



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 5, 2023 – 07:08 AM EST

PDB ID : 6ND5
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with chloramphenicol and bound to mRNA and A-, P-, and E-site tRNAs at 2.60Å resolution
Authors : Svetlov, M.S.; Plessa, E.; Chen, C.-W.; Bougas, A.; Krokidis, M.G.; Dinos, G.P.; Polikanov, Y.S.
Deposited on : 2018-12-13
Resolution : 2.60 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

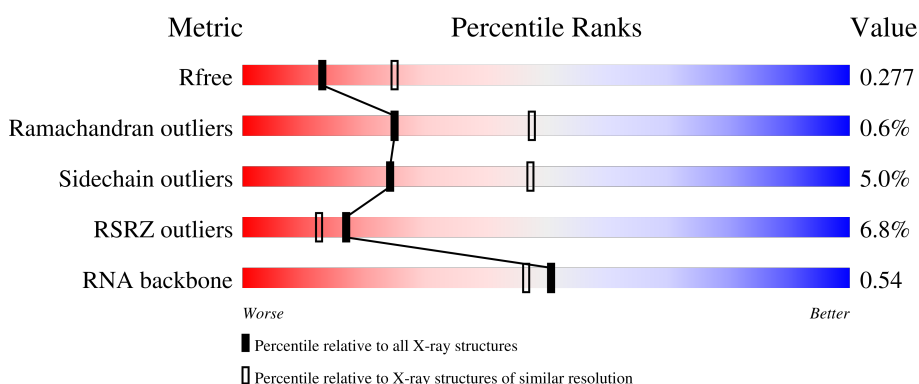
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	3163 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)
RNA backbone	3102	1040 (2.90-2.30)

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

Mol	Chain	Length	Quality of chain
1	1A	2915	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 2px;"></div> <div style="width: 82%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 16%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center; margin: 0;">2% 82% 16% •</p>
1	2A	2915	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 2px;"></div> <div style="width: 79%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 17%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center; margin: 0;">2% 79% 17% •</p>
2	1B	121	<div style="display: flex; align-items: center;"> <div style="width: 89%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 9%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center; margin: 0;">89% 9% ••</p>
2	2B	121	<div style="display: flex; align-items: center;"> <div style="width: 70%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 29%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center; margin: 0;">70% 29% •</p>
3	1D	276	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 2px;"></div> <div style="width: 94%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 6%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 2%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center; margin: 0;">2% 94% 6% •</p>

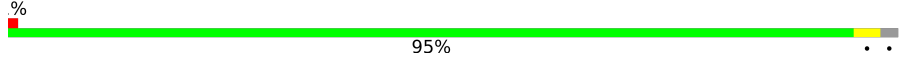
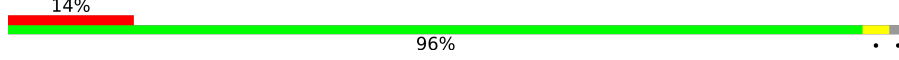
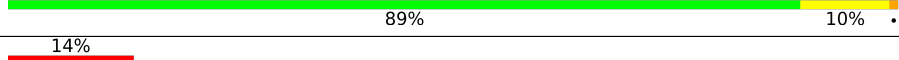
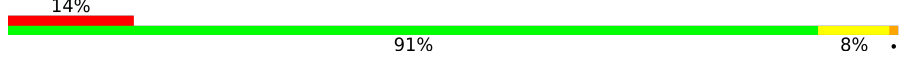
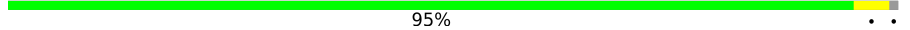
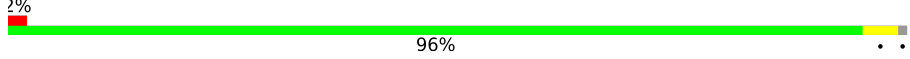
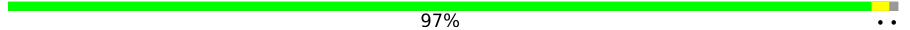
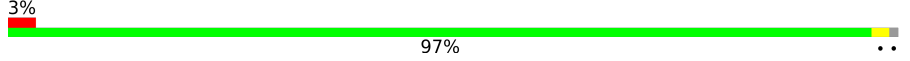

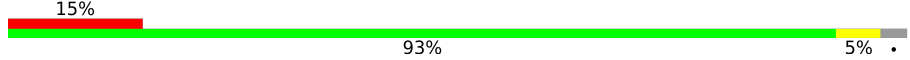

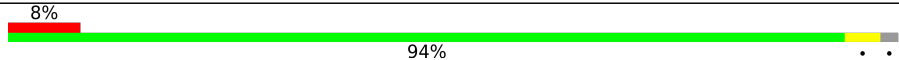
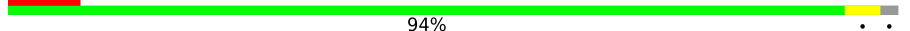
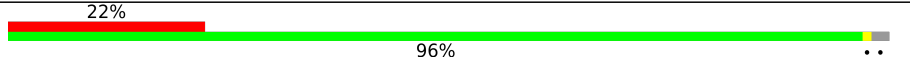
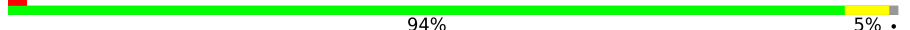
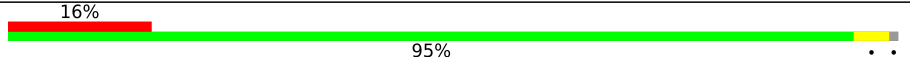
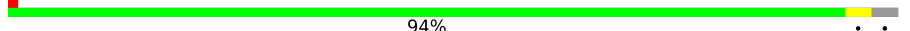
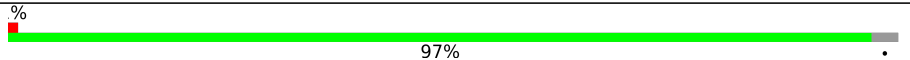
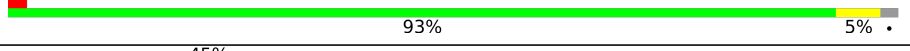
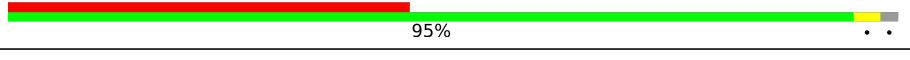

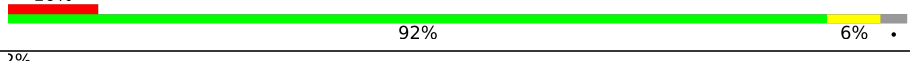
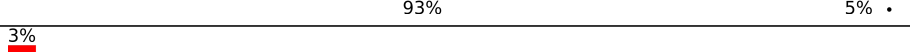
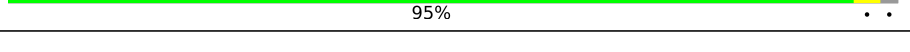
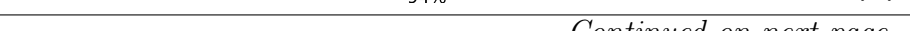
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Mol	Chain	Length	Quality of chain
3	2D	276	4% 94% 5%
4	1E	206	% 92% 7%
4	2E	206	3% 95%
5	1F	210	90% 7%
5	2F	210	3% 90% 7%
6	1G	182	% 96%
6	2G	182	13% 91% 8%
7	1H	180	92%
7	2H	180	26% 93%
8	1I	148	% 95%
8	2I	148	7% 93% 6%
9	1N	140	% 95% 5%
9	2N	140	21% 97%
10	1O	122	98%
10	2O	122	4% 98%
11	1P	150	3% 96%
11	2P	150	30% 97%
12	1Q	141	% 96%
12	2Q	141	11% 98%
13	1R	118	91% 9%
13	2R	118	91% 9%
14	1S	112	95% %
14	2S	112	9% 97%
15	1T	146	87% 10%
15	2T	146	3% 88% 10%

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Mol	Chain	Length	Quality of chain
16	1U	118	 95%
16	2U	118	 96%
17	1V	101	 89%
17	2V	101	 91%
18	1W	113	 95%
18	2W	113	 96%
19	1X	96	 97%
19	2X	96	 97%
20	1Y	110	 92%
20	2Y	110	 93%
21	1Z	206	 71%
21	2Z	206	 77%
22	10	85	 94%
22	20	85	 96%
23	11	98	 94%
23	21	98	 95%
24	12	72	 94%
24	22	72	 97%
25	13	60	 93%
25	23	60	 95%
26	14	71	 83%
26	24	71	 92%
27	15	60	 93%
27	25	60	 95%
28	16	54	 94%

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Mol	Chain	Length	Quality of chain
28	26	54	19% 94% ..
29	17	49	6% 88% 10% .
29	27	49	14% 88% 10% .
30	18	65	3% 92% 6% .
30	28	65	26% 95% ..
31	19	37	97% .
31	29	37	30% 95% 5%
32	1a	1521	2% 82% 16% .
32	2a	1521	3% 79% 19% .
33	1b	256	3% 85% 5% 10%
33	2b	256	25% 85% 5% 10%
34	1c	239	15% 84% 14%
34	2c	239	38% 83% 14%
35	1d	209	6% 93% 6%
35	2d	209	% 94% 6%
36	1e	162	2% 88% 9%
36	2e	162	12% 90% 9%
37	1f	101	94% 5% .
37	2f	101	2% 96% ..
38	1g	156	12% 95% ..
38	2g	156	21% 96% ..
39	1h	138	4% 95% ..
39	2h	138	8% 95% ..
40	1i	128	8% 97% ..
40	2i	128	44% 95% ..

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Mol	Chain	Length	Quality of chain
41	1j	105	14% 86% 7% 8%
41	2j	105	46% 82% 10% 9%
42	1k	129	13% 85% 12%
42	2k	129	17% 86% 12%
43	1l	132	2% 88% 5% 8%
43	2l	132	9% 89% 8%
44	1m	126	4% 96% ..
44	2m	126	34% 92% 5% .
45	1n	61	20% 90% 8% .
45	2n	61	72% 90% 8% .
46	1o	89	2% 98% ..
46	2o	89	4% 98% ..
47	1p	88	6% 90% 7%
47	2p	88	89% 5% 7%
48	1q	105	2% 90% 5% 6%
48	2q	105	16% 93% 6%
49	1r	88	7% 74% 23%
49	2r	88	7% 73% 5% 23%
50	1s	93	88% 11%
50	2s	93	29% 83% 6% 11%
51	1t	106	6% 84% 7% 9%
51	2t	106	10% 88% 9%
52	1u	27	11% 81% 15%
52	2u	27	41% 85% 15%
53	1v	24	21% 46% 8% 46%

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Mol	Chain	Length	Quality of chain
53	2v	24	
54	1w	76	
54	1y	76	
54	2w	76	
54	2y	76	
55	1x	77	
55	2x	77	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	PSU	2y	55	-	-	-	X
56	MG	1A	3411	-	-	-	X
56	MG	1A	3489	-	-	-	X
56	MG	1A	3503	-	-	-	X
56	MG	2A	3040	-	-	-	X
56	MG	2A	3243	-	-	-	X
56	MG	2A	3382	-	-	-	X
56	MG	2A	3812	-	-	-	X
56	MG	2a	3031	-	-	-	X

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 300833 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 53 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			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-site and E-site tRNAs.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
54	1w	74	Total	C	N	O	P	S	0	0	0
			1592	713	285	518	74	2			
54	1y	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
54	2w	72	Total	C	N	O	P	S	0	0	0
			1544	690	278	502	72	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 tRNA.

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

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	1101	Total	Mg	0	0
			1101	1101		
56	1B	39	Total	Mg	0	0
			39	39		
56	1D	13	Total	Mg	0	0
			13	13		
56	1E	15	Total	Mg	0	0
			15	15		
56	1F	10	Total	Mg	0	0
			10	10		
56	1G	4	Total	Mg	0	0
			4	4		
56	1I	1	Total	Mg	0	0
			1	1		
56	1N	6	Total	Mg	0	0
			6	6		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1O	5	Total 5	Mg 5	0	0
56	1P	9	Total 9	Mg 9	0	0
56	1Q	8	Total 8	Mg 8	0	0
56	1R	3	Total 3	Mg 3	0	0
56	1S	3	Total 3	Mg 3	0	0
56	1T	4	Total 4	Mg 4	0	0
56	1U	12	Total 12	Mg 12	0	0
56	1V	7	Total 7	Mg 7	0	0
56	1W	5	Total 5	Mg 5	0	0
56	1X	5	Total 5	Mg 5	0	0
56	1Y	3	Total 3	Mg 3	0	0
56	1Z	3	Total 3	Mg 3	0	0
56	10	6	Total 6	Mg 6	0	0
56	11	5	Total 5	Mg 5	0	0
56	12	2	Total 2	Mg 2	0	0
56	13	3	Total 3	Mg 3	0	0
56	14	1	Total 1	Mg 1	0	0
56	15	5	Total 5	Mg 5	0	0
56	16	3	Total 3	Mg 3	0	0
56	17	8	Total 8	Mg 8	0	0
56	18	7	Total 7	Mg 7	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	19	1	Total Mg 1 1	0	0
56	1a	233	Total Mg 233 233	0	0
56	1b	2	Total Mg 2 2	0	0
56	1d	1	Total Mg 1 1	0	0
56	1e	2	Total Mg 2 2	0	0
56	1f	2	Total Mg 2 2	0	0
56	1h	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	1	Total Mg 1 1	0	0
56	1s	1	Total Mg 1 1	0	0
56	1t	1	Total Mg 1 1	0	0
56	1v	1	Total Mg 1 1	0	0
56	1w	12	Total Mg 12 12	0	0
56	1x	18	Total Mg 18 18	0	0
56	2A	887	Total Mg 887 887	0	0
56	2B	20	Total Mg 20 20	0	0
56	2D	10	Total Mg 10 10	0	0
56	2E	4	Total Mg 4 4	0	0
56	2F	6	Total Mg 6 6	0	0
56	2G	1	Total Mg 1 1	0	0

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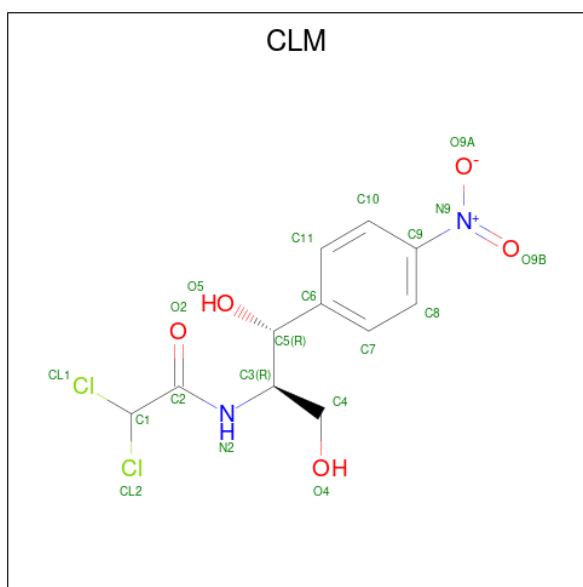
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2N	1	Total Mg 1 1	0	0
56	2O	1	Total Mg 1 1	0	0
56	2P	4	Total Mg 4 4	0	0
56	2Q	4	Total Mg 4 4	0	0
56	2R	2	Total Mg 2 2	0	0
56	2T	4	Total Mg 4 4	0	0
56	2U	3	Total Mg 3 3	0	0
56	2V	3	Total Mg 3 3	0	0
56	2W	3	Total Mg 3 3	0	0
56	2X	1	Total Mg 1 1	0	0
56	2Z	1	Total Mg 1 1	0	0
56	20	3	Total Mg 3 3	0	0
56	21	1	Total Mg 1 1	0	0
56	23	3	Total Mg 3 3	0	0
56	25	5	Total Mg 5 5	0	0
56	27	2	Total Mg 2 2	0	0
56	28	3	Total Mg 3 3	0	0
56	2a	241	Total Mg 241 241	0	0
56	2d	1	Total Mg 1 1	0	0
56	2e	1	Total Mg 1 1	0	0
56	2f	2	Total Mg 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	2g	1	Total Mg 1 1	0	0
56	2i	1	Total Mg 1 1	0	0
56	2j	1	Total Mg 1 1	0	0
56	2k	1	Total Mg 1 1	0	0
56	2l	4	Total Mg 4 4	0	0
56	2m	1	Total Mg 1 1	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	1	Total Mg 1 1	0	0
56	2w	4	Total Mg 4 4	0	0
56	2x	5	Total Mg 5 5	0	0
56	2y	6	Total Mg 6 6	0	0

- Molecule 57 is CHLORAMPHENICOL (three-letter code: CLM) (formula: $C_{11}H_{12}Cl_2N_2O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	Cl	N			O
57	1A	1	20	11	2	2	5	0	0
57	2A	1	20	11	2	2	5	0	0

- Molecule 58 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	K		
58	1A	1	1	1	0	0
58	2A	1	1	1	0	0

- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

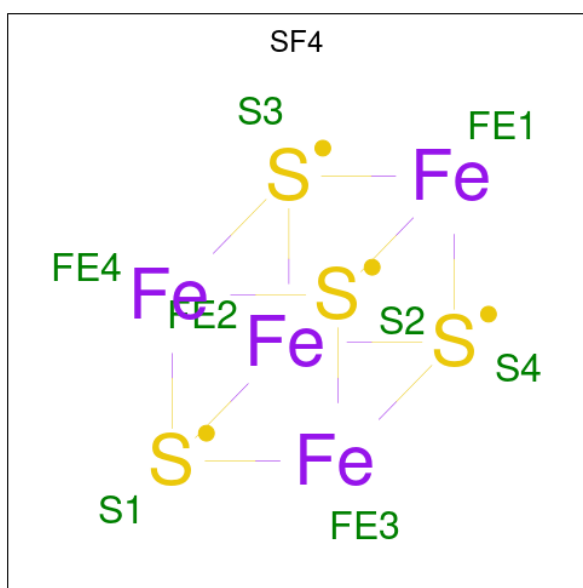
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
59	1Y	1	1	1	0	0
59	14	1	1	1	0	0
59	15	1	1	1	0	0
59	16	1	1	1	0	0
59	19	1	1	1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	1n	1	Total Zn 1 1	0	0
59	2Y	1	Total Zn 1 1	0	0
59	24	1	Total Zn 1 1	0	0
59	25	1	Total Zn 1 1	0	0
59	26	1	Total Zn 1 1	0	0
59	29	1	Total Zn 1 1	0	0
59	2n	1	Total Zn 1 1	0	0

- Molecule 60 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	1d	1	Total Fe S 8 4 4	0	0
60	2d	1	Total Fe S 8 4 4	0	0

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	6	Total O 6 6	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	5	Total O 5 5	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	5	Total O 5 5	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0
61	1A	6	Total O 6 6	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	3	Total O 3 3	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	3	Total O 3 3	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	3	Total O 3 3	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	4	Total O 4 4	0	0
61	1A	2	Total O 2 2	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	1	Total O 1 1	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	4	Total O 4 4	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	3	Total O 3 3	0	0
61	1A	4	Total O 4 4	0	0
61	1A	5	Total O 5 5	0	0
61	1A	5	Total O 5 5	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	1	Total O 1 1	0	0
61	1A	1	Total O 1 1	0	0
61	1A	4	Total O 4 4	0	0
61	1A	3	Total O 3 3	0	0
61	1A	6	Total O 6 6	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	6	Total O 6 6	0	0
61	1A	1	Total O 1 1	0	0
61	1A	5	Total O 5 5	0	0
61	1A	6	Total O 6 6	0	0
61	1A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1A	1	Total O 1 1	0	0
61	1A	6	Total O 6 6	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	6	Total O 6 6	0	0
61	1A	2	Total O 2 2	0	0
61	1A	2	Total O 2 2	0	0
61	1A	6	Total O 6 6	0	0
61	1A	2	Total O 2 2	0	0
61	1A	1	Total O 1 1	0	0
61	1A	6	Total O 6 6	0	0
61	1A	500	Total O 500 500	0	0
61	1B	3	Total O 3 3	0	0
61	1B	1	Total O 1 1	0	0
61	1B	5	Total O 5 5	0	0
61	1B	4	Total O 4 4	0	0
61	1B	3	Total O 3 3	0	0
61	1B	1	Total O 1 1	0	0
61	1B	1	Total O 1 1	0	0
61	1B	1	Total O 1 1	0	0
61	1B	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1B	1	Total O 1 1	0	0
61	1B	2	Total O 2 2	0	0
61	1B	2	Total O 2 2	0	0
61	1B	1	Total O 1 1	0	0
61	1B	2	Total O 2 2	0	0
61	1B	1	Total O 1 1	0	0
61	1B	6	Total O 6 6	0	0
61	1B	1	Total O 1 1	0	0
61	1B	2	Total O 2 2	0	0
61	1B	1	Total O 1 1	0	0
61	1B	1	Total O 1 1	0	0
61	1B	3	Total O 3 3	0	0
61	1B	2	Total O 2 2	0	0
61	1B	1	Total O 1 1	0	0
61	1B	2	Total O 2 2	0	0
61	1B	1	Total O 1 1	0	0
61	1B	3	Total O 3 3	0	0
61	1B	5	Total O 5 5	0	0
61	1B	16	Total O 16 16	0	0
61	1D	5	Total O 5 5	0	0
61	1D	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1D	1	Total O 1 1	0	0
61	1D	1	Total O 1 1	0	0
61	1D	15	Total O 15 15	0	0
61	1E	2	Total O 2 2	0	0
61	1E	2	Total O 2 2	0	0
61	1E	2	Total O 2 2	0	0
61	1E	2	Total O 2 2	0	0
61	1E	6	Total O 6 6	0	0
61	1E	13	Total O 13 13	0	0
61	1F	1	Total O 1 1	0	0
61	1F	8	Total O 8 8	0	0
61	1G	2	Total O 2 2	0	0
61	1G	3	Total O 3 3	0	0
61	1H	1	Total O 1 1	0	0
61	1I	2	Total O 2 2	0	0
61	1N	4	Total O 4 4	0	0
61	1O	2	Total O 2 2	0	0
61	1O	1	Total O 1 1	0	0
61	1O	4	Total O 4 4	0	0
61	1P	5	Total O 5 5	0	0
61	1P	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1P	2	Total O 2 2	0	0
61	1P	1	Total O 1 1	0	0
61	1P	6	Total O 6 6	0	0
61	1P	5	Total O 5 5	0	0
61	1Q	6	Total O 6 6	0	0
61	1Q	1	Total O 1 1	0	0
61	1Q	4	Total O 4 4	0	0
61	1R	1	Total O 1 1	0	0
61	1R	7	Total O 7 7	0	0
61	1S	2	Total O 2 2	0	0
61	1S	2	Total O 2 2	0	0
61	1T	1	Total O 1 1	0	0
61	1T	1	Total O 1 1	0	0
61	1T	4	Total O 4 4	0	0
61	1U	9	Total O 9 9	0	0
61	1V	1	Total O 1 1	0	0
61	1V	6	Total O 6 6	0	0
61	1W	9	Total O 9 9	0	0
61	1X	4	Total O 4 4	0	0
61	1X	3	Total O 3 3	0	0
61	1Y	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1Z	1	Total O 1 1	0	0
61	10	3	Total O 3 3	0	0
61	10	2	Total O 2 2	0	0
61	10	7	Total O 7 7	0	0
61	11	1	Total O 1 1	0	0
61	11	1	Total O 1 1	0	0
61	11	8	Total O 8 8	0	0
61	12	4	Total O 4 4	0	0
61	13	1	Total O 1 1	0	0
61	13	3	Total O 3 3	0	0
61	14	2	Total O 2 2	0	0
61	15	2	Total O 2 2	0	0
61	15	5	Total O 5 5	0	0
61	16	1	Total O 1 1	0	0
61	17	2	Total O 2 2	0	0
61	17	5	Total O 5 5	0	0
61	18	5	Total O 5 5	0	0
61	18	2	Total O 2 2	0	0
61	18	1	Total O 1 1	0	0
61	18	2	Total O 2 2	0	0
61	18	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	18	3	Total O 3 3	0	0
61	1a	2	Total O 2 2	0	0
61	1a	3	Total O 3 3	0	0
61	1a	4	Total O 4 4	0	0
61	1a	1	Total O 1 1	0	0
61	1a	2	Total O 2 2	0	0
61	1a	2	Total O 2 2	0	0
61	1a	1	Total O 1 1	0	0
61	1a	5	Total O 5 5	0	0
61	1a	4	Total O 4 4	0	0
61	1a	4	Total O 4 4	0	0
61	1a	5	Total O 5 5	0	0
61	1a	4	Total O 4 4	0	0
61	1a	4	Total O 4 4	0	0
61	1a	1	Total O 1 1	0	0
61	1a	2	Total O 2 2	0	0
61	1a	1	Total O 1 1	0	0
61	1a	3	Total O 3 3	0	0
61	1a	2	Total O 2 2	0	0
61	1a	3	Total O 3 3	0	0
61	1a	5	Total O 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1a	6	Total O 6 6	0	0
61	1a	3	Total O 3 3	0	0
61	1a	5	Total O 5 5	0	0
61	1a	5	Total O 5 5	0	0
61	1a	3	Total O 3 3	0	0
61	1a	1	Total O 1 1	0	0
61	1a	5	Total O 5 5	0	0
61	1a	2	Total O 2 2	0	0
61	1a	4	Total O 4 4	0	0
61	1a	1	Total O 1 1	0	0
61	1a	1	Total O 1 1	0	0
61	1a	6	Total O 6 6	0	0
61	1a	5	Total O 5 5	0	0
61	1a	4	Total O 4 4	0	0
61	1a	1	Total O 1 1	0	0
61	1a	4	Total O 4 4	0	0
61	1a	2	Total O 2 2	0	0
61	1a	1	Total O 1 1	0	0
61	1a	1	Total O 1 1	0	0
61	1a	1	Total O 1 1	0	0
61	1a	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1a	3	Total O 3 3	0	0
61	1a	1	Total O 1 1	0	0
61	1a	6	Total O 6 6	0	0
61	1a	3	Total O 3 3	0	0
61	1a	1	Total O 1 1	0	0
61	1a	3	Total O 3 3	0	0
61	1a	1	Total O 1 1	0	0
61	1a	4	Total O 4 4	0	0
61	1a	4	Total O 4 4	0	0
61	1a	6	Total O 6 6	0	0
61	1a	5	Total O 5 5	0	0
61	1a	5	Total O 5 5	0	0
61	1a	5	Total O 5 5	0	0
61	1a	5	Total O 5 5	0	0
61	1a	6	Total O 6 6	0	0
61	1a	4	Total O 4 4	0	0
61	1a	4	Total O 4 4	0	0
61	1a	6	Total O 6 6	0	0
61	1a	4	Total O 4 4	0	0
61	1a	4	Total O 4 4	0	0
61	1a	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1a	4	Total O 4 4	0	0
61	1a	6	Total O 6 6	0	0
61	1a	4	Total O 4 4	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	5	Total O 5 5	0	0
61	1a	4	Total O 4 4	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0
61	1a	2	Total O 2 2	0	0
61	1a	4	Total O 4 4	0	0
61	1a	5	Total O 5 5	0	0
61	1a	6	Total O 6 6	0	0
61	1a	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1a	4	Total O 4 4	0	0
61	1a	6	Total O 6 6	0	0
61	1a	5	Total O 5 5	0	0
61	1a	6	Total O 6 6	0	0
61	1a	2	Total O 2 2	0	0
61	1a	1	Total O 1 1	0	0
61	1a	1	Total O 1 1	0	0
61	1a	1	Total O 1 1	0	0
61	1a	2	Total O 2 2	0	0
61	1a	1	Total O 1 1	0	0
61	1a	1	Total O 1 1	0	0
61	1a	2	Total O 2 2	0	0
61	1a	1	Total O 1 1	0	0
61	1a	78	Total O 78 78	0	0
61	1b	1	Total O 1 1	0	0
61	1d	1	Total O 1 1	0	0
61	1f	1	Total O 1 1	0	0
61	1l	6	Total O 6 6	0	0
61	1l	1	Total O 1 1	0	0
61	1q	4	Total O 4 4	0	0
61	1w	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1w	1	Total O 1 1	0	0
61	1w	9	Total O 9 9	0	0
61	1x	3	Total O 3 3	0	0
61	1x	2	Total O 2 2	0	0
61	1x	1	Total O 1 1	0	0
61	1x	2	Total O 2 2	0	0
61	1x	1	Total O 1 1	0	0
61	1x	1	Total O 1 1	0	0
61	1x	5	Total O 5 5	0	0
61	1y	1	Total O 1 1	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	6	Total O 6 6	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	5	Total O 5 5	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	2	Total O 2 2	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	6	Total O 6 6	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0
61	2A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	6	Total O 6 6	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	5	Total O 5 5	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0
61	2A	5	Total O 5 5	0	0
61	2A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	6	Total O 6 6	0	0
61	2A	3	Total O 3 3	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	3	Total O 3 3	0	0
61	2A	6	Total O 6 6	0	0
61	2A	2	Total O 2 2	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	2	Total O 2 2	0	0
61	2A	6	Total O 6 6	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	6	Total O 6 6	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	6	Total O 6 6	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
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61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	5	Total O 5 5	0	0
61	2A	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	2	Total O 2 2	0	0
61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0
61	2A	3	Total O 3 3	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	3	Total O 3 3	0	0
61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	1	Total O 1 1	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	3	Total O 3 3	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
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61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0
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61	2A	4	Total O 4 4	0	0
61	2A	3	Total O 3 3	0	0
61	2A	3	Total O 3 3	0	0
61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	6	Total O 6 6	0	0
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
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61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0
61	2A	3	Total O 3 3	0	0
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	4	Total O 4 4	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	5	Total O 5 5	0	0
61	2A	6	Total O 6 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	5	Total O 5 5	0	0
61	2A	3	Total O 3 3	0	0
61	2A	6	Total O 6 6	0	0
61	2A	6	Total O 6 6	0	0
61	2A	4	Total O 4 4	0	0
61	2A	4	Total O 4 4	0	0
61	2A	1	Total O 1 1	0	0
61	2A	4	Total O 4 4	0	0
61	2A	2	Total O 2 2	0	0
61	2A	3	Total O 3 3	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	1	Total O 1 1	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0
61	2A	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2A	6	Total O 6 6	0	0
61	2A	222	Total O 222 222	0	0
61	2B	2	Total O 2 2	0	0
61	2B	3	Total O 3 3	0	0
61	2B	3	Total O 3 3	0	0
61	2B	1	Total O 1 1	0	0
61	2B	2	Total O 2 2	0	0
61	2B	1	Total O 1 1	0	0
61	2B	1	Total O 1 1	0	0
61	2B	12	Total O 12 12	0	0
61	2D	5	Total O 5 5	0	0
61	2D	3	Total O 3 3	0	0
61	2D	2	Total O 2 2	0	0
61	2D	7	Total O 7 7	0	0
61	2E	3	Total O 3 3	0	0
61	2F	6	Total O 6 6	0	0
61	2I	3	Total O 3 3	0	0
61	2N	1	Total O 1 1	0	0
61	2O	1	Total O 1 1	0	0
61	2P	5	Total O 5 5	0	0
61	2P	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2P	4	Total O 4 4	0	0
61	2Q	1	Total O 1 1	0	0
61	2Q	1	Total O 1 1	0	0
61	2R	1	Total O 1 1	0	0
61	2R	2	Total O 2 2	0	0
61	2T	2	Total O 2 2	0	0
61	2T	3	Total O 3 3	0	0
61	2U	2	Total O 2 2	0	0
61	2W	3	Total O 3 3	0	0
61	2Z	1	Total O 1 1	0	0
61	20	6	Total O 6 6	0	0
61	20	2	Total O 2 2	0	0
61	20	2	Total O 2 2	0	0
61	21	6	Total O 6 6	0	0
61	22	1	Total O 1 1	0	0
61	25	4	Total O 4 4	0	0
61	27	1	Total O 1 1	0	0
61	27	1	Total O 1 1	0	0
61	28	4	Total O 4 4	0	0
61	28	1	Total O 1 1	0	0
61	28	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	29	1	Total O 1 1	0	0
61	2a	6	Total O 6 6	0	0
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	5	Total O 5 5	0	0
61	2a	4	Total O 4 4	0	0
61	2a	6	Total O 6 6	0	0
61	2a	6	Total O 6 6	0	0
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	5	Total O 5 5	0	0
61	2a	3	Total O 3 3	0	0
61	2a	5	Total O 5 5	0	0
61	2a	4	Total O 4 4	0	0
61	2a	6	Total O 6 6	0	0
61	2a	3	Total O 3 3	0	0
61	2a	5	Total O 5 5	0	0
61	2a	6	Total O 6 6	0	0
61	2a	4	Total O 4 4	0	0
61	2a	4	Total O 4 4	0	0
61	2a	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	3	Total O 3 3	0	0
61	2a	6	Total O 6 6	0	0
61	2a	3	Total O 3 3	0	0
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	4	Total O 4 4	0	0
61	2a	3	Total O 3 3	0	0
61	2a	5	Total O 5 5	0	0
61	2a	6	Total O 6 6	0	0
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	5	Total O 5 5	0	0
61	2a	2	Total O 2 2	0	0
61	2a	4	Total O 4 4	0	0
61	2a	6	Total O 6 6	0	0
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	5	Total O 5 5	0	0
61	2a	4	Total O 4 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2a	5	Total O 5 5	0	0
61	2a	6	Total O 6 6	0	0
61	2a	5	Total O 5 5	0	0
61	2a	6	Total O 6 6	0	0
61	2a	3	Total O 3 3	0	0
61	2a	6	Total O 6 6	0	0
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61	2a	3	Total O 3 3	0	0
61	2a	2	Total O 2 2	0	0
61	2a	5	Total O 5 5	0	0
61	2a	4	Total O 4 4	0	0
61	2a	2	Total O 2 2	0	0
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	5	Total O 5 5	0	0
61	2a	1	Total O 1 1	0	0
61	2a	4	Total O 4 4	0	0
61	2a	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	2	Total O 2 2	0	0
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	3	Total O 3 3	0	0
61	2a	3	Total O 3 3	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	3	Total O 3 3	0	0
61	2a	2	Total O 2 2	0	0
61	2a	3	Total O 3 3	0	0
61	2a	4	Total O 4 4	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	4	Total O 4 4	0	0
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61	2a	2	Total O 2 2	0	0

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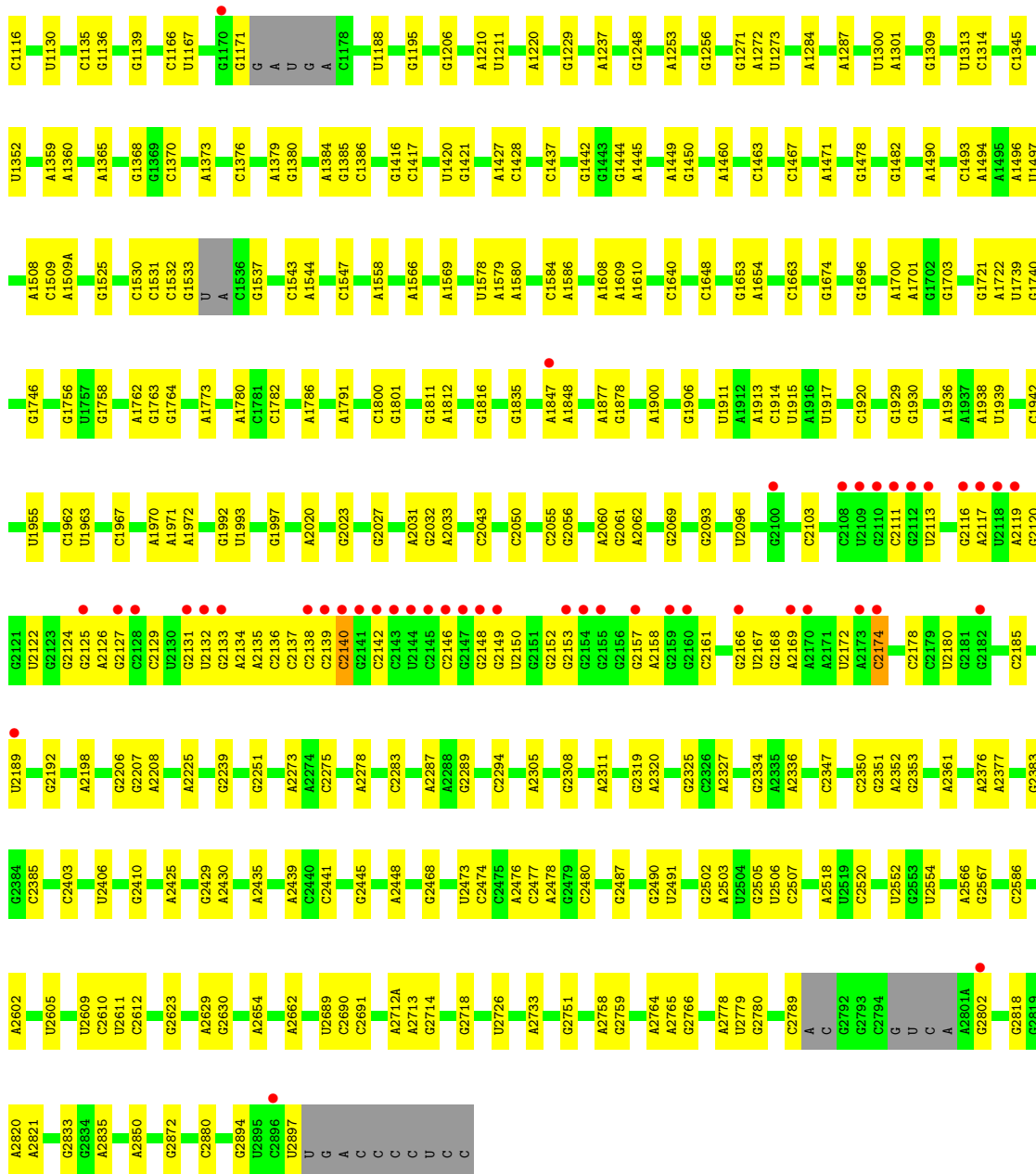
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	1	Total O 1 1	0	0
61	2a	2	Total O 2 2	0	0
61	2a	2	Total O 2 2	0	0
61	2a	2	Total O 2 2	0	0
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	2	Total O 2 2	0	0
61	2a	1	Total O 1 1	0	0
61	2a	2	Total O 2 2	0	0

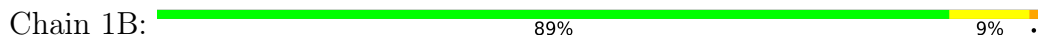
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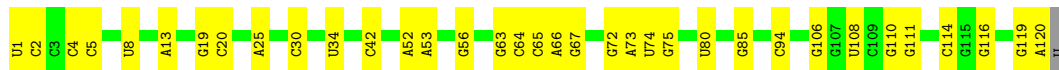
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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61	2a	2	Total O 2 2	0	0
61	2a	40	Total O 40 40	0	0
61	2d	1	Total O 1 1	0	0
61	2g	1	Total O 1 1	0	0
61	2i	1	Total O 1 1	0	0
61	2j	2	Total O 2 2	0	0
61	2j	1	Total O 1 1	0	0
61	2l	1	Total O 1 1	0	0
61	2l	1	Total O 1 1	0	0
61	2p	1	Total O 1 1	0	0
61	2r	1	Total O 1 1	0	0
61	2t	2	Total O 2 2	0	0
61	2x	2	Total O 2 2	0	0
61	2x	2	Total O 2 2	0	0
61	2x	3	Total O 3 3	0	0
61	2y	6	Total O 6 6	0	0
61	2y	1	Total O 1 1	0	0
61	2y	6	Total O 6 6	0	0



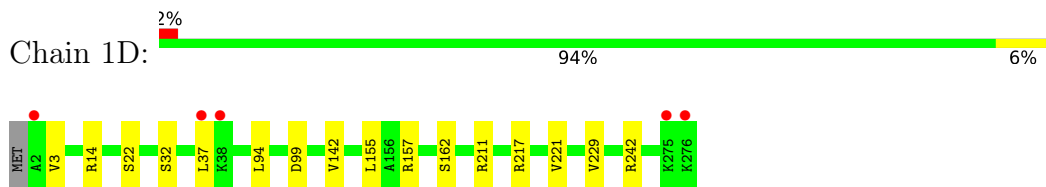
• Molecule 2: 5S Ribosomal RNA



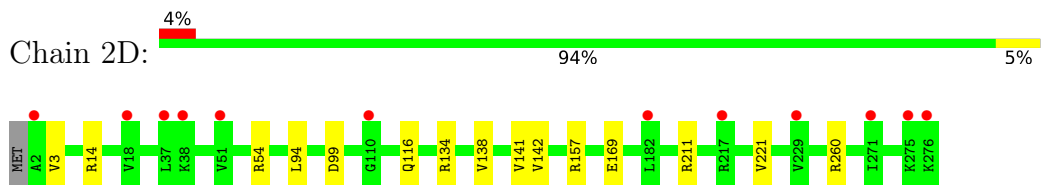
• Molecule 2: 5S Ribosomal RNA



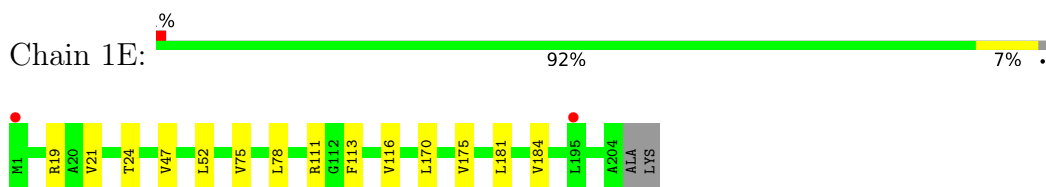
- Molecule 3: 50S ribosomal protein L2



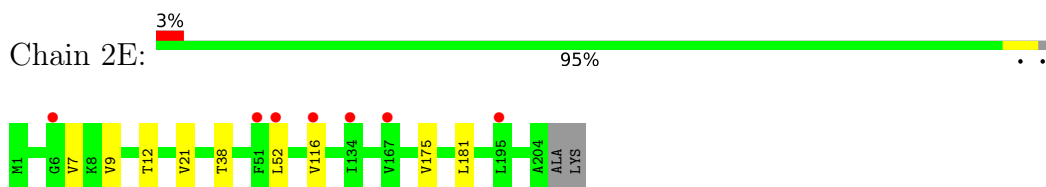
- Molecule 3: 50S ribosomal protein L2



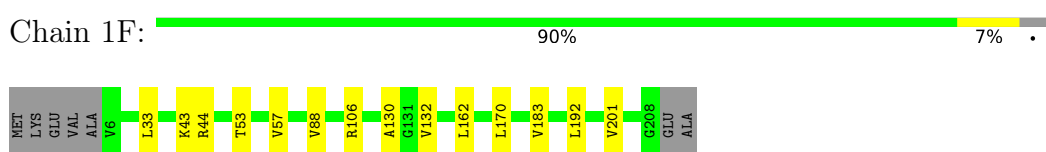
- Molecule 4: 50S ribosomal protein L3



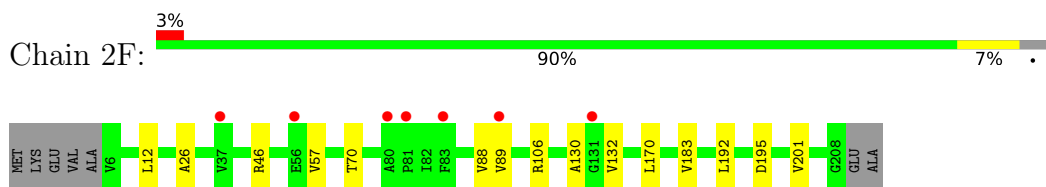
- Molecule 4: 50S ribosomal protein L3



- Molecule 5: 50S ribosomal protein L4



- Molecule 5: 50S ribosomal protein L4

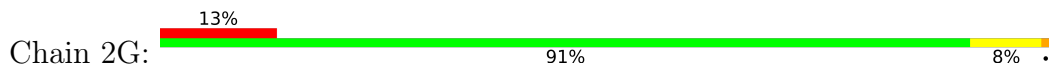


- Molecule 6: 50S ribosomal protein L5





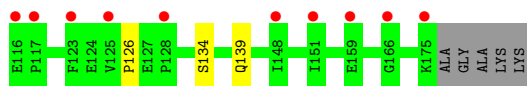
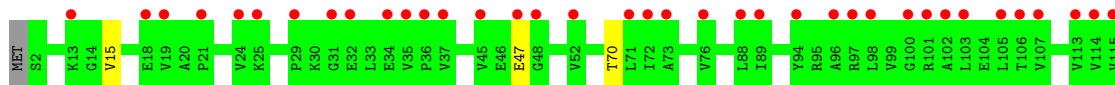
- Molecule 6: 50S ribosomal protein L5



