74	0
56	MG	1A	4053	1/1	0.92	0.20	54,54,54,54	0
56	MG	2A	3594	1/1	0.92	0.17	63,63,63,63	0
56	MG	1a	1644	1/1	0.92	0.17	70,70,70,70	0
56	MG	1A	3285	1/1	0.92	0.10	57,57,57,57	0
56	MG	1a	1791	1/1	0.92	0.21	76,76,76,76	0
56	MG	1A	3136	1/1	0.92	0.17	48,48,48,48	0
56	MG	1A	3767	1/1	0.92	0.15	23,23,23,23	0
56	MG	1A	3859	1/1	0.92	0.25	51,51,51,51	0
56	MG	2A	3251	1/1	0.92	0.18	68,68,68,68	0
56	MG	1A	3367	1/1	0.92	0.35	49,49,49,49	0
56	MG	1A	3239	1/1	0.92	0.12	35,35,35,35	0
56	MG	1n	101	1/1	0.92	0.16	59,59,59,59	0
56	MG	2A	3126	1/1	0.92	0.11	78,78,78,78	0
56	MG	2A	3257	1/1	0.92	0.58	72,72,72,72	0
56	MG	1A	3773	1/1	0.92	0.16	22,22,22,22	0
56	MG	2A	3614	1/1	0.92	0.21	67,67,67,67	0
56	MG	1A	3863	1/1	0.92	0.20	35,35,35,35	0
56	MG	1A	3634	1/1	0.92	0.24	58,58,58,58	0
56	MG	2A	3392	1/1	0.92	0.45	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2F	304	1/1	0.92	0.38	52,52,52,52	0
56	MG	2A	3131	1/1	0.92	0.49	46,46,46,46	0
56	MG	1a	1659	1/1	0.92	0.12	71,71,71,71	0
56	MG	1A	3635	1/1	0.92	0.21	26,26,26,26	0
56	MG	1A	4070	1/1	0.92	0.27	69,69,69,69	0
56	MG	1A	4071	1/1	0.92	0.19	45,45,45,45	0
56	MG	1A	3959	1/1	0.92	0.25	65,65,65,65	0
56	MG	1A	3776	1/1	0.92	0.48	63,63,63,63	0
56	MG	1R	206	1/1	0.92	0.29	35,35,35,35	0
56	MG	2A	3633	1/1	0.92	0.17	56,56,56,56	0
56	MG	2V	201	1/1	0.92	1.05	54,54,54,54	0
56	MG	1A	3706	1/1	0.92	0.20	62,62,62,62	0
56	MG	2a	1782	1/1	0.92	0.27	55,55,55,55	0
56	MG	1A	3509	1/1	0.92	1.01	47,47,47,47	0
56	MG	2a	1785	1/1	0.92	0.11	76,76,76,76	0
56	MG	1A	3511	1/1	0.92	0.72	39,39,39,39	0
56	MG	1A	4077	1/1	0.92	0.17	62,62,62,62	0
56	MG	2a	1791	1/1	0.92	0.18	77,77,77,77	0
56	MG	1A	3431	1/1	0.92	0.46	55,55,55,55	0
56	MG	1A	3191	1/1	0.92	0.13	56,56,56,56	0
56	MG	1U	210	1/1	0.92	0.81	42,42,42,42	0
56	MG	1A	4080	1/1	0.92	0.20	66,66,66,66	0
56	MG	1A	3138	1/1	0.92	0.35	32,32,32,32	0
56	MG	1A	3717	1/1	0.92	0.07	63,63,63,63	0
56	MG	1A	3399	1/1	0.92	0.14	51,51,51,51	0
56	MG	1A	3975	1/1	0.92	0.23	29,29,29,29	0
56	MG	2a	1803	1/1	0.92	0.27	66,66,66,66	0
56	MG	1X	104	1/1	0.92	1.17	53,53,53,53	0
56	MG	1A	3058	1/1	0.92	0.22	49,49,49,49	0
56	MG	2A	3283	1/1	0.92	0.55	65,65,65,65	0
56	MG	2A	3656	1/1	0.92	0.18	52,52,52,52	0
56	MG	1A	3978	1/1	0.92	0.17	21,21,21,21	0
56	MG	2A	3026	1/1	0.92	0.26	79,79,79,79	0
56	MG	2A	3286	1/1	0.92	0.12	67,67,67,67	0
56	MG	1A	3247	1/1	0.92	0.87	46,46,46,46	0
56	MG	1A	3439	1/1	0.92	0.63	42,42,42,42	0
56	MG	1Z	301	1/1	0.92	0.31	59,59,59,59	0
56	MG	2A	3290	1/1	0.92	0.32	58,58,58,58	0
56	MG	2A	3031	1/1	0.92	0.20	52,52,52,52	0
56	MG	2a	1821	1/1	0.92	0.19	76,76,76,76	0
56	MG	1A	3223	1/1	0.92	0.29	51,51,51,51	0
56	MG	1A	3578	1/1	0.92	0.30	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3478	1/1	0.92	0.10	61,61,61,61	0
56	MG	2A	3172	1/1	0.92	0.25	65,65,65,65	0
56	MG	2A	3439	1/1	0.92	0.12	39,39,39,39	0
56	MG	1A	4095	1/1	0.92	0.16	57,57,57,57	0
56	MG	2A	3679	1/1	0.92	0.21	82,82,82,82	0
56	MG	2A	3175	1/1	0.92	0.14	68,68,68,68	0
56	MG	2A	3176	1/1	0.92	0.26	53,53,53,53	0
56	MG	2A	3684	1/1	0.92	0.28	58,58,58,58	0
56	MG	1A	3295	1/1	0.92	0.23	55,55,55,55	0
56	MG	1A	3896	1/1	0.92	0.40	35,35,35,35	0
56	MG	2q	202	1/1	0.92	0.17	83,83,83,83	0
56	MG	1A	3050	1/1	0.92	0.27	30,30,30,30	0
56	MG	2A	3180	1/1	0.92	0.29	62,62,62,62	0
56	MG	1A	3200	1/1	0.92	0.17	44,44,44,44	0
56	MG	2A	3459	1/1	0.92	0.31	65,65,65,65	0
56	MG	2A	3460	1/1	0.92	0.25	45,45,45,45	0
56	MG	2A	3463	1/1	0.92	0.18	58,58,58,58	0
56	MG	2w	102	1/1	0.92	0.10	83,83,83,83	0
56	MG	1a	1698	1/1	0.92	0.36	63,63,63,63	0
56	MG	11	104	1/1	0.92	0.08	77,77,77,77	0
56	MG	2A	3470	1/1	0.92	0.20	57,57,57,57	0
56	MG	1A	3998	1/1	0.92	0.15	33,33,33,33	0
56	MG	2A	3706	1/1	0.92	0.17	65,65,65,65	0
56	MG	1B	205	1/1	0.92	0.15	51,51,51,51	0
56	MG	1A	3901	1/1	0.92	0.20	45,45,45,45	0
56	MG	1a	1706	1/1	0.92	0.27	64,64,64,64	0
56	MG	1A	3902	1/1	0.92	0.19	35,35,35,35	0
56	MG	2A	3312	1/1	0.92	0.26	68,68,68,68	0
58	ZN	2n	501	1/1	0.92	0.10	97,97,97,97	0
56	MG	1A	3176	1/1	0.93	0.22	34,34,34,34	0
56	MG	1A	3796	1/1	0.93	0.20	51,51,51,51	0
56	MG	2A	3048	1/1	0.93	0.21	70,70,70,70	0
56	MG	2a	1662	1/1	0.93	0.29	67,67,67,67	0
56	MG	2a	1663	1/1	0.93	0.12	59,59,59,59	0
56	MG	1A	3201	1/1	0.93	0.19	33,33,33,33	0
56	MG	1A	3799	1/1	0.93	0.10	47,47,47,47	0
56	MG	2A	3562	1/1	0.93	0.18	40,40,40,40	0
56	MG	1A	3671	1/1	0.93	0.14	28,28,28,28	0
56	MG	1A	3949	1/1	0.93	0.14	38,38,38,38	0
56	MG	2A	3571	1/1	0.93	0.19	59,59,59,59	0
56	MG	1A	3231	1/1	0.93	0.37	51,51,51,51	0
56	MG	1U	209	1/1	0.93	0.23	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3580	1/1	0.93	0.20	46,46,46,46	0
56	MG	1a	1641	1/1	0.93	0.15	51,51,51,51	0
56	MG	2A	3056	1/1	0.93	0.15	49,49,49,49	0
56	MG	2A	3772	1/1	0.93	0.24	55,55,55,55	0
56	MG	1A	3202	1/1	0.93	0.17	45,45,45,45	0
56	MG	1V	205	1/1	0.93	0.33	54,54,54,54	0
56	MG	1A	3204	1/1	0.93	0.18	36,36,36,36	0
56	MG	1A	3074	1/1	0.93	0.19	32,32,32,32	0
56	MG	2a	1682	1/1	0.93	0.16	68,68,68,68	0
56	MG	1A	3566	1/1	0.93	0.27	41,41,41,41	0
56	MG	2A	3780	1/1	0.93	0.11	47,47,47,47	0
56	MG	1A	3683	1/1	0.93	0.25	37,37,37,37	0
56	MG	1B	223	1/1	0.93	0.20	62,62,62,62	0
56	MG	1A	3567	1/1	0.93	0.41	32,32,32,32	0
56	MG	1A	4042	1/1	0.93	0.15	19,19,19,19	0
56	MG	1A	3814	1/1	0.93	0.15	28,28,28,28	0
56	MG	2A	3792	1/1	0.93	0.09	77,77,77,77	0
56	MG	1A	3965	1/1	0.93	0.16	74,74,74,74	0
56	MG	1A	3305	1/1	0.93	0.23	51,51,51,51	0
56	MG	1A	4048	1/1	0.93	0.17	27,27,27,27	0
56	MG	1A	3117	1/1	0.93	0.42	34,34,34,34	0
56	MG	1Z	303	1/1	0.93	0.27	57,57,57,57	0
56	MG	2A	3607	1/1	0.93	0.13	69,69,69,69	0
56	MG	1A	3622	1/1	0.93	0.14	59,59,59,59	0
56	MG	1a	1778	1/1	0.93	0.12	67,67,67,67	0
56	MG	1A	3207	1/1	0.93	0.13	59,59,59,59	0
56	MG	2a	1707	1/1	0.93	0.19	79,79,79,79	0
56	MG	2a	1708	1/1	0.93	0.10	78,78,78,78	0
56	MG	2a	1709	1/1	0.93	0.18	77,77,77,77	0
56	MG	2A	3611	1/1	0.93	0.36	40,40,40,40	0