- Molecule 7: 50S ribosomal protein L6



- Molecule 7: 50S ribosomal protein L6



- Molecule 8: 50S ribosomal protein L9

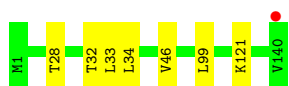


- Molecule 8: 50S ribosomal protein L9

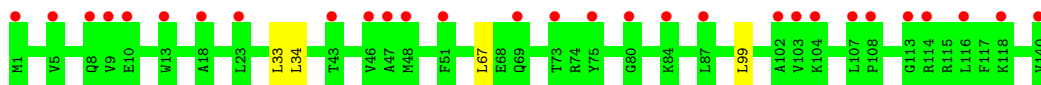


- Molecule 9: 50S ribosomal protein L13





- Molecule 9: 50S ribosomal protein L13



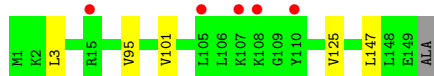
- Molecule 10: 50S ribosomal protein L14



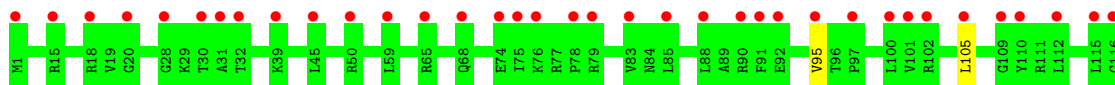
- Molecule 10: 50S ribosomal protein L14



- Molecule 11: 50S ribosomal protein L15



- Molecule 11: 50S ribosomal protein L15

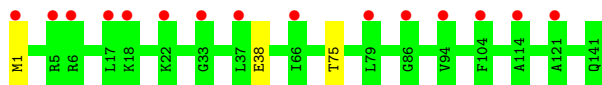


- Molecule 12: 50S ribosomal protein L16





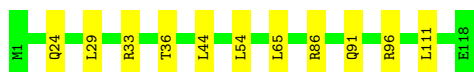
- Molecule 12: 50S ribosomal protein L16



- Molecule 13: 50S ribosomal protein L17



- Molecule 13: 50S ribosomal protein L17



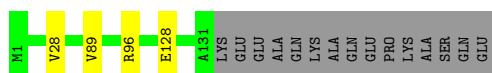
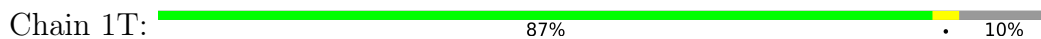
- Molecule 14: 50S ribosomal protein L18



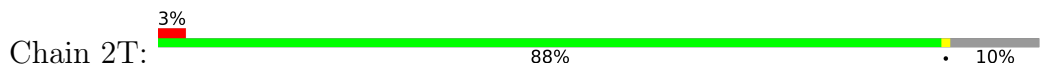
- Molecule 14: 50S ribosomal protein L18

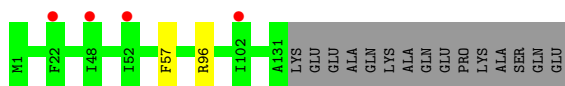


- Molecule 15: 50S ribosomal protein L19



- Molecule 15: 50S ribosomal protein L19

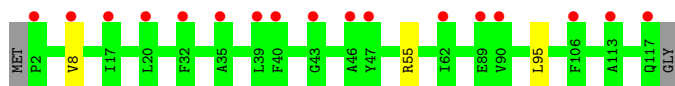




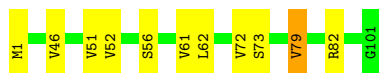
- Molecule 16: 50S ribosomal protein L20



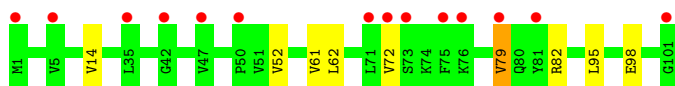
- Molecule 16: 50S ribosomal protein L20



- Molecule 17: 50S ribosomal protein L21



- Molecule 17: 50S ribosomal protein L21



- Molecule 18: 50S ribosomal protein L22

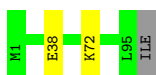


- Molecule 18: 50S ribosomal protein L22



- Molecule 19: 50S ribosomal protein L23

Chain 1X:  97%



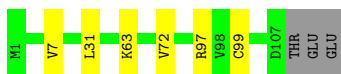
- Molecule 19: 50S ribosomal protein L23

Chain 2X:  97%



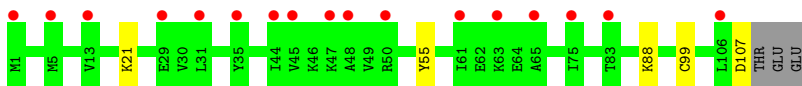
- Molecule 20: 50S ribosomal protein L24

Chain 1Y:  92%



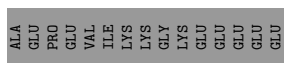
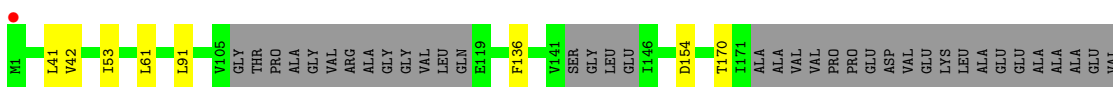
- Molecule 20: 50S ribosomal protein L24

Chain 2Y:  93%




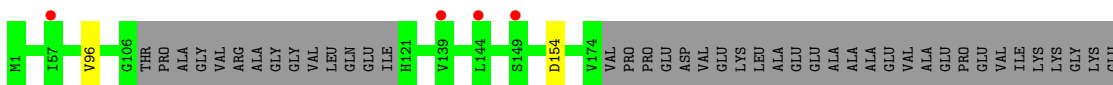
- Molecule 21: 50S ribosomal protein L25

Chain 1Z:  71%



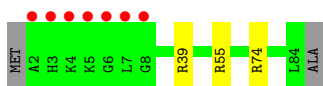
- Molecule 21: 50S ribosomal protein L25

Chain 2Z:  77%

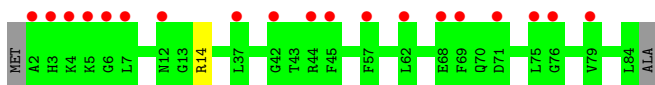


- Molecule 22: 50S ribosomal protein L27

Chain 10:  94%



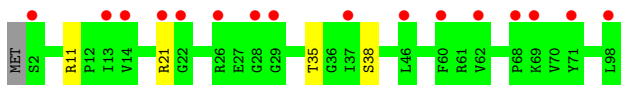
- Molecule 22: 50S ribosomal protein L27



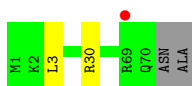
- Molecule 23: 50S ribosomal protein L28



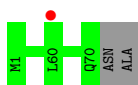
- Molecule 23: 50S ribosomal protein L28



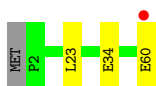
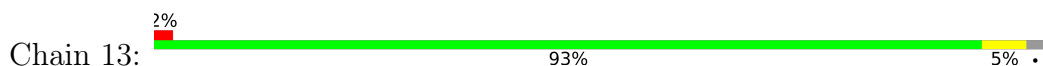
- Molecule 24: 50S ribosomal protein L29



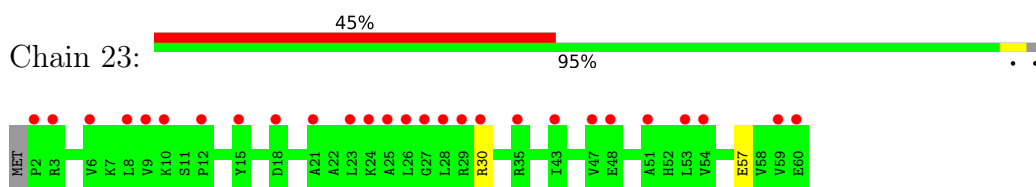
- Molecule 24: 50S ribosomal protein L29



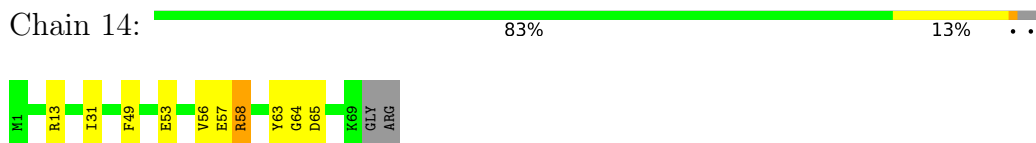
- Molecule 25: 50S ribosomal protein L30



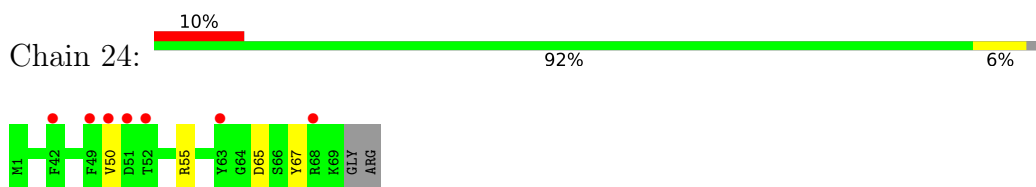
- Molecule 25: 50S ribosomal protein L30



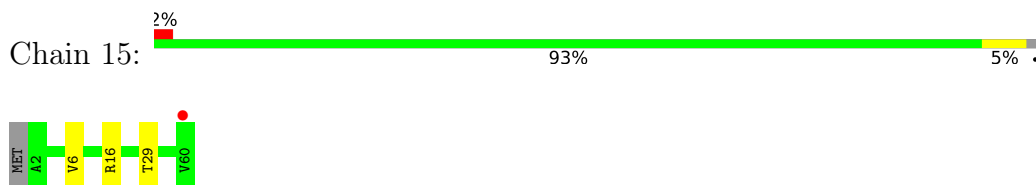
- Molecule 26: 50S ribosomal protein L31



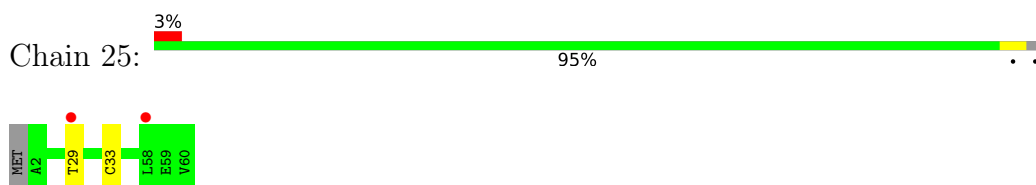
- Molecule 26: 50S ribosomal protein L31



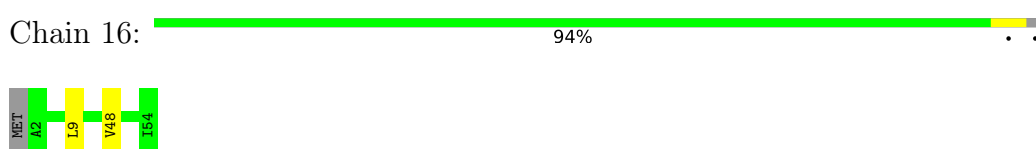
- Molecule 27: 50S ribosomal protein L32



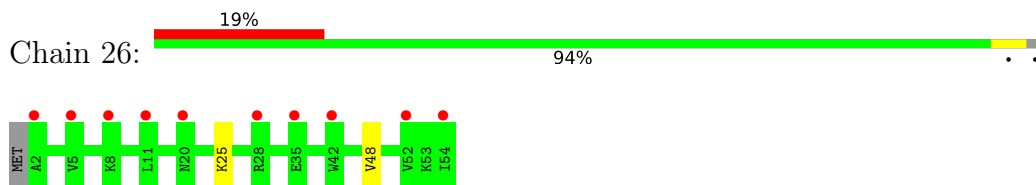
- Molecule 27: 50S ribosomal protein L32



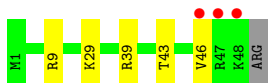
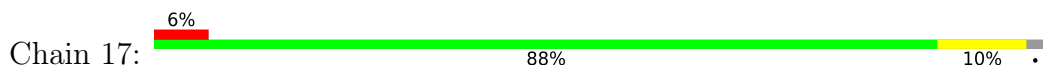
- Molecule 28: 50S ribosomal protein L33



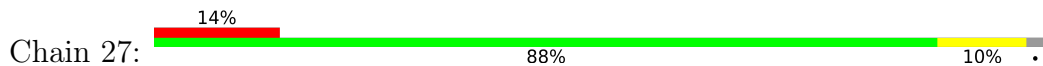
- Molecule 28: 50S ribosomal protein L33



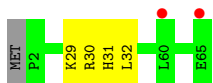
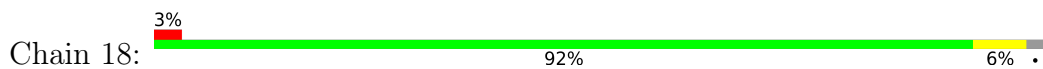
- Molecule 29: 50S ribosomal protein L34



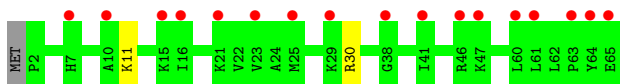
- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



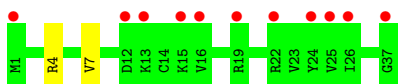
- Molecule 30: 50S ribosomal protein L35



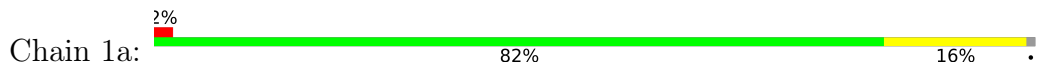
- Molecule 31: 50S ribosomal protein L36

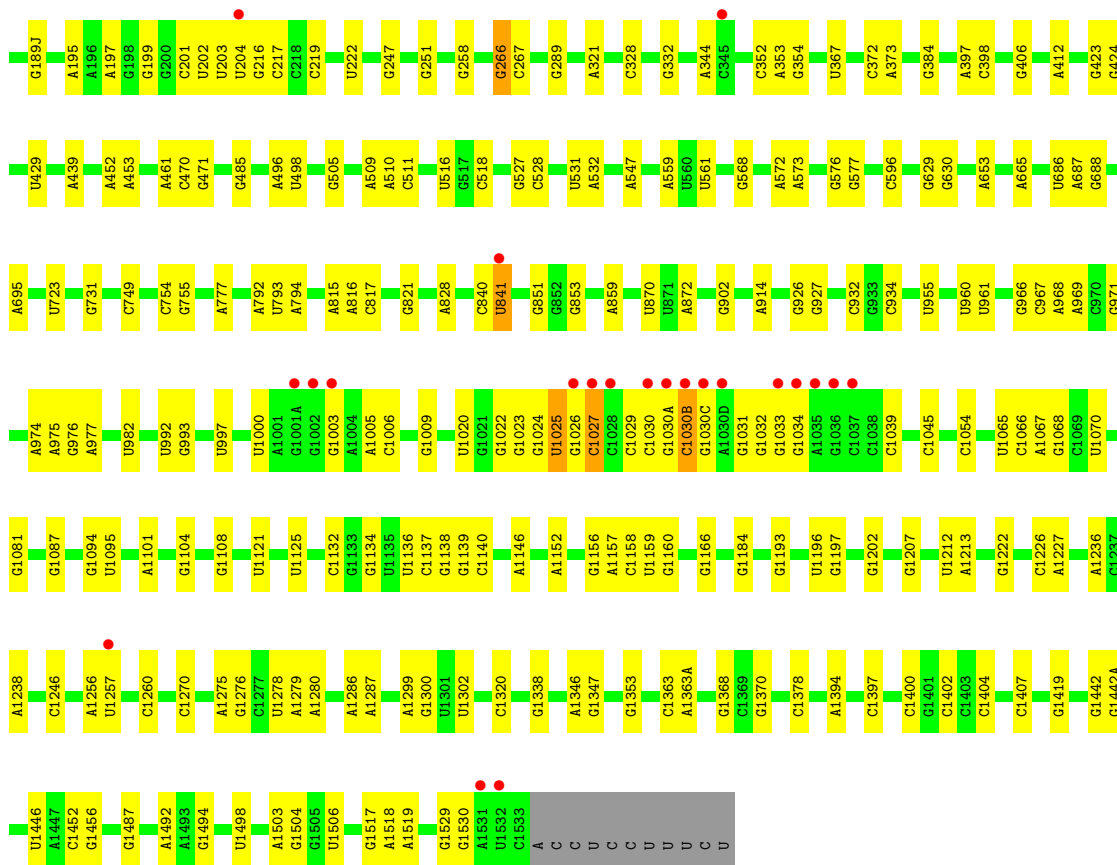


- Molecule 31: 50S ribosomal protein L36

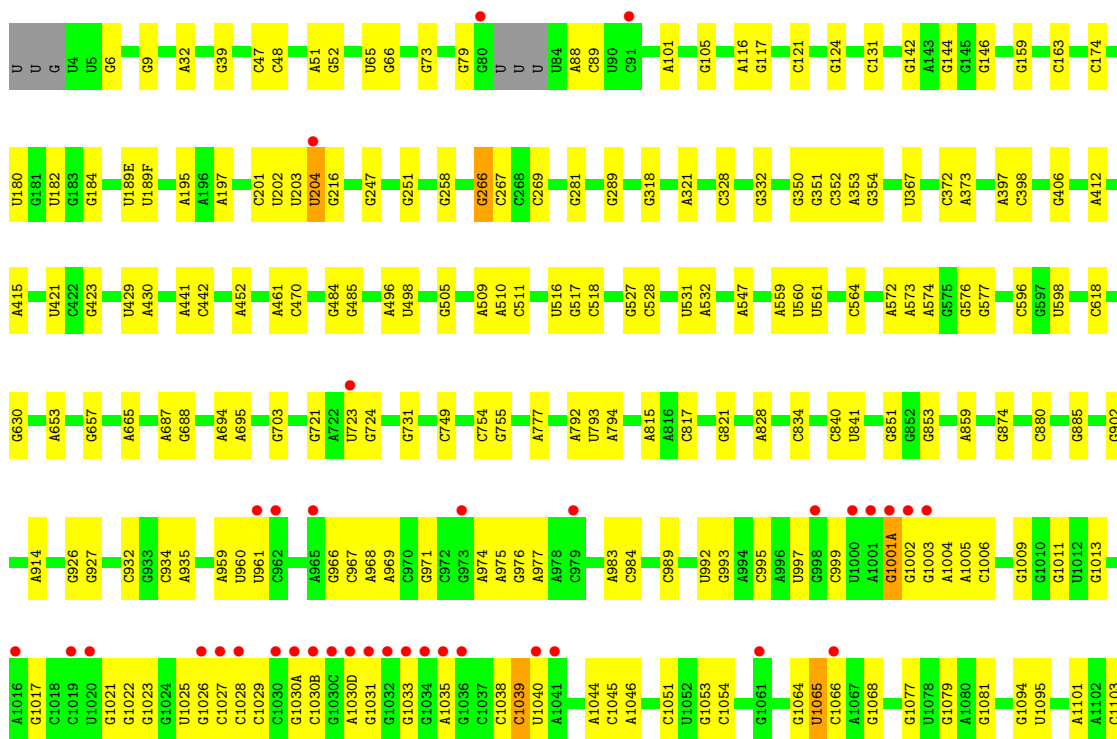
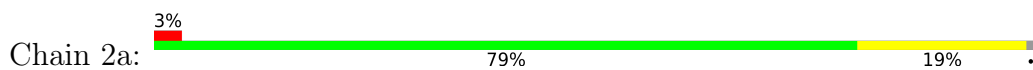


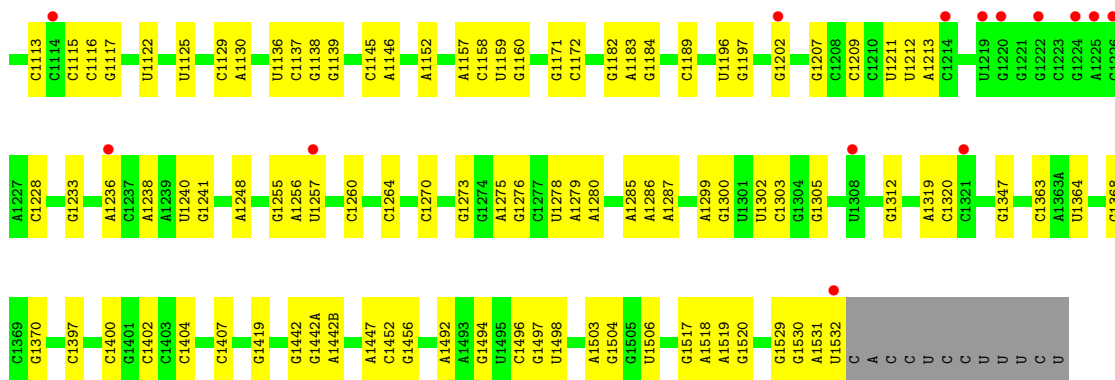
- Molecule 32: 16S Ribosomal RNA



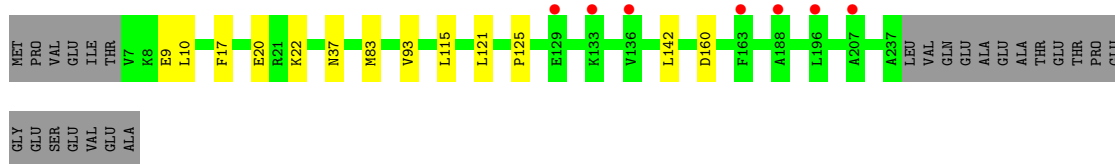
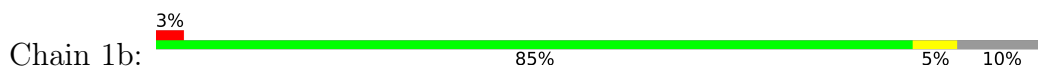


• Molecule 32: 16S Ribosomal RNA

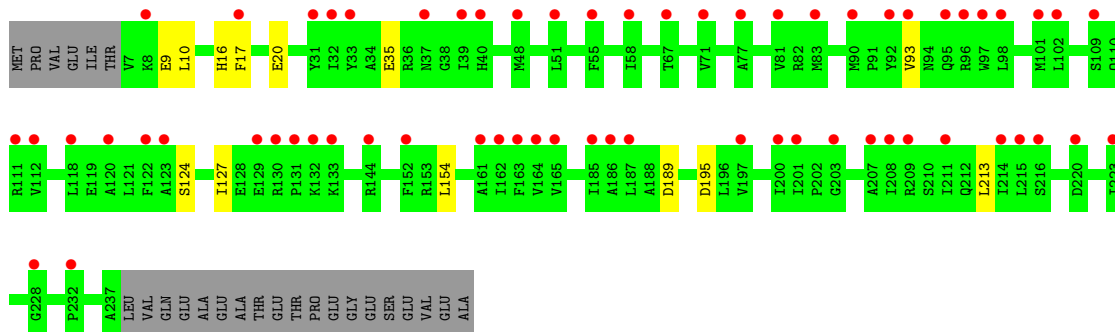
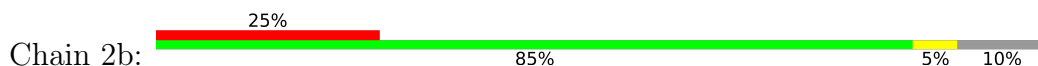




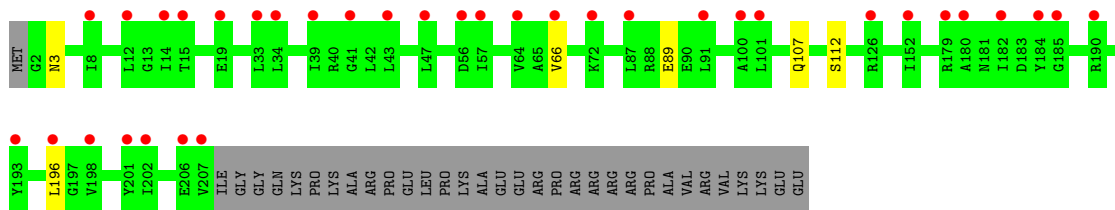
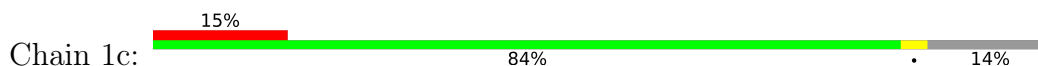
• Molecule 33: 30S ribosomal protein S2



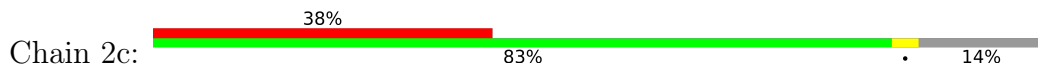
• Molecule 33: 30S ribosomal protein S2

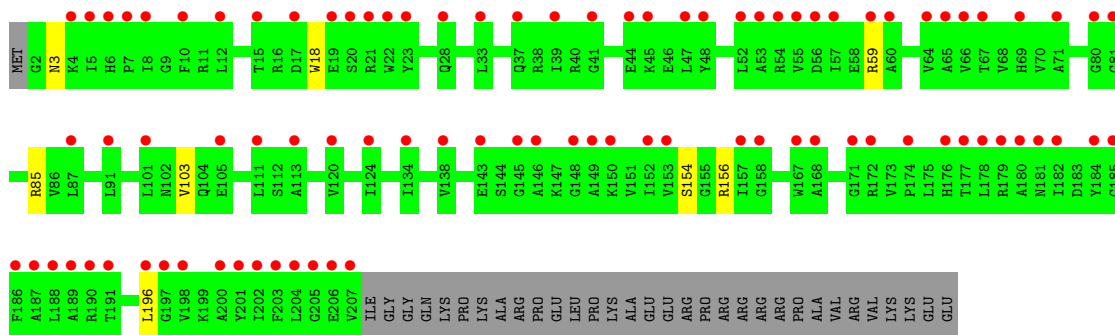


• Molecule 34: 30S ribosomal protein S3

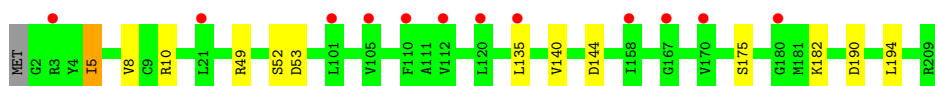


• Molecule 34: 30S ribosomal protein S3

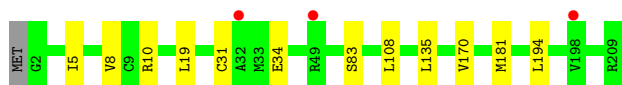




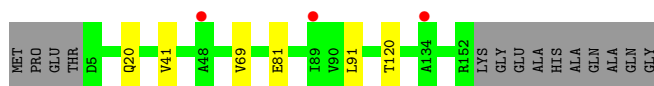
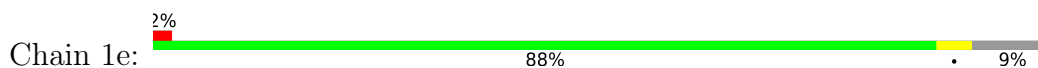
• Molecule 35: 30S ribosomal protein S4



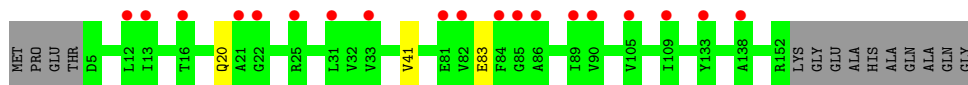
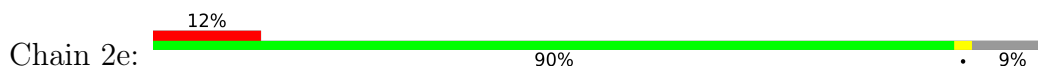
• Molecule 35: 30S ribosomal protein S4



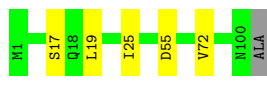
• Molecule 36: 30S ribosomal protein S5



• Molecule 36: 30S ribosomal protein S5



• Molecule 37: 30S ribosomal protein S6

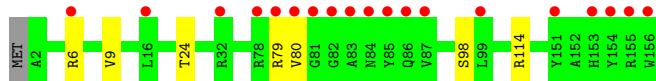


• Molecule 37: 30S ribosomal protein S6

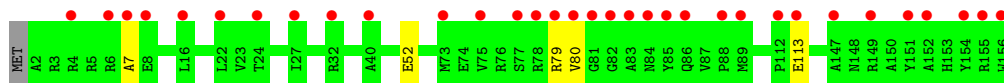




- Molecule 38: 30S ribosomal protein S7



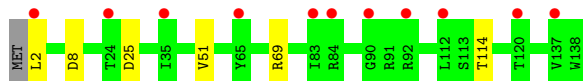
- Molecule 38: 30S ribosomal protein S7



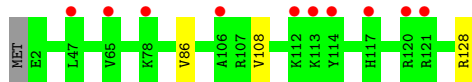
- Molecule 39: 30S ribosomal protein S8



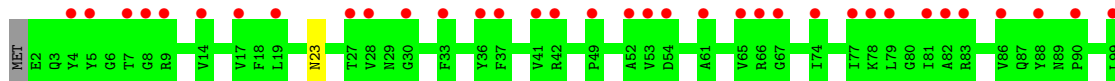
- Molecule 39: 30S ribosomal protein S8

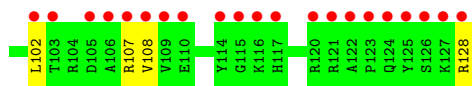


- Molecule 40: 30S ribosomal protein S9

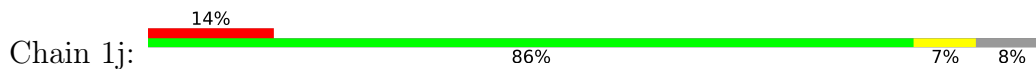


- Molecule 40: 30S ribosomal protein S9

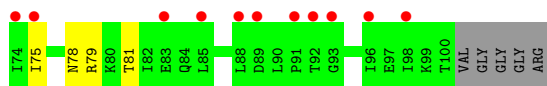
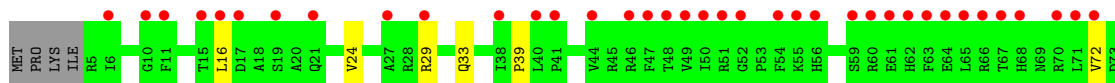
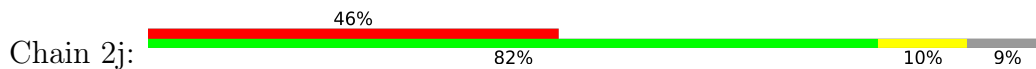




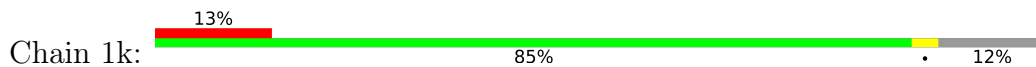
- Molecule 41: 30S ribosomal protein S10



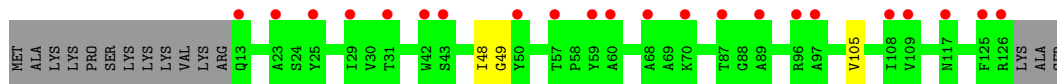
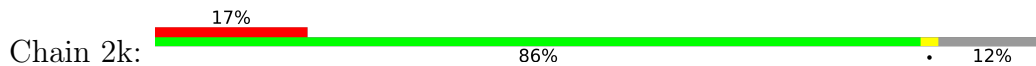
- Molecule 41: 30S ribosomal protein S10



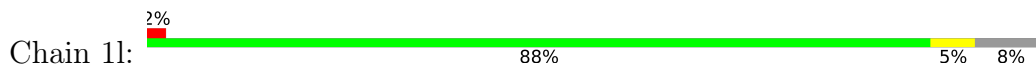
- Molecule 42: 30S ribosomal protein S11



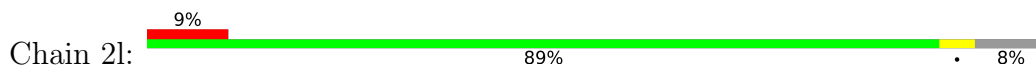
- Molecule 42: 30S ribosomal protein S11

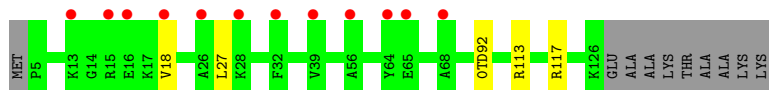


- Molecule 43: 30S ribosomal protein S12

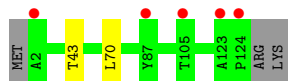


- Molecule 43: 30S ribosomal protein S12

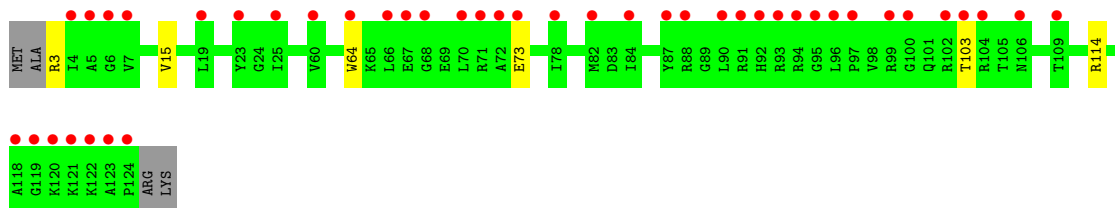




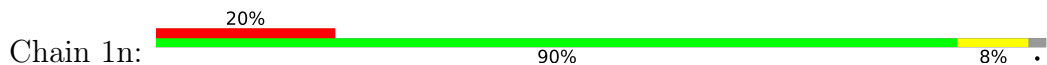
- Molecule 44: 30S ribosomal protein S13



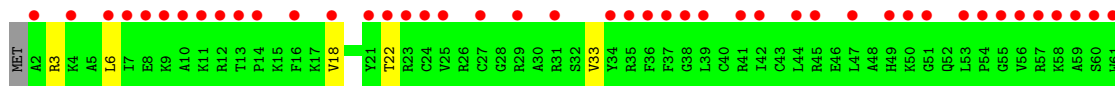
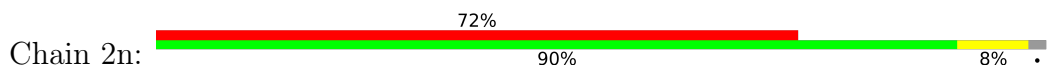
- Molecule 44: 30S ribosomal protein S13



- Molecule 45: 30S ribosomal protein S14 type Z



- Molecule 45: 30S ribosomal protein S14 type Z



- Molecule 46: 30S ribosomal protein S15

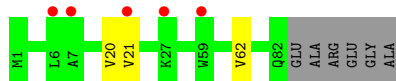
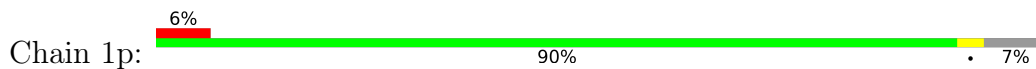


- Molecule 46: 30S ribosomal protein S15

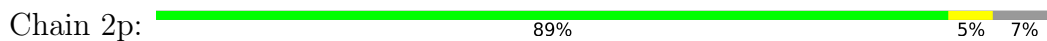




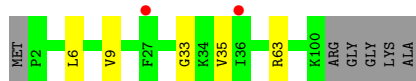
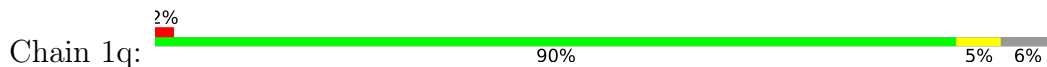
- Molecule 47: 30S ribosomal protein S16



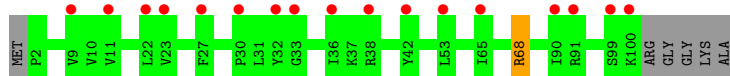
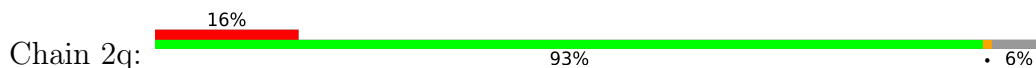
- Molecule 47: 30S ribosomal protein S16



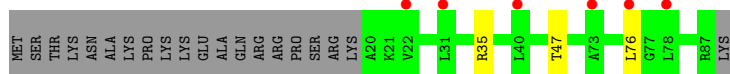
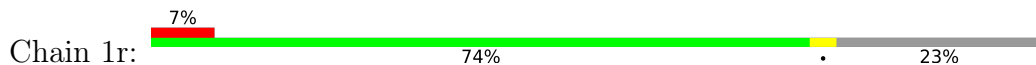
- Molecule 48: 30S ribosomal protein S17



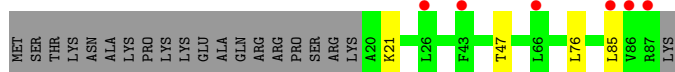
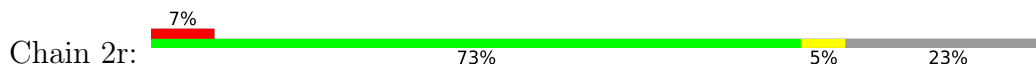
- Molecule 48: 30S ribosomal protein S17




- Molecule 49: 30S ribosomal protein S18

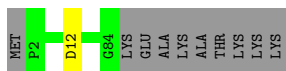


- Molecule 49: 30S ribosomal protein S18




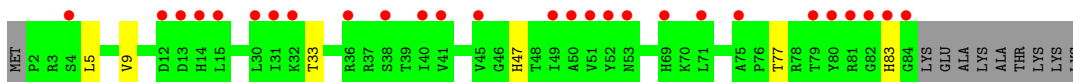
- Molecule 50: 30S ribosomal protein S19

Chain 1s:  88% 11%




• Molecule 50: 30S ribosomal protein S19

Chain 2s:  83% 6% 11% 29%




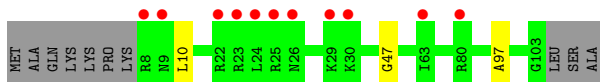
• Molecule 51: 30S ribosomal protein S20

Chain 1t:  84% 7% 9% 6%




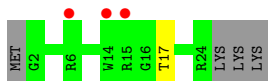
• Molecule 51: 30S ribosomal protein S20

Chain 2t:  88% 9% 10%




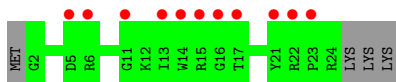
• Molecule 52: 30S ribosomal protein Thx

Chain 1u:  81% 15% 11%



• Molecule 52: 30S ribosomal protein Thx

Chain 2u:  85% 15% 41%

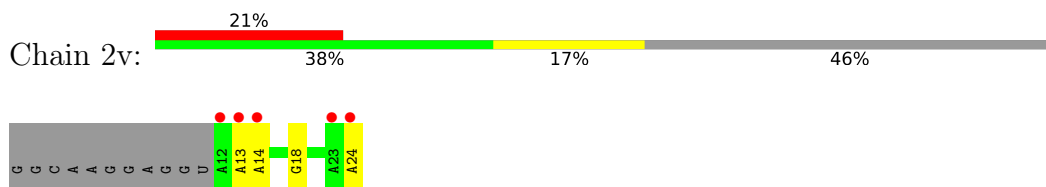


• Molecule 53: mRNA

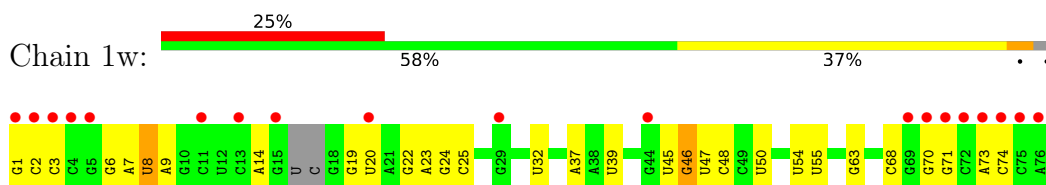
Chain 1v:  46% 8% 46% 21%



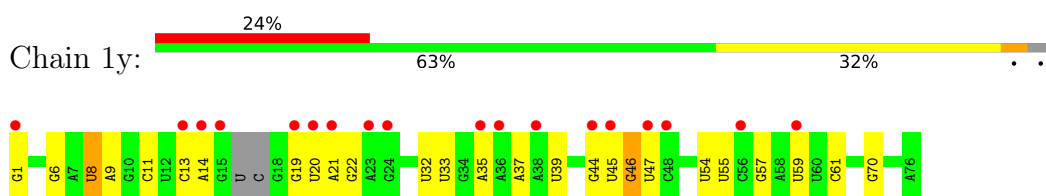
- Molecule 53: mRNA



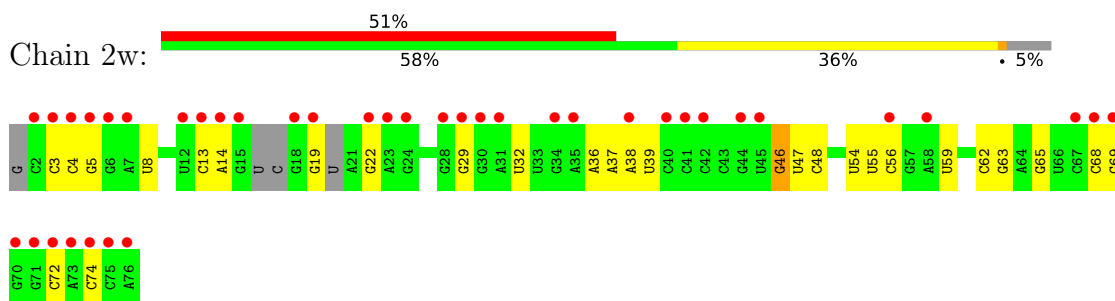
- Molecule 54: A-site and E-site tRNAs



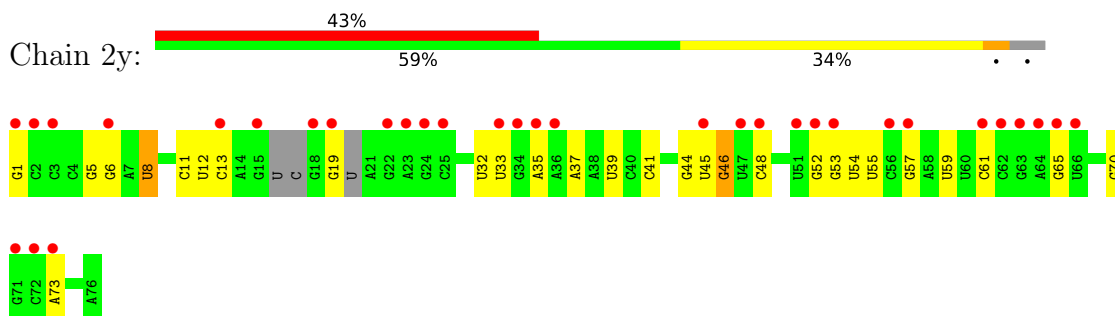
- Molecule 54: A-site and E-site tRNAs



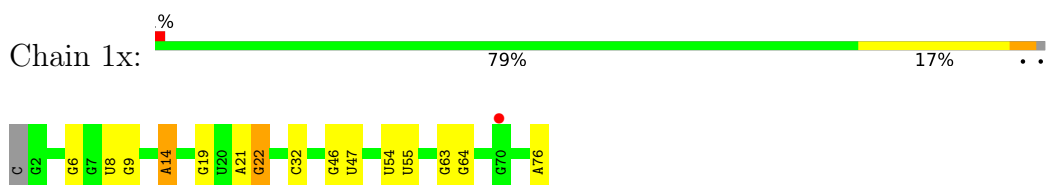
- Molecule 54: A-site and E-site tRNAs




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



- Molecule 55: P-site tRNA



● Molecule 55: P-site tRNA

Chain 2x:  %



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.99Å 448.29Å 618.52Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	127.28 – 2.60 254.56 – 2.60	Depositor EDS
% Data completeness (in resolution range)	98.7 (127.28-2.60) 98.7 (254.56-2.60)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.19 (at 2.62Å)	Xtrriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.229 , 0.276 0.230 , 0.277	Depositor DCC
R_{free} test set	86986 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	52.3	Xtrriage
Anisotropy	0.172	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 51.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.21$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	300833	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.59% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	1A	0.33	0/69009	0.82	39/107712 (0.0%)
1	2A	0.26	0/67293	0.78	15/105034 (0.0%)
2	1B	0.32	1/2882 (0.0%)	0.74	0/4494
2	2B	0.30	1/2879 (0.0%)	0.80	1/4487 (0.0%)
3	1D	0.32	0/2186	0.53	0/2944
3	2D	0.28	0/2186	0.49	0/2944
4	1E	0.28	0/1592	0.49	0/2149
4	2E	0.26	0/1592	0.48	0/2149
5	1F	0.27	0/1619	0.47	0/2193
5	2F	0.26	0/1615	0.44	0/2188
6	1G	0.27	0/1448	0.45	0/1957
6	2G	0.25	0/1453	0.45	0/1963
7	1H	0.27	0/1356	0.45	0/1834
7	2H	0.25	0/1356	0.44	0/1834
8	1I	0.25	0/1112	0.44	0/1514
8	2I	0.25	0/1079	0.47	0/1475
9	1N	0.28	0/1144	0.46	0/1543
9	2N	0.25	0/1144	0.43	0/1543
10	1O	0.30	0/943	0.49	0/1269
10	2O	0.28	0/943	0.48	0/1269
11	1P	0.27	0/1152	0.49	0/1533
11	2P	0.27	0/1152	0.48	0/1533
12	1Q	0.29	0/1143	0.46	0/1527
12	2Q	0.26	0/1143	0.45	0/1527
13	1R	0.26	0/982	0.47	0/1312
13	2R	0.24	0/982	0.44	0/1312
14	1S	0.27	0/883	0.48	0/1176
14	2S	0.25	0/880	0.43	0/1172
15	1T	0.26	0/1105	0.45	0/1477
15	2T	0.24	0/1097	0.44	0/1468
16	1U	0.29	0/977	0.44	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.25	0/977	0.39	0/1301
17	1V	0.30	0/782	0.52	0/1049
17	2V	0.27	0/782	0.49	0/1049
18	1W	0.28	0/897	0.47	0/1205
18	2W	0.26	0/897	0.42	0/1205
19	1X	0.30	0/764	0.50	0/1025
19	2X	0.25	0/764	0.45	0/1025
20	1Y	0.29	0/819	0.48	0/1095
20	2Y	0.27	0/819	0.49	0/1095
21	1Z	0.27	0/1267	0.48	0/1717
21	2Z	0.26	0/1299	0.48	0/1763
22	10	0.29	0/662	0.48	0/881
22	20	0.27	0/662	0.49	0/881
23	11	0.27	0/762	0.47	0/1014
23	21	0.26	0/762	0.46	0/1014
24	12	0.26	0/590	0.41	0/781
24	22	0.24	0/590	0.36	0/781
25	13	0.27	0/474	0.45	0/635
25	23	0.25	0/469	0.41	0/630
26	14	0.29	0/565	0.53	0/761
26	24	0.29	0/545	0.49	0/737
27	15	0.27	0/469	0.52	0/635
27	25	0.27	0/469	0.44	0/635
28	16	0.28	0/460	0.48	0/613
28	26	0.26	0/456	0.44	0/608
29	17	0.26	0/426	0.45	0/561
29	27	0.24	0/426	0.45	0/561
30	18	0.28	0/525	0.49	0/691
30	28	0.25	0/525	0.44	0/691
31	19	0.27	0/310	0.48	0/407
31	29	0.26	0/310	0.50	0/407
32	1a	0.26	0/35795	0.81	24/55864 (0.0%)
32	2a	0.25	0/35886	0.81	20/56005 (0.0%)
33	1b	0.25	0/1881	0.45	0/2542
33	2b	0.26	0/1860	0.45	0/2518
34	1c	0.25	0/1572	0.43	0/2126
34	2c	0.25	0/1566	0.45	0/2119
35	1d	0.25	0/1685	0.42	0/2262
35	2d	0.25	0/1704	0.43	0/2284
36	1e	0.26	0/1145	0.48	0/1543
36	2e	0.25	0/1149	0.47	0/1548
37	1f	0.26	0/823	0.45	0/1115
37	2f	0.26	0/829	0.44	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.24	0/1250	0.41	0/1679
38	2g	0.24	0/1254	0.41	0/1683
39	1h	0.25	0/1108	0.44	0/1494
39	2h	0.24	0/1108	0.43	0/1494
40	1i	0.27	0/1002	0.47	0/1346
40	2i	0.26	0/997	0.47	0/1343
41	1j	0.24	0/722	0.48	0/982
41	2j	0.25	0/727	0.48	0/988
42	1k	0.25	0/844	0.45	0/1145
42	2k	0.25	0/848	0.44	0/1149
43	1l	0.26	0/937	0.49	0/1260
43	2l	0.25	0/937	0.47	0/1260
44	1m	0.26	0/969	0.43	0/1302
44	2m	0.26	0/961	0.47	0/1291
45	1n	0.25	0/501	0.41	0/664
45	2n	0.25	0/501	0.40	0/664
46	1o	0.24	0/739	0.42	0/985
46	2o	0.23	0/739	0.39	0/985
47	1p	0.24	0/697	0.44	0/939
47	2p	0.26	0/693	0.47	0/935
48	1q	0.25	0/836	0.44	0/1117
48	2q	0.25	0/836	0.44	0/1117
49	1r	0.25	0/560	0.42	0/746
49	2r	0.24	0/560	0.42	0/746
50	1s	0.25	0/667	0.50	0/900
50	2s	0.27	0/661	0.53	0/893
51	1t	0.24	0/730	0.41	0/965
51	2t	0.24	0/729	0.40	0/965
52	1u	0.24	0/203	0.44	0/266
52	2u	0.27	0/203	0.46	0/266
53	1v	0.34	0/310	0.88	0/480
53	2v	0.38	0/310	0.89	0/480
54	1w	0.43	1/1606 (0.1%)	1.04	1/2497 (0.0%)
54	1y	0.41	1/1606 (0.1%)	1.00	4/2497 (0.2%)
54	2w	0.34	0/1556	0.99	0/2418
54	2y	0.41	1/1583 (0.1%)	0.98	3/2459 (0.1%)
55	1x	0.39	0/1725	1.02	10/2689 (0.4%)
55	2x	0.31	0/1725	0.92	1/2689 (0.0%)
All	All	0.28	5/316686 (0.0%)	0.73	118/474113 (0.0%)

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

sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
26	14	0	1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1y	1	G	OP3-P	-10.51	1.48	1.61
54	1w	1	G	OP3-P	-10.46	1.48	1.61
2	2B	1	U	OP3-P	-10.40	1.48	1.61
54	2y	1	G	OP3-P	-10.33	1.48	1.61
2	1B	1	U	OP3-P	-10.31	1.48	1.61

All (118) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1075	C	N1-C2-O2	10.47	125.18	118.90
1	1A	801	G	O5'-P-OP2	-9.90	96.79	105.70
1	1A	975	C	N1-C2-O2	-9.05	113.47	118.90
2	2B	80	U	O4'-C1'-N1	8.59	115.07	108.20
1	2A	2473	U	C2-N1-C1'	7.86	127.13	117.70
32	2a	1054	C	C2-N1-C1'	7.79	127.37	118.80
1	1A	975	C	C2-N1-C1'	-7.78	110.24	118.80
54	2y	33	U	C2-N1-C1'	7.74	126.99	117.70
32	1a	1027	C	N3-C4-C5	-7.66	118.83	121.90
55	1x	46	G	C6-N1-C2	-7.57	120.56	125.10
54	1y	33	U	C2-N1-C1'	7.53	126.74	117.70
1	1A	2167	U	C2-N1-C1'	7.48	126.68	117.70
1	1A	1075	C	C2-N3-C4	7.46	123.63	119.90
32	2a	754	C	C2-N1-C1'	7.40	126.94	118.80
1	1A	12	U	C2-N1-C1'	7.37	126.55	117.70
32	1a	1030(B)	C	C2-N1-C1'	7.19	126.71	118.80
55	1x	14	A	C4-C5-C6	7.12	120.56	117.00
32	2a	1054	C	N1-C2-O2	7.11	123.16	118.90
1	2A	2139	C	C2-N1-C1'	7.06	126.57	118.80
32	1a	1034	G	C6-N1-C2	6.95	129.27	125.10
32	1a	1030	C	N1-C2-O2	6.92	123.05	118.90
32	1a	1030(B)	C	N1-C2-O2	6.90	123.04	118.90
32	1a	1027	C	C5-C4-N4	6.88	125.02	120.20
32	1a	1034	G	N3-C2-N2	6.85	124.69	119.90
32	2a	754	C	N1-C2-O2	6.80	122.98	118.90
54	1y	33	U	N1-C2-O2	6.75	127.53	122.80
32	2a	1158	C	N1-C2-O2	6.61	122.86	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1063	G	N3-C2-N2	6.58	124.51	119.90
1	2A	2473	U	N1-C2-O2	6.57	127.39	122.80
32	2a	1158	C	C2-N1-C1'	6.53	125.98	118.80
1	1A	2167	U	N1-C2-O2	6.51	127.36	122.80
32	1a	1025	U	N1-C2-O2	6.40	127.28	122.80
1	1A	2061	G	O5'-P-OP2	-6.40	99.94	105.70
32	1a	841	U	C5-C6-N1	6.37	125.88	122.70
1	1A	1058	G	C5-C6-O6	6.30	132.38	128.60
32	1a	266	G	P-O3'-C3'	6.27	127.22	119.70
54	2y	33	U	N1-C2-O2	6.16	127.11	122.80
1	1A	2167	U	N3-C2-O2	-6.14	117.90	122.20
1	1A	1176	G	OP1-P-O3'	6.14	118.70	105.20
1	1A	1313	U	C2-N1-C1'	6.13	125.06	117.70
55	1x	22	G	C4-C5-C6	-6.12	115.13	118.80
1	1A	889	C	N1-C2-O2	6.08	122.55	118.90
32	1a	1030(B)	C	N3-C2-O2	-6.07	117.65	121.90
1	1A	512	G	O4'-C1'-N9	6.06	113.05	108.20
32	2a	1054	C	N3-C2-O2	-6.06	117.66	121.90
1	1A	624	C	O5'-P-OP1	-6.05	100.25	105.70
32	2a	1028	C	C2-N3-C4	6.04	122.92	119.90
32	1a	754	C	C2-N1-C1'	6.02	125.42	118.80
1	2A	2139	C	C6-N1-C1'	-6.01	113.58	120.80
55	1x	22	G	N1-C6-O6	-5.99	116.31	119.90
55	1x	14	A	C5-N7-C8	5.96	106.88	103.90
1	2A	1313	U	C2-N1-C1'	5.94	124.83	117.70
1	2A	2140	C	C2-N1-C1'	5.93	125.32	118.80
54	2y	33	U	N3-C2-O2	-5.89	118.08	122.20
32	2a	1001(A)	G	N3-C4-N9	5.87	129.52	126.00
1	1A	1075	C	C2-N1-C1'	5.87	125.26	118.80
32	2a	1039	C	N1-C2-O2	5.87	122.42	118.90
32	1a	1027	C	C6-N1-C1'	5.87	127.84	120.80
55	1x	22	G	C8-N9-C1'	5.86	134.62	127.00
1	1A	1075	C	N3-C2-O2	-5.85	117.81	121.90
1	1A	1063	G	C5-C6-O6	5.85	132.11	128.60
32	1a	1034	G	C5-C6-O6	5.81	132.09	128.60
1	2A	2473	U	N3-C2-O2	-5.81	118.13	122.20
32	1a	1030(B)	C	C6-N1-C2	-5.80	117.98	120.30
1	1A	1063	G	C6-N1-C2	5.78	128.57	125.10
54	1w	22	G	N1-C6-O6	5.77	123.36	119.90
55	1x	22	G	N3-C4-N9	-5.72	122.56	126.00
54	1y	33	U	N3-C2-O2	-5.71	118.20	122.20
1	1A	1080	C	N3-C4-C5	-5.70	119.62	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	975	C	C6-N1-C1'	5.69	127.63	120.80
1	1A	1080	C	C2-N3-C4	5.64	122.72	119.90
1	2A	2136	C	N1-C2-O2	5.64	122.28	118.90
1	1A	1102	C	C2-N1-C1'	5.60	124.97	118.80
1	1A	847	U	C2-N1-C1'	5.57	124.38	117.70
32	1a	1158	C	C2-N1-C1'	5.57	124.93	118.80
32	1a	1034	G	N9-C4-C5	-5.52	103.19	105.40
1	2A	2149	G	N3-C4-N9	5.51	129.31	126.00
1	2A	2174	C	N1-C2-O2	5.48	122.19	118.90
1	1A	2790	A	C2-N3-C4	5.44	113.32	110.60
1	1A	1313	U	N3-C2-O2	-5.43	118.40	122.20
32	2a	266	G	P-O3'-C3'	5.41	126.19	119.70
55	1x	22	G	C6-C5-N7	5.40	133.64	130.40
1	1A	2848	G	O4'-C1'-N9	5.39	112.51	108.20
32	2a	1158	C	N3-C2-O2	-5.38	118.13	121.90
32	1a	1025	U	C2-N1-C1'	5.37	124.15	117.70
1	2A	90	U	C2-N1-C1'	5.37	124.14	117.70
32	2a	65	U	P-O3'-C3'	5.36	126.14	119.70
32	2a	1054	C	C6-N1-C1'	-5.35	114.38	120.80
1	2A	528	A	OP1-P-O3'	5.35	116.97	105.20
1	1A	1174	A	P-O3'-C3'	5.34	126.11	119.70
1	1A	975	C	N3-C2-O2	5.34	125.64	121.90
32	2a	754	C	N3-C2-O2	-5.34	118.17	121.90
1	2A	2473	U	C6-N1-C1'	-5.33	113.73	121.20
32	2a	1054	C	C6-N1-C2	-5.33	118.17	120.30
1	1A	1313	U	N1-C2-O2	5.31	126.52	122.80
1	1A	787	U	O5'-P-OP1	-5.24	100.98	105.70
1	1A	1102	C	N1-C2-O2	5.24	122.04	118.90
32	1a	1027	C	N3-C2-O2	-5.23	118.24	121.90
1	1A	12	U	C6-N1-C1'	-5.23	113.88	121.20
55	1x	14	A	C5-C6-N1	-5.20	115.10	117.70
32	1a	98	G	N3-C4-N9	5.19	129.12	126.00
32	1a	1030	C	C2-N3-C4	5.18	122.49	119.90
1	1A	889	C	C2-N1-C1'	5.18	124.50	118.80
1	1A	568	U	C5-C4-O4	-5.17	122.80	125.90
55	1x	22	G	C4-N9-C1'	-5.17	119.78	126.50
32	2a	1028	C	C5-C4-N4	5.15	123.81	120.20
32	2a	754	C	C6-N1-C1'	-5.13	114.64	120.80
1	2A	2152	G	N3-C4-N9	5.12	129.07	126.00
1	1A	548	A	P-O3'-C3'	5.11	125.84	119.70
32	1a	754	C	N1-C2-O2	5.09	121.95	118.90
32	2a	204	U	C2-N1-C1'	5.09	123.81	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1075	C	C5-C6-N1	5.07	123.54	121.00
1	2A	2152	G	C5-C6-O6	-5.07	125.56	128.60
54	1y	33	U	C6-N1-C1'	-5.06	114.12	121.20
32	2a	1065	U	P-O3'-C3'	5.04	125.75	119.70
32	1a	1067	A	P-O3'-C3'	5.01	125.72	119.70
32	1a	841	U	C6-N1-C2	-5.01	117.99	121.00
55	2x	17	C	C2-N1-C1'	5.01	124.31	118.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	14	57	GLU	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%)	261 (96%)	11 (4%)	1 (0%)	34	57
3	2D	273/276 (99%)	261 (96%)	11 (4%)	1 (0%)	34	57
4	1E	202/206 (98%)	194 (96%)	7 (4%)	1 (0%)	29	52
4	2E	202/206 (98%)	195 (96%)	6 (3%)	1 (0%)	29	52
5	1F	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	29	52
5	2F	201/210 (96%)	197 (98%)	1 (0%)	3 (2%)	10	21
6	1G	179/182 (98%)	168 (94%)	10 (6%)	1 (1%)	25	47
6	2G	179/182 (98%)	159 (89%)	18 (10%)	2 (1%)	14	30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	1H	172/180 (96%)	163 (95%)	8 (5%)	1 (1%)	25	47
7	2H	172/180 (96%)	160 (93%)	10 (6%)	2 (1%)	13	27
8	1I	144/148 (97%)	137 (95%)	7 (5%)	0	100	100
8	2I	144/148 (97%)	134 (93%)	10 (7%)	0	100	100
9	1N	138/140 (99%)	135 (98%)	3 (2%)	0	100	100
9	2N	138/140 (99%)	133 (96%)	5 (4%)	0	100	100
10	1O	120/122 (98%)	116 (97%)	4 (3%)	0	100	100
10	2O	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
11	1P	147/150 (98%)	139 (95%)	8 (5%)	0	100	100
11	2P	147/150 (98%)	141 (96%)	6 (4%)	0	100	100
12	1Q	139/141 (99%)	129 (93%)	10 (7%)	0	100	100
12	2Q	139/141 (99%)	132 (95%)	7 (5%)	0	100	100
13	1R	116/118 (98%)	111 (96%)	5 (4%)	0	100	100
13	2R	116/118 (98%)	112 (97%)	4 (3%)	0	100	100
14	1S	108/112 (96%)	103 (95%)	5 (5%)	0	100	100
14	2S	108/112 (96%)	102 (94%)	6 (6%)	0	100	100
15	1T	129/146 (88%)	122 (95%)	7 (5%)	0	100	100
15	2T	129/146 (88%)	124 (96%)	5 (4%)	0	100	100
16	1U	114/118 (97%)	114 (100%)	0	0	100	100
16	2U	114/118 (97%)	113 (99%)	1 (1%)	0	100	100
17	1V	99/101 (98%)	93 (94%)	5 (5%)	1 (1%)	15	32
17	2V	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	15	32
18	1W	110/113 (97%)	108 (98%)	2 (2%)	0	100	100
18	2W	110/113 (97%)	108 (98%)	2 (2%)	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%)	4 (4%)	0	100	100
20	2Y	105/110 (96%)	102 (97%)	3 (3%)	0	100	100
21	1Z	148/206 (72%)	140 (95%)	8 (5%)	0	100	100
21	2Z	156/206 (76%)	142 (91%)	14 (9%)	0	100	100
22	10	81/85 (95%)	80 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	20	81/85 (95%)	77 (95%)	4 (5%)	0	100	100
23	11	95/98 (97%)	93 (98%)	1 (1%)	1 (1%)	14	30
23	21	95/98 (97%)	93 (98%)	2 (2%)	0	100	100
24	12	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
24	22	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
25	13	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
25	23	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
26	14	67/71 (94%)	57 (85%)	7 (10%)	3 (4%)	2	3
26	24	67/71 (94%)	54 (81%)	11 (16%)	2 (3%)	4	7
27	15	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
27	25	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
28	16	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
28	26	51/54 (94%)	51 (100%)	0	0	100	100
29	17	46/49 (94%)	46 (100%)	0	0	100	100
29	27	46/49 (94%)	44 (96%)	2 (4%)	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%)	34 (97%)	1 (3%)	0	100	100
33	1b	229/256 (90%)	202 (88%)	20 (9%)	7 (3%)	4	6
33	2b	229/256 (90%)	203 (89%)	20 (9%)	6 (3%)	5	9
34	1c	204/239 (85%)	187 (92%)	15 (7%)	2 (1%)	15	32
34	2c	204/239 (85%)	187 (92%)	15 (7%)	2 (1%)	15	32
35	1d	206/209 (99%)	198 (96%)	7 (3%)	1 (0%)	29	52
35	2d	206/209 (99%)	193 (94%)	11 (5%)	2 (1%)	15	32
36	1e	146/162 (90%)	140 (96%)	5 (3%)	1 (1%)	22	43
36	2e	146/162 (90%)	141 (97%)	5 (3%)	0	100	100
37	1f	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
37	2f	98/101 (97%)	96 (98%)	2 (2%)	0	100	100
38	1g	153/156 (98%)	144 (94%)	7 (5%)	2 (1%)	12	24
38	2g	153/156 (98%)	140 (92%)	11 (7%)	2 (1%)	12	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	1h	135/138 (98%)	132 (98%)	3 (2%)	0	100	100
39	2h	135/138 (98%)	130 (96%)	5 (4%)	0	100	100
40	1i	125/128 (98%)	112 (90%)	13 (10%)	0	100	100
40	2i	125/128 (98%)	109 (87%)	16 (13%)	0	100	100
41	1j	95/105 (90%)	85 (90%)	6 (6%)	4 (4%)	3	3
41	2j	94/105 (90%)	81 (86%)	6 (6%)	7 (7%)	1	1
42	1k	112/129 (87%)	104 (93%)	6 (5%)	2 (2%)	8	16
42	2k	112/129 (87%)	104 (93%)	6 (5%)	2 (2%)	8	16
43	1l	119/132 (90%)	112 (94%)	6 (5%)	1 (1%)	19	39
43	2l	119/132 (90%)	112 (94%)	7 (6%)	0	100	100
44	1m	121/126 (96%)	112 (93%)	9 (7%)	0	100	100
44	2m	120/126 (95%)	111 (92%)	9 (8%)	0	100	100
45	1n	58/61 (95%)	56 (97%)	2 (3%)	0	100	100
45	2n	58/61 (95%)	54 (93%)	4 (7%)	0	100	100
46	1o	86/89 (97%)	84 (98%)	2 (2%)	0	100	100
46	2o	86/89 (97%)	84 (98%)	2 (2%)	0	100	100
47	1p	80/88 (91%)	74 (92%)	6 (8%)	0	100	100
47	2p	80/88 (91%)	77 (96%)	3 (4%)	0	100	100
48	1q	97/105 (92%)	94 (97%)	2 (2%)	1 (1%)	15	32
48	2q	97/105 (92%)	93 (96%)	3 (3%)	1 (1%)	15	32
49	1r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
49	2r	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
50	1s	81/93 (87%)	72 (89%)	9 (11%)	0	100	100
50	2s	81/93 (87%)	72 (89%)	8 (10%)	1 (1%)	13	27
51	1t	94/106 (89%)	86 (92%)	5 (5%)	3 (3%)	4	6
51	2t	94/106 (89%)	85 (90%)	6 (6%)	3 (3%)	4	6
52	1u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
52	2u	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
All	All	11370/12128 (94%)	10749 (94%)	549 (5%)	72 (1%)	25	47

All (72) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	1F	130	ALA
7	1H	126	PRO
23	11	3	LYS
26	14	58	ARG
33	1b	10	LEU
33	1b	22	LYS
7	2H	126	PRO
26	24	55	ARG
26	24	65	ASP
33	2b	10	LEU
41	2j	75	ILE
51	2t	10	LEU
33	1b	9	GLU
41	1j	55	LYS
41	1j	75	ILE
35	2d	181	MET
38	2g	7	ALA
41	2j	33	GLN
42	2k	49	GLY
3	1D	3	VAL
6	1G	43	LEU
26	14	65	ASP
35	1d	5	ILE
48	1q	33	GLY
51	1t	10	LEU
51	1t	97	ALA
34	2c	156	ARG
41	2j	29	ARG
41	2j	78	ASN
41	2j	79	ARG
4	1E	52	LEU
33	1b	20	GLU
33	1b	125	PRO
34	1c	107	GLN
38	1g	114	ARG
41	1j	33	GLN
41	1j	78	ASN
4	2E	52	LEU
5	2F	130	ALA
7	2H	47	GLU
17	2V	79	VAL
33	2b	16	HIS
33	2b	20	GLU

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Mol	Chain	Res	Type
34	2c	85	ARG
51	2t	97	ALA
17	1V	79	VAL
33	1b	17	PHE
33	1b	37	ASN
38	1g	80	VAL
43	1l	91	LYS
3	2D	3	VAL
5	2F	26	ALA
6	2G	49	ASP
6	2G	52	ILE
33	2b	17	PHE
35	2d	5	ILE
38	2g	80	VAL
48	2q	68	ARG
51	2t	47	GLY
34	1c	66	VAL
51	1t	47	GLY
5	2F	89	VAL
33	2b	9	GLU
50	2s	9	VAL
26	14	64	GLY
42	1k	105	VAL
33	2b	127	ILE
42	2k	105	VAL
36	1e	69	VAL
41	2j	24	VAL
41	2j	39	PRO
42	1k	49	GLY

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%)	200 (93%)	15 (7%)	15	30
3	2D	215/218 (99%)	201 (94%)	14 (6%)	17	34

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	1E	164/166 (99%)	151 (92%)	13 (8%)	12	24
4	2E	164/166 (99%)	156 (95%)	8 (5%)	25	48
5	1F	160/166 (96%)	147 (92%)	13 (8%)	11	23
5	2F	159/166 (96%)	147 (92%)	12 (8%)	13	27
6	1G	143/156 (92%)	136 (95%)	7 (5%)	25	48
6	2G	143/156 (92%)	129 (90%)	14 (10%)	8	15
7	1H	144/148 (97%)	137 (95%)	7 (5%)	25	48
7	2H	144/148 (97%)	140 (97%)	4 (3%)	43	69
8	1I	113/124 (91%)	108 (96%)	5 (4%)	28	53
8	2I	105/124 (85%)	96 (91%)	9 (9%)	10	20
9	1N	118/119 (99%)	111 (94%)	7 (6%)	19	39
9	2N	118/119 (99%)	114 (97%)	4 (3%)	37	63
10	1O	100/100 (100%)	97 (97%)	3 (3%)	41	67
10	2O	100/100 (100%)	97 (97%)	3 (3%)	41	67
11	1P	115/116 (99%)	110 (96%)	5 (4%)	29	54
11	2P	115/116 (99%)	111 (96%)	4 (4%)	36	62
12	1Q	111/111 (100%)	106 (96%)	5 (4%)	27	52
12	2Q	111/111 (100%)	108 (97%)	3 (3%)	44	71
13	1R	101/101 (100%)	90 (89%)	11 (11%)	6	11
13	2R	101/101 (100%)	90 (89%)	11 (11%)	6	11
14	1S	86/88 (98%)	82 (95%)	4 (5%)	26	50
14	2S	85/88 (97%)	84 (99%)	1 (1%)	71	87
15	1T	115/127 (91%)	111 (96%)	4 (4%)	36	62
15	2T	113/127 (89%)	111 (98%)	2 (2%)	59	80
16	1U	93/94 (99%)	89 (96%)	4 (4%)	29	54
16	2U	93/94 (99%)	90 (97%)	3 (3%)	39	65
17	1V	80/82 (98%)	69 (86%)	11 (14%)	3	6
17	2V	80/82 (98%)	71 (89%)	9 (11%)	6	10
18	1W	90/92 (98%)	85 (94%)	5 (6%)	21	42
18	2W	90/92 (98%)	86 (96%)	4 (4%)	28	53
19	1X	77/78 (99%)	75 (97%)	2 (3%)	46	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
19	2X	77/78 (99%)	75 (97%)	2 (3%)	46	72
20	1Y	85/91 (93%)	79 (93%)	6 (7%)	14	29
20	2Y	85/91 (93%)	80 (94%)	5 (6%)	19	39
21	1Z	135/179 (75%)	127 (94%)	8 (6%)	19	39
21	2Z	137/179 (76%)	135 (98%)	2 (2%)	65	83
22	10	65/67 (97%)	62 (95%)	3 (5%)	27	51
22	20	65/67 (97%)	64 (98%)	1 (2%)	65	83
23	11	80/83 (96%)	76 (95%)	4 (5%)	24	47
23	21	80/83 (96%)	76 (95%)	4 (5%)	24	47
24	12	65/67 (97%)	63 (97%)	2 (3%)	40	66
24	22	65/67 (97%)	65 (100%)	0	100	100
25	13	51/52 (98%)	48 (94%)	3 (6%)	19	39
25	23	50/52 (96%)	48 (96%)	2 (4%)	31	57
26	14	59/63 (94%)	52 (88%)	7 (12%)	5	9
26	24	53/63 (84%)	51 (96%)	2 (4%)	33	59
27	15	50/52 (96%)	47 (94%)	3 (6%)	19	39
27	25	50/52 (96%)	48 (96%)	2 (4%)	31	57
28	16	51/52 (98%)	49 (96%)	2 (4%)	32	58
28	26	50/52 (96%)	48 (96%)	2 (4%)	31	57
29	17	41/42 (98%)	36 (88%)	5 (12%)	5	9
29	27	41/42 (98%)	36 (88%)	5 (12%)	5	9
30	18	54/55 (98%)	50 (93%)	4 (7%)	13	28
30	28	54/55 (98%)	52 (96%)	2 (4%)	34	60
31	19	34/34 (100%)	33 (97%)	1 (3%)	42	68
31	29	34/34 (100%)	32 (94%)	2 (6%)	19	39
33	1b	192/220 (87%)	186 (97%)	6 (3%)	40	66
33	2b	187/220 (85%)	180 (96%)	7 (4%)	34	60
34	1c	142/188 (76%)	138 (97%)	4 (3%)	43	69
34	2c	140/188 (74%)	134 (96%)	6 (4%)	29	54
35	1d	169/181 (93%)	156 (92%)	13 (8%)	13	25
35	2d	173/181 (96%)	163 (94%)	10 (6%)	20	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
36	1e	113/123 (92%)	108 (96%)	5 (4%)	28	53
36	2e	114/123 (93%)	111 (97%)	3 (3%)	46	72
37	1f	84/90 (93%)	79 (94%)	5 (6%)	19	39
37	2f	85/90 (94%)	82 (96%)	3 (4%)	36	62
38	1g	119/127 (94%)	114 (96%)	5 (4%)	30	55
38	2g	120/127 (94%)	117 (98%)	3 (2%)	47	73
39	1h	114/119 (96%)	108 (95%)	6 (5%)	22	45
39	2h	114/119 (96%)	108 (95%)	6 (5%)	22	45
40	1i	90/99 (91%)	87 (97%)	3 (3%)	38	64
40	2i	89/99 (90%)	84 (94%)	5 (6%)	21	42
41	1j	66/92 (72%)	63 (96%)	3 (4%)	27	52
41	2j	69/92 (75%)	66 (96%)	3 (4%)	29	54
42	1k	82/99 (83%)	80 (98%)	2 (2%)	49	74
42	2k	83/99 (84%)	82 (99%)	1 (1%)	71	87
43	1l	96/108 (89%)	92 (96%)	4 (4%)	30	55
43	2l	96/108 (89%)	92 (96%)	4 (4%)	30	55
44	1m	93/101 (92%)	91 (98%)	2 (2%)	52	76
44	2m	92/101 (91%)	86 (94%)	6 (6%)	17	34
45	1n	49/50 (98%)	44 (90%)	5 (10%)	7	14
45	2n	49/50 (98%)	44 (90%)	5 (10%)	7	14
46	1o	78/80 (98%)	77 (99%)	1 (1%)	69	86
46	2o	78/80 (98%)	77 (99%)	1 (1%)	69	86
47	1p	69/74 (93%)	66 (96%)	3 (4%)	29	54
47	2p	68/74 (92%)	64 (94%)	4 (6%)	19	39
48	1q	94/97 (97%)	90 (96%)	4 (4%)	29	54
48	2q	94/97 (97%)	93 (99%)	1 (1%)	73	88
49	1r	59/77 (77%)	56 (95%)	3 (5%)	24	46
49	2r	59/77 (77%)	55 (93%)	4 (7%)	16	32
50	1s	69/80 (86%)	68 (99%)	1 (1%)	67	85
50	2s	67/80 (84%)	62 (92%)	5 (8%)	13	27
51	1t	70/82 (85%)	66 (94%)	4 (6%)	20	41

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
51	2t	70/82 (85%)	70 (100%)	0	100	100
52	1u	18/22 (82%)	17 (94%)	1 (6%)	21	42
52	2u	18/22 (82%)	18 (100%)	0	100	100
All	All	9303/10064 (92%)	8841 (95%)	462 (5%)	24	47

All (462) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	1D	14	ARG
3	1D	22	SER
3	1D	32	SER
3	1D	37	LEU
3	1D	94	LEU
3	1D	99	ASP
3	1D	142	VAL
3	1D	155	LEU
3	1D	157	ARG
3	1D	162	SER
3	1D	211	ARG
3	1D	217	ARG
3	1D	221	VAL
3	1D	229	VAL
3	1D	242	ARG
4	1E	19	ARG
4	1E	21	VAL
4	1E	24	THR
4	1E	47	VAL
4	1E	75	VAL
4	1E	78	LEU
4	1E	111	ARG
4	1E	113	PHE
4	1E	116	VAL
4	1E	170	LEU
4	1E	175	VAL
4	1E	181	LEU
4	1E	184	VAL
5	1F	33	LEU
5	1F	43	LYS
5	1F	44	ARG
5	1F	53	THR
5	1F	57	VAL

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Mol	Chain	Res	Type
5	1F	88	VAL
5	1F	106	ARG
5	1F	132	VAL
5	1F	162	LEU
5	1F	170	LEU
5	1F	183	VAL
5	1F	192	LEU
5	1F	201	VAL
6	1G	3	LEU
6	1G	21	ARG
6	1G	43	LEU
6	1G	49	ASP
6	1G	82	LEU
6	1G	140	ILE
6	1G	159	VAL
7	1H	15	VAL
7	1H	23	ARG
7	1H	51	ARG
7	1H	71	LEU
7	1H	84	SER
7	1H	122	THR
7	1H	124	GLU
8	1I	9	LEU
8	1I	38	LEU
8	1I	92	VAL
8	1I	116	LEU
8	1I	129	THR
9	1N	28	THR
9	1N	32	THR
9	1N	33	LEU
9	1N	34	LEU
9	1N	46	VAL
9	1N	99	LEU
9	1N	121	LYS
10	1O	10	VAL
10	1O	35	VAL
10	1O	98	VAL
11	1P	3	LEU
11	1P	95	VAL
11	1P	101	VAL
11	1P	125	VAL
11	1P	147	LEU

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Mol	Chain	Res	Type
12	1Q	6	ARG
12	1Q	7	MET
12	1Q	35	VAL
12	1Q	75	THR
12	1Q	101	ARG
13	1R	15	SER
13	1R	33	ARG
13	1R	36	THR
13	1R	44	LEU
13	1R	54	LEU
13	1R	65	LEU
13	1R	67	LEU
13	1R	96	ARG
13	1R	100	LEU
13	1R	111	LEU
13	1R	114	VAL
14	1S	14	VAL
14	1S	17	ARG
14	1S	69	VAL
14	1S	110	LEU
15	1T	28	VAL
15	1T	89	VAL
15	1T	96	ARG
15	1T	128	GLU
16	1U	59	ARG
16	1U	74	LEU
16	1U	83	LEU
16	1U	95	LEU
17	1V	1	MET
17	1V	46	VAL
17	1V	51	VAL
17	1V	52	VAL
17	1V	56	SER
17	1V	61	VAL
17	1V	62	LEU
17	1V	72	VAL
17	1V	73	SER
17	1V	79	VAL
17	1V	82	ARG
18	1W	11	ARG
18	1W	17	VAL
18	1W	90	ARG

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Mol	Chain	Res	Type
18	1W	100	THR
18	1W	107	LEU
19	1X	38	GLU
19	1X	72	LYS
20	1Y	7	VAL
20	1Y	31	LEU
20	1Y	63	LYS
20	1Y	72	VAL
20	1Y	97	ARG
20	1Y	99	CYS
21	1Z	41	LEU
21	1Z	42	VAL
21	1Z	53	ILE
21	1Z	61	LEU
21	1Z	91	LEU
21	1Z	136	PHE
21	1Z	154	ASP
21	1Z	170	THR
22	10	39	ARG
22	10	55	ARG
22	10	74	ARG
23	11	11	ARG
23	11	30	VAL
23	11	80	LEU
23	11	95	LEU
24	12	3	LEU
24	12	30	ARG
25	13	23	LEU
25	13	34	GLU
25	13	60	GLU
26	14	13	ARG
26	14	31	ILE
26	14	49	PHE
26	14	53	GLU
26	14	56	VAL
26	14	58	ARG
26	14	63	TYR
27	15	6	VAL
27	15	16	ARG
27	15	29	THR
28	16	9	LEU
28	16	48	VAL

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Mol	Chain	Res	Type
29	17	9	ARG
29	17	29	LYS
29	17	39	ARG
29	17	43	THR
29	17	46	VAL
30	18	29	LYS
30	18	30	ARG
30	18	31	HIS
30	18	32	LEU
31	19	4	ARG
33	1b	83	MET
33	1b	93	VAL
33	1b	115	LEU
33	1b	121	LEU
33	1b	142	LEU
33	1b	160	ASP
34	1c	3	ASN
34	1c	89	GLU
34	1c	112	SER
34	1c	196	LEU
35	1d	5	ILE
35	1d	8	VAL
35	1d	10	ARG
35	1d	49	ARG
35	1d	52	SER
35	1d	53	ASP
35	1d	135	LEU
35	1d	140	VAL
35	1d	144	ASP
35	1d	175	SER
35	1d	182	LYS
35	1d	190	ASP
35	1d	194	LEU
36	1e	20	GLN
36	1e	41	VAL
36	1e	81	GLU
36	1e	91	LEU
36	1e	120	THR
37	1f	17	SER
37	1f	19	LEU
37	1f	25	ILE
37	1f	55	ASP

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Mol	Chain	Res	Type
37	1f	72	VAL
38	1g	6	ARG
38	1g	9	VAL
38	1g	24	THR
38	1g	79	ARG
38	1g	98	SER
39	1h	25	ASP
39	1h	52	ASP
39	1h	82	HIS
39	1h	104	ARG
39	1h	112	LEU
39	1h	137	VAL
40	1i	86	VAL
40	1i	108	VAL
40	1i	128	ARG
41	1j	19	SER
41	1j	81	THR
41	1j	92	THR
42	1k	48	ILE
42	1k	120	ARG
43	1l	27	LEU
43	1l	33	ARG
43	1l	54	LYS
43	1l	83	VAL
44	1m	43	THR
44	1m	70	LEU
45	1n	13	THR
45	1n	18	VAL
45	1n	22	THR
45	1n	31	ARG
45	1n	33	VAL
46	1o	66	LEU
47	1p	20	VAL
47	1p	21	VAL
47	1p	62	VAL
48	1q	6	LEU
48	1q	9	VAL
48	1q	35	VAL
48	1q	63	ARG
49	1r	35	ARG
49	1r	47	THR
49	1r	76	LEU