56	MG	1a	1780	1/1	0.93	0.17	59,59,59,59	0
56	MG	1A	3631	1/1	0.93	0.16	24,24,24,24	0
56	MG	1A	3182	1/1	0.93	0.26	65,65,65,65	0
56	MG	1A	3075	1/1	0.93	0.14	30,30,30,30	0
56	MG	1A	3059	1/1	0.93	0.34	66,66,66,66	0
56	MG	1A	3035	1/1	0.93	0.25	52,52,52,52	0
56	MG	1A	3640	1/1	0.93	0.18	35,35,35,35	0
56	MG	1a	1671	1/1	0.93	0.10	68,68,68,68	0
56	MG	2A	3622	1/1	0.93	0.14	57,57,57,57	0
56	MG	1A	3534	1/1	0.93	0.28	56,56,56,56	0
56	MG	1A	3461	1/1	0.93	0.30	44,44,44,44	0
56	MG	2a	1724	1/1	0.93	0.34	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3462	1/1	0.93	0.34	58,58,58,58	0
56	MG	2a	1726	1/1	0.93	0.07	79,79,79,79	0
56	MG	2A	3627	1/1	0.93	0.17	53,53,53,53	0
56	MG	2B	213	1/1	0.93	0.24	67,67,67,67	0
56	MG	2D	301	1/1	0.93	0.63	51,51,51,51	0
56	MG	1A	3766	1/1	0.93	0.18	57,57,57,57	0
56	MG	1E	312	1/1	0.93	0.17	68,68,68,68	0
56	MG	1l	201	1/1	0.93	0.08	78,78,78,78	0
56	MG	2A	3436	1/1	0.93	0.13	44,44,44,44	0
56	MG	1l	202	1/1	0.93	0.26	67,67,67,67	0
56	MG	1A	3214	1/1	0.93	0.15	52,52,52,52	0
56	MG	2A	3636	1/1	0.93	0.12	60,60,60,60	0
56	MG	1A	3343	1/1	0.93	0.43	43,43,43,43	0
56	MG	1A	3843	1/1	0.93	0.23	24,24,24,24	0
56	MG	2A	3640	1/1	0.93	0.23	58,58,58,58	0
56	MG	1A	3844	1/1	0.93	0.19	55,55,55,55	0
56	MG	2A	3448	1/1	0.93	0.17	57,57,57,57	0
56	MG	1A	3216	1/1	0.93	0.43	42,42,42,42	0
56	MG	2a	1751	1/1	0.93	0.18	63,63,63,63	0
56	MG	2A	3452	1/1	0.93	0.09	58,58,58,58	0
56	MG	1A	3997	1/1	0.93	0.22	25,25,25,25	0
56	MG	1A	3167	1/1	0.93	0.19	38,38,38,38	0
56	MG	1A	3848	1/1	0.93	0.25	25,25,25,25	0
56	MG	1a	1686	1/1	0.93	0.20	67,67,67,67	0
56	MG	2A	3458	1/1	0.93	0.17	26,26,26,26	0
56	MG	1A	3402	1/1	0.93	0.38	47,47,47,47	0
56	MG	2a	1764	1/1	0.93	0.11	53,53,53,53	0
56	MG	2A	3108	1/1	0.93	0.28	74,74,74,74	0
56	MG	2A	3462	1/1	0.93	0.13	64,64,64,64	0
56	MG	2A	3111	1/1	0.93	0.16	51,51,51,51	0
56	MG	2W	201	1/1	0.93	0.38	69,69,69,69	0
56	MG	2A	3228	1/1	0.93	0.11	62,62,62,62	0
56	MG	2A	3660	1/1	0.93	0.11	37,37,37,37	0
56	MG	2X	101	1/1	0.93	0.22	77,77,77,77	0
56	MG	2A	3466	1/1	0.93	0.10	61,61,61,61	0
56	MG	2A	3467	1/1	0.93	0.16	47,47,47,47	0
56	MG	20	103	1/1	0.93	0.13	69,69,69,69	0
56	MG	1A	4002	1/1	0.93	0.23	42,42,42,42	0
56	MG	1I	201	1/1	0.93	0.15	67,67,67,67	0
56	MG	1A	3080	1/1	0.93	0.30	45,45,45,45	0
56	MG	1N	202	1/1	0.93	0.26	49,49,49,49	0
56	MG	1A	3589	1/1	0.93	0.18	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2a	1788	1/1	0.93	0.23	75,75,75,75	0
56	MG	1a	1606	1/1	0.93	0.33	63,63,63,63	0
56	MG	2A	3121	1/1	0.93	0.26	62,62,62,62	0
56	MG	1A	3854	1/1	0.93	0.13	58,58,58,58	0
56	MG	2a	1794	1/1	0.93	0.12	63,63,63,63	0
56	MG	2A	3674	1/1	0.93	0.22	69,69,69,69	0
56	MG	1a	1609	1/1	0.93	0.19	27,27,27,27	0
56	MG	1A	3022	1/1	0.93	0.19	47,47,47,47	0
56	MG	1A	3085	1/1	0.93	0.37	34,34,34,34	0
56	MG	2A	3241	1/1	0.93	0.35	58,58,58,58	0
56	MG	1A	3043	1/1	0.93	0.21	34,34,34,34	0
56	MG	2A	3493	1/1	0.93	0.15	37,37,37,37	0
56	MG	1A	3785	1/1	0.93	0.16	56,56,56,56	0
56	MG	2a	1804	1/1	0.93	0.20	79,79,79,79	0
56	MG	2A	3686	1/1	0.93	0.53	53,53,53,53	0
56	MG	2a	1609	1/1	0.93	0.33	77,77,77,77	0
56	MG	2A	3007	1/1	0.93	0.23	65,65,65,65	0
56	MG	1A	3112	1/1	0.93	0.25	38,38,38,38	0
56	MG	2A	3500	1/1	0.93	0.15	54,54,54,54	0
56	MG	2A	3501	1/1	0.93	0.20	41,41,41,41	0
56	MG	2A	3009	1/1	0.93	0.12	43,43,43,43	0
56	MG	2A	3351	1/1	0.93	0.30	47,47,47,47	0
56	MG	2A	3011	1/1	0.93	0.41	44,44,44,44	0
56	MG	1A	3787	1/1	0.93	0.15	56,56,56,56	0
56	MG	2A	3355	1/1	0.93	0.25	44,44,44,44	0
56	MG	1A	4016	1/1	0.93	0.27	51,51,51,51	0
56	MG	2A	3017	1/1	0.93	0.14	58,58,58,58	0
56	MG	1A	3722	1/1	0.93	0.19	57,57,57,57	0
56	MG	2A	3359	1/1	0.93	0.22	38,38,38,38	0
56	MG	2A	3140	1/1	0.93	0.20	67,67,67,67	0
56	MG	2A	3712	1/1	0.93	0.12	54,54,54,54	0
56	MG	2A	3521	1/1	0.93	0.12	62,62,62,62	0
56	MG	1a	1621	1/1	0.93	0.35	57,57,57,57	0
56	MG	2a	1628	1/1	0.93	0.24	62,62,62,62	0
56	MG	2A	3525	1/1	0.93	0.22	67,67,67,67	0
56	MG	2f	201	1/1	0.93	0.18	49,49,49,49	0
56	MG	2f	202	1/1	0.93	0.11	65,65,65,65	0
56	MG	1A	3936	1/1	0.93	0.21	58,58,58,58	0
56	MG	2A	3717	1/1	0.93	0.39	80,80,80,80	0
56	MG	1Q	207	1/1	0.93	0.26	45,45,45,45	0
56	MG	1A	3595	1/1	0.93	0.34	66,66,66,66	0
56	MG	1a	1720	1/1	0.93	0.22	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1a	1625	1/1	0.93	0.12	50,50,50,50	0
56	MG	1a	1626	1/1	0.93	0.18	67,67,67,67	0
56	MG	2A	3724	1/1	0.93	0.17	54,54,54,54	0
56	MG	2A	3368	1/1	0.93	0.33	68,68,68,68	0
56	MG	1A	3938	1/1	0.93	0.09	53,53,53,53	0
56	MG	2A	3730	1/1	0.93	0.06	80,80,80,80	0
56	MG	1a	1628	1/1	0.93	0.16	59,59,59,59	0
56	MG	2A	3036	1/1	0.93	0.43	57,57,57,57	0
56	MG	1A	3115	1/1	0.93	0.30	49,49,49,49	0
56	MG	2A	3156	1/1	0.93	0.20	57,57,57,57	0
56	MG	2A	3038	1/1	0.93	0.20	64,64,64,64	0
56	MG	1a	1731	1/1	0.93	0.13	76,76,76,76	0
56	MG	1a	1732	1/1	0.93	0.17	49,49,49,49	0
56	MG	1a	1733	1/1	0.93	0.14	54,54,54,54	0
56	MG	1a	1630	1/1	0.93	0.26	33,33,33,33	0
56	MG	1A	3667	1/1	0.93	0.22	29,29,29,29	0
58	ZN	2Y	501	1/1	0.93	0.16	88,88,88,88	0
56	MG	2A	3044	1/1	0.93	0.17	59,59,59,59	0
56	MG	2a	1656	1/1	0.93	0.15	82,82,82,82	0
56	MG	2A	3511	1/1	0.94	0.14	37,37,37,37	0
56	MG	2A	3710	1/1	0.94	0.10	64,64,64,64	0
56	MG	1S	203	1/1	0.94	0.13	73,73,73,73	0
56	MG	1A	3158	1/1	0.94	0.15	63,63,63,63	0
56	MG	1U	202	1/1	0.94	0.56	46,46,46,46	0
56	MG	2a	1644	1/1	0.94	0.45	83,83,83,83	0
56	MG	1A	3365	1/1	0.94	0.24	62,62,62,62	0
56	MG	1a	1655	1/1	0.94	0.34	53,53,53,53	0
56	MG	1A	3760	1/1	0.94	0.16	29,29,29,29	0
56	MG	1A	3577	1/1	0.94	0.26	31,31,31,31	0
56	MG	2A	3524	1/1	0.94	0.13	63,63,63,63	0
56	MG	2a	1650	1/1	0.94	0.17	62,62,62,62	0
56	MG	1A	3463	1/1	0.94	0.31	59,59,59,59	0
56	MG	1A	4011	1/1	0.94	0.12	77,77,77,77	0
56	MG	2A	3527	1/1	0.94	0.13	55,55,55,55	0
56	MG	1a	1661	1/1	0.94	0.14	65,65,65,65	0
56	MG	2A	3529	1/1	0.94	0.14	45,45,45,45	0
56	MG	2A	3726	1/1	0.94	0.22	69,69,69,69	0
56	MG	2A	3530	1/1	0.94	0.17	78,78,78,78	0
56	MG	2A	3531	1/1	0.94	0.28	73,73,73,73	0
56	MG	1A	3840	1/1	0.94	0.14	56,56,56,56	0
56	MG	1A	3841	1/1	0.94	0.18	66,66,66,66	0
56	MG	1A	3303	1/1	0.94	0.23	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	3734	1/1	0.94	0.19	59,59,59,59	0
56	MG	1A	4015	1/1	0.94	0.20	57,57,57,57	0
56	MG	1A	3122	1/1	0.94	0.35	48,48,48,48	0
56	MG	2a	1667	1/1	0.94	0.10	52,52,52,52	0
56	MG	2A	3109	1/1	0.94	0.12	73,73,73,73	0
56	MG	1A	3702	1/1	0.94	0.24	36,36,36,36	0
56	MG	1A	3442	1/1	0.94	0.27	42,42,42,42	0
56	MG	2A	3543	1/1	0.94	0.19	75,75,75,75	0
56	MG	1A	3188	1/1	0.94	0.67	41,41,41,41	0
56	MG	2A	3545	1/1	0.94	0.26	64,64,64,64	0
56	MG	2A	3745	1/1	0.94	0.13	53,53,53,53	0
56	MG	1B	214	1/1	0.94	0.19	37,37,37,37	0
56	MG	1w	103	1/1	0.94	0.16	61,61,61,61	0
56	MG	1w	104	1/1	0.94	0.21	75,75,75,75	0
56	MG	1A	3084	1/1	0.94	0.17	30,30,30,30	0
56	MG	2A	3120	1/1	0.94	0.29	66,66,66,66	0
56	MG	1B	217	1/1	0.94	0.23	55,55,55,55	0
56	MG	2A	3757	1/1	0.94	0.23	69,69,69,69	0
56	MG	2A	3758	1/1	0.94	0.20	49,49,49,49	0
56	MG	1A	3124	1/1	0.94	0.48	39,39,39,39	0
56	MG	1B	220	1/1	0.94	0.18	42,42,42,42	0
56	MG	1A	3178	1/1	0.94	0.13	40,40,40,40	0
56	MG	2A	3555	1/1	0.94	0.15	61,61,61,61	0
56	MG	10	101	1/1	0.94	0.23	48,48,48,48	0
56	MG	2A	3767	1/1	0.94	0.13	62,62,62,62	0
56	MG	2A	3128	1/1	0.94	0.45	45,45,45,45	0
56	MG	2A	3769	1/1	0.94	0.18	26,26,26,26	0
56	MG	1A	3471	1/1	0.94	0.23	54,54,54,54	0
56	MG	2A	3560	1/1	0.94	0.18	51,51,51,51	0
56	MG	2A	3382	1/1	0.94	0.28	64,64,64,64	0
56	MG	1A	3651	1/1	0.94	0.16	53,53,53,53	0
56	MG	2A	3563	1/1	0.94	0.14	33,33,33,33	0
56	MG	1A	4027	1/1	0.94	0.26	56,56,56,56	0
56	MG	2A	3776	1/1	0.94	0.14	45,45,45,45	0
56	MG	2A	3132	1/1	0.94	0.29	44,44,44,44	0
56	MG	2A	3778	1/1	0.94	0.21	63,63,63,63	0
56	MG	2A	3387	1/1	0.94	0.18	64,64,64,64	0
56	MG	1A	3711	1/1	0.94	0.15	37,37,37,37	0
56	MG	2A	3573	1/1	0.94	0.17	39,39,39,39	0
56	MG	1x	111	1/1	0.94	0.19	37,37,37,37	0
56	MG	1A	3712	1/1	0.94	0.18	53,53,53,53	0
56	MG	1A	3653	1/1	0.94	0.19	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3150	1/1	0.94	0.37	37,37,37,37	0
56	MG	11	103	1/1	0.94	0.11	47,47,47,47	0
56	MG	1B	232	1/1	0.94	0.11	58,58,58,58	0
56	MG	1A	3036	1/1	0.94	0.26	45,45,45,45	0
56	MG	2a	1719	1/1	0.94	0.18	53,53,53,53	0
56	MG	2A	3589	1/1	0.94	0.10	60,60,60,60	0
56	MG	1A	3506	1/1	0.94	0.11	76,76,76,76	0
56	MG	2A	3145	1/1	0.94	0.30	63,63,63,63	0
56	MG	1A	3449	1/1	0.94	0.34	47,47,47,47	0
56	MG	1A	3789	1/1	0.94	0.18	27,27,27,27	0
56	MG	1D	301	1/1	0.94	0.27	43,43,43,43	0
56	MG	1A	3007	1/1	0.94	0.31	47,47,47,47	0
56	MG	2A	3803	1/1	0.94	0.46	61,61,61,61	0
56	MG	2A	3804	1/1	0.94	0.12	73,73,73,73	0
56	MG	2A	3806	1/1	0.94	0.11	69,69,69,69	0
56	MG	2A	3012	1/1	0.94	0.33	46,46,46,46	0
56	MG	2A	3598	1/1	0.94	0.22	75,75,75,75	0
56	MG	2A	3405	1/1	0.94	0.40	59,59,59,59	0
56	MG	1A	3868	1/1	0.94	0.37	35,35,35,35	0
56	MG	1A	3952	1/1	0.94	0.11	69,69,69,69	0
56	MG	2a	1736	1/1	0.94	0.17	56,56,56,56	0
56	MG	2A	3016	1/1	0.94	0.28	38,38,38,38	0
56	MG	2a	1738	1/1	0.94	0.09	62,62,62,62	0
56	MG	1D	309	1/1	0.94	0.32	32,32,32,32	0
56	MG	2A	3019	1/1	0.94	0.52	51,51,51,51	0
56	MG	1a	1697	1/1	0.94	0.31	57,57,57,57	0
56	MG	1A	3119	1/1	0.94	0.60	48,48,48,48	0
56	MG	17	103	1/1	0.94	0.30	38,38,38,38	0
56	MG	2a	1744	1/1	0.94	0.18	76,76,76,76	0
56	MG	2a	1745	1/1	0.94	0.07	79,79,79,79	0
56	MG	1A	3041	1/1	0.94	0.12	37,37,37,37	0
56	MG	1E	301	1/1	0.94	0.33	34,34,34,34	0
56	MG	1A	4044	1/1	0.94	0.10	69,69,69,69	0
56	MG	18	105	1/1	0.94	0.16	52,52,52,52	0
56	MG	1E	306	1/1	0.94	0.23	37,37,37,37	0
56	MG	1A	3957	1/1	0.94	0.17	30,30,30,30	0
56	MG	1a	1710	1/1	0.94	0.19	68,68,68,68	0
56	MG	1A	3724	1/1	0.94	0.08	52,52,52,52	0
56	MG	2a	1757	1/1	0.94	0.08	51,51,51,51	0
56	MG	2A	3426	1/1	0.94	0.12	61,61,61,61	0
56	MG	1A	3336	1/1	0.94	0.14	66,66,66,66	0
56	MG	2E	304	1/1	0.94	0.14	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3664	1/1	0.94	0.13	34,34,34,34	0
56	MG	1A	3480	1/1	0.94	0.13	60,60,60,60	0
56	MG	2A	3173	1/1	0.94	0.23	67,67,67,67	0
56	MG	1E	313	1/1	0.94	0.22	30,30,30,30	0
56	MG	1A	3963	1/1	0.94	0.20	61,61,61,61	0
56	MG	1a	1608	1/1	0.94	0.22	55,55,55,55	0
56	MG	1A	3454	1/1	0.94	0.20	62,62,62,62	0
56	MG	2F	305	1/1	0.94	0.19	58,58,58,58	0
56	MG	2A	3632	1/1	0.94	0.12	66,66,66,66	0
56	MG	2a	1776	1/1	0.94	0.17	58,58,58,58	0
56	MG	2a	1779	1/1	0.94	0.24	78,78,78,78	0
56	MG	2N	201	1/1	0.94	0.14	83,83,83,83	0
56	MG	2O	201	1/1	0.94	0.22	66,66,66,66	0
56	MG	1A	3800	1/1	0.94	0.16	28,28,28,28	0
56	MG	2a	1783	1/1	0.94	0.12	60,60,60,60	0
56	MG	2Q	201	1/1	0.94	0.14	63,63,63,63	0
56	MG	1a	1611	1/1	0.94	0.26	69,69,69,69	0
56	MG	2A	3438	1/1	0.94	0.28	65,65,65,65	0
56	MG	1A	3157	1/1	0.94	0.23	45,45,45,45	0
56	MG	1A	3520	1/1	0.94	0.42	44,44,44,44	0
56	MG	1A	3887	1/1	0.94	0.18	69,69,69,69	0
56	MG	1A	3296	1/1	0.94	0.21	37,37,37,37	0
56	MG	2A	3446	1/1	0.94	0.16	68,68,68,68	0
56	MG	2A	3447	1/1	0.94	0.20	69,69,69,69	0
56	MG	1A	3805	1/1	0.94	0.40	49,49,49,49	0
56	MG	2A	3645	1/1	0.94	0.11	69,69,69,69	0
56	MG	2A	3449	1/1	0.94	0.16	46,46,46,46	0
56	MG	2A	3450	1/1	0.94	0.17	61,61,61,61	0
56	MG	1A	3484	1/1	0.94	0.45	46,46,46,46	0
56	MG	1G	202	1/1	0.94	0.17	65,65,65,65	0
56	MG	1A	3674	1/1	0.94	0.15	56,56,56,56	0
56	MG	1A	3568	1/1	0.94	0.19	72,72,72,72	0
56	MG	1A	3977	1/1	0.94	0.22	36,36,36,36	0
56	MG	2a	1806	1/1	0.94	0.22	71,71,71,71	0
56	MG	1A	3739	1/1	0.94	0.12	29,29,29,29	0
56	MG	1A	3741	1/1	0.94	0.18	60,60,60,60	0
56	MG	1N	206	1/1	0.94	0.29	61,61,61,61	0
56	MG	2A	3658	1/1	0.94	0.17	41,41,41,41	0
56	MG	25	104	1/1	0.94	0.35	53,53,53,53	0
56	MG	2A	3194	1/1	0.94	0.18	62,62,62,62	0
56	MG	1a	1746	1/1	0.94	0.13	68,68,68,68	0
56	MG	1A	3813	1/1	0.94	0.17	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3238	1/1	0.94	0.28	37,37,37,37	0
56	MG	2A	3465	1/1	0.94	0.15	45,45,45,45	0