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Mol	Chain	Res	Type
50	1s	12	ASP
51	1t	8	ARG
51	1t	13	LEU
51	1t	31	SER
51	1t	84	LEU
52	1u	17	THR
3	2D	14	ARG
3	2D	54	ARG
3	2D	94	LEU
3	2D	99	ASP
3	2D	116	GLN
3	2D	134	ARG
3	2D	138	VAL
3	2D	141	VAL
3	2D	142	VAL
3	2D	157	ARG
3	2D	169	GLU
3	2D	211	ARG
3	2D	221	VAL
3	2D	260	ARG
4	2E	7	VAL
4	2E	9	VAL
4	2E	12	THR
4	2E	21	VAL
4	2E	38	THR
4	2E	116	VAL
4	2E	175	VAL
4	2E	181	LEU
5	2F	12	LEU
5	2F	46	ARG
5	2F	57	VAL
5	2F	70	THR
5	2F	88	VAL
5	2F	106	ARG
5	2F	132	VAL
5	2F	170	LEU
5	2F	183	VAL
5	2F	192	LEU
5	2F	195	ASP
5	2F	201	VAL
6	2G	3	LEU
6	2G	9	ARG

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Mol	Chain	Res	Type
6	2G	28	VAL
6	2G	31	VAL
6	2G	43	LEU
6	2G	49	ASP
6	2G	70	VAL
6	2G	79	ASN
6	2G	97	ASP
6	2G	109	VAL
6	2G	130	ASN
6	2G	140	ILE
6	2G	145	THR
6	2G	159	VAL
7	2H	15	VAL
7	2H	70	THR
7	2H	134	SER
7	2H	139	GLN
8	2I	3	VAL
8	2I	38	LEU
8	2I	47	LEU
8	2I	77	LEU
8	2I	92	VAL
8	2I	123	LEU
8	2I	127	VAL
8	2I	142	VAL
8	2I	144	VAL
9	2N	33	LEU
9	2N	34	LEU
9	2N	67	LEU
9	2N	99	LEU
10	2O	63	VAL
10	2O	69	ILE
10	2O	98	VAL
11	2P	95	VAL
11	2P	105	LEU
11	2P	131	SER
11	2P	133	SER
12	2Q	1	MET
12	2Q	38	GLU
12	2Q	75	THR
13	2R	24	GLN
13	2R	29	LEU
13	2R	33	ARG

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Mol	Chain	Res	Type
13	2R	36	THR
13	2R	44	LEU
13	2R	54	LEU
13	2R	65	LEU
13	2R	86	ARG
13	2R	91	GLN
13	2R	96	ARG
13	2R	111	LEU
14	2S	25	ARG
15	2T	57	PHE
15	2T	96	ARG
16	2U	8	VAL
16	2U	55	ARG
16	2U	95	LEU
17	2V	14	VAL
17	2V	52	VAL
17	2V	61	VAL
17	2V	62	LEU
17	2V	72	VAL
17	2V	79	VAL
17	2V	82	ARG
17	2V	95	LEU
17	2V	98	GLU
18	2W	11	ARG
18	2W	17	VAL
18	2W	23	LEU
18	2W	107	LEU
19	2X	62	LYS
19	2X	81	VAL
20	2Y	21	LYS
20	2Y	55	TYR
20	2Y	88	LYS
20	2Y	99	CYS
20	2Y	107	ASP
21	2Z	96	VAL
21	2Z	154	ASP
22	20	14	ARG
23	21	11	ARG
23	21	21	ARG
23	21	35	THR
23	21	38	SER
25	23	30	ARG

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Mol	Chain	Res	Type
25	23	57	GLU
26	24	50	VAL
26	24	67	TYR
27	25	29	THR
27	25	33	CYS
28	26	25	LYS
28	26	48	VAL
29	27	39	ARG
29	27	41	ARG
29	27	43	THR
29	27	46	VAL
29	27	48	LYS
30	28	11	LYS
30	28	30	ARG
31	29	4	ARG
31	29	7	VAL
33	2b	35	GLU
33	2b	93	VAL
33	2b	124	SER
33	2b	154	LEU
33	2b	189	ASP
33	2b	195	ASP
33	2b	213	LEU
34	2c	3	ASN
34	2c	18	TRP
34	2c	59	ARG
34	2c	103	VAL
34	2c	154	SER
34	2c	196	LEU
35	2d	8	VAL
35	2d	10	ARG
35	2d	19	LEU
35	2d	31	CYS
35	2d	34	GLU
35	2d	83	SER
35	2d	108	LEU
35	2d	135	LEU
35	2d	170	VAL
35	2d	194	LEU
36	2e	20	GLN
36	2e	41	VAL
36	2e	83	GLU

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Mol	Chain	Res	Type
37	2f	61	LEU
37	2f	72	VAL
37	2f	75	LEU
38	2g	52	GLU
38	2g	79	ARG
38	2g	113	GLU
39	2h	2	LEU
39	2h	8	ASP
39	2h	25	ASP
39	2h	51	VAL
39	2h	69	ARG
39	2h	114	THR
40	2i	23	ASN
40	2i	102	LEU
40	2i	107	ARG
40	2i	108	VAL
40	2i	128	ARG
41	2j	16	LEU
41	2j	72	VAL
41	2j	81	THR
42	2k	48	ILE
43	2l	18	VAL
43	2l	27	LEU
43	2l	113	ARG
43	2l	117	ARG
44	2m	3	ARG
44	2m	15	VAL
44	2m	64	TRP
44	2m	73	GLU
44	2m	103	THR
44	2m	114	ARG
45	2n	3	ARG
45	2n	6	LEU
45	2n	18	VAL
45	2n	22	THR
45	2n	33	VAL
46	2o	39	LEU
47	2p	20	VAL
47	2p	21	VAL
47	2p	44	THR
47	2p	67	THR
48	2q	68	ARG

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Mol	Chain	Res	Type
49	2r	21	LYS
49	2r	47	THR
49	2r	76	LEU
49	2r	85	LEU
50	2s	5	LEU
50	2s	33	THR
50	2s	47	HIS
50	2s	77	THR
50	2s	83	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (89) such sidechains are listed below:

Mol	Chain	Res	Type
3	1D	87	ASN
4	1E	48	GLN
4	1E	121	ASN
5	1F	69	HIS
6	1G	26	GLN
6	1G	108	ASN
8	1I	11	ASN
10	1O	3	GLN
12	1Q	123	HIS
15	1T	58	ASN
16	1U	94	ASN
19	1X	31	HIS
19	1X	82	GLN
20	1Y	6	HIS
21	1Z	54	HIS
22	10	29	GLN
27	15	4	HIS
34	1c	6	HIS
34	1c	162	GLN
35	1d	116	GLN
35	1d	123	HIS
35	1d	125	HIS
36	1e	78	HIS
37	1f	73	ASN
37	1f	100	ASN
38	1g	28	ASN
40	1i	3	GLN
40	1i	31	GLN
40	1i	34	ASN

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Mol	Chain	Res	Type
40	1i	58	HIS
40	1i	73	GLN
40	1i	89	ASN
40	1i	124	GLN
41	1j	21	GLN
41	1j	56	HIS
43	1l	99	HIS
46	1o	46	HIS
47	1p	65	GLN
50	1s	57	HIS
50	1s	69	HIS
3	2D	116	GLN
3	2D	126	GLN
5	2F	69	HIS
5	2F	204	ASN
11	2P	35	HIS
12	2Q	89	ASN
12	2Q	123	HIS
13	2R	13	HIS
15	2T	58	ASN
17	2V	80	GLN
19	2X	31	HIS
20	2Y	43	ASN
21	2Z	73	GLN
22	20	29	GLN
22	20	35	ASN
24	22	65	ASN
26	24	46	GLN
33	2b	40	HIS
33	2b	78	GLN
33	2b	94	ASN
34	2c	176	HIS
35	2d	74	GLN
35	2d	77	ASN
35	2d	116	GLN
35	2d	125	HIS
36	2e	78	HIS
37	2f	73	ASN
37	2f	100	ASN
38	2g	13	GLN
38	2g	28	ASN
38	2g	37	ASN

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Mol	Chain	Res	Type
38	2g	86	GLN
38	2g	109	ASN
39	2h	15	ASN
39	2h	78	GLN
40	2i	3	GLN
40	2i	58	HIS
41	2j	56	HIS
42	2k	117	ASN
43	2l	99	HIS
46	2o	62	GLN
47	2p	16	HIS
49	2r	63	GLN
50	2s	23	ASN
50	2s	47	HIS
50	2s	57	HIS
50	2s	69	HIS
50	2s	83	HIS
51	2t	42	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2861/2915 (98%)	431 (15%)	29 (1%)
1	2A	2788/2915 (95%)	482 (17%)	24 (0%)
2	1B	120/121 (99%)	11 (9%)	1 (0%)
2	2B	118/121 (97%)	33 (27%)	0
32	1a	1494/1521 (98%)	238 (15%)	0
32	2a	1498/1521 (98%)	284 (18%)	0
53	1v	12/24 (50%)	2 (16%)	0
53	2v	12/24 (50%)	4 (33%)	0
54	1w	71/76 (93%)	23 (32%)	0
54	1y	71/76 (93%)	19 (26%)	0
54	2w	68/76 (89%)	22 (32%)	0
54	2y	69/76 (90%)	21 (30%)	0
55	1x	75/77 (97%)	10 (13%)	0
55	2x	75/77 (97%)	13 (17%)	0
All	All	9332/9620 (97%)	1593 (17%)	54 (0%)

All (1593) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	9	U
1	1A	12	U
1	1A	13	A
1	1A	27	G
1	1A	34	C
1	1A	36	G
1	1A	45	C
1	1A	51	G
1	1A	55	G
1	1A	58	G
1	1A	71	A
1	1A	72	U
1	1A	74	A
1	1A	75	G
1	1A	84	A
1	1A	95	G
1	1A	102	G
1	1A	118	A
1	1A	119	A
1	1A	120	U
1	1A	125	G
1	1A	136	G
1	1A	139(A)	G
1	1A	182	A
1	1A	196	A
1	1A	199	A
1	1A	200	U
1	1A	205	G
1	1A	215	G
1	1A	216	A
1	1A	222	A
1	1A	225	A
1	1A	228	A
1	1A	229	A
1	1A	232	G
1	1A	248	G
1	1A	269	U
1	1A	271(E)	U
1	1A	271(K)	U
1	1A	271(L)	U
1	1A	271(M)	G
1	1A	271(N)	U
1	1A	271(O)	C

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Mol	Chain	Res	Type
1	1A	271(S)	G
1	1A	271(U)	G
1	1A	272(A)	U
1	1A	272(B)	G
1	1A	279	C
1	1A	311	A
1	1A	329	G
1	1A	330	A
1	1A	352	G
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	421	U
1	1A	428	A
1	1A	444	C
1	1A	448	U
1	1A	457	A
1	1A	481	G
1	1A	504	U
1	1A	505	A
1	1A	509	C
1	1A	510	C
1	1A	528	A
1	1A	530	G
1	1A	531	C
1	1A	532	A
1	1A	533	G
1	1A	545	G
1	1A	549	G
1	1A	563	G
1	1A	573	G
1	1A	574	C
1	1A	575	A
1	1A	587	C
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	621	A
1	1A	627	A
1	1A	637	A
1	1A	645	C
1	1A	646	A
1	1A	652(E)	G
1	1A	652(T)	C
1	1A	669	G
1	1A	686	G
1	1A	730	C
1	1A	740	U
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	854	G
1	1A	859	G
1	1A	866	A
1	1A	877	U
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	890	A
1	1A	895	U
1	1A	896	A
1	1A	897	C

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Mol	Chain	Res	Type
1	1A	898	C
1	1A	907	U
1	1A	910	A
1	1A	932	G
1	1A	945	A
1	1A	946	G
1	1A	953	A
1	1A	958	U
1	1A	959	A
1	1A	961	C
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	1033	U
1	1A	1038	C
1	1A	1041	C
1	1A	1044	G
1	1A	1045	A
1	1A	1046	A
1	1A	1047	G
1	1A	1048	A
1	1A	1054	A
1	1A	1055	G
1	1A	1058	G
1	1A	1063	G
1	1A	1068	G
1	1A	1071	G
1	1A	1073	A
1	1A	1074	G
1	1A	1075	C
1	1A	1076	C
1	1A	1077	A
1	1A	1078	U
1	1A	1079	C
1	1A	1082	U
1	1A	1083	U
1	1A	1084	A

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Mol	Chain	Res	Type
1	1A	1088	A
1	1A	1089	G
1	1A	1090	U
1	1A	1091	G
1	1A	1093	G
1	1A	1094	U
1	1A	1101	U
1	1A	1102	C
1	1A	1103	A
1	1A	1110	G
1	1A	1111	A
1	1A	1112	G
1	1A	1115	G
1	1A	1116	C
1	1A	1128	A
1	1A	1130	U
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	1211	U
1	1A	1220	A
1	1A	1244	G
1	1A	1247	A
1	1A	1250	G
1	1A	1253	A
1	1A	1256	G
1	1A	1271	G
1	1A	1272	A
1	1A	1273	U
1	1A	1275	A
1	1A	1276	A
1	1A	1300	U
1	1A	1301	A
1	1A	1303	G
1	1A	1313	U
1	1A	1352	U

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Mol	Chain	Res	Type
1	1A	1359	A
1	1A	1360	A
1	1A	1365	A
1	1A	1380	G
1	1A	1384	A
1	1A	1385	G
1	1A	1386	C
1	1A	1416	G
1	1A	1417	C
1	1A	1421	G
1	1A	1428	C
1	1A	1439	A
1	1A	1445	A
1	1A	1450	G
1	1A	1455	G
1	1A	1467	C
1	1A	1478	G
1	1A	1482	G
1	1A	1490	A
1	1A	1493	C
1	1A	1494	A
1	1A	1509	C
1	1A	1509(A)	A
1	1A	1558	A
1	1A	1559	G
1	1A	1566	A
1	1A	1569	A
1	1A	1578	U
1	1A	1581	G
1	1A	1584	C
1	1A	1586	A
1	1A	1608	A
1	1A	1610	A
1	1A	1648	C
1	1A	1654	A
1	1A	1664	A
1	1A	1669	A
1	1A	1674	G
1	1A	1696	G
1	1A	1700	A
1	1A	1701	A
1	1A	1703	G

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Mol	Chain	Res	Type
1	1A	1722	A
1	1A	1746	G
1	1A	1756	G
1	1A	1762	A
1	1A	1763	G
1	1A	1764	G
1	1A	1773	A
1	1A	1780	A
1	1A	1782	C
1	1A	1786	A
1	1A	1791	A
1	1A	1800	C
1	1A	1801	G
1	1A	1816	G
1	1A	1847	A
1	1A	1858	G
1	1A	1861	G
1	1A	1877	A
1	1A	1878	G
1	1A	1889	A
1	1A	1900	A
1	1A	1906	G
1	1A	1915	5MU
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	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	2043	C

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Mol	Chain	Res	Type
1	1A	2055	C
1	1A	2056	G
1	1A	2060	A
1	1A	2061	G
1	1A	2069	G
1	1A	2110	G
1	1A	2111	C
1	1A	2113	U
1	1A	2118	U
1	1A	2119	A
1	1A	2121	G
1	1A	2126	A
1	1A	2127	G
1	1A	2129	C
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	2140	C
1	1A	2141	G
1	1A	2142	C
1	1A	2144	U
1	1A	2147	G
1	1A	2150	U
1	1A	2151	G
1	1A	2157	G
1	1A	2158	A
1	1A	2159	G
1	1A	2162	G
1	1A	2165	G
1	1A	2166	G
1	1A	2168	G
1	1A	2171	A
1	1A	2172	U
1	1A	2173	A
1	1A	2181	G
1	1A	2182	G
1	1A	2184	G
1	1A	2192	G
1	1A	2198	A

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Mol	Chain	Res	Type
1	1A	2206	G
1	1A	2207	G
1	1A	2208	A
1	1A	2219	G
1	1A	2225	A
1	1A	2238	G
1	1A	2239	G
1	1A	2268	A
1	1A	2269	A
1	1A	2273	A
1	1A	2283	C
1	1A	2287	A
1	1A	2305	A
1	1A	2308	G
1	1A	2309	A
1	1A	2320	A
1	1A	2325	G
1	1A	2334	G
1	1A	2336	A
1	1A	2347	C
1	1A	2361	A
1	1A	2372	G
1	1A	2383	G
1	1A	2385	C
1	1A	2396	G
1	1A	2400	G
1	1A	2406	U
1	1A	2408	U
1	1A	2410	G
1	1A	2425	A
1	1A	2429	G
1	1A	2430	A
1	1A	2435	A
1	1A	2439	A
1	1A	2441	C
1	1A	2448	A
1	1A	2449	U
1	1A	2474	C
1	1A	2476	A
1	1A	2484	G
1	1A	2491	U
1	1A	2498	C

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Mol	Chain	Res	Type
1	1A	2502	G
1	1A	2505	G
1	1A	2518	A
1	1A	2520	C
1	1A	2529	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
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	2691	C
1	1A	2702	U
1	1A	2703	C
1	1A	2712(A)	A
1	1A	2713	A
1	1A	2714	G
1	1A	2726	U
1	1A	2733	A
1	1A	2757	A
1	1A	2758	A
1	1A	2761	G
1	1A	2764	A
1	1A	2765	A
1	1A	2766	G
1	1A	2769	C
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	2805	G
1	1A	2818	G
1	1A	2820	A

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Mol	Chain	Res	Type
1	1A	2821	A
1	1A	2834	G
1	1A	2835	A
1	1A	2858	C
1	1A	2872	G
1	1A	2873	A
1	1A	2876	G
1	1A	2880	C
1	1A	2892	A
1	1A	2894	G
2	1B	2	C
2	1B	12	C
2	1B	21	G
2	1B	25	A
2	1B	35	U
2	1B	50	G
2	1B	56	G
2	1B	73	A
2	1B	85	G
2	1B	109	C
2	1B	110	G
32	1a	7	G
32	1a	9	G
32	1a	32	A
32	1a	33	A
32	1a	39	G
32	1a	47	C
32	1a	48	C
32	1a	50	A
32	1a	51	A
32	1a	52	G
32	1a	61	G
32	1a	65	U
32	1a	91	C
32	1a	98	G
32	1a	116	A
32	1a	120	A
32	1a	121	C
32	1a	131	C
32	1a	163	C
32	1a	174	C
32	1a	180	U

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Mol	Chain	Res	Type
32	1a	183	G
32	1a	189(D)	C
32	1a	189(F)	U
32	1a	189(G)	G
32	1a	189(J)	G
32	1a	195	A
32	1a	197	A
32	1a	199	G
32	1a	201	C
32	1a	202	U
32	1a	203	U
32	1a	204	U
32	1a	216	G
32	1a	217	C
32	1a	219	C
32	1a	222	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	321	A
32	1a	328	C
32	1a	332	G
32	1a	344	A
32	1a	352	C
32	1a	353	A
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	423	G
32	1a	424	G
32	1a	429	U
32	1a	439	A
32	1a	452	A

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Mol	Chain	Res	Type
32	1a	453	A
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	528	C
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	629	G
32	1a	630	G
32	1a	653	A
32	1a	665	A
32	1a	686	U
32	1a	687	A
32	1a	688	G
32	1a	695	A
32	1a	723	U
32	1a	731	G
32	1a	749	C
32	1a	755	G
32	1a	777	A
32	1a	792	A
32	1a	793	U
32	1a	794	A
32	1a	815	A
32	1a	816	A

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Mol	Chain	Res	Type
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	853	G
32	1a	859	A
32	1a	870	U
32	1a	872	A
32	1a	902	G
32	1a	914	A
32	1a	926	G
32	1a	927	G
32	1a	932	C
32	1a	934	C
32	1a	955	U
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
32	1a	982	U
32	1a	992	U
32	1a	993	G
32	1a	997	U
32	1a	1000	U
32	1a	1003	G
32	1a	1005	A
32	1a	1006	C
32	1a	1009	G
32	1a	1020	U
32	1a	1022	G
32	1a	1023	G
32	1a	1024	G
32	1a	1025	U
32	1a	1026	G
32	1a	1027	C

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Mol	Chain	Res	Type
32	1a	1029	C
32	1a	1030(A)	G
32	1a	1030(B)	C
32	1a	1030(C)	G
32	1a	1031	G
32	1a	1032	G
32	1a	1033	G
32	1a	1039	C
32	1a	1045	C
32	1a	1054	C
32	1a	1065	U
32	1a	1066	C
32	1a	1068	G
32	1a	1070	U
32	1a	1081	G
32	1a	1087	G
32	1a	1094	G
32	1a	1095	U
32	1a	1101	A
32	1a	1104	G
32	1a	1108	G
32	1a	1121	U
32	1a	1125	U
32	1a	1132	C
32	1a	1134	G
32	1a	1136	U
32	1a	1137	C
32	1a	1138	G
32	1a	1139	G
32	1a	1140	C
32	1a	1146	A
32	1a	1152	A
32	1a	1156	G
32	1a	1157	A
32	1a	1159	U
32	1a	1160	G
32	1a	1166	G
32	1a	1184	G
32	1a	1193	G
32	1a	1196	U
32	1a	1197	G
32	1a	1202	G

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Mol	Chain	Res	Type
32	1a	1212	U
32	1a	1213	A
32	1a	1222	G
32	1a	1226	C
32	1a	1227	A
32	1a	1236	A
32	1a	1238	A
32	1a	1246	C
32	1a	1256	A
32	1a	1257	U
32	1a	1260	C
32	1a	1270	C
32	1a	1275	A
32	1a	1276	G
32	1a	1278	U
32	1a	1279	A
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	1363(A)	A
32	1a	1368	G
32	1a	1370	G
32	1a	1378	C
32	1a	1394	A
32	1a	1397	C
32	1a	1419	G
32	1a	1442	G
32	1a	1442(A)	G
32	1a	1446	U
32	1a	1452	C
32	1a	1456	G
32	1a	1487	G
32	1a	1492	A

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Mol	Chain	Res	Type
32	1a	1494	G
32	1a	1503	A
32	1a	1504	G
32	1a	1506	U
32	1a	1517	G
32	1a	1529	G
32	1a	1530	G
53	1v	13	A
53	1v	24	A
54	1w	2	C
54	1w	3	C
54	1w	6	G
54	1w	7	A
54	1w	8	4SU
54	1w	9	A
54	1w	14	A
54	1w	19	G
54	1w	20	U
54	1w	23	A
54	1w	24	G
54	1w	25	C
54	1w	45	U
54	1w	46	7MG
54	1w	47	U
54	1w	48	C
54	1w	50	U
54	1w	63	G
54	1w	68	C
54	1w	70	G
54	1w	71	G
54	1w	73	A
54	1w	74	C
55	1x	6	G
55	1x	9	G
55	1x	14	A
55	1x	19	G
55	1x	21	A
55	1x	22	G
55	1x	47	U
55	1x	63	G
55	1x	64	G
55	1x	76	A

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Mol	Chain	Res	Type
54	1y	6	G
54	1y	8	4SU
54	1y	9	A
54	1y	11	C
54	1y	13	C
54	1y	14	A
54	1y	19	G
54	1y	20	U
54	1y	21	A
54	1y	22	G
54	1y	35	A
54	1y	44	G
54	1y	45	U
54	1y	46	7MG
54	1y	47	U
54	1y	57	G
54	1y	59	U
54	1y	61	C
54	1y	70	G
1	2A	10	G
1	2A	11	G
1	2A	15	G
1	2A	35	G
1	2A	45	C
1	2A	71	A
1	2A	74	A
1	2A	75	G
1	2A	79	G
1	2A	83	G
1	2A	84	A
1	2A	90	U
1	2A	95	G
1	2A	96	G
1	2A	100	G
1	2A	102	G
1	2A	118	A
1	2A	120	U
1	2A	131	G
1	2A	141	A
1	2A	154(A)	C
1	2A	157	U
1	2A	173	G

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Mol	Chain	Res	Type
1	2A	181	A
1	2A	196	A
1	2A	199	A
1	2A	205	G
1	2A	214	G
1	2A	215	G
1	2A	216	A
1	2A	221	A
1	2A	222	A
1	2A	225	A
1	2A	228	A
1	2A	229	A
1	2A	233	A
1	2A	248	G
1	2A	249	C
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	294	A
1	2A	304	G
1	2A	311	A
1	2A	324	A
1	2A	327	G
1	2A	329	G
1	2A	330	A
1	2A	342	G
1	2A	352	G
1	2A	362	U
1	2A	363	G
1	2A	363(B)	G
1	2A	363(D)	G
1	2A	386	G
1	2A	389	G
1	2A	396	G
1	2A	411	G

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Mol	Chain	Res	Type
1	2A	412	A
1	2A	422	A
1	2A	435	C
1	2A	444	C
1	2A	454	A
1	2A	455	C
1	2A	457	A
1	2A	481	G
1	2A	505	A
1	2A	508	G
1	2A	509	C
1	2A	528	A
1	2A	529	A
1	2A	531	C
1	2A	532	A
1	2A	533	G
1	2A	545	G
1	2A	551	G
1	2A	563	G
1	2A	568	U
1	2A	573	G
1	2A	574	C
1	2A	575	A
1	2A	586	A
1	2A	592	G
1	2A	595	C
1	2A	599	G
1	2A	603	A
1	2A	604	G
1	2A	607	U
1	2A	614(A)	U
1	2A	614(B)	G
1	2A	615	G
1	2A	616	G
1	2A	627	A
1	2A	637	A
1	2A	645	C
1	2A	652(B)	A
1	2A	652(U)	G
1	2A	653	A
1	2A	661	C
1	2A	669	G

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Mol	Chain	Res	Type
1	2A	686	G
1	2A	701	G
1	2A	712	G
1	2A	717	G
1	2A	726	G
1	2A	730	C
1	2A	753	C
1	2A	771	G
1	2A	775	G
1	2A	776	G
1	2A	778	G
1	2A	782	A
1	2A	783	A
1	2A	784	A
1	2A	785	G
1	2A	790	C
1	2A	792	G
1	2A	805	G
1	2A	806	C
1	2A	811	U
1	2A	812	C
1	2A	819	A
1	2A	827	U
1	2A	828	U
1	2A	832	G
1	2A	847	U
1	2A	854	G
1	2A	856	C
1	2A	857	C
1	2A	859	G
1	2A	866	A
1	2A	869	G
1	2A	873	G
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

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Mol	Chain	Res	Type
1	2A	890	A
1	2A	892	G
1	2A	893	C
1	2A	894	C
1	2A	895	U
1	2A	896	A
1	2A	900	A
1	2A	901	A
1	2A	910	A
1	2A	914	C
1	2A	917	A
1	2A	932	G
1	2A	933	A
1	2A	936	C
1	2A	941	A
1	2A	945	A
1	2A	946	G
1	2A	953	A
1	2A	958	U
1	2A	959	A
1	2A	961	C
1	2A	974	G
1	2A	975	C
1	2A	979	G
1	2A	980	A
1	2A	983	A
1	2A	996	A
1	2A	997	G
1	2A	1012	U
1	2A	1013	C
1	2A	1017	G
1	2A	1020	A
1	2A	1022	G
1	2A	1025	G
1	2A	1027	A
1	2A	1033	U
1	2A	1038	C
1	2A	1039	G
1	2A	1043	C
1	2A	1114	G
1	2A	1116	C
1	2A	1130	U

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Mol	Chain	Res	Type
1	2A	1135	C
1	2A	1136	G
1	2A	1139	G
1	2A	1166	C
1	2A	1167	U
1	2A	1171	G
1	2A	1188	U
1	2A	1195	G
1	2A	1206	G
1	2A	1210	A
1	2A	1211	U
1	2A	1220	A
1	2A	1229	G
1	2A	1237	A
1	2A	1248	G
1	2A	1253	A
1	2A	1256	G
1	2A	1271	G
1	2A	1272	A
1	2A	1273	U
1	2A	1284	A
1	2A	1287	A
1	2A	1300	U
1	2A	1301	A
1	2A	1309	G
1	2A	1314	C
1	2A	1345	C
1	2A	1352	U
1	2A	1359	A
1	2A	1360	A
1	2A	1365	A
1	2A	1368	G
1	2A	1370	C
1	2A	1373	A
1	2A	1376	C
1	2A	1380	G
1	2A	1384	A
1	2A	1385	G
1	2A	1386	C
1	2A	1416	G
1	2A	1417	C
1	2A	1420	U

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Mol	Chain	Res	Type
1	2A	1421	G
1	2A	1427	A
1	2A	1428	C
1	2A	1437	C
1	2A	1444	G
1	2A	1445	A
1	2A	1449	A
1	2A	1450	G
1	2A	1460	A
1	2A	1463	C
1	2A	1467	C
1	2A	1471	A
1	2A	1478	G
1	2A	1482	G
1	2A	1490	A
1	2A	1493	C
1	2A	1494	A
1	2A	1496	A
1	2A	1497	U
1	2A	1508	A
1	2A	1509	C
1	2A	1509(A)	A
1	2A	1525	G
1	2A	1531	C
1	2A	1532	C
1	2A	1533	G
1	2A	1537	G
1	2A	1543	C
1	2A	1544	A
1	2A	1547	C
1	2A	1558	A
1	2A	1566	A
1	2A	1569	A
1	2A	1578	U
1	2A	1579	A
1	2A	1580	A
1	2A	1584	C
1	2A	1586	A
1	2A	1608	A
1	2A	1609	A
1	2A	1610	A
1	2A	1640	C

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Mol	Chain	Res	Type
1	2A	1648	C
1	2A	1654	A
1	2A	1663	C
1	2A	1674	G
1	2A	1696	G
1	2A	1700	A
1	2A	1701	A
1	2A	1703	G
1	2A	1721	G
1	2A	1722	A
1	2A	1739	U
1	2A	1740	G
1	2A	1746	G
1	2A	1756	G
1	2A	1758	G
1	2A	1762	A
1	2A	1763	G
1	2A	1764	G
1	2A	1773	A
1	2A	1780	A
1	2A	1782	C
1	2A	1786	A
1	2A	1791	A
1	2A	1800	C
1	2A	1801	G
1	2A	1811	G
1	2A	1812	A
1	2A	1816	G
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	1913	A
1	2A	1914	C
1	2A	1929	G
1	2A	1930	G
1	2A	1936	A
1	2A	1938	A
1	2A	1955	U

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Mol	Chain	Res	Type
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	2027	G
1	2A	2031	A
1	2A	2032	G
1	2A	2033	A
1	2A	2043	C
1	2A	2050	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	2093	G
1	2A	2096	U
1	2A	2103	C
1	2A	2111	C
1	2A	2113	U
1	2A	2116	G
1	2A	2117	A
1	2A	2119	A
1	2A	2120	G
1	2A	2122	U
1	2A	2124	G
1	2A	2125	G
1	2A	2126	A
1	2A	2127	G
1	2A	2129	C
1	2A	2131	G
1	2A	2132	U
1	2A	2133	G
1	2A	2134	A
1	2A	2135	A

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Mol	Chain	Res	Type
1	2A	2137	C
1	2A	2138	C
1	2A	2140	C
1	2A	2142	C
1	2A	2146	C
1	2A	2148	G
1	2A	2150	U
1	2A	2153	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	2169	A
1	2A	2172	U
1	2A	2174	C
1	2A	2178	C
1	2A	2180	U
1	2A	2185	C
1	2A	2189	U
1	2A	2192	G
1	2A	2198	A
1	2A	2206	G
1	2A	2207	G
1	2A	2208	A
1	2A	2225	A
1	2A	2239	G
1	2A	2273	A
1	2A	2275	C
1	2A	2278	A
1	2A	2283	C
1	2A	2287	A
1	2A	2289	G
1	2A	2294	C
1	2A	2305	A
1	2A	2308	G
1	2A	2311	A
1	2A	2319	G
1	2A	2320	A
1	2A	2325	G
1	2A	2327	A

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Mol	Chain	Res	Type
1	2A	2334	G
1	2A	2336	A
1	2A	2347	C
1	2A	2350	C
1	2A	2352	A
1	2A	2353	G
1	2A	2361	A
1	2A	2376	A
1	2A	2377	A
1	2A	2383	G
1	2A	2385	C
1	2A	2403	C
1	2A	2406	U
1	2A	2410	G
1	2A	2425	A
1	2A	2429	G
1	2A	2430	A
1	2A	2435	A
1	2A	2439	A
1	2A	2441	C
1	2A	2445	G
1	2A	2448	A
1	2A	2468	G
1	2A	2474	C
1	2A	2476	A
1	2A	2477	C
1	2A	2478	A
1	2A	2480	C
1	2A	2487	G
1	2A	2490	G
1	2A	2491	U
1	2A	2502	G
1	2A	2505	G
1	2A	2506	U
1	2A	2507	C
1	2A	2518	A
1	2A	2520	C
1	2A	2554	U
1	2A	2566	A
1	2A	2567	G
1	2A	2586	C
1	2A	2602	A

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Mol	Chain	Res	Type
1	2A	2609	U
1	2A	2610	C
1	2A	2611	U
1	2A	2612	C
1	2A	2623	G
1	2A	2629	A
1	2A	2630	G
1	2A	2654	A
1	2A	2662	A
1	2A	2689	U
1	2A	2690	C
1	2A	2691	C
1	2A	2712(A)	A
1	2A	2713	A
1	2A	2714	G
1	2A	2718	G
1	2A	2726	U
1	2A	2733	A
1	2A	2751	G
1	2A	2758	A
1	2A	2759	G
1	2A	2764	A
1	2A	2765	A
1	2A	2766	G
1	2A	2778	A
1	2A	2779	U
1	2A	2780	G
1	2A	2789	C
1	2A	2802	G
1	2A	2818	G
1	2A	2820	A
1	2A	2821	A
1	2A	2833	G
1	2A	2835	A
1	2A	2850	A
1	2A	2872	G
1	2A	2880	C
1	2A	2894	G
1	2A	2897	U
2	2B	2	C
2	2B	4	C
2	2B	5	C

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Mol	Chain	Res	Type
2	2B	8	U
2	2B	13	A
2	2B	19	G
2	2B	20	C
2	2B	25	A
2	2B	30	C
2	2B	34	U
2	2B	42	C
2	2B	52	A
2	2B	53	A
2	2B	56	G
2	2B	63	G
2	2B	64	C
2	2B	65	C
2	2B	66	A
2	2B	67	G
2	2B	72	G
2	2B	73	A
2	2B	74	U
2	2B	75	G
2	2B	85	G
2	2B	94	C
2	2B	106	G
2	2B	108	U
2	2B	110	G
2	2B	111	G
2	2B	114	C
2	2B	116	G
2	2B	119	G
2	2B	120	A
32	2a	6	G
32	2a	9	G
32	2a	32	A
32	2a	39	G
32	2a	47	C
32	2a	48	C
32	2a	51	A
32	2a	52	G
32	2a	66	G
32	2a	73	G
32	2a	79	G
32	2a	88	A

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Mol	Chain	Res	Type
32	2a	89	C
32	2a	101	A
32	2a	105	G
32	2a	116	A
32	2a	117	G
32	2a	121	C
32	2a	124	G
32	2a	131	C
32	2a	142	G
32	2a	144	G
32	2a	146	G
32	2a	159	G
32	2a	163	C
32	2a	174	C
32	2a	180	U
32	2a	182	U
32	2a	184	G
32	2a	189(E)	U
32	2a	189(F)	U
32	2a	195	A
32	2a	197	A
32	2a	201	C
32	2a	202	U
32	2a	203	U
32	2a	204	U
32	2a	216	G
32	2a	247	G
32	2a	251	G
32	2a	258	G
32	2a	266	G
32	2a	267	C
32	2a	269	C
32	2a	281	G
32	2a	289	G
32	2a	318	G
32	2a	321	A
32	2a	328	C
32	2a	332	G
32	2a	350	G
32	2a	351	G
32	2a	352	C
32	2a	353	A

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Mol	Chain	Res	Type
32	2a	354	G
32	2a	367	U
32	2a	372	C
32	2a	373	A
32	2a	397	A
32	2a	398	C
32	2a	406	G
32	2a	412	A
32	2a	415	A
32	2a	421	U
32	2a	423	G
32	2a	429	U
32	2a	430	A
32	2a	441	A
32	2a	442	C
32	2a	452	A
32	2a	461	A
32	2a	470	C
32	2a	484	G
32	2a	485	G
32	2a	496	A
32	2a	498	U
32	2a	505	G
32	2a	509	A
32	2a	510	A
32	2a	511	C
32	2a	517	G
32	2a	518	C
32	2a	528	C
32	2a	531	U
32	2a	532	A
32	2a	547	A
32	2a	559	A
32	2a	560	U
32	2a	561	U
32	2a	564	C
32	2a	572	A
32	2a	573	A
32	2a	574	A
32	2a	576	G
32	2a	577	G
32	2a	596	C

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Mol	Chain	Res	Type
32	2a	598	U
32	2a	618	C
32	2a	630	G
32	2a	653	A
32	2a	657	G
32	2a	665	A
32	2a	687	A
32	2a	688	G
32	2a	694	A
32	2a	695	A
32	2a	703	G
32	2a	721	G
32	2a	723	U
32	2a	724	G
32	2a	731	G
32	2a	749	C
32	2a	755	G
32	2a	777	A
32	2a	792	A
32	2a	793	U
32	2a	794	A
32	2a	815	A
32	2a	817	C
32	2a	821	G
32	2a	828	A
32	2a	834	C
32	2a	840	C
32	2a	841	U
32	2a	851	G
32	2a	853	G
32	2a	859	A
32	2a	874	G
32	2a	880	C
32	2a	885	G
32	2a	902	G
32	2a	914	A
32	2a	926	G
32	2a	927	G
32	2a	932	C
32	2a	934	C
32	2a	935	A
32	2a	959	A

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Mol	Chain	Res	Type
32	2a	960	U
32	2a	961	U
32	2a	968	A
32	2a	969	A
32	2a	971	G
32	2a	974	A
32	2a	975	A
32	2a	976	G
32	2a	977	A
32	2a	983	A
32	2a	984	C
32	2a	989	C
32	2a	992	U
32	2a	993	G
32	2a	995	C
32	2a	997	U
32	2a	999	C
32	2a	1001(A)	G
32	2a	1002	G
32	2a	1003	G
32	2a	1004	A
32	2a	1005	A
32	2a	1006	C
32	2a	1009	G
32	2a	1011	G
32	2a	1013	G
32	2a	1017	G
32	2a	1021	G
32	2a	1022	G
32	2a	1023	G
32	2a	1025	U
32	2a	1026	G
32	2a	1027	C
32	2a	1029	C
32	2a	1030(A)	G
32	2a	1030(B)	C
32	2a	1030(D)	A
32	2a	1031	G
32	2a	1033	G
32	2a	1035	A
32	2a	1038	C
32	2a	1039	C

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Mol	Chain	Res	Type
32	2a	1040	U
32	2a	1044	A
32	2a	1045	C
32	2a	1046	A
32	2a	1051	C
32	2a	1053	G
32	2a	1064	G
32	2a	1065	U
32	2a	1066	C
32	2a	1068	G
32	2a	1077	G
32	2a	1079	G
32	2a	1081	G
32	2a	1094	G
32	2a	1095	U
32	2a	1101	A
32	2a	1103	C
32	2a	1113	C
32	2a	1115	C
32	2a	1116	C
32	2a	1117	G
32	2a	1122	U
32	2a	1125	U
32	2a	1129	C
32	2a	1130	A
32	2a	1136	U
32	2a	1137	C
32	2a	1138	G
32	2a	1139	G
32	2a	1145	C
32	2a	1146	A
32	2a	1152	A
32	2a	1157	A
32	2a	1159	U
32	2a	1160	G
32	2a	1171	G
32	2a	1172	C
32	2a	1182	G
32	2a	1183	A
32	2a	1184	G
32	2a	1189	C
32	2a	1196	U

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Mol	Chain	Res	Type
32	2a	1197	G
32	2a	1202	G
32	2a	1209	C
32	2a	1211	U
32	2a	1212	U
32	2a	1213	A
32	2a	1228	C
32	2a	1233	G
32	2a	1236	A
32	2a	1238	A
32	2a	1240	U
32	2a	1241	G
32	2a	1248	A
32	2a	1255	G
32	2a	1256	A
32	2a	1257	U
32	2a	1260	C
32	2a	1264	C
32	2a	1270	C
32	2a	1273	G
32	2a	1275	A
32	2a	1276	G
32	2a	1278	U
32	2a	1279	A
32	2a	1280	A
32	2a	1285	A
32	2a	1286	A
32	2a	1287	A
32	2a	1299	A
32	2a	1300	G
32	2a	1302	U
32	2a	1303	C
32	2a	1305	G
32	2a	1312	G
32	2a	1319	A
32	2a	1320	C
32	2a	1347	G
32	2a	1363	C
32	2a	1364	U
32	2a	1368	G
32	2a	1370	G
32	2a	1397	C

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Mol	Chain	Res	Type
32	2a	1419	G
32	2a	1442	G
32	2a	1442(A)	G
32	2a	1442(B)	A
32	2a	1447	A
32	2a	1452	C
32	2a	1456	G
32	2a	1492	A
32	2a	1494	G
32	2a	1496	C
32	2a	1497	G
32	2a	1503	A
32	2a	1504	G
32	2a	1506	U
32	2a	1517	G
32	2a	1520	G
32	2a	1529	G
32	2a	1530	G
32	2a	1531	A
32	2a	1532	U
53	2v	13	A
53	2v	14	A
53	2v	18	G
53	2v	24	A
54	2w	3	C
54	2w	4	C
54	2w	5	G
54	2w	13	C
54	2w	14	A
54	2w	19	G
54	2w	22	G
54	2w	29	G
54	2w	36	A
54	2w	38	A
54	2w	46	7MG
54	2w	47	U
54	2w	48	C
54	2w	56	C
54	2w	59	U
54	2w	62	C
54	2w	63	G
54	2w	65	G

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Mol	Chain	Res	Type
54	2w	68	C
54	2w	69	G
54	2w	72	C
54	2w	74	C
55	2x	9	G
55	2x	18	G
55	2x	21	A
55	2x	22	G
55	2x	46	G
55	2x	47	U
55	2x	48	C
55	2x	52	G
55	2x	56	C
55	2x	63	G
55	2x	67	C
55	2x	68	C
55	2x	76	A
54	2y	5	G
54	2y	6	G
54	2y	8	4SU
54	2y	11	C
54	2y	12	U
54	2y	13	C
54	2y	19	G
54	2y	35	A
54	2y	41	C
54	2y	44	G
54	2y	45	U
54	2y	46	7MG
54	2y	48	C
54	2y	52	G
54	2y	53	G
54	2y	57	G
54	2y	59	U
54	2y	61	C
54	2y	65	G
54	2y	70	G
54	2y	73	A