56	MG	1A	3611	1/1	0.94	0.19	26,26,26,26	0
56	MG	2A	3064	1/1	0.94	0.19	36,36,36,36	0
56	MG	1A	3745	1/1	0.94	0.23	52,52,52,52	0
56	MG	2a	1824	1/1	0.94	0.17	72,72,72,72	0
56	MG	1a	1752	1/1	0.94	0.09	77,77,77,77	0
56	MG	1A	3985	1/1	0.94	0.12	46,46,46,46	0
56	MG	2A	3472	1/1	0.94	0.14	61,61,61,61	0
56	MG	1A	3318	1/1	0.94	0.21	61,61,61,61	0
56	MG	1a	1755	1/1	0.94	0.20	72,72,72,72	0
56	MG	1a	1756	1/1	0.94	0.13	57,57,57,57	0
56	MG	2A	3676	1/1	0.94	0.41	42,42,42,42	0
56	MG	1A	3487	1/1	0.94	0.48	48,48,48,48	0
56	MG	1Q	203	1/1	0.94	0.24	44,44,44,44	0
56	MG	2a	1614	1/1	0.94	0.19	61,61,61,61	0
56	MG	1a	1762	1/1	0.94	0.15	67,67,67,67	0
56	MG	2A	3681	1/1	0.94	0.13	58,58,58,58	0
56	MG	1a	1763	1/1	0.94	0.37	61,61,61,61	0
56	MG	2A	3487	1/1	0.94	0.18	51,51,51,51	0
56	MG	1A	3990	1/1	0.94	0.17	26,26,26,26	0
56	MG	2A	3077	1/1	0.94	0.17	63,63,63,63	0
56	MG	2A	3078	1/1	0.94	0.35	54,54,54,54	0
56	MG	1A	3823	1/1	0.94	0.23	65,65,65,65	0
56	MG	1A	3624	1/1	0.94	0.12	50,50,50,50	0
56	MG	1A	3625	1/1	0.94	0.11	33,33,33,33	0
56	MG	1A	3528	1/1	0.94	0.28	58,58,58,58	0
56	MG	1A	3753	1/1	0.94	0.20	22,22,22,22	0
56	MG	2A	3694	1/1	0.94	0.15	56,56,56,56	0
56	MG	2A	3695	1/1	0.94	0.10	69,69,69,69	0
56	MG	2A	3698	1/1	0.94	0.17	43,43,43,43	0
56	MG	1R	203	1/1	0.94	0.22	38,38,38,38	0
56	MG	2a	1631	1/1	0.94	0.24	55,55,55,55	0
56	MG	1A	3754	1/1	0.94	0.23	45,45,45,45	0
56	MG	1A	3319	1/1	0.94	0.36	45,45,45,45	0
56	MG	1A	4089	1/1	0.94	0.26	56,56,56,56	0
56	MG	1A	3633	1/1	0.94	0.17	41,41,41,41	0
56	MG	1A	4004	1/1	0.94	0.20	37,37,37,37	0
56	MG	2A	3509	1/1	0.94	0.17	34,34,34,34	0
56	MG	1A	3266	1/1	0.95	0.42	50,50,50,50	0
56	MG	2A	3220	1/1	0.95	0.47	48,48,48,48	0
56	MG	1A	4038	1/1	0.95	0.15	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3212	1/1	0.95	0.09	44,44,44,44	0
56	MG	1A	3842	1/1	0.95	0.26	49,49,49,49	0
56	MG	1A	3680	1/1	0.95	0.15	72,72,72,72	0
56	MG	1A	3149	1/1	0.95	0.37	35,35,35,35	0
56	MG	1E	315	1/1	0.95	0.32	44,44,44,44	0
56	MG	1A	3682	1/1	0.95	0.15	29,29,29,29	0
56	MG	2A	3741	1/1	0.95	0.23	45,45,45,45	0
56	MG	1A	3240	1/1	0.95	0.45	32,32,32,32	0
56	MG	1F	304	1/1	0.95	0.22	36,36,36,36	0
56	MG	1A	3944	1/1	0.95	0.18	59,59,59,59	0
56	MG	1F	307	1/1	0.95	0.32	38,38,38,38	0
56	MG	1A	3076	1/1	0.95	0.38	48,48,48,48	0
56	MG	1A	3414	1/1	0.95	0.22	66,66,66,66	0
56	MG	2A	3752	1/1	0.95	0.08	66,66,66,66	0
56	MG	1F	311	1/1	0.95	0.20	54,54,54,54	0
56	MG	1A	3010	1/1	0.95	0.16	27,27,27,27	0
56	MG	1A	3852	1/1	0.95	0.16	55,55,55,55	0
56	MG	2A	3558	1/1	0.95	0.20	51,51,51,51	0
56	MG	1A	3192	1/1	0.95	0.43	37,37,37,37	0
56	MG	1A	3379	1/1	0.95	0.30	51,51,51,51	0
56	MG	1G	203	1/1	0.95	0.10	66,66,66,66	0
56	MG	2A	3761	1/1	0.95	0.13	56,56,56,56	0
56	MG	1a	1771	1/1	0.95	0.11	81,81,81,81	0
56	MG	1A	3047	1/1	0.95	0.15	39,39,39,39	0
56	MG	2A	3765	1/1	0.95	0.12	66,66,66,66	0
56	MG	1A	3953	1/1	0.95	0.33	42,42,42,42	0
56	MG	1A	3612	1/1	0.95	0.17	32,32,32,32	0
56	MG	1A	3552	1/1	0.95	0.35	65,65,65,65	0
56	MG	1A	3615	1/1	0.95	0.24	31,31,31,31	0
56	MG	2A	3098	1/1	0.95	0.13	31,31,31,31	0
56	MG	2a	1687	1/1	0.95	0.20	40,40,40,40	0
56	MG	1A	3620	1/1	0.95	0.17	45,45,45,45	0
56	MG	2A	3579	1/1	0.95	0.26	48,48,48,48	0
56	MG	1A	3621	1/1	0.95	0.13	57,57,57,57	0
56	MG	2A	3103	1/1	0.95	0.16	41,41,41,41	0
56	MG	1A	3421	1/1	0.95	0.28	40,40,40,40	0
56	MG	1A	3274	1/1	0.95	0.19	46,46,46,46	0
56	MG	1A	3781	1/1	0.95	0.08	47,47,47,47	0
56	MG	2A	3586	1/1	0.95	0.17	69,69,69,69	0
56	MG	1A	4067	1/1	0.95	0.22	44,44,44,44	0
56	MG	1A	4068	1/1	0.95	0.27	65,65,65,65	0
56	MG	2A	3781	1/1	0.95	0.16	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1P	203	1/1	0.95	0.21	33,33,33,33	0
56	MG	2A	3403	1/1	0.95	0.65	50,50,50,50	0
56	MG	2A	3110	1/1	0.95	0.33	77,77,77,77	0
56	MG	1P	204	1/1	0.95	0.48	32,32,32,32	0
56	MG	1A	3504	1/1	0.95	0.36	50,50,50,50	0
56	MG	1Q	201	1/1	0.95	0.77	44,44,44,44	0
56	MG	2A	3408	1/1	0.95	0.15	77,77,77,77	0
56	MG	2A	3409	1/1	0.95	0.12	52,52,52,52	0
56	MG	1a	1792	1/1	0.95	0.15	64,64,64,64	0
56	MG	1A	3626	1/1	0.95	0.12	42,42,42,42	0
56	MG	1a	1796	1/1	0.95	0.12	72,72,72,72	0
56	MG	1A	3967	1/1	0.95	0.21	48,48,48,48	0
56	MG	2A	3605	1/1	0.95	0.19	73,73,73,73	0
56	MG	1A	3276	1/1	0.95	0.21	28,28,28,28	0
56	MG	1a	1651	1/1	0.95	0.16	64,64,64,64	0
56	MG	2A	3122	1/1	0.95	0.45	67,67,67,67	0
56	MG	1f	3101	1/1	0.95	0.25	55,55,55,55	0
56	MG	2A	3805	1/1	0.95	0.22	74,74,74,74	0
56	MG	1a	1652	1/1	0.95	0.26	69,69,69,69	0
56	MG	1A	3969	1/1	0.95	0.20	66,66,66,66	0
56	MG	1m	3001	1/1	0.95	0.10	56,56,56,56	0
56	MG	1A	3870	1/1	0.95	0.41	43,43,43,43	0
56	MG	2A	3423	1/1	0.95	0.51	63,63,63,63	0
56	MG	1A	3871	1/1	0.95	0.14	63,63,63,63	0
56	MG	1A	3383	1/1	0.95	0.39	46,46,46,46	0
56	MG	1A	3873	1/1	0.95	0.16	33,33,33,33	0
56	MG	1A	3632	1/1	0.95	0.14	49,49,49,49	0
56	MG	1A	3561	1/1	0.95	0.56	41,41,41,41	0
56	MG	1A	4082	1/1	0.95	0.12	52,52,52,52	0
56	MG	2A	3623	1/1	0.95	0.16	74,74,74,74	0
56	MG	1A	3876	1/1	0.95	0.18	31,31,31,31	0
56	MG	2a	1735	1/1	0.95	0.46	57,57,57,57	0
56	MG	1A	3507	1/1	0.95	0.55	35,35,35,35	0
56	MG	1S	202	1/1	0.95	0.35	60,60,60,60	0
56	MG	1A	3564	1/1	0.95	0.12	42,42,42,42	0
56	MG	2B	214	1/1	0.95	0.24	67,67,67,67	0
56	MG	2B	215	1/1	0.95	0.24	70,70,70,70	0
56	MG	1A	3979	1/1	0.95	0.21	30,30,30,30	0
56	MG	1A	3565	1/1	0.95	0.33	39,39,39,39	0
56	MG	2D	304	1/1	0.95	0.14	26,26,26,26	0
56	MG	2A	3630	1/1	0.95	0.15	35,35,35,35	0
56	MG	1A	3196	1/1	0.95	0.17	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	2a	1746	1/1	0.95	0.15	62,62,62,62	0
56	MG	2a	1747	1/1	0.95	0.14	72,72,72,72	0
56	MG	2a	1748	1/1	0.95	0.17	67,67,67,67	0
56	MG	2A	3144	1/1	0.95	0.21	62,62,62,62	0
56	MG	1A	3715	1/1	0.95	0.25	41,41,41,41	0
56	MG	2A	3441	1/1	0.95	0.22	47,47,47,47	0
56	MG	1U	205	1/1	0.95	0.42	48,48,48,48	0
56	MG	1A	3220	1/1	0.95	0.24	45,45,45,45	0
56	MG	1A	3105	1/1	0.95	0.34	38,38,38,38	0
56	MG	2E	308	1/1	0.95	0.21	49,49,49,49	0
56	MG	1A	3121	1/1	0.95	0.84	48,48,48,48	0
56	MG	1V	202	1/1	0.95	0.56	43,43,43,43	0
56	MG	2a	1759	1/1	0.95	0.15	59,59,59,59	0
56	MG	2a	1761	1/1	0.95	0.12	71,71,71,71	0
56	MG	1x	114	1/1	0.95	0.11	74,74,74,74	0
56	MG	1A	3320	1/1	0.95	0.22	51,51,51,51	0
56	MG	1A	3087	1/1	0.95	0.20	35,35,35,35	0
56	MG	2F	306	1/1	0.95	0.65	55,55,55,55	0
56	MG	2F	307	1/1	0.95	0.63	49,49,49,49	0
56	MG	2A	3644	1/1	0.95	0.20	71,71,71,71	0
56	MG	1A	3989	1/1	0.95	0.70	35,35,35,35	0
56	MG	1A	3515	1/1	0.95	0.19	74,74,74,74	0
56	MG	2A	3004	1/1	0.95	0.19	49,49,49,49	0
56	MG	1A	3723	1/1	0.95	0.17	61,61,61,61	0
56	MG	2a	1773	1/1	0.95	0.19	69,69,69,69	0
56	MG	1A	3516	1/1	0.95	0.15	82,82,82,82	0
56	MG	1X	103	1/1	0.95	0.20	48,48,48,48	0
56	MG	2A	3457	1/1	0.95	0.26	55,55,55,55	0
56	MG	1A	3996	1/1	0.95	0.19	33,33,33,33	0
56	MG	2A	3161	1/1	0.95	0.15	53,53,53,53	0
56	MG	1X	105	1/1	0.95	0.25	56,56,56,56	0
56	MG	1A	3140	1/1	0.95	0.32	43,43,43,43	0
56	MG	1A	3290	1/1	0.95	0.36	32,32,32,32	0
56	MG	1a	1687	1/1	0.95	0.23	61,61,61,61	0
56	MG	1A	3652	1/1	0.95	0.27	40,40,40,40	0
56	MG	2A	3167	1/1	0.95	0.13	62,62,62,62	0
56	MG	2a	1787	1/1	0.95	0.19	65,65,65,65	0
56	MG	1B	208	1/1	0.95	0.15	62,62,62,62	0
56	MG	2a	1789	1/1	0.95	0.27	77,77,77,77	0
56	MG	1A	3899	1/1	0.95	0.21	45,45,45,45	0
56	MG	1B	210	1/1	0.95	0.41	61,61,61,61	0
56	MG	1A	3435	1/1	0.95	0.27	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	2A	3023	1/1	0.95	0.43	51,51,51,51	0
56	MG	2A	3025	1/1	0.95	0.90	55,55,55,55	0
56	MG	1A	3159	1/1	0.95	0.34	33,33,33,33	0
56	MG	1A	3905	1/1	0.95	0.15	32,32,32,32	0
56	MG	2A	3477	1/1	0.95	0.20	68,68,68,68	0
56	MG	1A	3811	1/1	0.95	0.27	31,31,31,31	0
56	MG	2A	3479	1/1	0.95	0.18	54,54,54,54	0
56	MG	2A	3481	1/1	0.95	0.14	64,64,64,64	0
56	MG	2A	3482	1/1	0.95	0.16	42,42,42,42	0
56	MG	2A	3678	1/1	0.95	0.12	59,59,59,59	0
56	MG	28	101	1/1	0.95	0.28	61,61,61,61	0
56	MG	1B	216	1/1	0.95	0.07	68,68,68,68	0
56	MG	1A	4006	1/1	0.95	0.18	52,52,52,52	0
56	MG	2A	3323	1/1	0.95	0.20	43,43,43,43	0
56	MG	1A	3229	1/1	0.95	0.35	38,38,38,38	0
56	MG	2A	3683	1/1	0.95	0.19	66,66,66,66	0
56	MG	1a	1701	1/1	0.95	0.20	41,41,41,41	0
56	MG	1A	3141	1/1	0.95	0.17	21,21,21,21	0
56	MG	1A	3162	1/1	0.95	0.52	34,34,34,34	0
56	MG	1A	3736	1/1	0.95	0.23	24,24,24,24	0
56	MG	2A	3495	1/1	0.95	0.24	46,46,46,46	0
56	MG	1A	3911	1/1	0.95	0.07	69,69,69,69	0
56	MG	1A	3582	1/1	0.95	0.26	61,61,61,61	0
56	MG	12	101	1/1	0.95	0.16	56,56,56,56	0
56	MG	1A	3259	1/1	0.95	0.08	66,66,66,66	0
56	MG	13	102	1/1	0.95	0.28	45,45,45,45	0
56	MG	1B	228	1/1	0.95	0.10	74,74,74,74	0
56	MG	2a	1826	1/1	0.95	0.23	66,66,66,66	0
56	MG	2A	3697	1/1	0.95	0.13	47,47,47,47	0
56	MG	1A	3821	1/1	0.95	0.14	52,52,52,52	0
56	MG	1a	1714	1/1	0.95	0.13	35,35,35,35	0
56	MG	1a	1716	1/1	0.95	0.16	40,40,40,40	0
56	MG	1A	3527	1/1	0.95	0.31	48,48,48,48	0
56	MG	1A	3662	1/1	0.95	0.19	26,26,26,26	0
56	MG	2e	201	1/1	0.95	0.08	78,78,78,78	0
56	MG	1a	1719	1/1	0.95	0.10	53,53,53,53	0
56	MG	2A	3705	1/1	0.95	0.16	55,55,55,55	0
56	MG	1A	3008	1/1	0.95	0.22	27,27,27,27	0
56	MG	2A	3707	1/1	0.95	0.24	79,79,79,79	0
56	MG	1A	3826	1/1	0.95	0.09	62,62,62,62	0
56	MG	1A	3922	1/1	0.95	0.21	63,63,63,63	0
56	MG	1a	1726	1/1	0.95	0.13	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3518	1/1	0.95	0.14	43,43,43,43	0
56	MG	1A	3743	1/1	0.95	0.20	42,42,42,42	0
56	MG	1A	3081	1/1	0.95	0.25	40,40,40,40	0
56	MG	1a	1729	1/1	0.95	0.17	58,58,58,58	0
56	MG	1A	3332	1/1	0.95	0.30	58,58,58,58	0
56	MG	1A	3531	1/1	0.95	0.32	57,57,57,57	0
56	MG	1A	3831	1/1	0.95	0.10	55,55,55,55	0
56	MG	1A	3333	1/1	0.95	0.16	63,63,63,63	0
56	MG	1A	3100	1/1	0.95	0.22	53,53,53,53	0
56	MG	1A	3114	1/1	0.95	0.18	37,37,37,37	0
56	MG	1A	3931	1/1	0.95	0.06	49,49,49,49	0
56	MG	1A	3062	1/1	0.95	0.26	69,69,69,69	0
56	MG	2x	105	1/1	0.95	0.09	70,70,70,70	0
56	MG	1E	302	1/1	0.95	0.33	49,49,49,49	0
56	MG	1A	3837	1/1	0.95	0.30	62,62,62,62	0
56	MG	2A	3727	1/1	0.95	0.12	66,66,66,66	0
57	WC9	2A	3809	34/34	0.95	0.26	35,43,48,51	0
56	MG	2A	3728	1/1	0.95	0.16	62,62,62,62	0
56	MG	1A	3407	1/1	0.95	0.10	58,58,58,58	0
56	MG	1a	1742	1/1	0.95	0.12	68,68,68,68	0
56	MG	1A	3490	1/1	0.95	0.31	36,36,36,36	0
60	K	2x	101	1/1	0.95	0.67	81,81,81,81	0
56	MG	2A	3663	1/1	0.96	0.11	37,37,37,37	0
56	MG	1A	3242	1/1	0.96	0.24	50,50,50,50	0
56	MG	1A	3849	1/1	0.96	0.18	39,39,39,39	0
56	MG	1A	3502	1/1	0.96	0.22	34,34,34,34	0
56	MG	1A	3299	1/1	0.96	0.20	37,37,37,37	0
56	MG	1a	1758	1/1	0.96	0.08	70,70,70,70	0
56	MG	2A	3669	1/1	0.96	0.09	67,67,67,67	0
56	MG	1E	304	1/1	0.96	0.16	37,37,37,37	0
56	MG	1A	3417	1/1	0.96	0.17	49,49,49,49	0
56	MG	2D	302	1/1	0.96	0.52	56,56,56,56	0
56	MG	1A	3616	1/1	0.96	0.06	62,62,62,62	0
56	MG	1A	3666	1/1	0.96	0.15	29,29,29,29	0
56	MG	1a	1764	1/1	0.96	0.17	49,49,49,49	0
56	MG	1a	1658	1/1	0.96	0.17	55,55,55,55	0
56	MG	1a	1766	1/1	0.96	0.07	57,57,57,57	0
56	MG	1A	3617	1/1	0.96	0.24	34,34,34,34	0
56	MG	1A	3619	1/1	0.96	0.22	31,31,31,31	0
56	MG	1A	3275	1/1	0.96	0.59	42,42,42,42	0
56	MG	1A	3670	1/1	0.96	0.15	31,31,31,31	0
56	MG	2a	1717	1/1	0.96	0.15	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3399	1/1	0.96	0.16	25,25,25,25	0
56	MG	2A	3537	1/1	0.96	0.13	56,56,56,56	0
56	MG	1A	3301	1/1	0.96	0.23	50,50,50,50	0
56	MG	1A	3345	1/1	0.96	0.38	38,38,38,38	0
56	MG	1A	3302	1/1	0.96	0.32	64,64,64,64	0
56	MG	1A	3227	1/1	0.96	0.24	45,45,45,45	0
56	MG	2A	3688	1/1	0.96	0.31	58,58,58,58	0
56	MG	1F	301	1/1	0.96	0.31	39,39,39,39	0
56	MG	11	101	1/1	0.96	0.54	37,37,37,37	0
56	MG	1F	303	1/1	0.96	0.10	55,55,55,55	0
56	MG	1A	3244	1/1	0.96	0.29	54,54,54,54	0
56	MG	1a	1781	1/1	0.96	0.19	65,65,65,65	0
56	MG	1A	3627	1/1	0.96	0.17	22,22,22,22	0
56	MG	2A	3410	1/1	0.96	0.17	67,67,67,67	0
56	MG	2A	3696	1/1	0.96	0.24	61,61,61,61	0
56	MG	1A	3629	1/1	0.96	0.12	61,61,61,61	0
56	MG	2A	3294	1/1	0.96	0.06	68,68,68,68	0