All (54) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type
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Mol	Chain	Res	Type
1	1A	90	U
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	895	U
1	1A	1047	G
1	1A	1065	U
1	1A	1067	A
1	1A	1174	A
1	1A	1176	G
1	1A	1210	A
1	1A	1275	A
1	1A	1379	A
1	1A	1420	U
1	1A	1442	G
1	1A	1508	A
1	1A	1653	G
1	1A	2134	A
1	1A	2170	A
1	1A	2181	G
1	1A	2183	C
1	1A	2406	U
1	1A	2430	A
1	1A	2689	U
1	1A	2756	U
2	1B	1	U
1	2A	34	C
1	2A	228	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	827	U
1	2A	856	C
1	2A	900	A

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Mol	Chain	Res	Type
1	2A	1210	A
1	2A	1379	A
1	2A	1420	U
1	2A	1442	G
1	2A	1493	C
1	2A	1530	C
1	2A	1653	G
1	2A	1913	A
1	2A	1992	G
1	2A	2119	A
1	2A	2126	A
1	2A	2351	G
1	2A	2689	U

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

84 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	4OC	1a	1402	32	20,23,24	0.77	0	26,32,35	0.94	1 (3%)
32	MA6	2a	1518	32	19,26,27	0.97	1 (5%)	18,38,41	1.67	4 (22%)
1	2MU	1A	2552	56,1	19,22,24	1.18	2 (10%)	26,31,36	1.89	6 (23%)
32	5MC	2a	967	32	18,22,23	0.98	2 (11%)	26,32,35	1.13	3 (11%)
1	2MU	2A	2552	56,1	19,22,24	1.29	3 (15%)	26,31,36	1.80	6 (23%)
32	5MC	1a	1404	32	18,22,23	0.98	2 (11%)	26,32,35	1.14	3 (11%)
54	PSU	1w	39	54	18,21,22	1.35	2 (11%)	22,30,33	1.86	3 (13%)
54	4SU	1y	8	54	18,21,22	1.67	3 (16%)	26,30,33	1.95	4 (15%)
55	PSU	2x	55	55	18,21,22	1.35	2 (11%)	22,30,33	1.88	3 (13%)
1	5MU	1A	1939	56,1	19,22,23	1.40	6 (31%)	28,32,35	2.14	6 (21%)
54	MIA	1w	37	54	24,31,32	2.21	4 (16%)	26,44,47	2.59	10 (38%)
1	PSU	2A	2605	1	18,21,22	1.36	3 (16%)	22,30,33	1.88	4 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	MA6	2a	1519	32	19,26,27	1.02	1 (5%)	18,38,41	1.58	3 (16%)
32	7MG	1a	527	32,56	22,26,27	1.38	4 (18%)	29,39,42	2.49	8 (27%)
54	PSU	2w	39	54	18,21,22	1.34	2 (11%)	22,30,33	1.70	3 (13%)
1	PSU	1A	1917	1	18,21,22	1.33	2 (11%)	22,30,33	1.87	3 (13%)
55	4SU	2x	8	55,56	18,21,22	1.95	5 (27%)	26,30,33	1.75	7 (26%)
1	5MC	2A	1942	1	18,22,23	0.97	2 (11%)	26,32,35	1.12	2 (7%)
54	PSU	2y	55	54	18,21,22	1.32	2 (11%)	22,30,33	1.88	4 (18%)
54	PSU	1y	55	54	18,21,22	1.32	2 (11%)	22,30,33	1.88	3 (13%)
32	5MC	1a	1407	32	18,22,23	0.94	2 (11%)	26,32,35	1.14	2 (7%)
54	5MU	1w	54	54	19,22,23	1.37	5 (26%)	28,32,35	2.14	8 (28%)
32	5MC	2a	1400	32	18,22,23	0.96	2 (11%)	26,32,35	1.10	2 (7%)
32	5MC	1a	967	32	18,22,23	0.95	2 (11%)	26,32,35	1.14	2 (7%)
54	7MG	1w	46	54	22,26,27	1.44	4 (18%)	29,39,42	2.44	6 (20%)
55	5MU	2x	54	55	19,22,23	1.41	6 (31%)	28,32,35	2.01	6 (21%)
32	PSU	1a	516	32	18,21,22	1.34	2 (11%)	22,30,33	1.81	3 (13%)
54	PSU	2y	32	54	18,21,22	1.35	2 (11%)	22,30,33	1.86	3 (13%)
32	2MG	2a	1207	32	18,26,27	0.92	1 (5%)	16,38,41	1.06	1 (6%)
1	5MC	1A	1962	56,1	18,22,23	0.90	2 (11%)	26,32,35	1.11	2 (7%)
32	7MG	2a	527	32,56	22,26,27	1.34	4 (18%)	29,39,42	2.51	7 (24%)
54	7MG	2w	46	54	22,26,27	1.38	4 (18%)	29,39,42	2.44	7 (24%)
54	MIA	2y	37	54	18,24,32	1.11	2 (11%)	18,35,47	1.26	2 (11%)
54	PSU	1w	55	54	18,21,22	1.40	2 (11%)	22,30,33	1.96	3 (13%)
32	5MC	2a	1407	32	18,22,23	0.93	2 (11%)	26,32,35	1.10	2 (7%)
54	4SU	1w	8	54	18,21,22	1.72	5 (27%)	26,30,33	1.84	5 (19%)
55	5MC	1x	32	55	18,22,23	0.99	2 (11%)	26,32,35	1.22	2 (7%)
1	5MU	1A	1915	1	19,22,23	1.44	5 (26%)	28,32,35	2.06	5 (17%)
32	2MG	1a	1207	32	18,26,27	0.92	1 (5%)	16,38,41	1.10	2 (12%)
54	5MU	1y	54	54	19,22,23	1.41	5 (26%)	28,32,35	2.10	6 (21%)
32	5MC	2a	1404	32	18,22,23	1.01	2 (11%)	26,32,35	1.19	3 (11%)
54	PSU	2w	55	54	18,21,22	1.36	2 (11%)	22,30,33	1.87	3 (13%)
54	PSU	1w	32	54	18,21,22	1.35	2 (11%)	22,30,33	1.79	3 (13%)
1	OMG	2A	2251	56,55,1	18,26,27	0.95	1 (5%)	19,38,41	1.05	2 (10%)
54	7MG	2y	46	54	22,26,27	1.34	3 (13%)	29,39,42	2.62	6 (20%)
1	2MA	1A	2503	56,1	17,25,26	0.99	1 (5%)	17,37,40	1.00	2 (11%)
32	MA6	1a	1518	32	19,26,27	0.96	1 (5%)	18,38,41	1.69	5 (27%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	2MA	2A	2503	56,1	17,25,26	1.04	1 (5%)	17,37,40	0.93	2 (11%)
1	PSU	2A	1911	1	18,21,22	1.34	2 (11%)	22,30,33	1.85	3 (13%)
54	4SU	2y	8	54	18,21,22	1.78	5 (27%)	26,30,33	1.98	5 (19%)
55	PSU	1x	55	55,56	18,21,22	1.35	2 (11%)	22,30,33	1.87	3 (13%)
1	5MU	2A	1915	1	19,22,23	1.44	5 (26%)	28,32,35	2.03	6 (21%)
55	5MU	1x	54	55,56	19,22,23	1.42	5 (26%)	28,32,35	1.96	6 (21%)
43	0TD	2l	92	43	7,9,10	4.71	1 (14%)	6,11,13	3.45	3 (50%)
1	5MU	2A	1939	56,1	19,22,23	1.42	5 (26%)	28,32,35	2.22	6 (21%)
1	4OC	2A	1920	1	19,22,24	0.81	0	26,31,35	0.88	1 (3%)
54	5MU	2w	54	54	19,22,23	1.37	6 (31%)	28,32,35	1.84	7 (25%)
54	5MU	2y	54	54	19,22,23	1.43	6 (31%)	28,32,35	1.83	6 (21%)
54	7MG	1y	46	54	22,26,27	1.34	4 (18%)	29,39,42	2.50	6 (20%)
54	PSU	1y	39	54	18,21,22	1.31	2 (11%)	22,30,33	1.91	3 (13%)
32	M2G	2a	966	32	20,27,28	1.46	3 (15%)	22,40,43	0.96	2 (9%)
54	4SU	2w	8	54	18,21,22	1.70	4 (22%)	26,30,33	2.57	6 (23%)
1	PSU	1A	2605	56,1	18,21,22	1.35	2 (11%)	22,30,33	1.78	3 (13%)
55	4SU	1x	8	55	18,21,22	2.05	6 (33%)	26,30,33	1.59	5 (19%)
32	5MC	1a	1400	32	18,22,23	0.98	2 (11%)	26,32,35	1.13	3 (11%)
1	PSU	2A	1917	1	18,21,22	1.34	2 (11%)	22,30,33	1.89	3 (13%)
1	OMG	1A	2251	56,55,1	18,26,27	0.89	1 (5%)	19,38,41	1.13	3 (15%)
54	PSU	2w	32	54	18,21,22	1.33	2 (11%)	22,30,33	1.84	3 (13%)
54	MIA	2w	37	54	20,27,32	1.75	3 (15%)	22,39,47	1.80	7 (31%)
55	5MC	2x	32	55	18,22,23	0.98	2 (11%)	26,32,35	1.16	3 (11%)
54	PSU	2y	39	54	18,21,22	1.32	2 (11%)	22,30,33	1.85	4 (18%)
43	0TD	1l	92	43	7,9,10	4.77	1 (14%)	6,11,13	4.79	3 (50%)
32	M2G	1a	966	32	20,27,28	1.41	3 (15%)	22,40,43	0.89	2 (9%)
1	5MC	1A	1942	1	18,22,23	0.96	2 (11%)	26,32,35	1.13	2 (7%)
54	PSU	1y	32	54	18,21,22	1.34	2 (11%)	22,30,33	1.84	3 (13%)
54	MIA	1y	37	54	18,24,32	1.11	2 (11%)	18,35,47	1.28	2 (11%)
32	UR3	2a	1498	32	19,22,23	1.04	2 (10%)	26,32,35	1.48	2 (7%)
32	PSU	2a	516	32	18,21,22	1.35	2 (11%)	22,30,33	1.77	3 (13%)
32	4OC	2a	1402	32,56	20,23,24	0.78	0	26,32,35	0.96	1 (3%)
32	MA6	1a	1519	32	19,26,27	1.01	1 (5%)	18,38,41	1.63	4 (22%)
1	PSU	1A	1911	1	18,21,22	1.37	2 (11%)	22,30,33	1.91	3 (13%)
32	UR3	1a	1498	32	19,22,23	1.01	1 (5%)	26,32,35	1.44	2 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	2A	1962	56,1	18,22,23	0.94	2 (11%)	26,32,35	1.13	2 (7%)
1	4OC	1A	1920	1	19,22,24	0.82	0	26,31,35	0.92	1 (3%)

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	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
32	MA6	2a	1518	32	-	2/7/29/30	0/3/3/3
1	2MU	1A	2552	56,1	-	0/9/27/28	0/2/2/2
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2
1	2MU	2A	2552	56,1	-	0/9/27/28	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	3/7/25/26	0/2/2/2
55	PSU	2x	55	55	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	56,1	-	0/7/25/26	0/2/2/2
54	MIA	1w	37	54	-	1/11/33/34	0/3/3/3
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	6/7/29/30	0/3/3/3
32	7MG	1a	527	32,56	-	3/7/37/38	0/3/3/3
54	PSU	2w	39	54	-	2/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	55,56	-	1/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	0/7/25/26	0/2/2/2
54	PSU	1y	55	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
54	5MU	1w	54	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	1/7/25/26	0/2/2/2
54	7MG	1w	46	54	-	2/7/37/38	0/3/3/3
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
54	PSU	2y	32	54	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	0/5/27/28	0/3/3/3
1	5MC	1A	1962	56,1	-	0/7/25/26	0/2/2/2
32	7MG	2a	527	32,56	-	1/7/37/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	7MG	2w	46	54	-	2/7/37/38	0/3/3/3
54	MIA	2y	37	54	-	0/3/25/34	0/3/3/3
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	2/7/25/26	0/2/2/2
32	2MG	1a	1207	32	-	0/5/27/28	0/3/3/3
54	5MU	1y	54	54	-	1/7/25/26	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	56,55,1	-	1/5/27/28	0/3/3/3
54	7MG	2y	46	54	-	3/7/37/38	0/3/3/3
1	2MA	1A	2503	56,1	-	2/3/25/26	0/3/3/3
32	MA6	1a	1518	32	-	2/7/29/30	0/3/3/3
1	2MA	2A	2503	56,1	-	1/3/25/26	0/3/3/3
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
54	4SU	2y	8	54	-	2/7/25/26	0/2/2/2
55	PSU	1x	55	55,56	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
55	5MU	1x	54	55,56	-	0/7/25/26	0/2/2/2
43	0TD	2l	92	43	-	2/7/12/14	-
1	5MU	2A	1939	56,1	-	0/7/25/26	0/2/2/2
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
54	5MU	2y	54	54	-	0/7/25/26	0/2/2/2
54	7MG	1y	46	54	-	3/7/37/38	0/3/3/3
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/7/29/30	0/3/3/3
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	56,1	-	0/7/25/26	0/2/2/2
55	4SU	1x	8	55	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	56,55,1	-	0/5/27/28	0/3/3/3
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	0/7/29/34	0/3/3/3
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
43	0TD	1l	92	43	-	1/7/12/14	-
32	M2G	1a	966	32	-	0/7/29/30	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
54	PSU	1y	32	54	-	0/7/25/26	0/2/2/2
54	MIA	1y	37	54	-	0/3/25/34	0/3/3/3
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	32,56	-	2/9/29/30	0/2/2/2
32	MA6	1a	1519	32	-	4/7/29/30	0/3/3/3
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
1	5MC	2A	1962	56,1	-	0/7/25/26	0/2/2/2
1	4OC	1A	1920	1	-	1/9/27/30	0/2/2/2

All (215) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	1l	92	0TD	CB-SB	-12.32	1.69	1.82
43	2l	92	0TD	CB-SB	-12.18	1.69	1.82
54	1w	37	MIA	C13-C14	7.14	1.52	1.32
54	1w	37	MIA	C2-S10	-6.54	1.70	1.75
54	2w	37	MIA	C2-S10	-6.28	1.70	1.75
32	2a	966	M2G	C2-N3	4.74	1.36	1.30
55	1x	8	4SU	C4-N3	-4.50	1.32	1.37
54	2w	8	4SU	C4-S4	-4.50	1.59	1.68
54	2y	8	4SU	C4-S4	-4.47	1.59	1.68
55	2x	8	4SU	C4-S4	-4.45	1.59	1.68
55	1x	8	4SU	C4-S4	-4.33	1.60	1.68
54	1w	8	4SU	C4-S4	-4.23	1.60	1.68
54	1y	8	4SU	C4-S4	-4.23	1.60	1.68
32	1a	966	M2G	C2-N3	4.23	1.35	1.30
55	2x	8	4SU	C4-N3	-4.21	1.33	1.37
54	1w	55	PSU	C6-C5	3.66	1.39	1.35
54	2w	55	PSU	C6-C5	3.56	1.39	1.35
54	2y	32	PSU	C6-C5	3.55	1.39	1.35
54	1w	46	7MG	C4-N9	-3.52	1.33	1.37
54	2w	39	PSU	C6-C5	3.50	1.39	1.35
54	1y	32	PSU	C6-C5	3.49	1.39	1.35
55	2x	55	PSU	C6-C5	3.46	1.39	1.35
54	2w	46	7MG	C4-N9	-3.42	1.33	1.37
32	2a	516	PSU	C6-C5	3.38	1.39	1.35
55	1x	55	PSU	C6-C5	3.34	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	55	PSU	C6-C5	3.33	1.39	1.35
54	2w	32	PSU	C6-C5	3.32	1.39	1.35
54	1y	55	PSU	C6-C5	3.30	1.39	1.35
1	2A	1917	PSU	C6-C5	3.29	1.39	1.35
54	2y	8	4SU	C4-N3	-3.29	1.34	1.37
1	2A	1911	PSU	C6-C5	3.28	1.39	1.35
54	1y	39	PSU	C6-C5	3.28	1.39	1.35
32	1a	527	7MG	C4-N9	-3.27	1.33	1.37
55	1x	8	4SU	C2-N3	-3.27	1.32	1.38
1	2A	2605	PSU	C6-C5	3.25	1.39	1.35
54	1w	32	PSU	C6-C5	3.22	1.39	1.35
54	1w	39	PSU	C6-C5	3.22	1.39	1.35
1	1A	1917	PSU	C6-C5	3.20	1.39	1.35
1	1A	2605	PSU	C6-C5	3.19	1.39	1.35
54	2y	46	7MG	C5-C4	3.17	1.48	1.38
54	2y	39	PSU	C6-C5	3.17	1.39	1.35
55	1x	8	4SU	C5-C4	-3.17	1.38	1.42
32	1a	516	PSU	C6-C5	3.17	1.39	1.35
1	1A	1911	PSU	C6-C5	3.15	1.39	1.35
54	1w	8	4SU	C4-N3	-3.14	1.34	1.37
54	1y	46	7MG	C5-C4	3.10	1.48	1.38
54	1w	46	7MG	C5-C4	3.06	1.48	1.38
32	2a	1404	5MC	C6-C5	3.04	1.39	1.34
54	1y	8	4SU	C4-N3	-3.04	1.34	1.37
32	2a	527	7MG	C5-C4	3.01	1.47	1.38
32	1a	527	7MG	C5-C4	3.00	1.47	1.38
55	1x	32	5MC	C6-C5	2.99	1.39	1.34
54	2w	46	7MG	C5-C4	2.99	1.47	1.38
1	2A	1915	5MU	C6-C5	2.96	1.39	1.34
1	1A	1915	5MU	C6-C5	2.95	1.39	1.34
55	2x	8	4SU	C5-C4	-2.92	1.38	1.42
55	2x	32	5MC	C6-C5	2.91	1.39	1.34
32	1a	1404	5MC	C6-C5	2.90	1.39	1.34
32	2a	967	5MC	C6-C5	2.89	1.39	1.34
32	2a	966	M2G	C2-N2	2.87	1.40	1.35
1	2A	1939	5MU	C6-C5	2.87	1.39	1.34
54	1y	54	5MU	C6-C5	2.87	1.39	1.34
32	1a	1400	5MC	C6-C5	2.86	1.39	1.34
55	2x	54	5MU	C6-C5	2.83	1.39	1.34
1	2A	1942	5MC	C6-C5	2.82	1.39	1.34
1	1A	1939	5MU	C6-C5	2.82	1.39	1.34
1	1A	1942	5MC	C6-C5	2.80	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1400	5MC	C6-C5	2.78	1.39	1.34
54	2w	8	4SU	C4-N3	-2.78	1.34	1.37
32	1a	966	M2G	C2-N2	2.78	1.40	1.35
55	1x	54	5MU	C6-C5	2.77	1.39	1.34
1	1A	2605	PSU	C4-N3	-2.77	1.33	1.38
54	2w	8	4SU	C5-C4	-2.75	1.39	1.42
1	1A	1911	PSU	C4-N3	-2.75	1.33	1.38
54	2w	54	5MU	C6-C5	2.73	1.39	1.34
32	1a	1407	5MC	C6-C5	2.73	1.39	1.34
55	2x	8	4SU	C2-N3	-2.72	1.33	1.38
1	2A	2605	PSU	C4-N3	-2.72	1.33	1.38
1	2A	1939	5MU	C4-N3	-2.72	1.33	1.38
32	2a	527	7MG	C4-N9	-2.71	1.34	1.37
54	2y	54	5MU	C6-C5	2.70	1.39	1.34
32	2a	1519	MA6	C5-C4	2.68	1.48	1.40
1	2A	2552	2MU	C4-N3	-2.68	1.33	1.38
54	1w	39	PSU	C4-N3	-2.67	1.33	1.38
54	2w	37	MIA	C5-C4	2.67	1.48	1.40
1	1A	1939	5MU	C4-N3	-2.66	1.33	1.38
32	2a	1407	5MC	C6-C5	2.65	1.38	1.34
1	1A	1915	5MU	C4-N3	-2.65	1.33	1.38
55	1x	54	5MU	C4-N3	-2.64	1.33	1.38
54	2y	37	MIA	C2-N3	2.64	1.36	1.32
1	2A	1962	5MC	C6-C5	2.64	1.38	1.34
54	2y	55	PSU	C4-N3	-2.64	1.33	1.38
54	2y	37	MIA	C5-C4	2.63	1.47	1.40
1	1A	1917	PSU	C4-N3	-2.63	1.34	1.38
55	2x	54	5MU	C4-N3	-2.62	1.34	1.38
1	2A	1911	PSU	C4-N3	-2.62	1.34	1.38
32	1a	966	M2G	C6-N1	-2.62	1.34	1.37
54	1y	37	MIA	C5-C4	2.61	1.47	1.40
32	2a	1518	MA6	C5-C4	2.61	1.47	1.40
54	1w	37	MIA	C5-C4	2.61	1.47	1.40
54	2w	54	5MU	C4-N3	-2.60	1.34	1.38
54	2y	54	5MU	C4-N3	-2.60	1.34	1.38
54	2w	39	PSU	C4-N3	-2.59	1.34	1.38
1	2A	1917	PSU	C4-N3	-2.58	1.34	1.38
54	2y	39	PSU	C4-N3	-2.58	1.34	1.38
54	1y	37	MIA	C2-N3	2.58	1.36	1.32
54	1w	54	5MU	C6-C5	2.57	1.38	1.34
32	1a	967	5MC	C6-C5	2.57	1.38	1.34
1	2A	2251	OMG	C6-N1	-2.57	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	1915	5MU	C4-N3	-2.55	1.34	1.38
54	1w	32	PSU	C4-N3	-2.55	1.34	1.38
54	1w	55	PSU	C4-N3	-2.55	1.34	1.38
1	1A	1962	5MC	C6-C5	2.54	1.38	1.34
1	2A	1915	5MU	C4-C5	2.53	1.49	1.44
54	1y	54	5MU	C4-N3	-2.53	1.34	1.38
1	1A	1915	5MU	C2-N1	2.53	1.42	1.38
54	2y	8	4SU	C5-C4	-2.53	1.39	1.42
32	1a	516	PSU	C4-N3	-2.53	1.34	1.38
55	2x	55	PSU	C4-N3	-2.50	1.34	1.38
54	1w	8	4SU	C5-C4	-2.49	1.39	1.42
32	1a	1519	MA6	C5-C4	2.49	1.47	1.40
54	2w	55	PSU	C4-N3	-2.49	1.34	1.38
55	1x	55	PSU	C4-N3	-2.48	1.34	1.38
54	2w	8	4SU	C2-N1	2.48	1.42	1.38
54	1y	46	7MG	C4-N9	-2.48	1.34	1.37
54	1y	32	PSU	C4-N3	-2.48	1.34	1.38
32	1a	1518	MA6	C5-C4	2.48	1.47	1.40
54	1w	54	5MU	C4-C5	2.47	1.48	1.44
54	2y	46	7MG	C6-N1	-2.47	1.34	1.38
54	1w	46	7MG	C6-N1	-2.47	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.46	1.34	1.37
54	1y	39	PSU	C4-N3	-2.46	1.34	1.38
54	1y	55	PSU	C4-N3	-2.46	1.34	1.38
1	1A	2552	2MU	C4-N3	-2.44	1.34	1.38
54	2w	32	PSU	C4-N3	-2.43	1.34	1.38
54	1y	8	4SU	C5-C4	-2.43	1.39	1.42
1	2A	2503	2MA	C2-N3	2.43	1.36	1.31
54	2y	54	5MU	C2-N1	2.42	1.42	1.38
1	2A	2552	2MU	C5-C4	2.41	1.49	1.43
54	1w	54	5MU	C4-N3	-2.40	1.34	1.38
55	2x	54	5MU	C4-C5	2.39	1.48	1.44
32	2a	516	PSU	C4-N3	-2.39	1.34	1.38
32	2a	527	7MG	C6-N1	-2.37	1.34	1.38
54	1y	54	5MU	C4-C5	2.36	1.48	1.44
32	1a	967	5MC	C6-N1	-2.36	1.34	1.38
55	1x	54	5MU	C4-C5	2.36	1.48	1.44
54	2y	32	PSU	C4-N3	-2.35	1.34	1.38
1	2A	1939	5MU	C6-N1	-2.34	1.34	1.38
54	1y	54	5MU	C2-N1	2.33	1.42	1.38
1	2A	1939	5MU	C4-C5	2.32	1.48	1.44
1	1A	1942	5MC	C6-N1	-2.32	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	8	4SU	C2-N1	2.31	1.42	1.38
54	1w	8	4SU	C2-N1	2.30	1.42	1.38
55	2x	8	4SU	C2-N1	2.29	1.42	1.38
54	1y	46	7MG	C6-N1	-2.29	1.34	1.38
32	2a	966	M2G	C6-N1	-2.29	1.34	1.37
1	2A	1962	5MC	C6-N1	-2.29	1.34	1.38
1	1A	2251	OMG	C6-N1	-2.29	1.34	1.37
54	2w	54	5MU	C4-C5	2.28	1.48	1.44
1	1A	1915	5MU	C4-C5	2.27	1.48	1.44
32	2a	1207	2MG	C6-N1	-2.26	1.34	1.37
54	2y	54	5MU	C4-C5	2.26	1.48	1.44
1	1A	1939	5MU	C6-N1	-2.26	1.34	1.38
54	2y	54	5MU	C2-N3	-2.26	1.33	1.38
1	1A	1962	5MC	C6-N1	-2.26	1.34	1.38
54	1w	46	7MG	C8-N9	2.26	1.47	1.46
54	2w	46	7MG	C6-N1	-2.25	1.34	1.38
54	1y	46	7MG	C8-N9	2.25	1.47	1.46
1	2A	1915	5MU	C2-N1	2.25	1.42	1.38
55	1x	54	5MU	C2-N1	2.24	1.42	1.38
32	1a	527	7MG	C6-N1	-2.24	1.34	1.38
55	1x	8	4SU	O2-C2	2.23	1.27	1.23
54	1w	8	4SU	C2-N3	-2.23	1.34	1.38
54	2y	8	4SU	C2-N3	-2.21	1.34	1.38
55	1x	32	5MC	C6-N1	-2.20	1.34	1.38
32	1a	527	7MG	C8-N9	2.20	1.47	1.46
54	1y	54	5MU	C6-N1	-2.20	1.34	1.38
54	1w	54	5MU	C6-N1	-2.19	1.34	1.38
1	2A	1915	5MU	C6-N1	-2.19	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.18	1.34	1.38
54	2w	46	7MG	C8-N9	2.18	1.47	1.46
32	2a	1498	UR3	C6-C5	2.17	1.40	1.35
1	1A	2503	2MA	C2-N3	2.16	1.35	1.31
32	2a	1404	5MC	C6-N1	-2.16	1.34	1.38
1	1A	1939	5MU	C2-N3	-2.16	1.34	1.38
54	2y	46	7MG	C8-N9	2.16	1.47	1.46
1	2A	1942	5MC	C6-N1	-2.15	1.34	1.38
54	1w	54	5MU	C2-N1	2.15	1.41	1.38
32	2a	1407	5MC	C6-N1	-2.15	1.34	1.38
32	2a	1400	5MC	C6-N1	-2.14	1.34	1.38
54	2w	37	MIA	C6-N1	2.14	1.35	1.32
1	2A	1939	5MU	C2-N3	-2.13	1.34	1.38
1	1A	1939	5MU	C4-C5	2.13	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	1x	54	5MU	C6-N1	-2.12	1.34	1.38
55	2x	54	5MU	C2-N1	2.10	1.41	1.38
32	1a	1404	5MC	C6-N1	-2.10	1.34	1.38
32	1a	1498	UR3	C2-N1	2.09	1.41	1.38
55	2x	32	5MC	C6-N1	-2.09	1.34	1.38
54	2y	54	5MU	C6-N1	-2.08	1.34	1.38
32	1a	1407	5MC	C6-N1	-2.07	1.34	1.38
55	1x	8	4SU	C2-N1	2.07	1.41	1.38
55	2x	54	5MU	C2-N3	-2.07	1.34	1.38
32	2a	1498	UR3	C2-N1	2.06	1.41	1.38
1	1A	1939	5MU	C2-N1	2.06	1.41	1.38
1	1A	1915	5MU	C6-N1	-2.06	1.34	1.38
1	1A	2552	2MU	C5-C4	2.06	1.48	1.43
1	2A	2605	PSU	C2-N3	-2.05	1.34	1.37
55	2x	54	5MU	C6-N1	-2.05	1.34	1.38
1	2A	2552	2MU	C2-N3	-2.04	1.34	1.38
54	2w	54	5MU	C2-N3	-2.02	1.34	1.38
32	2a	527	7MG	C8-N9	2.02	1.47	1.46
32	2a	967	5MC	C6-N1	-2.02	1.34	1.38
54	1w	37	MIA	C6-N1	2.01	1.35	1.32
54	2w	54	5MU	C6-N1	-2.00	1.34	1.38
54	2w	54	5MU	C2-N1	2.00	1.41	1.38

All (315) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	1l	92	0TD	CSB-SB-CB	-10.98	82.57	102.44
54	2y	46	7MG	N9-C4-N3	9.61	139.84	125.47
54	1y	46	7MG	N9-C4-N3	9.00	138.94	125.47
32	2a	527	7MG	N9-C4-N3	8.90	138.78	125.47
32	1a	527	7MG	N9-C4-N3	8.71	138.49	125.47
54	1w	46	7MG	N9-C4-N3	8.60	138.33	125.47
54	1w	37	MIA	C12-C13-C14	-8.42	110.76	127.14
54	2w	46	7MG	N9-C4-N3	8.36	137.97	125.47
54	2w	8	4SU	C4-N3-C2	-8.01	119.56	127.34
43	2l	92	0TD	CSB-SB-CB	-7.11	89.59	102.44
54	2w	8	4SU	C5-C4-N3	6.24	120.47	114.69
32	2a	1498	UR3	C4-N3-C2	-6.10	118.82	124.56
55	2x	55	PSU	N1-C2-N3	6.01	121.94	115.13
54	1w	55	PSU	N1-C2-N3	6.00	121.93	115.13
1	1A	1911	PSU	N1-C2-N3	5.98	121.91	115.13
1	2A	1917	PSU	N1-C2-N3	5.98	121.91	115.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	39	PSU	N1-C2-N3	5.96	121.88	115.13
54	2y	55	PSU	N1-C2-N3	5.93	121.85	115.13
54	1w	39	PSU	N1-C2-N3	5.93	121.84	115.13
1	2A	2605	PSU	N1-C2-N3	5.92	121.84	115.13
54	2y	32	PSU	N1-C2-N3	5.89	121.81	115.13
54	1y	8	4SU	C4-N3-C2	-5.89	121.61	127.34
55	1x	55	PSU	N1-C2-N3	5.87	121.78	115.13
54	2w	32	PSU	N1-C2-N3	5.86	121.77	115.13
1	2A	1911	PSU	N1-C2-N3	5.86	121.77	115.13
54	1y	55	PSU	N1-C2-N3	5.86	121.77	115.13
54	2y	46	7MG	C5-C4-N3	-5.85	116.99	128.13
54	2y	39	PSU	N1-C2-N3	5.84	121.75	115.13
1	1A	1917	PSU	N1-C2-N3	5.84	121.75	115.13
32	1a	1498	UR3	C4-N3-C2	-5.81	119.09	124.56
54	2w	55	PSU	N1-C2-N3	5.81	121.71	115.13
54	1y	32	PSU	N1-C2-N3	5.80	121.70	115.13
54	1w	32	PSU	N1-C2-N3	5.73	121.62	115.13
54	2y	8	4SU	C4-N3-C2	-5.68	121.82	127.34
1	2A	1939	5MU	C4-N3-C2	-5.67	120.02	127.35
32	1a	516	PSU	N1-C2-N3	5.66	121.55	115.13
1	1A	2605	PSU	N1-C2-N3	5.64	121.52	115.13
32	2a	516	PSU	N1-C2-N3	5.64	121.52	115.13
54	2y	8	4SU	C5-C4-N3	5.64	119.92	114.69
32	2a	527	7MG	C5-C4-N3	-5.50	117.64	128.13
54	1y	46	7MG	C5-C4-N3	-5.45	117.74	128.13
1	1A	1939	5MU	C4-N3-C2	-5.38	120.38	127.35
54	2w	39	PSU	N1-C2-N3	5.37	121.22	115.13
54	1w	54	5MU	C4-N3-C2	-5.36	120.41	127.35
54	2w	46	7MG	N9-C8-N7	-5.33	95.75	103.38
1	2A	1939	5MU	N3-C2-N1	5.33	121.97	114.89
54	1y	54	5MU	C4-N3-C2	-5.30	120.49	127.35
54	1y	8	4SU	C5-C4-N3	5.29	119.59	114.69
54	1w	46	7MG	N9-C8-N7	-5.23	95.89	103.38
54	1w	8	4SU	C5-C4-N3	5.23	119.54	114.69
32	1a	527	7MG	C5-C4-N3	-5.21	118.20	128.13
32	1a	527	7MG	N9-C8-N7	-5.20	95.94	103.38
1	1A	1915	5MU	N3-C2-N1	5.14	121.71	114.89
1	2A	1915	5MU	C4-N3-C2	-5.09	120.77	127.35
1	1A	1915	5MU	C4-N3-C2	-5.07	120.78	127.35
54	1w	8	4SU	C4-N3-C2	-5.07	122.42	127.34
32	2a	527	7MG	N9-C8-N7	-5.06	96.14	103.38
54	1w	54	5MU	N3-C2-N1	5.06	121.61	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	54	5MU	N3-C2-N1	5.06	121.61	114.89
1	2A	2552	2MU	N3-C2-N1	5.06	121.60	114.89
1	1A	2552	2MU	N3-C2-N1	5.03	121.56	114.89
1	2A	1915	5MU	N3-C2-N1	5.03	121.56	114.89
1	1A	1939	5MU	C5-C4-N3	4.98	119.56	115.31
55	2x	54	5MU	C4-N3-C2	-4.95	120.94	127.35
54	1y	46	7MG	N9-C8-N7	-4.91	96.36	103.38
54	2w	46	7MG	C5-C4-N3	-4.90	118.80	128.13
55	1x	54	5MU	N3-C2-N1	4.87	121.36	114.89
54	2y	46	7MG	N9-C8-N7	-4.86	96.42	103.38
55	2x	54	5MU	N3-C2-N1	4.86	121.34	114.89
55	2x	8	4SU	C5-C4-N3	4.86	119.20	114.69
1	1A	1939	5MU	N3-C2-N1	4.83	121.31	114.89
54	2w	8	4SU	C5-C4-S4	-4.79	118.30	124.47
55	1x	54	5MU	C4-N3-C2	-4.78	121.16	127.35
1	2A	1939	5MU	C5-C4-N3	4.77	119.38	115.31
54	1w	46	7MG	C5-C4-N3	-4.70	119.17	128.13
54	1w	54	5MU	C5-C4-N3	4.58	119.22	115.31
1	1A	2552	2MU	C4-N3-C2	-4.57	120.55	126.58
54	2w	8	4SU	N3-C2-N1	4.51	120.88	114.89
54	1y	54	5MU	C5-C4-N3	4.50	119.15	115.31
54	2y	46	7MG	C2-N3-C4	4.48	120.28	112.30
1	2A	2552	2MU	C4-N3-C2	-4.47	120.69	126.58
54	2w	37	MIA	C2-N3-C4	4.47	121.48	115.32
54	2w	54	5MU	N3-C2-N1	4.37	120.69	114.89
55	2x	54	5MU	C5-C4-N3	4.37	119.04	115.31
1	1A	1915	5MU	C5-C4-N3	4.36	119.03	115.31
54	2w	54	5MU	C4-N3-C2	-4.32	121.76	127.35
54	1y	46	7MG	C2-N3-C4	4.31	119.97	112.30
54	1w	37	MIA	C2-N3-C4	4.30	121.26	115.32
1	1A	1939	5MU	O4-C4-C5	-4.29	119.93	124.90
1	2A	1939	5MU	C5-C6-N1	-4.29	118.93	123.34
55	1x	8	4SU	C5-C4-N3	4.27	118.65	114.69
32	2a	527	7MG	C2-N3-C4	4.25	119.88	112.30
1	2A	1915	5MU	C5-C4-N3	4.21	118.91	115.31
54	2y	54	5MU	C5-C4-N3	4.21	118.90	115.31
32	1a	527	7MG	C2-N3-C4	4.18	119.74	112.30
1	1A	1939	5MU	C5-C6-N1	-4.14	119.08	123.34
54	2w	46	7MG	C2-N3-C4	4.12	119.63	112.30
54	1w	37	MIA	C15-C14-C13	-4.10	110.79	122.65
55	2x	8	4SU	C1'-N1-C2	4.09	124.97	117.57
54	1w	54	5MU	O4-C4-C5	-4.05	120.21	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	54	5MU	C4-N3-C2	-4.05	122.11	127.35
54	1y	39	PSU	C4-N3-C2	-4.05	120.51	126.34
54	1y	54	5MU	O4-C4-C5	-4.04	120.21	124.90
54	2w	54	5MU	C5-C4-N3	4.01	118.74	115.31
55	1x	32	5MC	C5-C6-N1	-3.99	119.23	123.34
1	1A	1915	5MU	O4-C4-C5	-3.99	120.28	124.90
1	2A	2605	PSU	C4-N3-C2	-3.98	120.60	126.34
1	2A	1939	5MU	O4-C4-C5	-3.97	120.30	124.90
54	1w	46	7MG	C2-N3-C4	3.97	119.37	112.30
55	1x	54	5MU	C5-C4-N3	3.96	118.69	115.31
1	2A	1917	PSU	C4-N3-C2	-3.93	120.67	126.34
54	2y	55	PSU	C4-N3-C2	-3.93	120.68	126.34
1	2A	1962	5MC	C5-C6-N1	-3.92	119.30	123.34
1	1A	1911	PSU	C4-N3-C2	-3.92	120.69	126.34
54	1w	37	MIA	C16-C14-C13	-3.89	111.40	122.65
1	1A	1917	PSU	C4-N3-C2	-3.88	120.74	126.34
32	2a	1518	MA6	C9-N6-C6	-3.87	107.80	119.51
54	2y	39	PSU	C4-N3-C2	-3.86	120.77	126.34
54	1y	55	PSU	C4-N3-C2	-3.86	120.78	126.34
55	1x	55	PSU	C4-N3-C2	-3.84	120.81	126.34
1	2A	1911	PSU	C4-N3-C2	-3.83	120.81	126.34
54	2y	54	5MU	O4-C4-C5	-3.83	120.46	124.90
1	1A	1942	5MC	C5-C6-N1	-3.81	119.42	123.34
54	2y	54	5MU	N3-C2-N1	3.81	119.94	114.89
55	2x	55	PSU	C4-N3-C2	-3.81	120.85	126.34
54	1w	39	PSU	C4-N3-C2	-3.79	120.87	126.34
54	2y	32	PSU	C4-N3-C2	-3.77	120.91	126.34
54	1w	55	PSU	O2-C2-N1	-3.76	118.65	122.79
54	1y	32	PSU	C4-N3-C2	-3.75	120.94	126.34
55	2x	54	5MU	O4-C4-C5	-3.74	120.56	124.90
1	1A	1911	PSU	O2-C2-N1	-3.74	118.68	122.79
54	1w	55	PSU	C4-N3-C2	-3.73	120.96	126.34
54	2w	32	PSU	C4-N3-C2	-3.71	120.99	126.34
32	2a	1518	MA6	C4-C5-N7	-3.70	105.55	109.40
54	1y	54	5MU	C5-C6-N1	-3.69	119.54	123.34
32	1a	1404	5MC	C5-C6-N1	-3.68	119.55	123.34
54	2w	55	PSU	C4-N3-C2	-3.68	121.04	126.34
1	2A	1915	5MU	O4-C4-C5	-3.67	120.64	124.90
1	1A	2605	PSU	C4-N3-C2	-3.66	121.06	126.34
32	2a	1404	5MC	C5-C6-N1	-3.65	119.59	123.34
1	2A	1915	5MU	C5-C6-N1	-3.65	119.59	123.34
32	1a	516	PSU	C4-N3-C2	-3.64	121.10	126.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	54	5MU	O4-C4-C5	-3.62	120.70	124.90
54	1y	8	4SU	N3-C2-N1	3.61	119.69	114.89
55	2x	54	5MU	C5-C6-N1	-3.59	119.64	123.34
54	1w	32	PSU	C4-N3-C2	-3.57	121.20	126.34
54	1y	37	MIA	N3-C2-N1	-3.54	123.14	128.68
54	1y	39	PSU	O2-C2-N1	-3.54	118.89	122.79
54	1y	55	PSU	O2-C2-N1	-3.53	118.91	122.79
54	2w	37	MIA	C5-C6-N1	-3.53	117.88	120.81
1	2A	1942	5MC	C5-C6-N1	-3.52	119.72	123.34
32	2a	967	5MC	C5-C6-N1	-3.50	119.73	123.34
54	1w	37	MIA	C5-C6-N1	-3.49	117.91	120.81
32	2a	516	PSU	C4-N3-C2	-3.49	121.31	126.34
32	1a	1519	MA6	C4-C5-N7	-3.48	105.78	109.40
43	2l	92	0TD	OD2-CG-CB	3.47	120.65	113.15
54	2w	55	PSU	O2-C2-N1	-3.47	118.97	122.79
54	2w	39	PSU	C4-N3-C2	-3.47	121.34	126.34
32	1a	516	PSU	O2-C2-N1	-3.47	118.97	122.79
54	2y	37	MIA	N3-C2-N1	-3.45	123.28	128.68
54	2w	54	5MU	O4-C4-C5	-3.45	120.90	124.90
54	2y	8	4SU	N3-C2-N1	3.44	119.46	114.89
32	1a	1518	MA6	N3-C2-N1	-3.43	123.32	128.68
32	1a	967	5MC	C5-C6-N1	-3.42	119.81	123.34
32	1a	1518	MA6	C9-N6-C6	-3.40	109.21	119.51
55	2x	55	PSU	O2-C2-N1	-3.40	119.04	122.79
1	2A	1917	PSU	O2-C2-N1	-3.40	119.05	122.79
54	2w	32	PSU	O2-C2-N1	-3.39	119.05	122.79
32	2a	1519	MA6	C4-C5-N7	-3.39	105.86	109.40
55	1x	8	4SU	C6-C5-C4	-3.39	117.02	119.95
1	1A	1917	PSU	O2-C2-N1	-3.38	119.07	122.79
1	1A	1962	5MC	C5-C6-N1	-3.38	119.86	123.34
54	1w	54	5MU	C5-C6-N1	-3.38	119.86	123.34
32	2a	1518	MA6	N3-C2-N1	-3.37	123.41	128.68
54	2y	32	PSU	O2-C2-N1	-3.37	119.08	122.79
54	1w	8	4SU	N3-C2-N1	3.35	119.34	114.89
54	1w	32	PSU	O2-C2-N1	-3.35	119.10	122.79
55	1x	55	PSU	O2-C2-N1	-3.35	119.11	122.79
54	1y	8	4SU	C5-C4-S4	-3.34	120.16	124.47
32	1a	1400	5MC	C5-C6-N1	-3.34	119.91	123.34
54	1w	39	PSU	O2-C2-N1	-3.33	119.12	122.79
32	1a	1518	MA6	C4-C5-N7	-3.33	105.92	109.40
55	1x	54	5MU	C5-C6-N1	-3.32	119.92	123.34
1	1A	1915	5MU	C5-C6-N1	-3.32	119.92	123.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	1519	MA6	C9-N6-C6	-3.32	109.47	119.51
1	2A	1911	PSU	O2-C2-N1	-3.28	119.18	122.79
32	2a	1400	5MC	C5-C6-N1	-3.28	119.96	123.34
54	1y	32	PSU	O2-C2-N1	-3.27	119.19	122.79
32	2a	516	PSU	O2-C2-N1	-3.27	119.19	122.79
54	2y	39	PSU	O2-C2-N1	-3.26	119.20	122.79
54	2y	8	4SU	C5-C4-S4	-3.25	120.28	124.47
1	1A	2552	2MU	O2-C2-N1	-3.25	118.47	122.79
32	2a	1519	MA6	C9-N6-C6	-3.23	109.73	119.51
55	2x	32	5MC	C5-C6-N1	-3.22	120.03	123.34
32	2a	1519	MA6	N3-C2-N1	-3.21	123.65	128.68
32	1a	1407	5MC	C5-C6-N1	-3.21	120.04	123.34
54	2y	54	5MU	C5-C6-N1	-3.20	120.05	123.34
1	1A	2552	2MU	O4-C4-C5	-3.11	119.69	125.16
54	1w	8	4SU	C5-C4-S4	-3.08	120.50	124.47
43	1l	92	0TD	OD2-CG-CB	3.07	119.78	113.15
54	1w	37	MIA	C12-N6-C6	-3.06	118.02	122.55
54	2y	55	PSU	O2-C2-N1	-3.04	119.44	122.79
32	1a	1519	MA6	N3-C2-N1	-3.03	123.94	128.68
1	1A	2552	2MU	C2'-C1'-N1	-3.03	108.35	114.22
55	1x	8	4SU	O2-C2-N1	2.98	126.75	122.79
54	2w	8	4SU	C1'-N1-C2	2.98	122.97	117.57
1	2A	2605	PSU	O2-C2-N1	-2.97	119.52	122.79
55	1x	8	4SU	C1'-N1-C2	2.97	122.95	117.57
54	1w	46	7MG	C5-C4-N9	-2.97	102.50	106.35
32	2a	1407	5MC	C5-C6-N1	-2.95	120.30	123.34
54	2w	54	5MU	C5-C6-N1	-2.94	120.31	123.34
54	2w	37	MIA	C12-N6-C6	-2.93	120.35	122.87
1	1A	2552	2MU	C5-C4-N3	2.89	119.16	114.84
54	1w	37	MIA	C2-N1-C6	2.88	122.34	117.19
1	2A	1939	5MU	O2-C2-N1	-2.86	118.98	122.79
1	2A	2552	2MU	C5-C4-N3	2.86	119.11	114.84
55	1x	32	5MC	C5-C4-N3	-2.82	118.63	121.67
32	2a	1407	5MC	C5-C4-N3	-2.80	118.65	121.67
32	1a	527	7MG	C5-C6-N1	2.77	115.87	110.99
1	2A	2552	2MU	O2-C2-N1	-2.75	119.13	122.79
32	2a	1404	5MC	C5-C4-N3	-2.75	118.71	121.67
54	2w	37	MIA	C2-N1-C6	2.74	122.09	117.19
55	2x	8	4SU	C4-N3-C2	-2.73	124.69	127.34
54	1y	37	MIA	C4-C5-N7	-2.71	106.57	109.40
54	2y	37	MIA	C4-C5-N7	-2.70	106.59	109.40
32	2a	527	7MG	C5-C6-N1	2.67	115.70	110.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	2x	32	5MC	C5-C4-N3	-2.66	118.81	121.67
54	1y	54	5MU	O2-C2-N1	-2.64	119.27	122.79
1	2A	1942	5MC	C5-C4-N3	-2.62	118.85	121.67
1	1A	2605	PSU	O2-C2-N1	-2.62	119.91	122.79
32	1a	1407	5MC	C5-C4-N3	-2.62	118.85	121.67
54	1w	54	5MU	O2-C2-N1	-2.60	119.33	122.79
54	2y	46	7MG	C5-C6-N1	2.58	115.54	110.99
1	1A	1962	5MC	C5-C4-N3	-2.57	118.90	121.67
32	1a	1400	5MC	C5-C4-N3	-2.56	118.91	121.67
43	2l	92	0TD	OD1-CG-CB	-2.55	117.09	122.44
32	2a	1400	5MC	C5-C4-N3	-2.55	118.92	121.67
1	1A	1939	5MU	O2-C2-N1	-2.55	119.39	122.79
54	2w	8	4SU	O2-C2-N1	-2.55	119.40	122.79
54	1w	37	MIA	C4-C5-N7	-2.52	106.77	109.40
32	2a	967	5MC	C5-C4-N3	-2.51	118.97	121.67
32	1a	1404	5MC	C5-C4-N3	-2.50	118.97	121.67
54	1w	37	MIA	N3-C2-N1	-2.50	122.39	126.98
54	1y	46	7MG	C5-C6-N1	2.49	115.37	110.99
32	2a	1207	2MG	C8-N7-C5	2.48	107.72	102.99
54	2w	39	PSU	O2-C2-N1	-2.47	120.07	122.79
54	2w	46	7MG	C5-C6-N1	2.47	115.34	110.99
54	2w	37	MIA	C4-C5-N7	-2.46	106.83	109.40
54	2y	46	7MG	C5-C4-N9	-2.46	103.15	106.35
1	1A	1942	5MC	C5-C4-N3	-2.46	119.02	121.67
54	1w	54	5MU	C5M-C5-C4	2.45	121.46	118.77
54	2w	37	MIA	N3-C2-N1	-2.45	122.48	126.98
32	1a	1207	2MG	C8-N7-C5	2.41	107.59	102.99
55	2x	54	5MU	O2-C2-N1	-2.41	119.58	122.79
54	2w	46	7MG	C5-C4-N9	-2.41	103.22	106.35
1	1A	2503	2MA	C5-C6-N1	2.40	118.15	114.02
32	2a	966	M2G	C8-N7-C5	2.37	107.51	102.99
32	1a	527	7MG	C5-C4-N9	-2.36	103.28	106.35
1	2A	2503	2MA	C5-C6-N1	2.36	118.09	114.02
32	1a	1518	MA6	C10-N6-C9	-2.34	108.58	116.12
54	1y	46	7MG	C5-C4-N9	-2.34	103.31	106.35
32	1a	967	5MC	C5-C4-N3	-2.34	119.15	121.67
1	2A	1962	5MC	C5-C4-N3	-2.32	119.17	121.67
1	1A	2251	OMG	C8-N7-C5	2.32	107.40	102.99
55	2x	8	4SU	C6-C5-C4	-2.31	117.95	119.95
1	1A	2251	OMG	C5-C6-N1	2.31	118.03	113.95
32	2a	1518	MA6	C10-N6-C9	-2.30	108.71	116.12
54	1w	37	MIA	C11-S10-C2	-2.30	100.55	102.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1915	5MU	O2-C2-N1	-2.29	119.74	122.79
1	1A	2503	2MA	C8-N7-C5	2.29	107.35	102.99
1	2A	2552	2MU	C2'-C1'-N1	-2.29	109.78	114.22
55	2x	8	4SU	C1'-N1-C6	-2.28	115.87	120.84
32	2a	1404	5MC	O2-C2-N3	-2.28	118.62	122.33
54	2w	37	MIA	N6-C6-N1	2.27	121.34	118.50
55	2x	32	5MC	O2-C2-N3	-2.27	118.65	122.33
55	1x	8	4SU	O2-C2-N3	-2.26	117.29	121.50
32	1a	966	M2G	C5-C6-N1	2.26	117.95	113.95
1	2A	2503	2MA	C8-N7-C5	2.26	107.29	102.99
32	2a	1498	UR3	C3U-N3-C4	2.24	121.09	117.89
55	1x	54	5MU	O2-C2-N1	-2.23	119.82	122.79
1	2A	2251	OMG	C5-C6-N1	2.23	117.89	113.95
54	2w	54	5MU	C5M-C5-C4	2.23	121.22	118.77
32	1a	1519	MA6	N1-C6-N6	2.23	119.40	117.06
1	2A	2552	2MU	O4-C4-C5	-2.22	121.26	125.16
55	2x	8	4SU	O2-C2-N3	-2.22	117.37	121.50
1	1A	1920	4OC	O2-C2-N3	-2.22	118.73	122.33
32	1a	527	7MG	O6-C6-C5	-2.22	122.10	127.54
32	1a	1498	UR3	C3U-N3-C4	2.21	121.05	117.89
1	2A	2251	OMG	C8-N7-C5	2.21	107.20	102.99
32	1a	1402	4OC	C6-C5-C4	2.21	119.66	116.96
43	1l	92	0TD	OD1-CG-CB	-2.19	117.86	122.44
54	1w	8	4SU	C1'-N1-C2	2.18	121.52	117.57
32	1a	1518	MA6	C10-N6-C6	-2.18	112.93	119.51
32	2a	966	M2G	C5-C6-N1	2.17	117.79	113.95
54	1w	46	7MG	C5-C6-N1	2.14	114.77	110.99
32	2a	527	7MG	C5-C4-N9	-2.14	103.57	106.35
1	2A	1920	4OC	O2-C2-N3	-2.14	118.86	122.33
32	1a	1400	5MC	O2-C2-N3	-2.13	118.86	122.33
54	2y	8	4SU	C1'-N1-C2	2.13	121.42	117.57
32	1a	1207	2MG	C5-C6-N1	2.12	117.70	113.95
54	2y	54	5MU	C5M-C5-C4	2.12	121.10	118.77
32	1a	1404	5MC	O2-C2-N3	-2.12	118.89	122.33
32	2a	967	5MC	O2-C2-N3	-2.10	118.91	122.33
1	1A	2251	OMG	O6-C6-C5	-2.10	120.26	124.37
32	2a	1402	4OC	C6-C5-C4	2.10	119.53	116.96
54	2y	55	PSU	C5-C6-N1	-2.09	118.97	122.11
54	2w	54	5MU	O2-C2-N1	-2.08	120.02	122.79
32	1a	966	M2G	C8-N7-C5	2.08	106.95	102.99
32	1a	527	7MG	CM7-N7-C5	2.04	131.66	126.40
54	2w	46	7MG	O6-C6-C5	-2.03	122.57	127.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	2y	39	PSU	C5-C6-N1	-2.02	119.07	122.11
54	1w	54	5MU	C5M-C5-C6	-2.02	120.15	122.85
32	2a	527	7MG	O6-C6-C5	-2.02	122.59	127.54
55	2x	8	4SU	C5-C4-S4	-2.01	121.88	124.47
1	2A	2605	PSU	C5-C6-N1	-2.01	119.10	122.11

There are no chirality outliers.

All (55) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	1a	1518	MA6	C5-C6-N6-C10
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C5-C6-N6-C10
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1518	MA6	C5-C6-N6-C9
32	2a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C5-C6-N6-C10
43	2l	92	0TD	O-C-CA-CB
1	1A	1915	5MU	C3'-C4'-C5'-O5'
54	2y	8	4SU	O4'-C4'-C5'-O5'
54	1w	37	MIA	C12-C13-C14-C16
54	1y	46	7MG	C4'-C5'-O5'-P
54	2y	46	7MG	C4'-C5'-O5'-P
32	1a	1402	4OC	O4'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
1	1A	1915	5MU	O4'-C4'-C5'-O5'
54	2y	8	4SU	C3'-C4'-C5'-O5'
32	1a	1402	4OC	C3'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	1y	8	4SU	O4'-C4'-C5'-O5'
32	2a	1518	MA6	N1-C6-N6-C9
32	1a	527	7MG	C3'-C4'-C5'-O5'
32	2a	1519	MA6	N1-C6-N6-C9
32	1a	1518	MA6	C5-C6-N6-C9
32	2a	1519	MA6	C5-C6-N6-C9
32	1a	1400	5MC	O4'-C4'-C5'-O5'
54	2w	46	7MG	C2'-C1'-N9-C8
54	2y	46	7MG	C2'-C1'-N9-C8
43	2l	92	0TD	CG-CB-SB-CSB
54	1w	46	7MG	C2'-C1'-N9-C8

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Mol	Chain	Res	Type	Atoms
54	1y	46	7MG	C2'-C1'-N9-C8
32	1a	527	7MG	O4'-C4'-C5'-O5'
32	1a	1400	5MC	C3'-C4'-C5'-O5'
32	2a	1519	MA6	C4'-C5'-O5'-P
1	1A	2503	2MA	C4'-C5'-O5'-P
54	2w	39	PSU	O4'-C1'-C5-C4
32	2a	527	7MG	C4'-C5'-O5'-P
54	2w	46	7MG	O4'-C1'-N9-C8
54	2y	46	7MG	O4'-C1'-N9-C8
54	1y	54	5MU	O4'-C4'-C5'-O5'
54	1w	46	7MG	O4'-C1'-N9-C8
43	1l	92	0TD	CG-CB-SB-CSB
54	2w	39	PSU	O4'-C1'-C5-C6
54	1y	46	7MG	O4'-C1'-N9-C8
32	1a	967	5MC	O4'-C4'-C5'-O5'
1	1A	1920	4OC	C2'-C1'-N1-C2
55	2x	8	4SU	C2'-C1'-N1-C2
1	2A	2503	2MA	O4'-C4'-C5'-O5'
1	1A	2503	2MA	O4'-C4'-C5'-O5'
32	1a	527	7MG	C4'-C5'-O5'-P
1	2A	2251	OMG	C4'-C5'-O5'-P
54	1y	8	4SU	C4'-C5'-O5'-P
32	1a	1519	MA6	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 2840 ligands modelled in this entry, 2836 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	CLM	2A	3888	-	19,20,20	0.94	2 (10%)	23,27,27	1.01	1 (4%)
57	CLM	1A	4102	-	19,20,20	0.92	1 (5%)	23,27,27	0.75	0
60	SF4	2d	302	35	0,12,12	-	-	-	-	-
60	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	CLM	2A	3888	-	-	6/20/22/22	0/1/1/1
57	CLM	1A	4102	-	-	7/20/22/22	0/1/1/1
60	SF4	2d	302	35	-	-	0/6/5/5
60	SF4	1d	302	35	-	-	0/6/5/5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	2A	3888	CLM	C6-C5	-2.42	1.48	1.51
57	1A	4102	CLM	C6-C5	-2.10	1.48	1.51
57	2A	3888	CLM	C9-N9	-2.09	1.40	1.45

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	2A	3888	CLM	C6-C5-C3	-2.83	106.66	111.64

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
57	2A	3888	CLM	C1-C2-N2-C3
57	2A	3888	CLM	O2-C2-N2-C3
57	2A	3888	CLM	C4-C3-N2-C2
57	2A	3888	CLM	N2-C3-C4-O4
57	2A	3888	CLM	C5-C3-C4-O4
57	1A	4102	CLM	O2-C2-N2-C3
57	1A	4102	CLM	C1-C2-N2-C3
57	1A	4102	CLM	C5-C3-C4-O4

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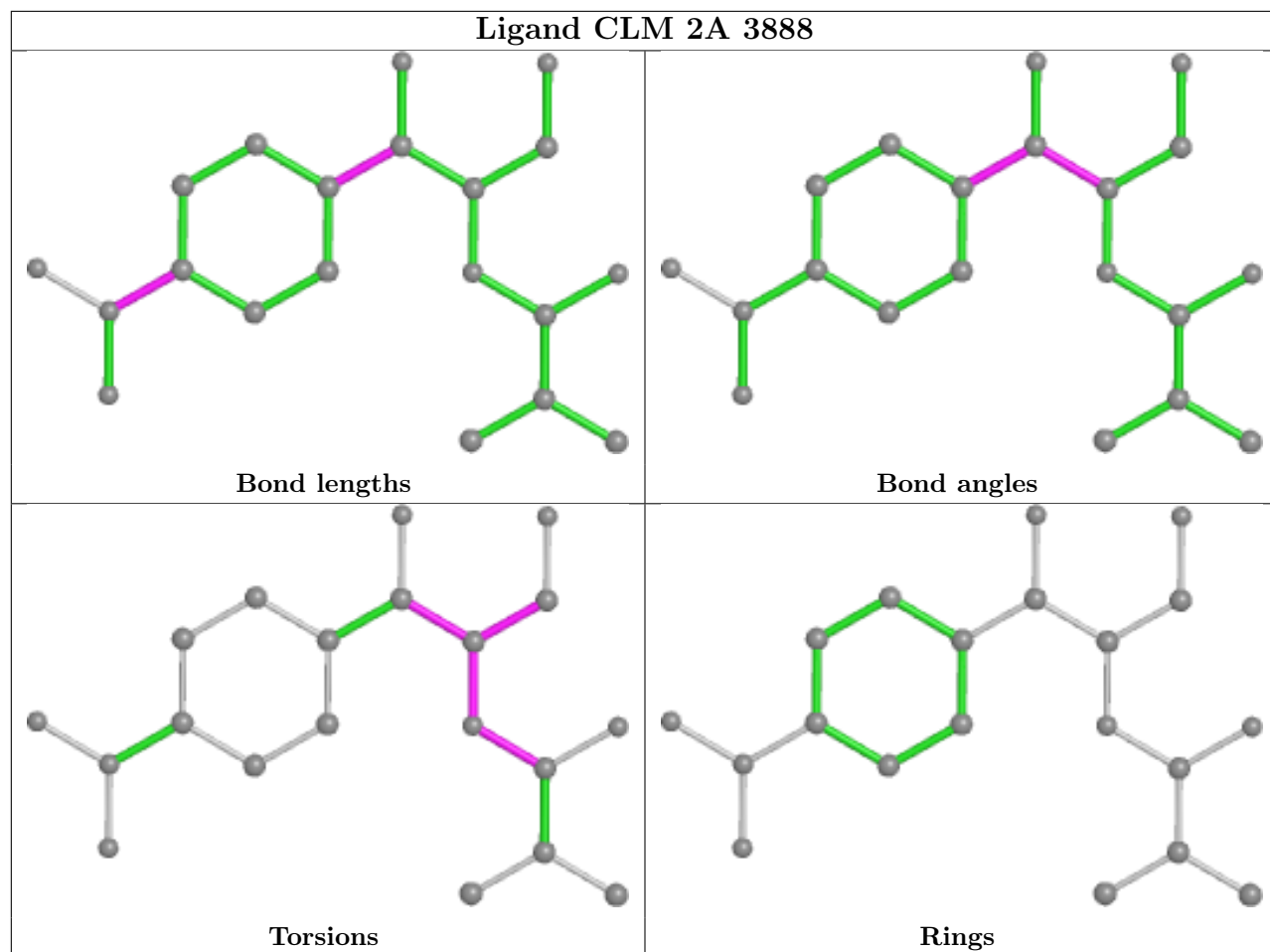
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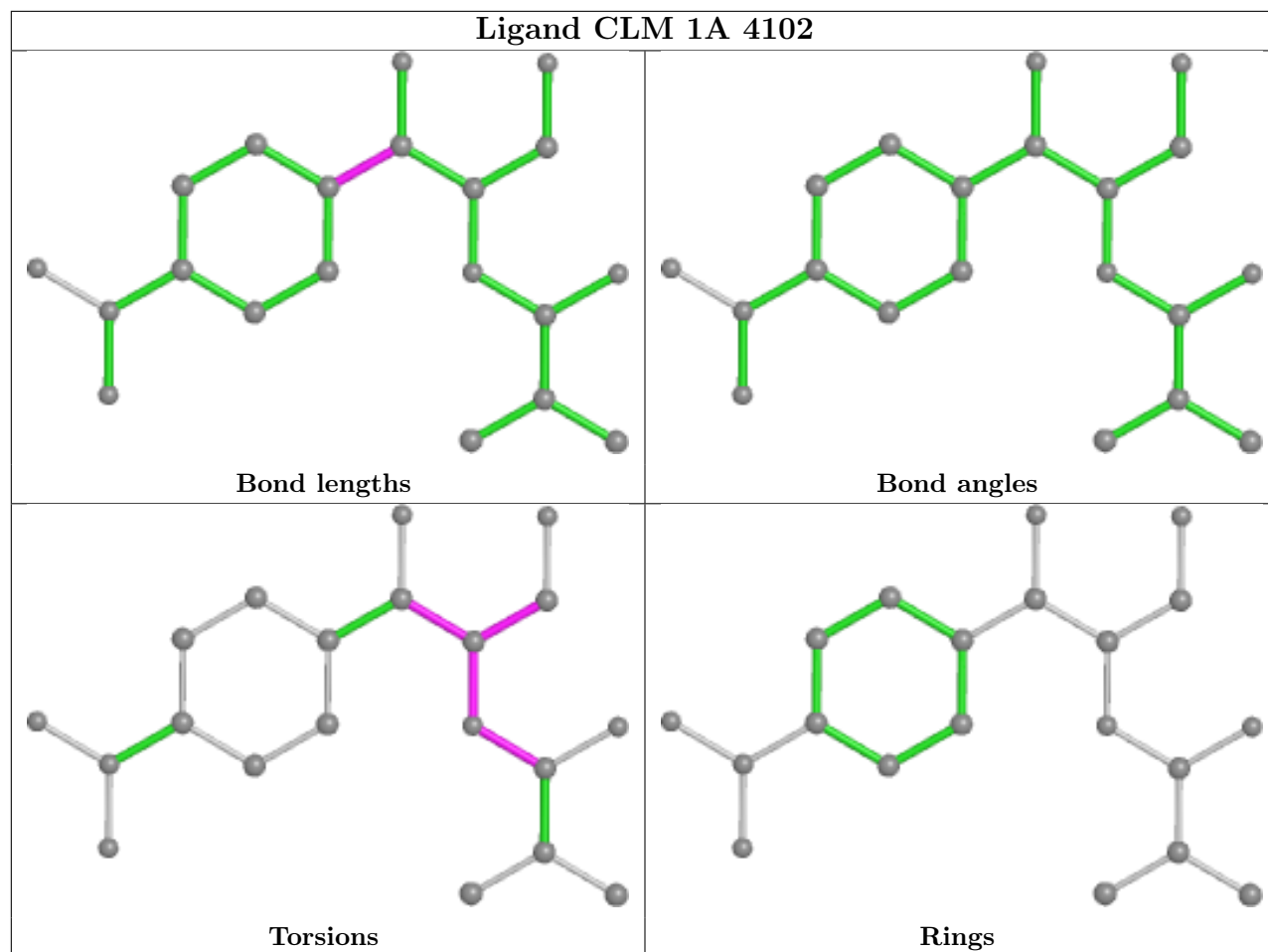
Mol	Chain	Res	Type	Atoms
57	1A	4102	CLM	N2-C3-C4-O4
57	1A	4102	CLM	C5-C3-N2-C2
57	1A	4102	CLM	C4-C3-N2-C2
57	1A	4102	CLM	C4-C3-C5-O5
57	2A	3888	CLM	C4-C3-C5-O5

There are no ring outliers.

No monomer is involved in short contacts.

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å ²)	Q < 0.9
1	1A	2860/2915 (98%)	0.40	45 (1%) 72 68	17, 34, 87, 101	0
1	2A	2789/2915 (95%)	0.16	58 (2%) 63 58	34, 57, 87, 102	0
2	1B	120/121 (99%)	0.09	0 100 100	27, 48, 58, 79	0
2	2B	120/121 (99%)	-0.34	0 100 100	58, 78, 85, 87	0
3	1D	275/276 (99%)	0.48	5 (1%) 68 64	20, 35, 50, 73	0
3	2D	275/276 (99%)	0.70	12 (4%) 34 27	33, 51, 62, 73	0
4	1E	204/206 (99%)	0.53	2 (0%) 82 80	18, 40, 57, 73	0
4	2E	204/206 (99%)	0.45	7 (3%) 45 38	35, 58, 69, 79	0
5	1F	203/210 (96%)	0.36	0 100 100	16, 41, 63, 80	0
5	2F	203/210 (96%)	0.57	7 (3%) 45 38	37, 64, 77, 83	0
6	1G	181/182 (99%)	0.15	1 (0%) 89 88	39, 56, 69, 78	0
6	2G	181/182 (99%)	0.73	23 (12%) 3 2	68, 77, 85, 93	0
7	1H	174/180 (96%)	0.12	0 100 100	37, 50, 62, 71	0
7	2H	174/180 (96%)	1.38	47 (27%) 0 0	67, 78, 84, 91	0
8	1I	146/148 (98%)	0.05	2 (1%) 75 71	45, 70, 77, 81	0
8	2I	146/148 (98%)	0.33	11 (7%) 14 10	53, 70, 80, 85	0
9	1N	140/140 (100%)	0.37	1 (0%) 87 86	26, 38, 54, 72	0
9	2N	140/140 (100%)	1.15	29 (20%) 1 0	46, 64, 75, 80	0
10	1O	122/122 (100%)	0.46	0 100 100	26, 40, 55, 61	0
10	2O	122/122 (100%)	0.59	5 (4%) 37 30	44, 57, 68, 73	0
11	1P	149/150 (99%)	0.72	5 (3%) 45 38	17, 44, 64, 72	0
11	2P	149/150 (99%)	1.50	45 (30%) 0 0	38, 64, 77, 83	0
12	1Q	141/141 (100%)	0.38	1 (0%) 87 86	27, 41, 54, 74	0
12	2Q	141/141 (100%)	0.79	15 (10%) 6 4	52, 65, 74, 80	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	0.41	0 100 100	22, 34, 47, 55	0
13	2R	118/118 (100%)	0.36	0 100 100	38, 51, 59, 67	0
14	1S	110/112 (98%)	0.16	0 100 100	37, 49, 61, 65	0
14	2S	110/112 (98%)	0.55	10 (9%) 9 6	63, 73, 80, 84	0
15	1T	131/146 (89%)	0.47	0 100 100	33, 43, 64, 70	0
15	2T	131/146 (89%)	0.35	4 (3%) 49 42	49, 59, 74, 79	0
16	1U	116/118 (98%)	0.48	1 (0%) 84 82	20, 29, 47, 60	0
16	2U	116/118 (98%)	1.01	17 (14%) 2 1	47, 61, 74, 80	0
17	1V	101/101 (100%)	0.35	0 100 100	20, 39, 56, 69	0
17	2V	101/101 (100%)	0.95	14 (13%) 2 1	42, 68, 76, 82	0
18	1W	112/113 (99%)	0.40	0 100 100	21, 30, 46, 75	0
18	2W	112/113 (99%)	0.56	2 (1%) 68 64	38, 50, 66, 88	0
19	1X	95/96 (98%)	0.30	0 100 100	24, 36, 55, 72	0
19	2X	95/96 (98%)	0.31	3 (3%) 47 40	44, 58, 70, 81	0
20	1Y	107/110 (97%)	0.28	0 100 100	33, 48, 66, 74	0
20	2Y	107/110 (97%)	1.02	17 (15%) 1 1	59, 68, 75, 84	0
21	1Z	154/206 (74%)	0.13	1 (0%) 89 88	41, 60, 77, 85	0
21	2Z	160/206 (77%)	0.44	4 (2%) 57 51	66, 78, 86, 88	0
22	10	83/85 (97%)	0.80	7 (8%) 11 7	27, 37, 60, 72	0
22	20	83/85 (97%)	1.50	19 (22%) 0 0	53, 64, 74, 83	0
23	11	97/98 (98%)	0.51	2 (2%) 63 58	24, 43, 63, 68	0
23	21	97/98 (98%)	1.11	16 (16%) 1 1	40, 56, 71, 73	0
24	12	70/72 (97%)	0.20	1 (1%) 75 71	32, 46, 57, 65	0
24	22	70/72 (97%)	0.43	1 (1%) 75 71	54, 68, 73, 76	0
25	13	59/60 (98%)	0.40	1 (1%) 70 66	25, 36, 58, 78	0
25	23	59/60 (98%)	2.02	27 (45%) 0 0	53, 64, 77, 79	0
26	14	69/71 (97%)	-0.07	0 100 100	49, 71, 81, 85	0
26	24	69/71 (97%)	0.26	7 (10%) 7 4	76, 82, 88, 91	0
27	15	59/60 (98%)	0.44	1 (1%) 70 66	18, 29, 45, 63	0
27	25	59/60 (98%)	0.33	2 (3%) 45 38	38, 50, 63, 67	0
28	16	53/54 (98%)	0.58	0 100 100	30, 41, 55, 61	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	1.21	10 (18%) 1 0	49, 61, 68, 75	0
29	17	48/49 (97%)	0.70	3 (6%) 20 15	18, 24, 52, 58	0
29	27	48/49 (97%)	1.07	7 (14%) 2 1	32, 41, 60, 68	0
30	18	64/65 (98%)	0.76	2 (3%) 49 42	26, 31, 38, 54	0
30	28	64/65 (98%)	1.55	17 (26%) 0 0	45, 54, 60, 71	0
31	19	37/37 (100%)	0.27	0 100 100	27, 38, 54, 57	0
31	29	37/37 (100%)	1.47	11 (29%) 0 0	59, 66, 73, 76	0
32	1a	1488/1521 (97%)	-0.02	24 (1%) 72 68	33, 65, 87, 100	0
32	2a	1491/1521 (98%)	0.10	50 (3%) 45 38	50, 75, 91, 99	0
33	1b	231/256 (90%)	0.21	7 (3%) 50 43	63, 74, 82, 87	0
33	2b	231/256 (90%)	1.42	63 (27%) 0 0	71, 83, 88, 92	0
34	1c	206/239 (86%)	0.94	35 (16%) 1 1	59, 70, 78, 83	0
34	2c	206/239 (86%)	1.89	90 (43%) 0 0	72, 82, 87, 91	0
35	1d	208/209 (99%)	0.51	12 (5%) 23 17	56, 69, 80, 84	0
35	2d	208/209 (99%)	0.27	3 (1%) 75 71	57, 67, 75, 82	0
36	1e	148/162 (91%)	0.40	3 (2%) 65 60	49, 63, 70, 76	0
36	2e	148/162 (91%)	0.76	19 (12%) 3 2	67, 76, 81, 88	0
37	1f	100/101 (99%)	0.21	0 100 100	50, 64, 70, 73	0
37	2f	100/101 (99%)	0.16	2 (2%) 65 60	60, 70, 77, 81	0
38	1g	155/156 (99%)	0.97	19 (12%) 4 2	50, 67, 76, 87	0
38	2g	155/156 (99%)	1.36	33 (21%) 0 0	66, 75, 82, 88	0
39	1h	137/138 (99%)	0.55	5 (3%) 42 35	56, 64, 71, 75	0
39	2h	137/138 (99%)	0.69	11 (8%) 12 9	67, 75, 80, 86	0
40	1i	127/128 (99%)	0.67	10 (7%) 12 9	52, 72, 77, 79	0
40	2i	127/128 (99%)	2.01	56 (44%) 0 0	68, 80, 86, 89	0
41	1j	97/105 (92%)	1.06	15 (15%) 2 1	58, 76, 83, 89	0
41	2j	96/105 (91%)	2.13	48 (50%) 0 0	71, 82, 88, 96	0
42	1k	114/129 (88%)	1.15	17 (14%) 2 1	38, 61, 70, 74	0
42	2k	114/129 (88%)	1.20	22 (19%) 1 0	56, 72, 77, 82	0
43	1l	121/132 (91%)	0.34	3 (2%) 57 51	42, 56, 66, 69	0
43	2l	121/132 (91%)	0.72	12 (9%) 7 5	58, 69, 76, 80	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.06	5 (4%) 37 30	55, 67, 75, 81	0
44	2m	122/126 (96%)	1.72	43 (35%) 0 0	71, 79, 85, 88	0
45	1n	60/61 (98%)	1.16	12 (20%) 1 0	60, 68, 73, 76	0
45	2n	60/61 (98%)	3.35	44 (73%) 0 0	74, 82, 86, 90	0
46	1o	88/89 (98%)	0.34	2 (2%) 60 54	48, 60, 70, 74	0
46	2o	88/89 (98%)	0.54	4 (4%) 33 26	60, 70, 78, 82	0
47	1p	82/88 (93%)	0.85	5 (6%) 21 16	56, 70, 76, 79	0
47	2p	82/88 (93%)	0.22	0 100 100	58, 65, 74, 80	0
48	1q	99/105 (94%)	0.52	2 (2%) 65 60	50, 63, 71, 73	0
48	2q	99/105 (94%)	1.01	17 (17%) 1 0	62, 69, 77, 81	0
49	1r	68/88 (77%)	0.75	6 (8%) 10 7	55, 64, 73, 75	0
49	2r	68/88 (77%)	0.57	6 (8%) 10 7	62, 71, 78, 82	0
50	1s	83/93 (89%)	0.00	0 100 100	60, 70, 77, 80	0
50	2s	83/93 (89%)	1.58	27 (32%) 0 0	75, 82, 87, 91	0
51	1t	96/106 (90%)	0.41	6 (6%) 20 15	58, 68, 76, 81	0
51	2t	96/106 (90%)	0.68	11 (11%) 4 3	57, 69, 76, 79	0
52	1u	23/27 (85%)	0.85	3 (13%) 3 2	59, 64, 69, 71	0
52	2u	23/27 (85%)	2.05	11 (47%) 0 0	74, 77, 81, 85	0
53	1v	13/24 (54%)	1.28	5 (38%) 0 0	47, 66, 80, 86	0
53	2v	13/24 (54%)	1.67	5 (38%) 0 0	69, 82, 92, 92	0
54	1w	67/76 (88%)	1.66	19 (28%) 0 0	59, 87, 94, 98	0
54	1y	67/76 (88%)	1.36	18 (26%) 0 0	38, 86, 93, 96	0
54	2w	65/76 (85%)	2.95	39 (60%) 0 0	74, 91, 96, 101	0
54	2y	66/76 (86%)	1.92	33 (50%) 0 0	57, 92, 96, 99	0
55	1x	72/77 (93%)	0.22	1 (1%) 75 71	37, 62, 77, 85	0
55	2x	72/77 (93%)	0.15	1 (1%) 75 71	55, 78, 86, 89	0
All	All	20875/21748 (95%)	0.50	1412 (6%) 17 12	16, 62, 85, 102	0

All (1412) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
44	2m	124	PRO	11.9
38	2g	80	VAL	11.5

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Mol	Chain	Res	Type	RSRZ
54	1w	71	G	10.9
38	1g	80	VAL	10.4
44	2m	6	GLY	9.0
45	2n	25	VAL	8.9
54	1w	72	C	8.5
38	2g	81	GLY	8.4
54	1w	70	G	8.3
22	20	2	ALA	8.1
50	2s	79	THR	8.0
54	2w	76	A	7.9
44	2m	120	LYS	7.9
38	1g	82	GLY	7.8
54	2w	71	G	7.8
3	2D	2	ALA	7.6
45	2n	44	LEU	7.6
32	2a	1030(B)	C	7.6
44	2m	123	ALA	7.6
44	2m	102	ARG	7.5
54	2w	4	C	7.3
54	2w	72	C	7.2
34	1c	39	ILE	7.2
41	2j	47	PHE	7.2
54	2w	31	A	7.2
54	2w	70	G	7.2
22	20	5	LYS	7.1
40	2i	115	GLY	7.1
25	23	26	LEU	6.9
22	10	7	LEU	6.7
23	21	2	SER	6.7
1	2A	2146	C	6.7
38	2g	82	GLY	6.7
54	1w	73	A	6.6
54	2w	3	C	6.6
54	2w	73	A	6.5
54	2w	75	C	6.5
40	2i	123	PRO	6.4
38	1g	79	ARG	6.3
32	2a	1034	G	6.3
45	2n	38	GLY	6.3
45	2n	34	TYR	6.3
45	2n	39	LEU	6.3
40	2i	7	THR	6.2

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Mol	Chain	Res	Type	RSRZ
54	1y	20	U	6.2
45	1n	2	ALA	6.2
22	10	5	LYS	6.1
1	2A	229	A	6.1
38	1g	85	TYR	6.1
45	2n	36	PHE	6.0
33	2b	165	VAL	6.0
40	2i	36	TYR	6.0
38	2g	78	ARG	5.9
22	10	6	GLY	5.9
20	2Y	5	MET	5.8
33	2b	187	LEU	5.7
32	2a	1030(A)	G	5.7
54	2y	36	A	5.7
44	1m	124	PRO	5.7
31	29	37	GLY	5.7
38	2g	154	TYR	5.7
34	2c	64	VAL	5.7
22	10	4	LYS	5.7
40	2i	124	GLN	5.6
32	2a	1033	G	5.6
34	2c	53	ALA	5.6
34	2c	65	ALA	5.6
50	2s	80	TYR	5.5
44	2m	5	ALA	5.5
45	2n	35	ARG	5.5
38	2g	156	TRP	5.5
32	1a	1036	G	5.5
54	2w	74	C	5.5
44	2m	121	LYS	5.4
45	2n	12	ARG	5.4
22	20	7	LEU	5.4
41	2j	85	LEU	5.4
45	2n	42	ILE	5.3
12	2Q	104	PHE	5.3
38	2g	84	ASN	5.3
52	2u	14	TRP	5.3
34	2c	8	ILE	5.2
32	2a	1036	G	5.2
34	2c	182	ILE	5.2
50	2s	82	GLY	5.2
41	2j	65	LEU	5.2

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Mol	Chain	Res	Type	RSRZ
45	2n	47	LEU	5.2
1	1A	2145	C	5.1
34	2c	4	LYS	5.1
38	1g	154	TYR	5.0
40	2i	127	LYS	5.0
45	2n	22	THR	5.0
40	2i	114	TYR	5.0
32	2a	1001(A)	G	5.0
40	2i	106	ALA	4.9
54	1w	76	A	4.9
33	2b	37	ASN	4.9
36	2e	109	ILE	4.9
40	2i	52	ALA	4.9
25	23	59	VAL	4.9
1	2A	2145	C	4.8
41	2j	55	LYS	4.8
1	2A	652(B)	A	4.8
7	2H	107	VAL	4.8
34	2c	59	ARG	4.8
22	20	76	GLY	4.8
54	2w	5	G	4.8
54	2w	28	G	4.8
33	2b	215	LEU	4.8
34	2c	33	LEU	4.8
40	2i	81	ILE	4.7
54	1w	3	C	4.7
32	2a	1035	A	4.7
54	1y	35	A	4.7
34	2c	80	GLY	4.7
45	2n	11	LYS	4.7
44	2m	66	LEU	4.7
45	2n	53	LEU	4.6
54	1w	2	C	4.6
54	2w	69	G	4.6
34	2c	202	ILE	4.6
1	1A	2146	C	4.6
38	1g	156	TRP	4.6
44	2m	90	LEU	4.6
7	2H	35	VAL	4.6
34	2c	190	ARG	4.6
38	2g	85	TYR	4.6
34	2c	198	VAL	4.6

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Mol	Chain	Res	Type	RSRZ
43	2l	18	VAL	4.6
1	1A	2159	G	4.5
22	10	3	HIS	4.5
33	2b	201	ILE	4.5
45	2n	10	ALA	4.5
41	2j	50	ILE	4.5
1	1A	2112	G	4.5
50	2s	53	ASN	4.5
25	23	29	ARG	4.5
45	2n	29	ARG	4.5
34	2c	81	GLY	4.5
41	2j	48	THR	4.5
45	2n	37	PHE	4.5
33	2b	214	ILE	4.5
33	2b	216	SER	4.5
53	1v	12	A	4.5
45	2n	31	ARG	4.5
38	1g	83	ALA	4.5
33	2b	152	PHE	4.4
40	2i	109	VAL	4.4
8	2I	12	LEU	4.4
32	2a	1001	A	4.4
33	2b	118	LEU	4.4
45	2n	56	VAL	4.4
40	2i	53	VAL	4.4
50	2s	14	HIS	4.4
41	2j	93	GLY	4.4
1	1A	2129	C	4.4
35	1d	180	GLY	4.4
45	2n	58	LYS	4.4
42	2k	50	TYR	4.4
34	2c	91	LEU	4.3
34	2c	134	ILE	4.3
3	1D	276	LYS	4.3
40	2i	14	VAL	4.3
33	2b	131	PRO	4.3
44	2m	60	VAL	4.3
34	2c	200	ALA	4.3
40	2i	82	ALA	4.3
33	2b	185	ILE	4.3
1	2A	2144	U	4.3
22	10	8	GLY	4.3

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Mol	Chain	Res	Type	RSRZ
44	2m	78	ILE	4.3
38	2g	79	ARG	4.3
50	2s	52	TYR	4.3
41	1j	98	ILE	4.3
40	2i	79	LEU	4.3
41	2j	41	PRO	4.3
32	1a	1532	U	4.3
42	2k	25	TYR	4.3
6	2G	157	ILE	4.3
34	2c	57	ILE	4.3
41	2j	98	ILE	4.3
38	2g	16	LEU	4.2
44	2m	119	GLY	4.2
20	2Y	106	LEU	4.2
7	2H	123	PHE	4.2
1	1A	1509	C	4.2
38	2g	4	ARG	4.2
40	2i	125	TYR	4.2
45	2n	7	ILE	4.2
52	2u	5	ASP	4.2
41	2j	66	ARG	4.2
54	2w	2	C	4.2
34	2c	186	PHE	4.2
53	2v	12	A	4.2
44	2m	122	LYS	4.2
41	2j	96	ILE	4.2
1	1A	2141	G	4.1
34	2c	87	LEU	4.1
33	2b	163	PHE	4.1
38	2g	147	ALA	4.1
34	2c	5	ILE	4.1
29	27	23	ARG	4.1
22	20	4	LYS	4.1
41	1j	97	GLU	4.1
34	2c	124	ILE	4.1
34	2c	52	LEU	4.1
33	2b	71	VAL	4.1
33	2b	101	MET	4.1
41	2j	62	HIS	4.1
1	1A	2158	A	4.1
11	2P	79	ARG	4.1
7	2H	24	VAL	4.1