56	MG	2R	203	1/1	0.96	0.22	50,50,50,50	0
56	MG	1F	308	1/1	0.96	0.32	34,34,34,34	0
56	MG	1A	3154	1/1	0.96	0.51	41,41,41,41	0
56	MG	1A	3740	1/1	0.96	0.27	63,63,63,63	0
56	MG	2A	3702	1/1	0.96	0.16	70,70,70,70	0
56	MG	1A	3940	1/1	0.96	0.21	58,58,58,58	0
56	MG	1A	3145	1/1	0.96	0.43	34,34,34,34	0
56	MG	1a	1790	1/1	0.96	0.12	64,64,64,64	0
56	MG	1A	3546	1/1	0.96	0.21	38,38,38,38	0
56	MG	2W	204	1/1	0.96	0.30	43,43,43,43	0
56	MG	15	101	1/1	0.96	0.29	34,34,34,34	0
56	MG	1A	3548	1/1	0.96	0.22	34,34,34,34	0
56	MG	15	104	1/1	0.96	0.45	44,44,44,44	0
56	MG	15	105	1/1	0.96	0.31	33,33,33,33	0
56	MG	2A	3711	1/1	0.96	0.15	64,64,64,64	0
56	MG	1A	3456	1/1	0.96	0.20	61,61,61,61	0
56	MG	1A	3078	1/1	0.96	0.19	30,30,30,30	0
56	MG	2A	3565	1/1	0.96	0.12	54,54,54,54	0
56	MG	2A	3566	1/1	0.96	0.18	44,44,44,44	0
56	MG	25	102	1/1	0.96	0.43	56,56,56,56	0
56	MG	1A	3946	1/1	0.96	0.22	52,52,52,52	0
56	MG	1A	3746	1/1	0.96	0.12	48,48,48,48	0
56	MG	2A	3570	1/1	0.96	0.18	37,37,37,37	0
56	MG	17	102	1/1	0.96	0.20	32,32,32,32	0
56	MG	2a	1760	1/1	0.96	0.14	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3110	1/1	0.96	0.14	38,38,38,38	0
56	MG	17	104	1/1	0.96	0.10	54,54,54,54	0
56	MG	1A	3689	1/1	0.96	0.19	47,47,47,47	0
56	MG	28	103	1/1	0.96	0.34	56,56,56,56	0
56	MG	1n	102	1/1	0.96	0.21	66,66,66,66	0
56	MG	1A	3181	1/1	0.96	0.26	55,55,55,55	0
56	MG	1A	3639	1/1	0.96	0.28	25,25,25,25	0
56	MG	1B	201	1/1	0.96	0.28	56,56,56,56	0
56	MG	1A	3331	1/1	0.96	0.35	64,64,64,64	0
56	MG	1A	3883	1/1	0.96	0.14	32,32,32,32	0
56	MG	1A	3694	1/1	0.96	0.16	61,61,61,61	0
56	MG	2A	3440	1/1	0.96	0.33	64,64,64,64	0
56	MG	1A	3489	1/1	0.96	0.67	55,55,55,55	0
56	MG	2A	3590	1/1	0.96	0.21	72,72,72,72	0
56	MG	1A	3822	1/1	0.96	0.23	52,52,52,52	0
56	MG	2a	1777	1/1	0.96	0.18	56,56,56,56	0
56	MG	1P	202	1/1	0.96	0.42	37,37,37,37	0
56	MG	2A	3444	1/1	0.96	0.14	70,70,70,70	0
56	MG	1A	3194	1/1	0.96	0.39	42,42,42,42	0
56	MG	2A	3100	1/1	0.96	0.23	81,81,81,81	0
56	MG	2A	3101	1/1	0.96	0.23	57,57,57,57	0
56	MG	1A	3522	1/1	0.96	0.69	47,47,47,47	0
56	MG	2A	3328	1/1	0.96	0.34	62,62,62,62	0
56	MG	1A	3235	1/1	0.96	0.47	37,37,37,37	0
56	MG	1A	3701	1/1	0.96	0.17	39,39,39,39	0
56	MG	2A	3601	1/1	0.96	0.18	68,68,68,68	0
56	MG	1A	3645	1/1	0.96	0.17	53,53,53,53	0
56	MG	2A	3332	1/1	0.96	0.11	71,71,71,71	0
56	MG	1A	3964	1/1	0.96	0.17	66,66,66,66	0
56	MG	2A	3749	1/1	0.96	0.10	57,57,57,57	0
56	MG	2a	1793	1/1	0.96	0.18	74,74,74,74	0
56	MG	1A	3646	1/1	0.96	0.16	39,39,39,39	0
56	MG	1A	3597	1/1	0.96	0.17	61,61,61,61	0
56	MG	1A	3014	1/1	0.96	0.14	27,27,27,27	0
56	MG	1a	1616	1/1	0.96	0.09	54,54,54,54	0
56	MG	2A	3756	1/1	0.96	0.20	73,73,73,73	0
56	MG	1A	3599	1/1	0.96	0.18	30,30,30,30	0
56	MG	1A	3436	1/1	0.96	0.33	43,43,43,43	0
56	MG	1A	3408	1/1	0.96	0.28	55,55,55,55	0
56	MG	1A	3903	1/1	0.96	0.23	38,38,38,38	0
56	MG	2A	3115	1/1	0.96	0.08	88,88,88,88	0
56	MG	2A	3116	1/1	0.96	0.09	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3763	1/1	0.96	0.16	35,35,35,35	0
56	MG	2A	3616	1/1	0.96	0.28	81,81,81,81	0
56	MG	1A	3904	1/1	0.96	0.20	31,31,31,31	0
56	MG	1B	225	1/1	0.96	0.15	57,57,57,57	0
56	MG	2A	3619	1/1	0.96	0.24	62,62,62,62	0
56	MG	2A	3468	1/1	0.96	0.17	69,69,69,69	0
56	MG	2a	1812	1/1	0.96	0.13	73,73,73,73	0
56	MG	1a	1722	1/1	0.96	0.20	54,54,54,54	0
56	MG	1R	207	1/1	0.96	0.11	53,53,53,53	0
56	MG	1A	3709	1/1	0.96	0.16	16,16,16,16	0
56	MG	1A	4047	1/1	0.96	0.10	39,39,39,39	0
56	MG	2A	3123	1/1	0.96	0.17	66,66,66,66	0
56	MG	2a	1819	1/1	0.96	0.20	65,65,65,65	0
56	MG	1A	3604	1/1	0.96	0.17	29,29,29,29	0
56	MG	1A	3113	1/1	0.96	0.51	40,40,40,40	0
56	MG	2A	3239	1/1	0.96	0.14	60,60,60,60	0
56	MG	2A	3014	1/1	0.96	0.23	49,49,49,49	0
56	MG	1A	3772	1/1	0.96	0.12	32,32,32,32	0
56	MG	1A	3384	1/1	0.96	0.52	33,33,33,33	0
56	MG	1A	3051	1/1	0.96	0.32	31,31,31,31	0
56	MG	1A	4054	1/1	0.96	0.20	17,17,17,17	0
56	MG	1A	4055	1/1	0.96	0.22	33,33,33,33	0
56	MG	2A	3783	1/1	0.96	0.08	61,61,61,61	0
56	MG	2A	3786	1/1	0.96	0.12	77,77,77,77	0
56	MG	2a	1660	1/1	0.96	0.17	59,59,59,59	0
56	MG	2A	3787	1/1	0.96	0.26	65,65,65,65	0
56	MG	1U	206	1/1	0.96	0.36	43,43,43,43	0
56	MG	1A	3009	1/1	0.96	0.19	25,25,25,25	0
56	MG	2A	3637	1/1	0.96	0.24	74,74,74,74	0
56	MG	2A	3488	1/1	0.96	0.12	51,51,51,51	0
56	MG	2l	203	1/1	0.96	0.52	74,74,74,74	0
56	MG	2A	3024	1/1	0.96	0.15	38,38,38,38	0
56	MG	1a	1635	1/1	0.96	0.16	68,68,68,68	0
56	MG	2A	3491	1/1	0.96	0.15	39,39,39,39	0
56	MG	1U	208	1/1	0.96	0.60	42,42,42,42	0
56	MG	1A	4057	1/1	0.96	0.21	25,25,25,25	0
56	MG	1A	3095	1/1	0.96	0.30	46,46,46,46	0
56	MG	2A	3253	1/1	0.96	0.67	52,52,52,52	0
56	MG	2A	3799	1/1	0.96	0.16	54,54,54,54	0
56	MG	2A	3646	1/1	0.96	0.32	61,61,61,61	0
56	MG	2A	3029	1/1	0.96	0.15	44,44,44,44	0
56	MG	1D	302	1/1	0.96	0.29	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	1V	203	1/1	0.96	0.58	35,35,35,35	0
56	MG	2A	3142	1/1	0.96	0.28	42,42,42,42	0
56	MG	1A	3659	1/1	0.96	0.19	40,40,40,40	0
56	MG	1A	3778	1/1	0.96	0.15	69,69,69,69	0
56	MG	2A	3034	1/1	0.96	0.20	27,27,27,27	0
56	MG	2x	106	1/1	0.96	0.21	51,51,51,51	0
56	MG	1D	307	1/1	0.96	0.39	52,52,52,52	0
56	MG	1A	3780	1/1	0.96	0.12	36,36,36,36	0
56	MG	1A	3297	1/1	0.96	0.41	52,52,52,52	0
56	MG	1W	204	1/1	0.96	0.25	55,55,55,55	0
56	MG	2A	3512	1/1	0.96	0.14	64,64,64,64	0
56	MG	1X	101	1/1	0.96	0.51	46,46,46,46	0
56	MG	1A	3918	1/1	0.96	0.19	47,47,47,47	0
58	ZN	29	501	1/1	0.96	0.13	76,76,76,76	0
56	MG	2a	1693	1/1	0.96	0.21	72,72,72,72	0
60	K	1x	101	1/1	0.96	0.66	75,75,75,75	0
56	MG	2A	3515	1/1	0.96	0.13	69,69,69,69	0
56	MG	10	103	1/1	0.97	0.33	49,49,49,49	0
56	MG	1a	1757	1/1	0.97	0.09	75,75,75,75	0
56	MG	1A	3636	1/1	0.97	0.18	17,17,17,17	0
56	MG	1a	1759	1/1	0.97	0.18	46,46,46,46	0
56	MG	1A	3592	1/1	0.97	0.58	43,43,43,43	0
56	MG	1A	3441	1/1	0.97	0.35	39,39,39,39	0
56	MG	2A	3045	1/1	0.97	0.16	37,37,37,37	0
56	MG	10	107	1/1	0.97	0.10	41,41,41,41	0
56	MG	2A	3497	1/1	0.97	0.15	43,43,43,43	0
56	MG	1A	4081	1/1	0.97	0.09	37,37,37,37	0
56	MG	1A	3284	1/1	0.97	0.10	35,35,35,35	0
56	MG	1A	3203	1/1	0.97	0.15	25,25,25,25	0
56	MG	1A	3228	1/1	0.97	0.48	40,40,40,40	0
56	MG	1A	3030	1/1	0.97	0.28	32,32,32,32	0
56	MG	1A	3866	1/1	0.97	0.20	39,39,39,39	0
56	MG	1A	3346	1/1	0.97	0.30	43,43,43,43	0
56	MG	1a	1770	1/1	0.97	0.14	47,47,47,47	0
56	MG	1A	3556	1/1	0.97	0.31	35,35,35,35	0
56	MG	2A	3508	1/1	0.97	0.15	41,41,41,41	0
56	MG	1A	3518	1/1	0.97	0.12	56,56,56,56	0
56	MG	2A	3510	1/1	0.97	0.18	47,47,47,47	0
56	MG	1A	3066	1/1	0.97	0.28	37,37,37,37	0
56	MG	1A	3748	1/1	0.97	0.14	26,26,26,26	0
56	MG	1A	3647	1/1	0.97	0.08	45,45,45,45	0
56	MG	2A	3170	1/1	0.97	0.23	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3602	1/1	0.97	0.23	31,31,31,31	0
56	MG	1a	1777	1/1	0.97	0.16	69,69,69,69	0
56	MG	1A	3699	1/1	0.97	0.17	28,28,28,28	0
56	MG	2a	1758	1/1	0.97	0.22	60,60,60,60	0
56	MG	1A	3603	1/1	0.97	0.20	44,44,44,44	0
56	MG	1A	3378	1/1	0.97	0.30	24,24,24,24	0
56	MG	1A	4020	1/1	0.97	0.15	26,26,26,26	0
56	MG	15	106	1/1	0.97	0.30	40,40,40,40	0
56	MG	2A	3523	1/1	0.97	0.17	26,26,26,26	0
56	MG	1N	204	1/1	0.97	0.20	40,40,40,40	0
56	MG	1N	205	1/1	0.97	0.62	54,54,54,54	0
56	MG	2A	3785	1/1	0.97	0.15	57,57,57,57	0
56	MG	1a	1681	1/1	0.97	0.24	55,55,55,55	0
56	MG	2a	1632	1/1	0.97	0.31	56,56,56,56	0
56	MG	1A	4021	1/1	0.97	0.15	49,49,49,49	0
56	MG	1A	3289	1/1	0.97	0.12	57,57,57,57	0
56	MG	1A	3057	1/1	0.97	0.20	26,26,26,26	0
56	MG	1A	3880	1/1	0.97	0.18	51,51,51,51	0
56	MG	1A	3819	1/1	0.97	0.10	40,40,40,40	0
56	MG	1B	206	1/1	0.97	0.19	47,47,47,47	0
56	MG	1A	3013	1/1	0.97	0.24	30,30,30,30	0
56	MG	2A	3535	1/1	0.97	0.09	42,42,42,42	0
56	MG	2a	1778	1/1	0.97	0.21	67,67,67,67	0
56	MG	1a	1795	1/1	0.97	0.39	55,55,55,55	0
56	MG	18	102	1/1	0.97	0.67	53,53,53,53	0
56	MG	1A	3757	1/1	0.97	0.12	40,40,40,40	0
56	MG	1A	3884	1/1	0.97	0.20	26,26,26,26	0
56	MG	1A	3032	1/1	0.97	0.46	31,31,31,31	0
56	MG	1A	3954	1/1	0.97	0.12	52,52,52,52	0
56	MG	1A	3886	1/1	0.97	0.15	21,21,21,21	0
56	MG	1B	213	1/1	0.97	0.28	67,67,67,67	0
56	MG	1A	3352	1/1	0.97	0.14	43,43,43,43	0
56	MG	1A	3134	1/1	0.97	0.41	42,42,42,42	0
56	MG	1A	4035	1/1	0.97	0.17	39,39,39,39	0
56	MG	1a	1699	1/1	0.97	0.20	45,45,45,45	0
56	MG	1a	1700	1/1	0.97	0.17	49,49,49,49	0
56	MG	1t	201	1/1	0.97	0.15	64,64,64,64	0
56	MG	1A	3083	1/1	0.97	0.21	40,40,40,40	0
56	MG	1A	3386	1/1	0.97	0.25	31,31,31,31	0
56	MG	1A	3211	1/1	0.97	0.25	36,36,36,36	0
56	MG	1A	3190	1/1	0.97	0.40	41,41,41,41	0
56	MG	1A	3894	1/1	0.97	0.11	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	1A	3044	1/1	0.97	0.22	48,48,48,48	0
56	MG	1B	224	1/1	0.97	0.19	59,59,59,59	0
56	MG	1A	3045	1/1	0.97	0.16	40,40,40,40	0
56	MG	1A	3618	1/1	0.97	0.14	34,34,34,34	0
56	MG	1A	3769	1/1	0.97	0.10	35,35,35,35	0
56	MG	2A	3435	1/1	0.97	0.18	74,74,74,74	0
56	MG	1A	3193	1/1	0.97	0.66	36,36,36,36	0
56	MG	2A	3214	1/1	0.97	0.34	48,48,48,48	0
56	MG	1A	3900	1/1	0.97	0.12	53,53,53,53	0
56	MG	1a	1715	1/1	0.97	0.22	40,40,40,40	0
56	MG	1A	3834	1/1	0.97	0.19	39,39,39,39	0
56	MG	1T	202	1/1	0.97	0.16	69,69,69,69	0
56	MG	1U	201	1/1	0.97	0.30	34,34,34,34	0
56	MG	2A	3569	1/1	0.97	0.23	65,65,65,65	0
56	MG	1A	3716	1/1	0.97	0.19	26,26,26,26	0
56	MG	1A	3241	1/1	0.97	0.95	43,43,43,43	0
56	MG	1A	3097	1/1	0.97	0.24	22,22,22,22	0
56	MG	1A	3174	1/1	0.97	0.54	39,39,39,39	0
56	MG	2E	303	1/1	0.97	0.13	64,64,64,64	0
56	MG	2a	1818	1/1	0.97	0.20	64,64,64,64	0
56	MG	2A	3575	1/1	0.97	0.16	50,50,50,50	0
56	MG	1a	1723	1/1	0.97	0.14	41,41,41,41	0
56	MG	2A	3577	1/1	0.97	0.12	49,49,49,49	0
56	MG	1a	1724	1/1	0.97	0.16	39,39,39,39	0
56	MG	2a	1823	1/1	0.97	0.30	62,62,62,62	0
56	MG	1A	4052	1/1	0.97	0.18	43,43,43,43	0
56	MG	1A	3395	1/1	0.97	0.33	37,37,37,37	0
56	MG	2A	3006	1/1	0.97	0.19	38,38,38,38	0
56	MG	1A	3109	1/1	0.97	0.45	37,37,37,37	0
56	MG	1A	3012	1/1	0.97	0.15	30,30,30,30	0
56	MG	1A	3125	1/1	0.97	0.27	34,34,34,34	0
56	MG	2A	3587	1/1	0.97	0.36	45,45,45,45	0
56	MG	2A	3010	1/1	0.97	0.11	40,40,40,40	0
56	MG	1A	3628	1/1	0.97	0.19	23,23,23,23	0
56	MG	1A	3222	1/1	0.97	0.34	40,40,40,40	0
56	MG	2a	1697	1/1	0.97	0.08	74,74,74,74	0
56	MG	1A	3726	1/1	0.97	0.17	25,25,25,25	0
56	MG	1A	3199	1/1	0.97	0.24	19,19,19,19	0
56	MG	1A	3847	1/1	0.97	0.19	22,22,22,22	0
56	MG	2A	3461	1/1	0.97	0.11	47,47,47,47	0
56	MG	2a	1702	1/1	0.97	0.15	67,67,67,67	0
56	MG	1A	3161	1/1	0.97	0.45	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3677	1/1	0.97	0.21	29,29,29,29	0
56	MG	1A	3917	1/1	0.97	0.18	54,54,54,54	0
56	MG	2a	1706	1/1	0.97	0.13	76,76,76,76	0
56	MG	1A	3730	1/1	0.97	0.13	55,55,55,55	0
56	MG	1a	1739	1/1	0.97	0.12	52,52,52,52	0
56	MG	2A	3022	1/1	0.97	0.49	67,67,67,67	0
56	MG	2A	3354	1/1	0.97	0.37	54,54,54,54	0
56	MG	2U	201	1/1	0.97	0.79	59,59,59,59	0
56	MG	1A	3472	1/1	0.97	0.24	45,45,45,45	0
56	MG	1E	305	1/1	0.97	0.32	34,34,34,34	0
56	MG	1A	3790	1/1	0.97	0.19	31,31,31,31	0
56	MG	1A	3921	1/1	0.97	0.18	15,15,15,15	0
56	MG	1A	3994	1/1	0.97	0.13	75,75,75,75	0
56	MG	1a	1646	1/1	0.97	0.14	56,56,56,56	0
56	MG	1A	3732	1/1	0.97	0.06	65,65,65,65	0
56	MG	1A	3679	1/1	0.97	0.20	30,30,30,30	0
56	MG	1A	3277	1/1	0.97	0.25	38,38,38,38	0
56	MG	20	102	1/1	0.97	0.15	61,61,61,61	0
57	WC9	1A	4098	34/34	0.97	0.26	22,27,32,33	0
56	MG	1Y	203	1/1	0.97	0.81	53,53,53,53	0
58	ZN	1Y	204	1/1	0.97	0.19	63,63,63,63	0
56	MG	1a	1750	1/1	0.97	0.06	72,72,72,72	0
56	MG	1A	3021	1/1	0.97	0.22	26,26,26,26	0
56	MG	1A	3127	1/1	0.97	0.77	41,41,41,41	0
56	MG	1A	4000	1/1	0.97	0.16	31,31,31,31	0
56	MG	2A	3485	1/1	0.97	0.21	50,50,50,50	0
56	MG	1E	316	1/1	0.97	0.23	57,57,57,57	0
56	MG	1A	3858	1/1	0.97	0.20	27,27,27,27	0
56	MG	2A	3647	1/1	0.98	0.15	37,37,37,37	0
56	MG	1A	3177	1/1	0.98	0.22	21,21,21,21	0
56	MG	1A	4069	1/1	0.98	0.33	57,57,57,57	0
56	MG	1A	3672	1/1	0.98	0.19	27,27,27,27	0