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Mol	Chain	Res	Type	RSRZ
1	1A	2140	C	4.1
41	2j	63	PHE	4.1
6	2G	152	LEU	4.0
7	2H	103	LEU	4.0
7	2H	72	ILE	4.0
7	2H	101	ARG	4.0
54	1y	36	A	4.0
33	2b	203	GLY	4.0
54	1w	4	C	4.0
44	2m	92	HIS	4.0
1	2A	2112	G	4.0
7	2H	115	VAL	4.0
32	1a	1030(B)	C	4.0
21	2Z	149	SER	4.0
44	2m	88	ARG	4.0
45	2n	24	CYS	4.0
34	2c	178	LEU	4.0
45	2n	59	ALA	4.0
44	2m	87	TYR	3.9
32	1a	1531	A	3.9
33	2b	93	VAL	3.9
42	2k	109	VAL	3.9
45	1n	59	ALA	3.9
54	2w	56	C	3.9
42	1k	25	TYR	3.9
34	2c	179	ARG	3.9
41	2j	10	GLY	3.9
34	2c	188	LEU	3.9
34	2c	184	TYR	3.9
41	2j	67	THR	3.9
33	2b	81	VAL	3.9
45	2n	6	LEU	3.9
16	2U	90	VAL	3.9
26	24	50	VAL	3.9
44	2m	95	GLY	3.9
34	2c	206	GLU	3.8
1	2A	2154	G	3.8
52	2u	11	GLY	3.8
9	2N	69	GLN	3.8
44	2m	94	ARG	3.8
17	2V	73	SER	3.8
41	2j	72	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
1	2A	645	C	3.8
54	2w	23	A	3.8
54	2y	23	A	3.8
14	2S	20	ARG	3.8
1	1A	2113	U	3.8
40	2i	19	LEU	3.8
54	1w	44	G	3.8
33	2b	186	ALA	3.8
40	2i	128	ARG	3.8
45	2n	13	THR	3.8
52	2u	6	ARG	3.8
40	2i	41	VAL	3.8
28	26	54	ILE	3.8
54	2w	13	C	3.8
25	23	47	VAL	3.8
41	2j	59	SER	3.8
34	2c	113	ALA	3.7
40	2i	108	VAL	3.7
33	2b	228	GLY	3.7
50	2s	31	ILE	3.7
31	29	25	VAL	3.7
54	1w	74	C	3.7
25	23	60	GLU	3.7
38	2g	32	ARG	3.7
43	2l	13	LYS	3.7
51	2t	24	LEU	3.7
38	2g	83	ALA	3.7
1	1A	2109	U	3.7
50	2s	32	LYS	3.7
54	2y	35	A	3.7
9	2N	5	VAL	3.7
9	2N	10	GLU	3.7
20	2Y	45	VAL	3.7
23	21	28	GLY	3.7
11	2P	45	LEU	3.7
45	2n	16	PHE	3.7
41	1j	46	ARG	3.7
54	1w	1	G	3.7
11	2P	91	PHE	3.7
38	2g	152	ALA	3.7
40	2i	122	ALA	3.7
42	1k	92	GLU	3.7

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Mol	Chain	Res	Type	RSRZ
17	2V	71	LEU	3.6
41	2j	27	ALA	3.6
32	2a	1026	G	3.6
42	2k	60	ALA	3.6
11	2P	109	GLY	3.6
32	2a	1257	U	3.6
25	23	28	LEU	3.6
48	2q	22	LEU	3.6
25	23	21	ALA	3.6
54	2w	6	G	3.6
7	2H	106	THR	3.6
31	29	12	ASP	3.6
54	2w	14	A	3.6
32	2a	1030	C	3.6
33	2b	207	ALA	3.6
34	2c	177	THR	3.6
8	2I	1	MET	3.6
35	1d	135	LEU	3.6
39	2h	2	LEU	3.6
38	1g	81	GLY	3.6
40	1i	117	HIS	3.6
22	10	2	ALA	3.6
44	1m	123	ALA	3.6
6	2G	39	ILE	3.6
36	2e	12	LEU	3.6
11	2P	31	ALA	3.6
19	2X	92	LEU	3.6
1	1A	2131	G	3.6
54	2y	53	G	3.6
48	2q	30	PRO	3.6
6	2G	139	LEU	3.6
38	1g	78	ARG	3.5
54	1y	47	U	3.5
52	2u	17	THR	3.5
32	1a	1001(A)	G	3.5
34	1c	12	LEU	3.5
1	1A	2132	U	3.5
54	2w	45	U	3.5
25	23	6	VAL	3.5
45	2n	41	ARG	3.5
30	28	29	LYS	3.5
38	2g	155	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
1	1A	2128	C	3.5
50	2s	84	GLY	3.5
41	2j	46	ARG	3.5
41	2j	44	VAL	3.5
32	2a	1032	G	3.5
54	1w	69	G	3.5
54	2y	65	G	3.5
32	2a	1321	C	3.5
3	2D	38	LYS	3.5
34	2c	174	PRO	3.5
41	2j	89	ASP	3.5
1	1A	2138	C	3.5
32	1a	1257	U	3.5
7	2H	94	TYR	3.5
40	2i	105	ASP	3.5
36	2e	81	GLU	3.4
1	1A	2111	C	3.4
11	2P	110	TYR	3.4
33	2b	31	TYR	3.4
34	2c	149	ALA	3.4
42	2k	23	ALA	3.4
53	2v	23	A	3.4
35	1d	170	VAL	3.4
33	2b	90	MET	3.4
54	2w	41	C	3.4
45	2n	57	ARG	3.4
34	1c	15	THR	3.4
54	2w	19	G	3.4
23	2l	29	GLY	3.4
31	29	16	VAL	3.4
11	2P	118	GLY	3.4
33	2b	161	ALA	3.4
6	2G	51	ARG	3.4
40	2i	9	ARG	3.4
20	2Y	1	MET	3.4
30	28	25	MET	3.4
32	1a	1002	G	3.4
32	2a	1003	G	3.4
42	1k	97	ALA	3.4
50	2s	13	ASP	3.4
40	2i	90	PRO	3.4
6	1G	139	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
25	23	23	LEU	3.4
34	1c	64	VAL	3.4
41	2j	71	LEU	3.4
9	2N	116	LEU	3.4
34	2c	205	GLY	3.4
45	2n	8	GLU	3.4
50	2s	30	LEU	3.4
1	2A	883	G	3.3
21	2Z	144	LEU	3.3
33	2b	164	VAL	3.3
53	2v	24	A	3.3
54	2w	38	A	3.3
32	2a	1030(C)	G	3.3
36	2e	31	LEU	3.3
45	2n	50	LYS	3.3
29	17	46	VAL	3.3
26	24	51	ASP	3.3
43	2l	56	ALA	3.3
1	2A	2155	G	3.3
54	2y	34	G	3.3
8	2I	3	VAL	3.3
22	20	3	HIS	3.3
33	2b	211	ILE	3.3
7	2H	102	ALA	3.3
33	2b	83	MET	3.3
4	2E	195	LEU	3.3
12	2Q	37	LEU	3.3
34	2c	204	LEU	3.3
49	1r	78	LEU	3.3
53	2v	13	A	3.3
20	2Y	44	ILE	3.3
6	2G	2	PRO	3.3
11	2P	92	GLU	3.3
40	2i	86	VAL	3.3
45	1n	7	ILE	3.3
7	2H	96	ALA	3.3
32	2a	1002	G	3.3
34	2c	19	GLU	3.3
6	2G	49	ASP	3.3
1	2A	2169	A	3.3
33	2b	77	ALA	3.3
40	2i	116	LYS	3.3

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Mol	Chain	Res	Type	RSRZ
1	1A	2151	G	3.3
34	2c	12	LEU	3.3
54	2y	52	G	3.3
28	26	52	VAL	3.2
23	21	69	LYS	3.2
40	1i	106	ALA	3.2
41	1j	18	ALA	3.2
1	2A	1847	A	3.2
40	2i	121	ARG	3.2
44	2m	70	LEU	3.2
44	2m	106	ASN	3.2
43	2l	39	VAL	3.2
36	2e	86	ALA	3.2
6	2G	29	TRP	3.2
42	1k	123	LYS	3.2
54	1y	21	A	3.2
7	2H	76	VAL	3.2
40	2i	28	VAL	3.2
52	2u	16	GLY	3.2
7	2H	148	ILE	3.2
12	2Q	6	ARG	3.2
41	2j	16	LEU	3.2
45	2n	61	TRP	3.2
34	2c	120	VAL	3.2
48	2q	23	VAL	3.2
33	2b	92	TYR	3.2
45	2n	23	ARG	3.2
1	1A	2190	G	3.2
38	1g	84	ASN	3.2
22	20	6	GLY	3.2
34	2c	37	GLN	3.2
36	1e	89	ILE	3.2
34	1c	180	ALA	3.2
6	2G	133	LEU	3.2
1	2A	2133	G	3.2
34	2c	6	HIS	3.2
40	2i	117	HIS	3.2
45	2n	45	ARG	3.2
34	2c	10	PHE	3.2
42	1k	15	ALA	3.2
41	2j	88	LEU	3.2
44	2m	99	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
32	1a	1037	C	3.2
26	24	49	PHE	3.2
36	2e	16	THR	3.2
42	2k	125	PHE	3.2
32	1a	1030(A)	G	3.2
32	2a	1202	G	3.2
54	2y	15	G	3.2
7	2H	128	PRO	3.2
34	1c	87	LEU	3.2
41	2j	56	HIS	3.1
28	26	5	VAL	3.1
1	2A	2174	C	3.1
1	2A	2149	G	3.1
42	2k	126	ARG	3.1
52	2u	23	PRO	3.1
17	2V	72	VAL	3.1
34	2c	153	VAL	3.1
26	24	68	ARG	3.1
44	2m	4	ILE	3.1
50	2s	81	ARG	3.1
14	2S	58	LEU	3.1
35	1d	21	LEU	3.1
54	2y	24	G	3.1
22	20	37	LEU	3.1
44	2m	23	TYR	3.1
41	2j	54	PHE	3.1
10	2O	99	PHE	3.1
9	2N	23	LEU	3.1
23	11	2	SER	3.1
34	1c	34	LEU	3.1
34	2c	189	ALA	3.1
34	2c	7	PRO	3.1
30	28	46	ARG	3.1
1	1A	1847	A	3.1
1	1A	2161	C	3.1
45	2n	4	LYS	3.1
35	1d	105	VAL	3.1
33	2b	232	PRO	3.1
1	2A	2118	U	3.1
25	23	35	ARG	3.1
34	2c	69	HIS	3.1
45	2n	49	HIS	3.1

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Mol	Chain	Res	Type	RSRZ
7	2H	166	GLY	3.1
33	2b	122	PHE	3.1
34	2c	21	ARG	3.1
34	2c	152	ILE	3.1
48	2q	91	ARG	3.1
26	24	63	TYR	3.0
36	2e	133	TYR	3.0
9	2N	9	VAL	3.0
11	2P	101	VAL	3.0
54	2w	22	G	3.0
53	1v	13	A	3.0
34	2c	23	TYR	3.0
40	2i	102	LEU	3.0
25	23	12	PRO	3.0
30	28	16	ILE	3.0
33	2b	208	ILE	3.0
34	2c	55	VAL	3.0
12	2Q	33	GLY	3.0
41	2j	6	ILE	3.0
45	2n	55	GLY	3.0
54	1y	56	C	3.0
9	2N	48	MET	3.0
9	2N	73	THR	3.0
54	2y	33	U	3.0
7	2H	36	PRO	3.0
16	2U	62	ILE	3.0
44	2m	7	VAL	3.0
54	2w	30	G	3.0
49	1r	40	LEU	3.0
1	2A	2109	U	3.0
12	2Q	66	ILE	3.0
20	2Y	61	ILE	3.0
29	27	47	ARG	3.0
48	2q	42	TYR	3.0
11	1P	108	LYS	3.0
5	2F	37	VAL	3.0
25	23	53	LEU	3.0
32	2a	1114	C	3.0
36	2e	21	ALA	3.0
54	2w	29	G	3.0
48	2q	100	LYS	3.0
38	2g	151	TYR	3.0

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Mol	Chain	Res	Type	RSRZ
44	2m	103	THR	3.0
11	2P	148	LEU	3.0
41	2j	49	VAL	3.0
44	2m	100	GLY	3.0
7	2H	89	ILE	2.9
1	1A	2160	G	2.9
1	2A	2159	G	2.9
5	2F	89	VAL	2.9
7	2H	45	VAL	2.9
12	1Q	81	VAL	2.9
3	1D	2	ALA	2.9
45	2n	2	ALA	2.9
39	1h	13	ILE	2.9
32	2a	1040	U	2.9
32	2a	973	G	2.9
4	2E	52	LEU	2.9
40	1i	47	LEU	2.9
36	2e	90	VAL	2.9
49	2r	86	VAL	2.9
9	2N	102	ALA	2.9
33	2b	97	TRP	2.9
34	2c	17	ASP	2.9
34	2c	176	HIS	2.9
1	2A	2111	C	2.9
51	1t	69	GLY	2.9
24	22	60	LEU	2.9
30	28	60	LEU	2.9
39	2h	112	LEU	2.9
1	1A	2162	G	2.9
32	2a	1220	G	2.9
43	2l	68	ALA	2.9
54	2y	63	G	2.9
30	28	65	GLU	2.9
34	2c	157	ILE	2.9
44	2m	25	ILE	2.9
34	1c	72	LYS	2.9
41	2j	60	ARG	2.9
49	1r	31	LEU	2.9
4	1E	1	MET	2.9
30	28	23	VAL	2.9
32	1a	1030	C	2.9
32	2a	1027	C	2.9

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Mol	Chain	Res	Type	RSRZ
11	2P	78	PRO	2.9
38	1g	153	HIS	2.9
41	1j	5	ARG	2.9
34	2c	145	GLY	2.9
35	1d	101	LEU	2.9
40	2i	110	GLU	2.9
48	2q	9	VAL	2.9
29	27	48	LYS	2.9
38	2g	88	PRO	2.9
54	1y	13	C	2.9
44	2m	84	ILE	2.9
32	2a	1224	G	2.9
54	2w	15	G	2.9
54	2y	1	G	2.9
6	2G	149	VAL	2.9
7	2H	113	VAL	2.9
7	2H	114	VAL	2.9
9	2N	1	MET	2.9
34	1c	193	TYR	2.9
46	2o	27	VAL	2.9
1	1A	271(K)	U	2.9
7	2H	21	PRO	2.9
34	2c	71	ALA	2.9
51	2t	9	ASN	2.9
52	1u	14	TRP	2.9
1	1A	2108	C	2.9
54	2w	40	C	2.9
1	2A	2127	G	2.9
44	2m	104	ARG	2.9
11	2P	97	PRO	2.9
40	2i	4	TYR	2.9
14	2S	35	ILE	2.8
33	2b	132	LYS	2.8
50	2s	38	SER	2.8
38	1g	99	LEU	2.8
9	2N	46	VAL	2.8
50	2s	50	ALA	2.8
54	2y	45	U	2.8
1	2A	2142	C	2.8
32	1a	1027	C	2.8
7	2H	34	GLU	2.8
41	2j	64	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
1	2A	2119	A	2.8
29	17	48	LYS	2.8
40	2i	27	THR	2.8
29	27	1	MET	2.8
32	1a	1028	C	2.8
42	2k	89	ALA	2.8
44	1m	2	ALA	2.8
3	1D	275	LYS	2.8
30	28	41	ILE	2.8
36	2e	89	ILE	2.8
11	2P	85	LEU	2.8
23	21	98	LEU	2.8
1	2A	1026	U	2.8
29	27	46	VAL	2.8
32	2a	1222	G	2.8
34	2c	185	GLY	2.8
50	2s	40	ILE	2.8
41	1j	100	THR	2.8
54	2y	47	U	2.8
6	2G	160	VAL	2.8
17	2V	1	MET	2.8
36	2e	82	VAL	2.8
45	2n	18	VAL	2.8
9	2N	104	LYS	2.8
38	2g	149	ARG	2.8
1	1A	2119	A	2.8
1	2A	2110	G	2.8
11	2P	74	GLU	2.8
34	2c	39	ILE	2.8
39	2h	83	ILE	2.8
41	2j	11	PHE	2.8
54	2y	48	C	2.8
34	2c	41	GLY	2.8
34	1c	66	VAL	2.8
8	2I	85	GLU	2.8
40	2i	126	SER	2.8
1	2A	2116	G	2.8
1	2A	2153	G	2.8
1	2A	2166	G	2.8
7	2H	105	LEU	2.8
34	1c	196	LEU	2.8
54	2y	18	G	2.8

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Mol	Chain	Res	Type	RSRZ
1	1A	2174	C	2.8
16	2U	43	GLY	2.8
51	2t	26	ASN	2.8
38	2g	40	ALA	2.7
34	1c	201	TYR	2.7
17	2V	101	GLY	2.7
33	1b	196	LEU	2.7
44	2m	19	LEU	2.7
3	2D	271	ILE	2.7
1	2A	2128	C	2.7
1	2A	2147	G	2.7
32	1a	1030(C)	G	2.7
32	2a	998	G	2.7
33	1b	136	VAL	2.7
35	2d	32	ALA	2.7
38	2g	89	MET	2.7
33	2b	96	ARG	2.7
41	1j	47	PHE	2.7
34	1c	152	ILE	2.7
40	1i	65	VAL	2.7
44	2m	118	ALA	2.7
1	2A	2170	A	2.7
53	1v	14	A	2.7
1	1A	2100	G	2.7
32	2a	1061	G	2.7
54	1w	5	G	2.7
11	2P	59	LEU	2.7
29	17	47	ARG	2.7
34	1c	43	LEU	2.7
47	1p	59	TRP	2.7
48	2q	32	TYR	2.7
54	2y	66	U	2.7
11	2P	75	ILE	2.7
25	23	43	ILE	2.7
12	2Q	22	LYS	2.7
33	2b	112	VAL	2.7
33	2b	130	ARG	2.7
45	1n	57	ARG	2.7
32	2a	1225	A	2.7
1	2A	2125	G	2.7
1	2A	2802	G	2.7
34	2c	201	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
54	2y	6	G	2.7
34	1c	14	ILE	2.7
7	2H	29	PRO	2.7
20	2Y	65	ALA	2.7
44	2m	97	PRO	2.7
8	2I	19	VAL	2.7
33	2b	48	MET	2.7
40	2i	67	GLY	2.7
38	2g	86	GLN	2.7
33	2b	33	TYR	2.7
40	2i	88	TYR	2.7
54	2y	56	C	2.7
32	2a	1532	U	2.7
41	2j	74	ILE	2.7
1	2A	2160	G	2.7
38	2g	77	SER	2.7
11	2P	90	ARG	2.7
11	2P	68	GLN	2.7
33	2b	95	GLN	2.7
7	2H	88	LEU	2.7
32	1a	345	C	2.7
1	2A	2132	U	2.7
54	1w	20	U	2.7
54	2w	12	U	2.7
34	2c	187	ALA	2.7
54	2y	22	G	2.7
21	1Z	1	MET	2.7
11	2P	105	LEU	2.7
9	2N	75	TYR	2.7
33	2b	58	ILE	2.7
33	2b	109	SER	2.7
16	2U	117	GLN	2.6
4	2E	167	VAL	2.6
23	2I	14	VAL	2.6
33	2b	98	LEU	2.6
54	2w	44	G	2.6
23	2I	26	ARG	2.6
40	2i	83	ARG	2.6
44	2m	93	ARG	2.6
11	2P	116	GLY	2.6
34	1c	185	GLY	2.6
7	2H	19	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
25	23	54	VAL	2.6
54	1w	75	C	2.6
5	2F	131	GLY	2.6
30	28	38	GLY	2.6
5	2F	81	PRO	2.6
34	2c	60	ALA	2.6
21	2Z	139	VAL	2.6
45	1n	33	VAL	2.6
1	1A	2130	U	2.6
9	2N	107	LEU	2.6
11	2P	147	LEU	2.6
36	2e	25	ARG	2.6
34	2c	56	ASP	2.6
54	2y	2	C	2.6
33	2b	32	ILE	2.6
48	2q	36	ILE	2.6
23	21	68	PRO	2.6
28	26	35	GLU	2.6
1	1A	2115	G	2.6
1	1A	2116	G	2.6
11	1P	15	ARG	2.6
42	1k	126	ARG	2.6
41	2j	40	LEU	2.6
1	2A	2113	U	2.6
22	20	45	PHE	2.6
30	28	15	LYS	2.6
54	2y	3	C	2.6
40	2i	5	TYR	2.6
43	2l	64	TYR	2.6
6	2G	136	ARG	2.6
11	2P	65	ARG	2.6
28	26	20	ASN	2.6
54	2y	73	A	2.6
7	2H	13	LYS	2.6
9	2N	113	GLY	2.6
33	2b	133	LYS	2.6
49	2r	43	PHE	2.6
42	2k	43	SER	2.6
44	2m	68	GLY	2.6
33	2b	223	ILE	2.6
39	2h	92	ARG	2.6
40	2i	103	THR	2.6

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Mol	Chain	Res	Type	RSRZ
33	2b	120	ALA	2.6
54	1y	23	A	2.6
40	2i	33	PHE	2.6
28	26	28	ARG	2.6
34	2c	172	ARG	2.6
54	1w	29	G	2.6
27	25	29	THR	2.6
41	1j	96	ILE	2.6
7	2H	73	ALA	2.6
14	2S	34	HIS	2.6
25	23	51	ALA	2.6
1	1A	2164	C	2.6
40	1i	112	LYS	2.6
6	2G	28	VAL	2.6
16	2U	8	VAL	2.6
20	2Y	13	VAL	2.6
46	2o	60	VAL	2.6
48	2q	11	VAL	2.6
54	2w	42	C	2.6
23	21	46	LEU	2.6
34	1c	206	GLU	2.6
11	2P	28	GLY	2.6
34	1c	41	GLY	2.6
51	1t	8	ARG	2.6
53	2v	14	A	2.6
9	2N	84	LYS	2.5
51	2t	63	ILE	2.5
16	2U	35	ALA	2.5
1	2A	2100	G	2.5
1	2A	2182	G	2.5
11	2P	125	VAL	2.5
34	1c	101	LEU	2.5
41	1j	8	LEU	2.5
45	1n	56	VAL	2.5
50	2s	41	VAL	2.5
1	2A	2139	C	2.5
46	2o	68	ARG	2.5
9	2N	47	ALA	2.5
42	2k	31	THR	2.5
42	2k	68	ALA	2.5
54	2w	7	A	2.5
32	1a	841	U	2.5

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Mol	Chain	Res	Type	RSRZ
7	2H	100	GLY	2.5
17	2V	5	VAL	2.5
23	21	62	VAL	2.5
3	2D	217	ARG	2.5
51	2t	8	ARG	2.5
54	1y	15	G	2.5
55	2x	70	G	2.5
1	1A	2142	C	2.5
28	26	2	ALA	2.5
42	2k	29	ILE	2.5
50	2s	12	ASP	2.5
50	2s	49	ILE	2.5
11	2P	76	LYS	2.5
25	23	15	TYR	2.5
34	1c	33	LEU	2.5
34	2c	101	LEU	2.5
40	2i	120	ARG	2.5
17	2V	75	PHE	2.5
54	1y	24	G	2.5
54	2w	24	G	2.5
54	2y	62	C	2.5
6	2G	114	ILE	2.5
8	2I	35	LEU	2.5
27	25	58	LEU	2.5
34	1c	207	VAL	2.5
34	2c	66	VAL	2.5
54	1y	14	A	2.5
16	2U	2	PRO	2.5
16	2U	113	ALA	2.5
35	2d	49	ARG	2.5
38	2g	7	ALA	2.5
42	1k	89	ALA	2.5
43	2l	15	ARG	2.5
47	1p	7	ALA	2.5
51	2t	25	ARG	2.5
54	2y	71	G	2.5
41	1j	65	LEU	2.5
25	23	24	LYS	2.5
38	1g	32	ARG	2.5
40	2i	107	ARG	2.5
52	2u	15	ARG	2.5
22	20	42	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
34	2c	15	THR	2.5
7	2H	37	VAL	2.5
32	2a	1066	C	2.5
38	1g	87	VAL	2.5
39	2h	137	VAL	2.5
40	2i	17	VAL	2.5
49	1r	22	VAL	2.5
17	2V	81	TYR	2.5
34	2c	203	PHE	2.5
51	1t	9	ASN	2.5
41	2j	17	ASP	2.5
16	2U	89	GLU	2.5
41	2j	91	PRO	2.5
20	2Y	48	ALA	2.5
41	2j	68	HIS	2.5
12	2Q	79	LEU	2.5
51	1t	13	LEU	2.5
45	2n	27	CYS	2.5
11	2P	18	ARG	2.5
33	2b	111	ARG	2.5
40	2i	66	ARG	2.5
51	2t	22	ARG	2.5
1	1A	2152	G	2.5
1	2A	2157	G	2.5
32	1a	1034	G	2.5
41	2j	15	THR	2.4
42	1k	57	THR	2.4
1	1A	2117	A	2.4
9	2N	103	VAL	2.4
11	2P	83	VAL	2.4
31	29	19	ARG	2.4
33	2b	144	ARG	2.4
20	2Y	29	GLU	2.4
44	2m	82	MET	2.4
36	2e	85	GLY	2.4
54	2y	61	C	2.4
11	2P	122	PRO	2.4
32	2a	204	U	2.4
40	2i	61	ALA	2.4
42	2k	87	THR	2.4
50	2s	75	ALA	2.4
6	2G	19	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
9	2N	87	LEU	2.4
15	2T	102	ILE	2.4
23	21	37	ILE	2.4
39	1h	133	LEU	2.4
49	1r	76	LEU	2.4
49	2r	85	LEU	2.4
28	26	42	TRP	2.4
41	2j	61	GLU	2.4
14	2S	57	LYS	2.4
39	2h	90	GLY	2.4
11	2P	30	THR	2.4
16	2U	46	ALA	2.4
32	2a	1219	U	2.4
35	1d	158	ILE	2.4
47	1p	6	LEU	2.4
48	2q	65	ILE	2.4
3	2D	18	VAL	2.4
8	2I	37	VAL	2.4
35	1d	110	PHE	2.4
41	2j	52	GLY	2.4
53	1v	23	A	2.4
54	2y	64	A	2.4
42	1k	98	LEU	2.4
50	2s	71	LEU	2.4
1	2A	885	C	2.4
16	2U	17	ILE	2.4
9	2N	51	PHE	2.4
26	24	42	PHE	2.4
40	2i	8	GLY	2.4
1	1A	1176	G	2.4
30	28	64	TYR	2.4
32	2a	80	G	2.4
54	1w	15	G	2.4
7	2H	175	LYS	2.4
11	1P	107	LYS	2.4
41	2j	83	GLU	2.4
15	2T	48	ILE	2.4
23	21	13	ILE	2.4
37	2f	52	ILE	2.4
54	2w	58	A	2.4
1	1A	1026	U	2.4
34	2c	167	TRP	2.4

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Mol	Chain	Res	Type	RSRZ
34	2c	171	GLY	2.4
42	1k	88	GLY	2.4
25	23	48	GLU	2.4
38	2g	112	PRO	2.4
3	1D	37	LEU	2.4
11	2P	32	THR	2.4
11	2P	115	LEU	2.4
22	20	62	LEU	2.4
33	1b	188	ALA	2.4
34	2c	196	LEU	2.4
54	1y	19	G	2.4
11	2P	95	VAL	2.4
37	2f	6	VAL	2.4
40	2i	37	PHE	2.4
47	1p	21	VAL	2.4
48	1q	27	PHE	2.4
1	2A	2117	A	2.4
32	2a	965	A	2.4
40	1i	121	ARG	2.4
53	1v	24	A	2.4
1	1A	2178	C	2.4
1	2A	2143	C	2.4
25	13	60	GLU	2.4
54	1y	48	C	2.4
14	2S	7	TYR	2.4
45	2n	21	TYR	2.4
4	1E	195	LEU	2.4
18	2W	13	SER	2.4
25	23	8	LEU	2.4
17	2V	42	GLY	2.4
12	2Q	18	LYS	2.4
31	29	15	LYS	2.4
33	2b	162	ILE	2.4
6	2G	48	GLU	2.4
9	1N	140	VAL	2.4
11	2P	15	ARG	2.4
50	2s	36	ARG	2.4
1	1A	1175	U	2.3
1	1A	2144	U	2.3
1	2A	2189	U	2.3
12	2Q	1	MET	2.3
50	2s	83	HIS	2.3

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Mol	Chain	Res	Type	RSRZ
8	2I	44	LEU	2.3
14	2S	32	LEU	2.3
33	2b	51	LEU	2.3
33	2b	123	ALA	2.3
45	2n	60	SER	2.3
33	2b	129	GLU	2.3
34	1c	8	ILE	2.3
34	2c	143	GLU	2.3
38	2g	6	ARG	2.3
46	1o	88	ARG	2.3
48	2q	90	ILE	2.3
52	1u	15	ARG	2.3
7	2H	52	VAL	2.3
32	1a	1026	G	2.3
16	2U	47	TYR	2.3
25	23	10	LYS	2.3
32	2a	961	U	2.3
1	2A	2138	C	2.3
6	2G	78	SER	2.3
20	2Y	31	LEU	2.3
35	1d	120	LEU	2.3
50	2s	15	LEU	2.3
7	2H	48	GLY	2.3
9	2N	43	THR	2.3
26	24	52	THR	2.3
38	2g	24	THR	2.3
22	20	44	ARG	2.3
23	11	26	ARG	2.3
34	1c	57	ILE	2.3
40	2i	77	ILE	2.3
48	1q	36	ILE	2.3
3	2D	229	VAL	2.3
22	20	79	VAL	2.3
33	2b	17	PHE	2.3
38	1g	86	GLN	2.3
45	1n	61	TRP	2.3
3	2D	276	LYS	2.3
33	1b	133	LYS	2.3
6	2G	146	TYR	2.3
7	2H	47	GLU	2.3
35	1d	167	GLY	2.3
51	1t	12	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
31	29	26	ILE	2.3
54	1w	11	C	2.3
54	2w	35	A	2.3
3	2D	275	LYS	2.3
7	2H	125	VAL	2.3
27	15	60	VAL	2.3
36	2e	105	VAL	2.3
7	2H	116	GLU	2.3
22	20	71	ASP	2.3
16	2U	20	LEU	2.3
44	2m	71	ARG	2.3
49	2r	66	LEU	2.3
32	2a	1308	U	2.3
54	2y	57	G	2.3
4	2E	134	ILE	2.3
6	2G	140	ILE	2.3
34	1c	202	ILE	2.3
32	2a	1030(D)	A	2.3
41	2j	70	ARG	2.3
6	2G	11	TYR	2.3
4	2E	116	VAL	2.3
33	1b	129	GLU	2.3
38	2g	8	GLU	2.3
50	2s	51	VAL	2.3
54	1y	44	G	2.3
1	2A	884	C	2.3
36	2e	22	GLY	2.3
40	1i	113	LYS	2.3
47	1p	27	LYS	2.3
34	2c	111	LEU	2.3
12	2Q	121	ALA	2.3
30	28	10	ALA	2.3
31	29	24	TYR	2.3
34	2c	146	ALA	2.3
42	2k	97	ALA	2.3
44	2m	109	THR	2.3
22	20	68	GLU	2.3
44	2m	67	GLU	2.3
44	2m	73	GLU	2.3
1	1A	1963	U	2.3
33	2b	39	ILE	2.3
34	2c	54	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
49	2r	26	LEU	2.3
1	2A	2108	C	2.3
32	2a	1226	C	2.3
7	2H	32	GLU	2.3
20	2Y	50	ARG	2.3
23	21	21	ARG	2.3
33	2b	209	ARG	2.3
10	2O	19	ILE	2.3
45	2n	9	LYS	2.3
41	1j	10	GLY	2.2
11	2P	1	MET	2.2
28	26	11	LEU	2.2
45	2n	54	PRO	2.2
34	2c	168	ALA	2.2
49	1r	73	ALA	2.2
48	2q	38	ARG	2.2
34	2c	197	GLY	2.2
43	2l	65	GLU	2.2
3	2D	182	LEU	2.2
9	2N	18	ALA	2.2
40	1i	78	LYS	2.2
11	2P	102	ARG	2.2
20	2Y	83	THR	2.2
42	1k	96	ARG	2.2
34	1c	184	TYR	2.2
1	1A	2143	C	2.2
54	1y	1	G	2.2
54	2w	18	G	2.2
7	2H	18	GLU	2.2
11	2P	100	LEU	2.2
30	28	63	PRO	2.2
32	1a	1030(D)	A	2.2
32	2a	1016	A	2.2
40	2i	78	LYS	2.2
51	2t	29	LYS	2.2
39	2h	84	ARG	2.2
40	2i	42	ARG	2.2
52	2u	22	ARG	2.2
36	1e	134	ALA	2.2
33	2b	220	ASP	2.2
12	2Q	86	GLY	2.2
33	2b	55	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
34	2c	105	GLU	2.2
12	2Q	94	VAL	2.2
38	2g	27	ILE	2.2
34	2c	181	ASN	2.2
48	2q	99	SER	2.2
54	2w	68	C	2.2
1	2A	2148	G	2.2
11	1P	105	LEU	2.2
16	2U	39	LEU	2.2
40	1i	120	ARG	2.2
54	2w	34	G	2.2
29	27	45	ALA	2.2
34	2c	67	THR	2.2
54	1y	38	A	2.2
16	1U	117	GLN	2.2
46	1o	89	GLY	2.2
14	2S	11	LYS	2.2
16	2U	32	PHE	2.2
17	2V	47	VAL	2.2
25	23	9	VAL	2.2
36	2e	13	ILE	2.2
40	2i	65	VAL	2.2
31	29	22	ARG	2.2
35	1d	3	ARG	2.2
34	1c	91	LEU	2.2
54	2w	67	C	2.2
42	2k	42	TRP	2.2
33	1b	207	ALA	2.2
1	2A	614(A)	U	2.2
3	2D	110	GLY	2.2
39	2h	120	THR	2.2
43	2l	16	GLU	2.2
44	1m	105	THR	2.2
54	2y	51	U	2.2
1	2A	2173	A	2.2
33	1b	163	PHE	2.2
43	2l	32	PHE	2.2
3	2D	51	VAL	2.2
9	2N	140	VAL	2.2
34	2c	20	SER	2.2
41	2j	38	ILE	2.2
11	2P	88	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
30	18	60	LEU	2.2
34	1c	47	LEU	2.2
40	2i	49	PRO	2.2
1	2A	888	C	2.2
1	2A	2140	C	2.2
54	2y	25	C	2.2
23	21	60	PHE	2.2
38	1g	6	ARG	2.2
21	2Z	57	ILE	2.2
42	2k	108	ILE	2.2
32	2a	1041	A	2.2
7	2H	98	LEU	2.2
11	2P	149	GLU	2.2
17	2V	35	LEU	2.2
33	2b	8	LYS	2.2
25	23	25	ALA	2.2
34	1c	100	ALA	2.2
34	2c	158	GLY	2.2
44	2m	72	ALA	2.2
16	2U	106	PHE	2.2
32	2a	91	C	2.2
54	2y	72	C	2.2
10	2O	7	TYR	2.1
14	2S	92	TYR	2.1
20	2Y	35	TYR	2.1
20	2Y	47	LYS	2.1
44	1m	87	TYR	2.1
6	2G	35	GLU	2.1
6	2G	38	VAL	2.1
14	2S	18	ILE	2.1
20	2Y	75	ILE	2.1
34	2c	28	GLN	2.1
7	2H	117	PRO	2.1
48	2q	53	LEU	2.1
32	2a	1031	G	2.1
54	2y	19	G	2.1
1	1A	229	A	2.1
7	2H	97	ARG	2.1
10	2O	65	THR	2.1
39	2h	24	THR	2.1
17	2V	76	LYS	2.1
30	28	21	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
34	2c	45	LYS	2.1
4	2E	51	PHE	2.1
1	2A	2896	C	2.1
15	2T	52	ILE	2.1
38	2g	75	VAL	2.1
40	2i	74	ILE	2.1
8	2I	47	LEU	2.1
22	20	75	LEU	2.1
33	2b	102	LEU	2.1
45	1n	49	HIS	2.1
25	23	30	ARG	2.1
34	1c	126	ARG	2.1
34	1c	190	ARG	2.1
41	2j	29	ARG	2.1
11	2P	39	LYS	2.1
29	27	22	MET	2.1
31	29	13	LYS	2.1
34	2c	150	LYS	2.1
38	2g	73	MET	2.1
7	2H	159	GLU	2.1
32	1a	162	A	2.1
32	1a	1035	A	2.1
42	2k	57	THR	2.1
9	2N	8	GLN	2.1
8	1I	3	VAL	2.1
35	2d	198	VAL	2.1
39	2h	35	ILE	2.1
41	2j	75	ILE	2.1
34	1c	56	ASP	2.1
24	12	69	ARG	2.1
32	1a	204	U	2.1
32	2a	1000	U	2.1
32	2a	1214	C	2.1
33	2b	40	HIS	2.1
42	1k	63	LEU	2.1
42	1k	81	ASP	2.1
50	2s	69	HIS	2.1
1	2A	958	U	2.1
51	2t	30	LYS	2.1
36	2e	138	ALA	2.1
34	2c	22	TRP	2.1
22	20	12	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
1	1A	2135	A	2.1
1	2A	614(B)	G	2.1
7	2H	31	GLY	2.1
11	2P	123	LEU	2.1
18	2W	17	VAL	2.1
25	23	18	ASP	2.1
33	2b	197	VAL	2.1
35	1d	112	VAL	2.1
39	1h	38	ILE	2.1
52	2u	21	TYR	2.1
17	2V	50	PRO	2.1
45	2n	14	PRO	2.1
32	2a	962	C	2.1
34	1c	19	GLU	2.1
43	2l	26	ALA	2.1
9	2N	13	TRP	2.1
10	2O	1	MET	2.1
5	2F	83	PHE	2.1
22	20	69	PHE	2.1
42	1k	125	PHE	2.1
7	2H	25	LYS	2.1
43	2l	28	LYS	2.1
6	2G	134	GLY	2.1
8	1I	19	VAL	2.1
8	2I	38	LEU	2.1
34	2c	47	LEU	2.1
39	1h	2	LEU	2.1
41	1j	85	LEU	2.1
48	2q	33	GLY	2.1
50	2s	45	VAL	2.1
1	2A	6	A	2.1
1	2A	2141	G	2.1
23	2l	71	TYR	2.1
32	2a	1236	A	2.1
5	2F	80	ALA	2.1
42	2k	13	GLN	2.1
32	2a	723	U	2.1
32	2a	979	C	2.1
9	2N	114	ARG	2.1
12	2Q	5	ARG	2.1
19	2X	60	ARG	2.1
36	2e	84	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
50	2s	4	SER	2.1
9	2N	80	GLY	2.1
11	2P	20	GLY	2.1
40	2i	54	ASP	2.1
12	2Q	17	LEU	2.1
17	2V	79	VAL	2.1
30	28	7	HIS	2.1
33	2b	200	ILE	2.1
34	1c	198	VAL	2.1
34	2c	207	VAL	2.1
38	2g	22	LEU	2.1
39	1h	112	LEU	2.1
1	1A	2181	G	2.1
1	2A	2131	G	2.1
9	2N	118	LYS	2.1
45	1n	11	LYS	2.1
38	1g	155	ARG	2.1
41	2j	92	THR	2.1
8	2I	20	ASP	2.1
22	20	57	PHE	2.1
45	1n	37	PHE	2.1
48	2q	27	PHE	2.1
25	23	27	GLY	2.1
32	2a	1028	C	2.1
34	2c	148	GLY	2.1
45	2n	51	GLY	2.1
54	1w	13	C	2.1
11	2P	112	LEU	2.1
40	2i	99	LEU	2.1
34	2c	48	TYR	2.1
38	1g	151	TYR	2.1
42	2k	70	LYS	2.1
42	2k	117	ASN	2.1
44	2m	91	ARG	2.1
51	2t	80	ARG	2.1
41	1j	48	THR	2.1
32	1a	1003	G	2.0
54	1y	59	U	2.0
55	1x	70	G	2.0
20	2Y	63	LYS	2.0
30	28	61	LEU	2.0
32	2a	1019	C	2.0