56	MG	1a	1605	1/1	0.98	0.22	53,53,53,53	0
56	MG	2A	3574	1/1	0.98	0.27	58,58,58,58	0
56	MG	1a	1794	1/1	0.98	0.28	68,68,68,68	0
56	MG	1A	3788	1/1	0.98	0.19	23,23,23,23	0
56	MG	1A	3571	1/1	0.98	0.19	46,46,46,46	0
56	MG	2A	3578	1/1	0.98	0.10	48,48,48,48	0
56	MG	1A	3510	1/1	0.98	0.55	46,46,46,46	0
56	MG	1A	3118	1/1	0.98	0.33	42,42,42,42	0
56	MG	1A	3215	1/1	0.98	0.42	45,45,45,45	0
56	MG	2A	3507	1/1	0.98	0.16	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2A	3583	1/1	0.98	0.18	36,36,36,36	0
56	MG	2a	1796	1/1	0.98	0.22	67,67,67,67	0
56	MG	1A	3067	1/1	0.98	0.17	33,33,33,33	0
56	MG	1A	3146	1/1	0.98	0.29	38,38,38,38	0
56	MG	2A	3743	1/1	0.98	0.20	39,39,39,39	0
56	MG	1A	3278	1/1	0.98	0.71	43,43,43,43	0
56	MG	1A	3544	1/1	0.98	0.28	33,33,33,33	0
56	MG	1a	1615	1/1	0.98	0.08	43,43,43,43	0
56	MG	1A	3279	1/1	0.98	0.26	31,31,31,31	0
56	MG	1A	3798	1/1	0.98	0.19	25,25,25,25	0
56	MG	1A	4032	1/1	0.98	0.24	30,30,30,30	0
56	MG	2A	3750	1/1	0.98	0.23	45,45,45,45	0
56	MG	1A	3280	1/1	0.98	0.58	39,39,39,39	0
56	MG	1A	3614	1/1	0.98	0.23	36,36,36,36	0
56	MG	1A	3891	1/1	0.98	0.20	31,31,31,31	0
56	MG	2A	3519	1/1	0.98	0.23	43,43,43,43	0
56	MG	1P	201	1/1	0.98	0.64	39,39,39,39	0
56	MG	1D	305	1/1	0.98	0.35	35,35,35,35	0
56	MG	1A	3801	1/1	0.98	0.38	30,30,30,30	0
56	MG	1A	3060	1/1	0.98	0.32	30,30,30,30	0
56	MG	1A	3048	1/1	0.98	0.16	34,34,34,34	0
56	MG	2A	3386	1/1	0.98	0.36	69,69,69,69	0
56	MG	1A	3283	1/1	0.98	0.27	48,48,48,48	0
56	MG	1Q	202	1/1	0.98	0.26	34,34,34,34	0
56	MG	1A	3070	1/1	0.98	0.22	14,14,14,14	0
56	MG	1A	3992	1/1	0.98	0.07	66,66,66,66	0
56	MG	1A	3688	1/1	0.98	0.23	34,34,34,34	0
56	MG	1A	3135	1/1	0.98	0.17	45,45,45,45	0
56	MG	1A	3037	1/1	0.98	0.18	25,25,25,25	0
56	MG	2Q	202	1/1	0.98	0.26	54,54,54,54	0
56	MG	1A	3137	1/1	0.98	0.39	31,31,31,31	0
56	MG	2A	3534	1/1	0.98	0.16	33,33,33,33	0
56	MG	1A	3039	1/1	0.98	0.73	38,38,38,38	0
56	MG	1A	3768	1/1	0.98	0.18	27,27,27,27	0
56	MG	1A	3812	1/1	0.98	0.10	50,50,50,50	0
56	MG	1E	308	1/1	0.98	0.17	30,30,30,30	0
56	MG	1A	3693	1/1	0.98	0.26	23,23,23,23	0
56	MG	1A	3623	1/1	0.98	0.21	25,25,25,25	0
56	MG	1A	3023	1/1	0.98	0.20	16,16,16,16	0
56	MG	15	102	1/1	0.98	0.46	37,37,37,37	0
56	MG	1A	3265	1/1	0.98	0.29	43,43,43,43	0
56	MG	2a	1661	1/1	0.98	0.16	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	2l	201	1/1	0.98	0.33	72,72,72,72	0
56	MG	1A	3558	1/1	0.98	0.54	46,46,46,46	0
56	MG	1A	3033	1/1	0.98	0.41	35,35,35,35	0
56	MG	2W	203	1/1	0.98	0.23	72,72,72,72	0
56	MG	1A	3560	1/1	0.98	0.33	37,37,37,37	0
56	MG	1A	3156	1/1	0.98	0.45	39,39,39,39	0
56	MG	2A	3784	1/1	0.98	0.09	60,60,60,60	0
56	MG	1a	1709	1/1	0.98	0.18	61,61,61,61	0
56	MG	2A	3476	1/1	0.98	0.15	33,33,33,33	0
56	MG	2A	3143	1/1	0.98	0.22	41,41,41,41	0
56	MG	1A	3420	1/1	0.98	0.28	38,38,38,38	0
56	MG	1a	1711	1/1	0.98	0.21	55,55,55,55	0
56	MG	2A	3480	1/1	0.98	0.18	60,60,60,60	0
56	MG	1A	3867	1/1	0.98	0.31	39,39,39,39	0
56	MG	1A	3042	1/1	0.98	0.50	34,34,34,34	0
56	MG	1F	302	1/1	0.98	0.28	34,34,34,34	0
56	MG	1A	3961	1/1	0.98	0.13	55,55,55,55	0
56	MG	2a	1765	1/1	0.98	0.11	80,80,80,80	0
56	MG	1A	3779	1/1	0.98	0.20	47,47,47,47	0
56	MG	1A	3128	1/1	0.98	0.25	38,38,38,38	0
56	MG	2a	1680	1/1	0.98	0.21	55,55,55,55	0
56	MG	1F	306	1/1	0.98	0.21	44,44,44,44	0
56	MG	1A	3175	1/1	0.98	0.19	36,36,36,36	0
56	MG	2a	1683	1/1	0.98	0.16	53,53,53,53	0
56	MG	18	103	1/1	0.98	0.40	46,46,46,46	0
56	MG	1A	3424	1/1	0.98	0.31	52,52,52,52	0
56	MG	2A	3564	1/1	0.98	0.11	63,63,63,63	0
58	ZN	1n	103	1/1	0.98	0.17	68,68,68,68	0
56	MG	1A	3783	1/1	0.98	0.22	23,23,23,23	0
56	MG	1B	219	1/1	0.98	0.31	52,52,52,52	0
58	ZN	25	105	1/1	0.98	0.23	60,60,60,60	0
58	ZN	26	501	1/1	0.98	0.20	60,60,60,60	0
56	MG	1a	1787	1/1	0.98	0.28	62,62,62,62	0
56	MG	2A	3723	1/1	0.98	0.18	41,41,41,41	0
56	MG	1A	3096	1/1	0.98	0.13	37,37,37,37	0
56	MG	1A	3251	1/1	0.98	0.17	52,52,52,52	0
56	MG	1W	202	1/1	0.99	0.43	37,37,37,37	0
56	MG	1A	3988	1/1	0.99	0.19	18,18,18,18	0
56	MG	1A	3073	1/1	0.99	0.18	14,14,14,14	0
56	MG	1A	3585	1/1	0.99	0.18	12,12,12,12	0
56	MG	1A	3991	1/1	0.99	0.15	36,36,36,36	0
56	MG	1D	303	1/1	0.99	0.20	18,18,18,18	0

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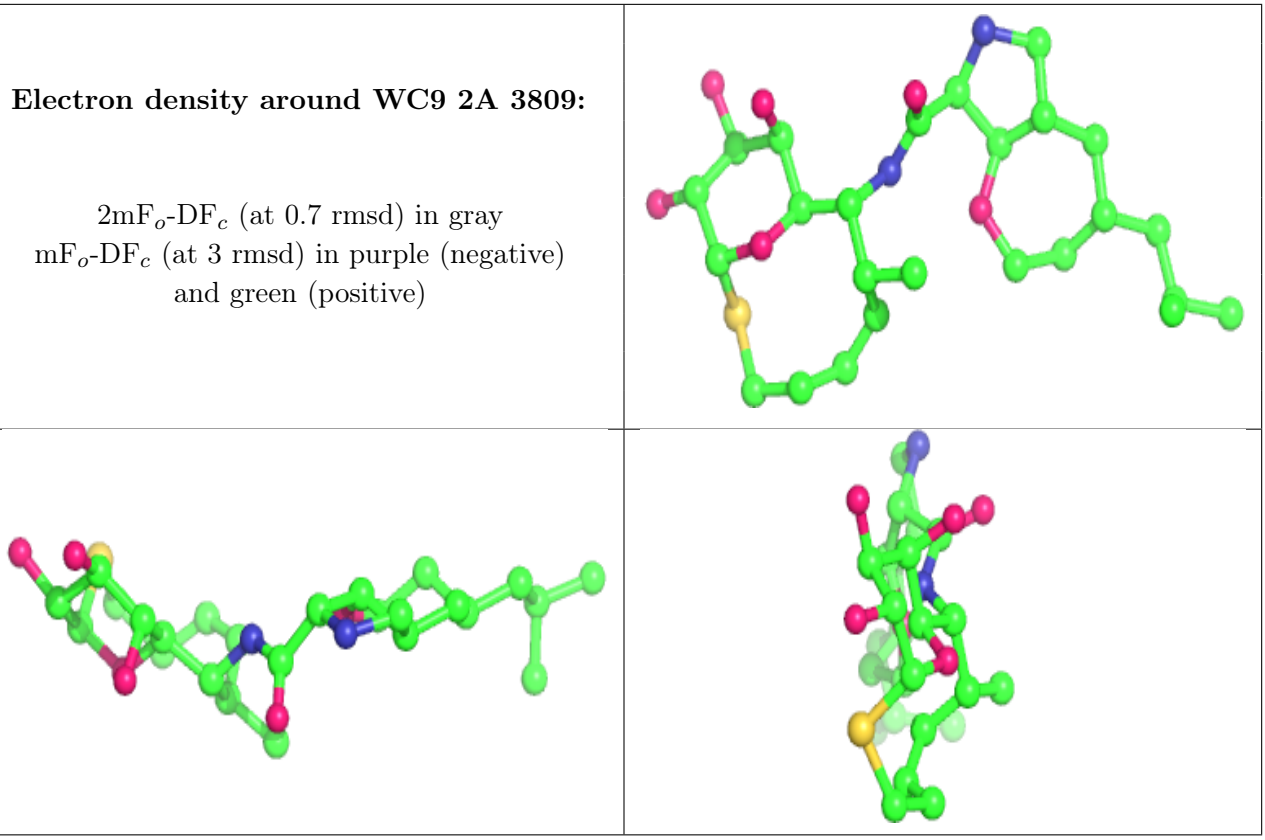
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	1A	3429	1/1	0.99	0.54	43,43,43,43	0
56	MG	2A	3751	1/1	0.99	0.17	43,43,43,43	0
56	MG	1A	3562	1/1	0.99	0.20	41,41,41,41	0
56	MG	1A	3003	1/1	0.99	0.16	22,22,22,22	0
56	MG	2A	3018	1/1	0.99	0.18	29,29,29,29	0
56	MG	2A	3670	1/1	0.99	0.16	43,43,43,43	0
56	MG	1A	3111	1/1	0.99	0.23	30,30,30,30	0
56	MG	2A	3186	1/1	0.99	0.16	65,65,65,65	0
56	MG	1A	3034	1/1	0.99	0.38	35,35,35,35	0
56	MG	1A	3342	1/1	0.99	0.80	40,40,40,40	0
56	MG	13	101	1/1	0.99	0.16	38,38,38,38	0
56	MG	1y	101	1/1	0.99	0.28	43,43,43,43	0
56	MG	1V	201	1/1	0.99	0.55	33,33,33,33	0
56	MG	1A	3038	1/1	0.99	0.26	33,33,33,33	0
56	MG	1A	3815	1/1	0.99	0.21	27,27,27,27	0
58	ZN	15	109	1/1	0.99	0.21	45,45,45,45	0
58	ZN	16	102	1/1	0.99	0.22	43,43,43,43	0
58	ZN	19	102	1/1	0.99	0.24	46,46,46,46	0
56	MG	2a	1684	1/1	0.99	0.34	68,68,68,68	0
56	MG	2A	3494	1/1	0.99	0.17	32,32,32,32	0
56	MG	2A	3073	1/1	0.99	0.20	35,35,35,35	0
56	MG	1V	204	1/1	0.99	0.31	32,32,32,32	0
56	MG	1A	3071	1/1	0.99	0.24	29,29,29,29	0
56	MG	1A	3304	1/1	0.99	0.20	33,33,33,33	0
56	MG	2A	3603	1/1	0.99	0.14	42,42,42,42	0
59	SF4	1d	302	8/8	0.99	0.17	64,70,73,76	0
59	SF4	2d	303	8/8	0.99	0.17	64,66,74,76	0
56	MG	1A	3547	1/1	0.99	0.24	35,35,35,35	0
56	MG	1A	3028	1/1	0.99	0.41	36,36,36,36	0
56	MG	1A	3697	1/1	1.00	0.19	15,15,15,15	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

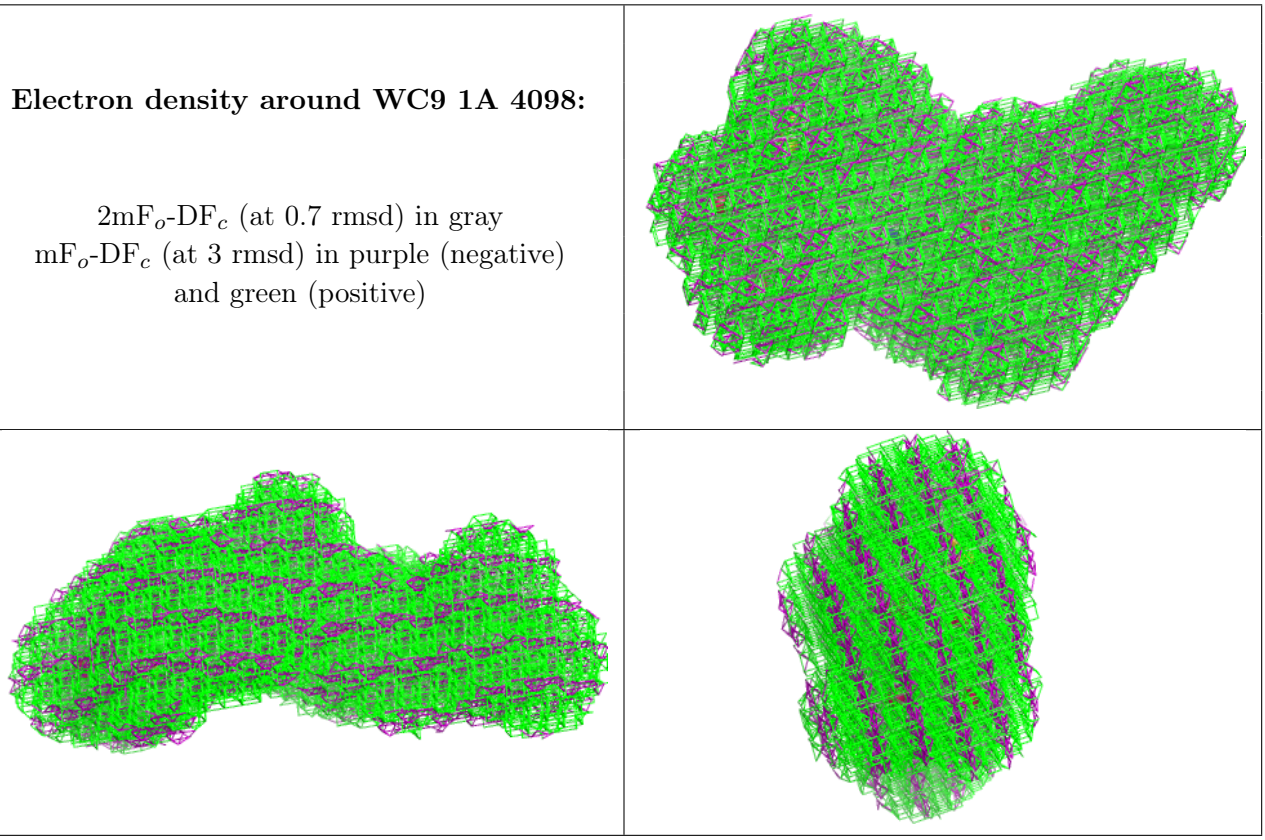
Electron density around WC9 2A 3809:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



Electron density around WC9 1A 4098:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.