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Mol	Chain	Res	Type	RSRZ
38	1g	16	LEU	2.0
9	2N	108	PRO	2.0
39	2h	65	TYR	2.0
19	2X	68	ARG	2.0
25	23	3	ARG	2.0
36	1e	48	ALA	2.0
41	1j	45	ARG	2.0
42	2k	96	ARG	2.0
45	1n	20	ALA	2.0
52	1u	6	ARG	2.0
11	2P	144	GLU	2.0
38	2g	113	GLU	2.0
4	2E	6	GLY	2.0
41	2j	19	SER	2.0
28	26	8	LYS	2.0
30	28	47	LYS	2.0
44	2m	64	TRP	2.0
32	2a	1020	U	2.0
41	2j	21	GLN	2.0
46	2o	62	GLN	2.0
32	1a	160	A	2.0
7	2H	151	ILE	2.0
32	1a	1033	G	2.0
34	2c	138	VAL	2.0
34	1c	182	ILE	2.0
42	1k	95	ILE	2.0
43	1l	7	ILE	2.0
51	2t	23	ARG	2.0
52	2u	13	ILE	2.0
1	1A	2136	C	2.0
5	2F	56	GLU	2.0
30	18	65	GLU	2.0
42	2k	59	TYR	2.0
54	2y	13	C	2.0
34	2c	180	ALA	2.0
33	2b	67	THR	2.0
43	1l	14	GLY	2.0
15	2T	22	PHE	2.0
25	23	2	PRO	2.0
36	2e	33	VAL	2.0
41	1j	66	ARG	2.0
42	1k	29	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
43	1l	16	GLU	2.0
54	1y	45	U	2.0
3	1D	38	LYS	2.0
1	2A	1170	G	2.0
11	1P	110	TYR	2.0
12	2Q	114	ALA	2.0
40	1i	114	TYR	2.0
23	2l	22	GLY	2.0
40	2i	30	GLY	2.0
34	2c	191	THR	2.0
16	2U	40	PHE	2.0
31	29	1	MET	2.0
3	2D	37	LEU	2.0
7	2H	71	LEU	2.0
11	2P	50	ARG	2.0
11	2P	138	LEU	2.0
34	1c	179	ARG	2.0
34	2c	44	GLU	2.0
41	2j	51	ARG	2.0
44	2m	96	LEU	2.0
49	2r	87	ARG	2.0
42	1k	14	VAL	2.0
45	1n	50	LYS	2.0
51	1t	14	LYS	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
54	PSU	2y	55	20/21	0.69	0.47	90,96,107,107	0
54	PSU	2w	55	20/21	0.74	0.30	81,91,96,98	0
54	4SU	2w	8	20/21	0.74	0.21	83,93,104,117	0
54	7MG	2y	46	24/25	0.76	0.31	86,95,102,123	0
54	PSU	1y	55	20/21	0.76	0.26	80,89,98,103	0
54	7MG	1w	46	24/25	0.79	0.17	77,89,99,107	0
54	7MG	2w	46	24/25	0.79	0.23	80,93,101,121	0
54	5MU	2y	54	21/22	0.80	0.39	84,91,99,112	0
54	5MU	1y	54	21/22	0.82	0.30	79,85,91,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
54	4SU	1y	8	20/21	0.83	0.21	81,89,98,99	0
54	MIA	2y	37	22/30	0.83	0.26	75,87,99,109	0
54	PSU	2y	32	20/21	0.84	0.25	79,85,93,102	0
54	7MG	1y	46	24/25	0.85	0.32	79,90,98,101	0
54	PSU	2y	39	20/21	0.85	0.26	79,84,92,96	0
54	4SU	1w	8	20/21	0.86	0.17	80,85,93,94	0
54	4SU	2y	8	20/21	0.86	0.21	88,93,99,104	0
54	PSU	1y	32	20/21	0.86	0.29	78,82,87,88	0
55	4SU	2x	8	20/21	0.86	0.17	73,79,87,90	0
54	PSU	2w	39	20/21	0.87	0.42	81,86,88,92	0
54	MIA	2w	37	25/30	0.87	0.27	75,82,88,103	0
32	M2G	2a	966	25/26	0.87	0.24	60,69,84,86	0
54	PSU	2w	32	20/21	0.88	0.43	78,85,93,97	0
43	0TD	2l	92	10/11	0.89	0.21	67,71,72,79	0
1	5MU	2A	1915	21/22	0.89	0.17	74,78,84,94	0
32	2MG	2a	1207	24/25	0.89	0.15	63,83,92,95	0
54	PSU	1w	55	20/21	0.89	0.17	74,83,92,95	0
54	PSU	1w	32	20/21	0.90	0.26	65,76,82,84	0
54	MIA	1y	37	22/30	0.91	0.26	74,78,84,85	0
54	5MU	2w	54	21/22	0.91	0.21	67,82,87,93	0
32	PSU	2a	516	20/21	0.91	0.15	70,77,83,85	0
43	0TD	1l	92	10/11	0.91	0.19	47,55,60,75	0
55	5MU	2x	54	21/22	0.91	0.21	68,77,82,94	0
55	PSU	2x	55	20/21	0.91	0.17	72,80,82,85	0
54	MIA	1w	37	29/30	0.92	0.22	56,65,72,74	0
1	PSU	2A	1917	20/21	0.92	0.16	62,71,81,87	0
32	5MC	2a	967	21/22	0.92	0.18	61,70,78,82	0
1	PSU	2A	1911	20/21	0.92	0.17	60,66,73,75	0
54	PSU	1w	39	20/21	0.93	0.25	67,74,85,85	0
54	PSU	1y	39	20/21	0.93	0.21	74,76,80,80	0
1	4OC	2A	1920	21/23	0.94	0.20	61,65,67,71	0
32	5MC	2a	1404	21/22	0.94	0.19	56,60,65,68	0
32	5MC	1a	967	21/22	0.94	0.21	52,59,63,64	0
55	5MC	2x	32	21/22	0.94	0.20	60,73,78,82	0
1	5MU	1A	1915	21/22	0.94	0.17	56,61,68,71	0
54	5MU	1w	54	21/22	0.94	0.17	64,72,79,82	0
32	PSU	1a	516	20/21	0.95	0.12	60,66,71,71	0
32	5MC	2a	1400	21/22	0.95	0.17	60,69,76,83	0
1	PSU	1A	1917	20/21	0.95	0.19	48,57,62,63	0
55	4SU	1x	8	20/21	0.95	0.17	51,59,65,71	0
32	4OC	2a	1402	22/23	0.95	0.16	53,65,69,70	0
32	2MG	1a	1207	24/25	0.95	0.14	59,67,73,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	5MU	1x	54	21/22	0.95	0.15	51,64,70,76	0
32	5MC	2a	1407	21/22	0.95	0.17	53,59,63,64	0
55	PSU	1x	55	20/21	0.95	0.18	49,63,70,73	0
32	UR3	2a	1498	21/22	0.95	0.20	55,61,65,66	0
32	7MG	2a	527	24/25	0.96	0.15	63,66,72,76	0
32	MA6	2a	1518	24/25	0.96	0.24	55,65,68,71	0
55	5MC	1x	32	21/22	0.96	0.23	46,54,60,74	0
32	MA6	2a	1519	24/25	0.96	0.28	52,63,67,69	0
1	5MC	2A	1942	21/22	0.96	0.18	54,60,66,68	0
1	2MA	2A	2503	23/24	0.96	0.23	32,36,43,45	0
32	7MG	1a	527	24/25	0.96	0.19	42,49,57,58	0
1	4OC	1A	1920	21/23	0.96	0.22	37,44,48,53	0
1	5MU	2A	1939	21/22	0.97	0.23	36,44,49,51	0
32	M2G	1a	966	25/26	0.97	0.19	49,55,59,66	0
1	PSU	1A	1911	20/21	0.97	0.20	40,49,57,57	0
1	5MC	2A	1962	21/22	0.97	0.17	40,52,59,68	0
1	OMG	2A	2251	24/25	0.97	0.24	42,45,51,56	0
32	5MC	1a	1400	21/22	0.97	0.20	39,50,54,59	0
1	5MC	1A	1942	21/22	0.97	0.20	31,40,43,49	0
1	2MU	2A	2552	21/23	0.97	0.23	35,42,46,62	0
32	4OC	1a	1402	22/23	0.97	0.21	37,45,51,57	0
32	5MC	1a	1407	21/22	0.97	0.22	36,41,43,45	0
32	MA6	1a	1519	24/25	0.97	0.21	38,42,47,50	0
1	2MA	1A	2503	23/24	0.98	0.22	14,21,24,31	0
1	2MU	1A	2552	21/23	0.98	0.20	21,29,33,39	0
32	UR3	1a	1498	21/22	0.98	0.21	39,43,46,48	0
1	PSU	1A	2605	20/21	0.98	0.21	19,26,35,35	0
1	PSU	2A	2605	20/21	0.98	0.18	34,42,47,47	0
32	MA6	1a	1518	24/25	0.98	0.23	34,41,45,49	0
1	5MU	1A	1939	21/22	0.98	0.21	23,29,33,40	0
32	5MC	1a	1404	21/22	0.98	0.19	35,41,44,44	0
1	5MC	1A	1962	21/22	0.98	0.21	29,36,41,44	0
1	OMG	1A	2251	24/25	0.98	0.22	19,25,28,29	0

6.3 Carbohydrates

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	2A	3819	1/1	0.09	0.29	69,69,69,69	0
56	MG	1A	3982	1/1	0.14	0.30	77,77,77,77	0
56	MG	2a	3173	1/1	0.20	0.21	70,70,70,70	0
56	MG	2a	3136	1/1	0.28	0.30	78,78,78,78	0
56	MG	1a	1807	1/1	0.33	0.12	66,66,66,66	0
56	MG	1A	4000	1/1	0.33	0.17	62,62,62,62	0
56	MG	1A	4043	1/1	0.34	0.34	66,66,66,66	0
56	MG	2A	3817	1/1	0.40	0.29	75,75,75,75	0
56	MG	1A	3979	1/1	0.40	0.23	69,69,69,69	0
56	MG	1A	4061	1/1	0.41	0.14	68,68,68,68	0
56	MG	1a	1790	1/1	0.42	0.12	74,74,74,74	0
56	MG	1a	1784	1/1	0.43	0.21	56,56,56,56	0
56	MG	1A	3801	1/1	0.44	0.13	53,53,53,53	0
56	MG	1A	3924	1/1	0.46	0.14	71,71,71,71	0
56	MG	2A	3828	1/1	0.46	0.10	59,59,59,59	0
56	MG	2A	3864	1/1	0.47	0.12	69,69,69,69	0
56	MG	2a	3070	1/1	0.48	0.25	68,68,68,68	0
56	MG	2A	3855	1/1	0.48	0.20	74,74,74,74	0
56	MG	1a	1793	1/1	0.48	0.11	78,78,78,78	0
56	MG	1A	3771	1/1	0.49	0.17	19,19,19,19	0
56	MG	1a	1655	1/1	0.49	0.19	76,76,76,76	0
56	MG	1A	4067	1/1	0.50	0.14	55,55,55,55	0
56	MG	2A	3040	1/1	0.50	0.57	88,88,88,88	0
56	MG	2a	3101	1/1	0.52	0.16	68,68,68,68	0
56	MG	2A	3532	1/1	0.53	0.14	61,61,61,61	0
56	MG	2A	3285	1/1	0.53	0.23	62,62,62,62	0
56	MG	2a	3167	1/1	0.54	0.07	75,75,75,75	0
56	MG	1A	3980	1/1	0.54	0.11	62,62,62,62	0
56	MG	1a	1731	1/1	0.56	0.21	69,69,69,69	0
56	MG	2A	3830	1/1	0.56	0.17	77,77,77,77	0
56	MG	2A	3650	1/1	0.56	0.21	67,67,67,67	0
56	MG	2a	3178	1/1	0.56	0.38	91,91,91,91	0
56	MG	2a	3149	1/1	0.57	0.07	76,76,76,76	0
56	MG	1a	1812	1/1	0.57	0.13	62,62,62,62	0
56	MG	1A	4056	1/1	0.58	0.14	45,45,45,45	0
56	MG	2A	3640	1/1	0.58	0.18	64,64,64,64	0
56	MG	2a	3188	1/1	0.58	0.14	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	3196	1/1	0.58	0.12	76,76,76,76	0
56	MG	2a	3176	1/1	0.59	0.12	72,72,72,72	0
56	MG	1A	3985	1/1	0.59	0.17	61,61,61,61	0
56	MG	2a	3182	1/1	0.59	0.07	83,83,83,83	0
56	MG	1A	3332	1/1	0.59	0.20	57,57,57,57	0
56	MG	1A	4083	1/1	0.59	0.17	51,51,51,51	0
56	MG	2a	3199	1/1	0.59	0.12	70,70,70,70	0
56	MG	1A	3998	1/1	0.60	0.25	67,67,67,67	0
56	MG	1a	1714	1/1	0.60	0.22	62,62,62,62	0
56	MG	2a	3142	1/1	0.60	0.08	68,68,68,68	0
56	MG	2a	3031	1/1	0.61	0.60	69,69,69,69	0
56	MG	1a	1766	1/1	0.61	0.13	61,61,61,61	0
56	MG	1A	3661	1/1	0.62	0.18	29,29,29,29	0
56	MG	2D	308	1/1	0.62	0.12	39,39,39,39	0
56	MG	1a	1824	1/1	0.62	0.10	60,60,60,60	0
56	MG	1a	1789	1/1	0.62	0.20	77,77,77,77	0
56	MG	1A	3784	1/1	0.62	0.09	66,66,66,66	0
56	MG	1A	4032	1/1	0.62	0.36	57,57,57,57	0
56	MG	2A	3844	1/1	0.62	0.18	72,72,72,72	0
56	MG	1A	3996	1/1	0.62	0.16	51,51,51,51	0
56	MG	1A	3844	1/1	0.64	0.12	57,57,57,57	0
56	MG	2A	3779	1/1	0.64	0.11	71,71,71,71	0
56	MG	2A	3321	1/1	0.64	0.32	65,65,65,65	0
56	MG	1a	1800	1/1	0.64	0.09	50,50,50,50	0
56	MG	2A	3570	1/1	0.64	0.11	48,48,48,48	0
56	MG	1A	4081	1/1	0.64	0.10	44,44,44,44	0
56	MG	1A	3697	1/1	0.65	0.21	38,38,38,38	0
56	MG	1A	4049	1/1	0.65	0.18	54,54,54,54	0
56	MG	2A	3029	1/1	0.65	0.19	62,62,62,62	0
56	MG	1A	4052	1/1	0.65	0.23	48,48,48,48	0
56	MG	2A	3734	1/1	0.65	0.16	52,52,52,52	0
56	MG	2a	3193	1/1	0.65	0.16	82,82,82,82	0
56	MG	1a	1803	1/1	0.65	0.09	61,61,61,61	0
56	MG	1A	4068	1/1	0.65	0.18	61,61,61,61	0
56	MG	2A	3859	1/1	0.66	0.14	60,60,60,60	0
56	MG	2A	3048	1/1	0.66	0.19	65,65,65,65	0
56	MG	2A	3618	1/1	0.66	0.10	49,49,49,49	0
56	MG	2a	3120	1/1	0.66	0.20	66,66,66,66	0
56	MG	2w	102	1/1	0.66	0.16	72,72,72,72	0
56	MG	2A	3833	1/1	0.67	0.10	53,53,53,53	0
56	MG	2a	3180	1/1	0.67	0.10	71,71,71,71	0
56	MG	1a	1660	1/1	0.68	0.14	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1753	1/1	0.68	0.18	53,53,53,53	0
56	MG	1A	3292	1/1	0.68	0.15	57,57,57,57	0
56	MG	2A	3214	1/1	0.68	0.14	62,62,62,62	0
56	MG	2A	3798	1/1	0.68	0.10	51,51,51,51	0
56	MG	2A	3848	1/1	0.68	0.09	74,74,74,74	0
56	MG	2A	3247	1/1	0.68	0.35	70,70,70,70	0
56	MG	1A	3411	1/1	0.69	0.52	57,57,57,57	0
56	MG	2a	3015	1/1	0.69	0.18	69,69,69,69	0
56	MG	1A	3512	1/1	0.69	0.26	60,60,60,60	0
56	MG	2a	3052	1/1	0.69	0.16	56,56,56,56	0
56	MG	1A	4033	1/1	0.69	0.16	55,55,55,55	0
56	MG	2A	3780	1/1	0.69	0.09	69,69,69,69	0
56	MG	1e	201	1/1	0.69	0.17	73,73,73,73	0
56	MG	2A	3812	1/1	0.69	0.42	76,76,76,76	0
56	MG	2A	3637	1/1	0.69	0.18	47,47,47,47	0
56	MG	1A	3300	1/1	0.69	0.16	44,44,44,44	0
56	MG	2a	3165	1/1	0.69	0.08	78,78,78,78	0
56	MG	1A	3767	1/1	0.70	0.22	30,30,30,30	0
56	MG	1A	3928	1/1	0.70	0.22	69,69,69,69	0
56	MG	2A	3805	1/1	0.70	0.09	67,67,67,67	0
56	MG	1a	1798	1/1	0.70	0.16	76,76,76,76	0
56	MG	1A	3165	1/1	0.70	0.33	39,39,39,39	0
56	MG	1A	3605	1/1	0.70	0.22	37,37,37,37	0
56	MG	1A	3329	1/1	0.70	0.29	51,51,51,51	0
56	MG	1A	3494	1/1	0.70	0.20	56,56,56,56	0
56	MG	1A	3901	1/1	0.70	0.14	53,53,53,53	0
56	MG	2A	3467	1/1	0.71	0.19	74,74,74,74	0
56	MG	1a	1806	1/1	0.71	0.12	59,59,59,59	0
56	MG	1P	206	1/1	0.71	0.32	62,62,62,62	0
56	MG	2a	3095	1/1	0.71	0.17	79,79,79,79	0
56	MG	2A	3869	1/1	0.71	0.12	45,45,45,45	0
56	MG	1a	1772	1/1	0.71	0.21	60,60,60,60	0
56	MG	2a	3225	1/1	0.71	0.23	73,73,73,73	0
56	MG	1A	3968	1/1	0.71	0.36	43,43,43,43	0
56	MG	1A	3987	1/1	0.72	0.09	50,50,50,50	0
56	MG	2a	3170	1/1	0.72	0.18	73,73,73,73	0
56	MG	1A	4059	1/1	0.72	0.20	27,27,27,27	0
56	MG	2A	3291	1/1	0.72	0.34	57,57,57,57	0
56	MG	1A	3360	1/1	0.72	0.16	65,65,65,65	0
56	MG	1A	3342	1/1	0.72	0.21	60,60,60,60	0
56	MG	2A	3762	1/1	0.72	0.15	59,59,59,59	0
56	MG	2A	3474	1/1	0.72	0.20	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1746	1/1	0.72	0.12	59,59,59,59	0
56	MG	2A	3793	1/1	0.72	0.23	77,77,77,77	0
56	MG	2A	3543	1/1	0.72	0.13	45,45,45,45	0
56	MG	2a	3201	1/1	0.72	0.16	60,60,60,60	0
56	MG	1a	1609	1/1	0.72	0.11	65,65,65,65	0
56	MG	2v	101	1/1	0.72	0.12	78,78,78,78	0
56	MG	2A	3806	1/1	0.72	0.17	50,50,50,50	0
56	MG	1A	3742	1/1	0.73	0.24	17,17,17,17	0
56	MG	2A	3596	1/1	0.73	0.14	40,40,40,40	0
56	MG	1A	3392	1/1	0.73	0.27	45,45,45,45	0
56	MG	2A	3875	1/1	0.73	0.14	74,74,74,74	0
56	MG	1a	1818	1/1	0.73	0.16	71,71,71,71	0
56	MG	2A	3334	1/1	0.73	0.17	74,74,74,74	0
56	MG	2A	3169	1/1	0.73	0.31	57,57,57,57	0
56	MG	2a	3049	1/1	0.73	0.16	64,64,64,64	0
56	MG	2A	3711	1/1	0.73	0.18	54,54,54,54	0
56	MG	2A	3714	1/1	0.73	0.18	57,57,57,57	0
56	MG	2A	3207	1/1	0.73	0.15	64,64,64,64	0
56	MG	2A	3735	1/1	0.73	0.08	62,62,62,62	0
56	MG	2A	3838	1/1	0.73	0.17	43,43,43,43	0
56	MG	1A	3247	1/1	0.73	0.18	53,53,53,53	0
56	MG	1A	3561	1/1	0.73	0.34	62,62,62,62	0
56	MG	2A	3554	1/1	0.73	0.11	49,49,49,49	0
56	MG	2A	3405	1/1	0.74	0.20	64,64,64,64	0
56	MG	1a	1721	1/1	0.74	0.27	54,54,54,54	0
56	MG	1w	109	1/1	0.74	0.20	77,77,77,77	0
56	MG	2a	3041	1/1	0.74	0.21	66,66,66,66	0
56	MG	2A	3002	1/1	0.74	0.21	53,53,53,53	0
56	MG	2A	3804	1/1	0.74	0.17	53,53,53,53	0
56	MG	2a	3054	1/1	0.74	0.27	71,71,71,71	0
56	MG	1B	234	1/1	0.74	0.18	56,56,56,56	0
56	MG	1a	1780	1/1	0.74	0.15	58,58,58,58	0
56	MG	2A	3568	1/1	0.74	0.15	47,47,47,47	0
56	MG	2A	3860	1/1	0.74	0.16	73,73,73,73	0
56	MG	1A	3689	1/1	0.74	0.22	26,26,26,26	0
56	MG	1A	3869	1/1	0.74	0.18	45,45,45,45	0
56	MG	2a	3145	1/1	0.74	0.24	79,79,79,79	0
56	MG	2A	3820	1/1	0.74	0.12	73,73,73,73	0
56	MG	2a	3153	1/1	0.74	0.09	73,73,73,73	0
59	ZN	24	501	1/1	0.74	0.07	117,117,117,117	0
56	MG	2A	3320	1/1	0.75	0.14	54,54,54,54	0
56	MG	1B	228	1/1	0.75	0.18	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	3471	1/1	0.75	0.21	51,51,51,51	0
56	MG	2a	3003	1/1	0.75	0.14	63,63,63,63	0
56	MG	2A	3337	1/1	0.75	0.25	49,49,49,49	0
56	MG	2A	3353	1/1	0.75	0.16	71,71,71,71	0
56	MG	2A	3361	1/1	0.75	0.21	61,61,61,61	0
56	MG	2A	3382	1/1	0.75	0.52	47,47,47,47	0
56	MG	1a	1787	1/1	0.75	0.15	66,66,66,66	0
56	MG	2A	3063	1/1	0.75	0.21	58,58,58,58	0
56	MG	1A	3489	1/1	0.75	0.71	48,48,48,48	0
56	MG	2a	3082	1/1	0.75	0.11	65,65,65,65	0
56	MG	1A	3402	1/1	0.75	0.36	85,85,85,85	0
56	MG	1a	1620	1/1	0.75	0.27	55,55,55,55	0
56	MG	2A	3787	1/1	0.75	0.08	72,72,72,72	0
56	MG	1A	3341	1/1	0.75	0.21	50,50,50,50	0
56	MG	1A	3422	1/1	0.75	0.15	58,58,58,58	0
56	MG	1a	1801	1/1	0.75	0.12	64,64,64,64	0
56	MG	2a	3147	1/1	0.75	0.18	80,80,80,80	0
56	MG	2A	3740	1/1	0.76	0.07	67,67,67,67	0
56	MG	1A	4006	1/1	0.76	0.19	29,29,29,29	0
56	MG	1A	4012	1/1	0.76	0.09	68,68,68,68	0
56	MG	2A	3230	1/1	0.76	0.30	67,67,67,67	0
56	MG	2A	3476	1/1	0.76	0.15	62,62,62,62	0
56	MG	2A	3243	1/1	0.76	0.67	64,64,64,64	0
56	MG	1A	3876	1/1	0.76	0.22	34,34,34,34	0
56	MG	1A	3224	1/1	0.76	0.15	45,45,45,45	0
56	MG	1A	3923	1/1	0.76	0.17	59,59,59,59	0
56	MG	2A	3308	1/1	0.76	0.12	56,56,56,56	0
56	MG	2A	3809	1/1	0.76	0.26	60,60,60,60	0
56	MG	1A	4089	1/1	0.76	0.21	65,65,65,65	0
56	MG	1A	3404	1/1	0.76	0.33	60,60,60,60	0
56	MG	2A	3333	1/1	0.76	0.31	65,65,65,65	0
56	MG	1A	3297	1/1	0.76	0.15	50,50,50,50	0
56	MG	1O	205	1/1	0.76	0.21	72,72,72,72	0
56	MG	2A	3674	1/1	0.76	0.15	63,63,63,63	0
56	MG	2A	3352	1/1	0.76	0.23	72,72,72,72	0
56	MG	1A	3019	1/1	0.76	0.18	41,41,41,41	0
56	MG	2A	3116	1/1	0.76	0.13	60,60,60,60	0
56	MG	2x	103	1/1	0.76	0.18	60,60,60,60	0
56	MG	1A	3871	1/1	0.76	0.11	32,32,32,32	0
56	MG	2A	3399	1/1	0.77	0.20	69,69,69,69	0
56	MG	2a	3174	1/1	0.77	0.19	75,75,75,75	0
56	MG	1A	3800	1/1	0.77	0.22	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	3452	1/1	0.77	0.17	70,70,70,70	0
56	MG	2a	3096	1/1	0.77	0.10	67,67,67,67	0
56	MG	1a	1698	1/1	0.77	0.28	62,62,62,62	0
56	MG	1A	3208	1/1	0.77	0.15	61,61,61,61	0
56	MG	2G	201	1/1	0.77	0.12	65,65,65,65	0
56	MG	2T	202	1/1	0.77	0.13	61,61,61,61	0
56	MG	2A	3255	1/1	0.77	0.32	69,69,69,69	0
56	MG	2A	3493	1/1	0.77	0.25	61,61,61,61	0
56	MG	2A	3802	1/1	0.77	0.12	57,57,57,57	0
56	MG	2j	201	1/1	0.77	0.14	76,76,76,76	0
56	MG	2A	3008	1/1	0.77	0.23	60,60,60,60	0
56	MG	1a	1822	1/1	0.77	0.10	69,69,69,69	0
56	MG	1A	3983	1/1	0.77	0.17	64,64,64,64	0
56	MG	2A	3217	1/1	0.77	0.38	67,67,67,67	0
56	MG	1A	3838	1/1	0.78	0.19	60,60,60,60	0
56	MG	1A	3053	1/1	0.78	0.14	62,62,62,62	0
56	MG	1a	1747	1/1	0.78	0.11	52,52,52,52	0
56	MG	1A	3382	1/1	0.78	0.25	46,46,46,46	0
56	MG	2A	3120	1/1	0.78	0.24	62,62,62,62	0
56	MG	2A	3397	1/1	0.78	0.18	72,72,72,72	0
56	MG	2a	3066	1/1	0.78	0.11	60,60,60,60	0
56	MG	1A	3930	1/1	0.78	0.14	30,30,30,30	0
56	MG	2A	3585	1/1	0.78	0.13	77,77,77,77	0
56	MG	1a	1672	1/1	0.78	0.12	44,44,44,44	0
56	MG	2A	3599	1/1	0.78	0.20	68,68,68,68	0
56	MG	2A	3612	1/1	0.78	0.10	41,41,41,41	0
56	MG	2A	3421	1/1	0.78	0.19	69,69,69,69	0
56	MG	2A	3448	1/1	0.78	0.20	64,64,64,64	0
56	MG	1A	4035	1/1	0.78	0.06	64,64,64,64	0
56	MG	1A	4039	1/1	0.78	0.14	61,61,61,61	0
56	MG	1A	3962	1/1	0.78	0.12	48,48,48,48	0
56	MG	2A	3691	1/1	0.78	0.07	71,71,71,71	0
56	MG	2a	3151	1/1	0.78	0.15	91,91,91,91	0
56	MG	2A	3698	1/1	0.78	0.20	56,56,56,56	0
56	MG	2A	3883	1/1	0.79	0.24	68,68,68,68	0
56	MG	2A	3406	1/1	0.79	0.34	66,66,66,66	0
56	MG	1A	3338	1/1	0.79	0.20	48,48,48,48	0
56	MG	2R	201	1/1	0.79	0.16	65,65,65,65	0
56	MG	1A	4042	1/1	0.79	0.08	40,40,40,40	0
56	MG	2A	3661	1/1	0.79	0.32	59,59,59,59	0
56	MG	2a	3172	1/1	0.79	0.12	62,62,62,62	0
56	MG	2A	3071	1/1	0.79	0.14	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3684	1/1	0.79	0.12	36,36,36,36	0
56	MG	1A	3503	1/1	0.79	0.40	57,57,57,57	0
56	MG	1A	3921	1/1	0.79	0.17	41,41,41,41	0
56	MG	1a	1703	1/1	0.79	0.25	60,60,60,60	0
56	MG	1B	229	1/1	0.79	0.14	38,38,38,38	0
56	MG	1A	3065	1/1	0.79	0.17	51,51,51,51	0
56	MG	1A	3726	1/1	0.79	0.10	53,53,53,53	0
56	MG	1A	3083	1/1	0.79	0.29	37,37,37,37	0
56	MG	2A	3381	1/1	0.79	0.13	57,57,57,57	0
56	MG	1a	1604	1/1	0.79	0.14	55,55,55,55	0
56	MG	2A	3856	1/1	0.79	0.06	58,58,58,58	0
56	MG	2A	3396	1/1	0.79	0.15	63,63,63,63	0
56	MG	2A	3789	1/1	0.79	0.09	44,44,44,44	0
56	MG	1A	3103	1/1	0.79	0.16	60,60,60,60	0
56	MG	2A	3271	1/1	0.79	0.13	58,58,58,58	0
56	MG	2A	3279	1/1	0.79	0.17	62,62,62,62	0
56	MG	2A	3315	1/1	0.80	0.11	62,62,62,62	0
56	MG	1A	4034	1/1	0.80	0.07	61,61,61,61	0
56	MG	1A	3317	1/1	0.80	0.18	65,65,65,65	0
56	MG	1a	1700	1/1	0.80	0.22	68,68,68,68	0
56	MG	1A	3148	1/1	0.80	0.31	35,35,35,35	0
56	MG	2A	3086	1/1	0.80	0.18	66,66,66,66	0
56	MG	2A	3347	1/1	0.80	0.18	66,66,66,66	0
56	MG	2A	3094	1/1	0.80	0.14	62,62,62,62	0
56	MG	2A	3107	1/1	0.80	0.16	65,65,65,65	0
56	MG	1a	1711	1/1	0.80	0.19	39,39,39,39	0
56	MG	1A	4101	1/1	0.80	0.07	53,53,53,53	0
56	MG	1A	3002	1/1	0.80	0.15	51,51,51,51	0
56	MG	2A	3176	1/1	0.80	0.30	59,59,59,59	0
56	MG	1A	3004	1/1	0.80	0.21	22,22,22,22	0
56	MG	1A	4047	1/1	0.80	0.17	47,47,47,47	0
56	MG	2A	3402	1/1	0.80	0.12	65,65,65,65	0
56	MG	1a	1813	1/1	0.80	0.10	53,53,53,53	0
56	MG	1A	3933	1/1	0.80	0.10	49,49,49,49	0
56	MG	2A	3414	1/1	0.80	0.13	59,59,59,59	0
56	MG	1A	3577	1/1	0.80	0.33	47,47,47,47	0
56	MG	1A	3478	1/1	0.80	0.28	41,41,41,41	0
56	MG	1A	3639	1/1	0.80	0.18	36,36,36,36	0
56	MG	2A	3264	1/1	0.80	0.14	56,56,56,56	0
56	MG	1A	4016	1/1	0.80	0.20	25,25,25,25	0
56	MG	2W	203	1/1	0.80	0.26	51,51,51,51	0
56	MG	1x	109	1/1	0.80	0.12	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	3007	1/1	0.80	0.15	63,63,63,63	0
56	MG	2a	3014	1/1	0.80	0.16	63,63,63,63	0
56	MG	2A	3486	1/1	0.80	0.17	62,62,62,62	0
56	MG	1A	3058	1/1	0.80	0.18	32,32,32,32	0
56	MG	2A	3800	1/1	0.80	0.04	78,78,78,78	0
56	MG	1a	1656	1/1	0.80	0.11	62,62,62,62	0
56	MG	1A	3798	1/1	0.80	0.12	39,39,39,39	0
56	MG	2A	3551	1/1	0.80	0.12	43,43,43,43	0
56	MG	2a	3061	1/1	0.80	0.12	53,53,53,53	0
56	MG	1A	3537	1/1	0.81	0.17	61,61,61,61	0
56	MG	2a	3043	1/1	0.81	0.17	66,66,66,66	0
56	MG	2A	3242	1/1	0.81	0.18	64,64,64,64	0
56	MG	1A	3121	1/1	0.81	0.49	46,46,46,46	0
56	MG	2A	3808	1/1	0.81	0.24	63,63,63,63	0
56	MG	2A	3386	1/1	0.81	0.13	55,55,55,55	0
56	MG	1A	3992	1/1	0.81	0.18	25,25,25,25	0
56	MG	2A	3253	1/1	0.81	0.21	64,64,64,64	0
56	MG	2A	3818	1/1	0.81	0.15	64,64,64,64	0
56	MG	2A	3623	1/1	0.81	0.14	60,60,60,60	0
56	MG	2A	3072	1/1	0.81	0.21	61,61,61,61	0
56	MG	2a	3100	1/1	0.81	0.13	77,77,77,77	0
56	MG	2A	3821	1/1	0.81	0.21	55,55,55,55	0
56	MG	2A	3823	1/1	0.81	0.10	50,50,50,50	0
56	MG	2A	3824	1/1	0.81	0.23	66,66,66,66	0
56	MG	2A	3077	1/1	0.81	0.27	57,57,57,57	0
56	MG	2A	3085	1/1	0.81	0.25	55,55,55,55	0
56	MG	1A	3394	1/1	0.81	0.25	50,50,50,50	0
56	MG	1A	3461	1/1	0.81	0.43	61,61,61,61	0
56	MG	2A	3684	1/1	0.81	0.12	56,56,56,56	0
56	MG	2A	3417	1/1	0.81	0.24	68,68,68,68	0
56	MG	2a	3157	1/1	0.81	0.10	57,57,57,57	0
56	MG	2A	3287	1/1	0.81	0.20	67,67,67,67	0
56	MG	2A	3703	1/1	0.81	0.07	59,59,59,59	0
56	MG	1A	3922	1/1	0.81	0.10	70,70,70,70	0
56	MG	1A	4060	1/1	0.81	0.46	52,52,52,52	0
56	MG	2A	3731	1/1	0.81	0.23	60,60,60,60	0
56	MG	1w	110	1/1	0.81	0.23	74,74,74,74	0
56	MG	2A	3145	1/1	0.81	0.11	66,66,66,66	0
56	MG	2A	3155	1/1	0.81	0.12	55,55,55,55	0
56	MG	2A	3759	1/1	0.81	0.11	62,62,62,62	0
56	MG	2A	3332	1/1	0.81	0.15	46,46,46,46	0
56	MG	2Q	202	1/1	0.81	0.13	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1748	1/1	0.81	0.11	36,36,36,36	0
56	MG	2T	201	1/1	0.81	0.16	54,54,54,54	0
56	MG	2A	3494	1/1	0.81	0.09	67,67,67,67	0
56	MG	1A	4001	1/1	0.81	0.10	48,48,48,48	0
56	MG	2A	3538	1/1	0.81	0.15	38,38,38,38	0
56	MG	2f	202	1/1	0.81	0.13	65,65,65,65	0
56	MG	2a	3006	1/1	0.81	0.11	61,61,61,61	0
56	MG	1a	1760	1/1	0.81	0.15	56,56,56,56	0
56	MG	1G	203	1/1	0.81	0.10	63,63,63,63	0
56	MG	2A	3216	1/1	0.81	0.17	65,65,65,65	0
56	MG	2y	106	1/1	0.81	0.40	83,83,83,83	0
56	MG	1A	3934	1/1	0.81	0.11	55,55,55,55	0
56	MG	1A	3753	1/1	0.82	0.20	34,34,34,34	0
56	MG	1A	3765	1/1	0.82	0.18	43,43,43,43	0
56	MG	2A	3710	1/1	0.82	0.13	42,42,42,42	0
56	MG	1a	1611	1/1	0.82	0.13	68,68,68,68	0
56	MG	1A	3323	1/1	0.82	0.27	50,50,50,50	0
56	MG	1A	3497	1/1	0.82	0.22	50,50,50,50	0
56	MG	1A	3777	1/1	0.82	0.12	46,46,46,46	0
56	MG	1A	3340	1/1	0.82	0.15	50,50,50,50	0
56	MG	2A	3191	1/1	0.82	0.19	70,70,70,70	0
56	MG	2A	3750	1/1	0.82	0.14	55,55,55,55	0
56	MG	1A	3665	1/1	0.82	0.12	30,30,30,30	0
56	MG	1a	1808	1/1	0.82	0.08	50,50,50,50	0
56	MG	1a	1673	1/1	0.82	0.13	63,63,63,63	0
56	MG	1a	1693	1/1	0.82	0.15	69,69,69,69	0
56	MG	2a	3053	1/1	0.82	0.14	70,70,70,70	0
56	MG	2A	3443	1/1	0.82	0.22	59,59,59,59	0
56	MG	2a	3060	1/1	0.82	0.21	71,71,71,71	0
56	MG	2A	3447	1/1	0.82	0.23	55,55,55,55	0
56	MG	2a	3062	1/1	0.82	0.14	71,71,71,71	0
56	MG	1a	1814	1/1	0.82	0.06	67,67,67,67	0
56	MG	2A	3239	1/1	0.82	0.39	56,56,56,56	0
56	MG	2A	3799	1/1	0.82	0.14	75,75,75,75	0
56	MG	2a	3086	1/1	0.82	0.15	63,63,63,63	0
56	MG	1A	4062	1/1	0.82	0.12	32,32,32,32	0
56	MG	1A	4004	1/1	0.82	0.11	51,51,51,51	0
56	MG	1A	3477	1/1	0.82	0.23	53,53,53,53	0
56	MG	2A	3250	1/1	0.82	0.73	64,64,64,64	0
56	MG	1a	1706	1/1	0.82	0.20	59,59,59,59	0
56	MG	1A	4074	1/1	0.82	0.12	48,48,48,48	0
56	MG	2A	3516	1/1	0.82	0.23	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	2A	3522	1/1	0.82	0.09	41,41,41,41	0
56	MG	2A	3262	1/1	0.82	0.27	60,60,60,60	0
56	MG	1A	3418	1/1	0.82	0.23	55,55,55,55	0
56	MG	1A	3945	1/1	0.82	0.17	56,56,56,56	0
56	MG	2A	3546	1/1	0.82	0.17	65,65,65,65	0
56	MG	2a	3154	1/1	0.82	0.10	69,69,69,69	0
56	MG	1x	117	1/1	0.82	0.20	71,71,71,71	0
56	MG	1A	4024	1/1	0.82	0.16	70,70,70,70	0
56	MG	2a	3166	1/1	0.82	0.07	67,67,67,67	0
56	MG	1A	3948	1/1	0.82	0.19	36,36,36,36	0
56	MG	1B	207	1/1	0.82	0.25	70,70,70,70	0
56	MG	2A	3296	1/1	0.82	0.17	50,50,50,50	0
56	MG	2A	3033	1/1	0.82	0.13	36,36,36,36	0
56	MG	1B	215	1/1	0.82	0.07	55,55,55,55	0
56	MG	1A	3808	1/1	0.82	0.11	65,65,65,65	0
56	MG	2A	3614	1/1	0.82	0.15	45,45,45,45	0
56	MG	1A	3480	1/1	0.82	0.14	54,54,54,54	0
56	MG	2A	3622	1/1	0.82	0.10	38,38,38,38	0
56	MG	1A	3699	1/1	0.82	0.19	37,37,37,37	0
56	MG	1A	3703	1/1	0.82	0.18	48,48,48,48	0
56	MG	2A	3861	1/1	0.82	0.12	62,62,62,62	0
56	MG	2a	3197	1/1	0.82	0.09	73,73,73,73	0
56	MG	1A	3564	1/1	0.82	0.17	49,49,49,49	0
56	MG	1A	3336	1/1	0.82	0.16	60,60,60,60	0
56	MG	2a	3209	1/1	0.82	0.24	73,73,73,73	0
56	MG	1U	201	1/1	0.82	0.28	51,51,51,51	0
56	MG	2A	3088	1/1	0.82	0.22	78,78,78,78	0
56	MG	2A	3886	1/1	0.82	0.12	71,71,71,71	0
56	MG	2B	202	1/1	0.82	0.15	63,63,63,63	0
56	MG	2A	3676	1/1	0.82	0.14	61,61,61,61	0
56	MG	1l	104	1/1	0.82	0.12	48,48,48,48	0
56	MG	2O	8400	1/1	0.82	0.10	64,64,64,64	0
56	MG	2A	3099	1/1	0.82	0.23	68,68,68,68	0
56	MG	1A	3322	1/1	0.83	0.19	43,43,43,43	0
56	MG	2A	3323	1/1	0.83	0.14	57,57,57,57	0
56	MG	2A	3566	1/1	0.83	0.17	44,44,44,44	0
56	MG	2A	3123	1/1	0.83	0.11	59,59,59,59	0
56	MG	2A	3138	1/1	0.83	0.07	70,70,70,70	0
56	MG	1A	3706	1/1	0.83	0.24	53,53,53,53	0
56	MG	2A	3335	1/1	0.83	0.29	47,47,47,47	0
56	MG	1A	3937	1/1	0.83	0.10	60,60,60,60	0
56	MG	2a	3068	1/1	0.83	0.12	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3162	1/1	0.83	0.21	64,64,64,64	0
56	MG	1d	301	1/1	0.83	0.23	48,48,48,48	0
56	MG	2A	3171	1/1	0.83	0.12	74,74,74,74	0
56	MG	1A	3346	1/1	0.83	0.21	52,52,52,52	0
56	MG	2A	3364	1/1	0.83	0.24	66,66,66,66	0
56	MG	1s	101	1/1	0.83	0.16	71,71,71,71	0
56	MG	2A	3203	1/1	0.83	0.13	48,48,48,48	0
56	MG	1A	3498	1/1	0.83	0.25	59,59,59,59	0
56	MG	2a	3127	1/1	0.83	0.19	63,63,63,63	0
56	MG	2a	3135	1/1	0.83	0.23	59,59,59,59	0
56	MG	2A	3395	1/1	0.83	0.14	66,66,66,66	0
56	MG	2a	3140	1/1	0.83	0.10	57,57,57,57	0
56	MG	1a	1646	1/1	0.83	0.15	56,56,56,56	0
56	MG	1A	3955	1/1	0.83	0.11	65,65,65,65	0
56	MG	1a	1781	1/1	0.83	0.13	75,75,75,75	0
56	MG	1A	3845	1/1	0.83	0.32	57,57,57,57	0
56	MG	1a	1659	1/1	0.83	0.38	55,55,55,55	0
56	MG	1A	3854	1/1	0.83	0.07	60,60,60,60	0
56	MG	1A	3747	1/1	0.83	0.17	54,54,54,54	0
56	MG	2a	3156	1/1	0.83	0.06	72,72,72,72	0
56	MG	1A	3018	1/1	0.83	0.14	30,30,30,30	0
56	MG	2A	3713	1/1	0.83	0.13	48,48,48,48	0
56	MG	1a	1796	1/1	0.83	0.13	59,59,59,59	0
56	MG	2A	3251	1/1	0.83	0.15	62,62,62,62	0
56	MG	2A	3053	1/1	0.83	0.17	64,64,64,64	0
56	MG	2B	216	1/1	0.83	0.08	65,65,65,65	0
56	MG	2A	3059	1/1	0.83	0.30	58,58,58,58	0
56	MG	2F	302	1/1	0.83	0.15	64,64,64,64	0
56	MG	2a	3175	1/1	0.83	0.16	73,73,73,73	0
56	MG	1a	1797	1/1	0.83	0.07	65,65,65,65	0
56	MG	1A	4036	1/1	0.83	0.16	41,41,41,41	0
56	MG	2P	203	1/1	0.83	0.10	38,38,38,38	0
56	MG	1A	3510	1/1	0.83	0.15	41,41,41,41	0
56	MG	2A	3273	1/1	0.83	0.28	49,49,49,49	0
56	MG	2A	3480	1/1	0.83	0.37	46,46,46,46	0
56	MG	1A	3364	1/1	0.83	0.18	37,37,37,37	0
56	MG	2A	3282	1/1	0.83	0.16	63,63,63,63	0
56	MG	1A	3523	1/1	0.83	0.14	53,53,53,53	0
56	MG	2a	3005	1/1	0.83	0.17	66,66,66,66	0
56	MG	1A	3533	1/1	0.83	0.25	55,55,55,55	0
56	MG	2A	3796	1/1	0.83	0.28	77,77,77,77	0
56	MG	2a	3009	1/1	0.83	0.12	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1D	310	1/1	0.83	0.17	24,24,24,24	0
56	MG	1A	3693	1/1	0.83	0.23	42,42,42,42	0
56	MG	2a	3025	1/1	0.83	0.27	59,59,59,59	0
56	MG	1A	3270	1/1	0.83	0.12	55,55,55,55	0
56	MG	1A	3799	1/1	0.83	0.10	38,38,38,38	0
56	MG	1A	3136	1/1	0.83	0.14	41,41,41,41	0
56	MG	2a	3001	1/1	0.84	0.26	57,57,57,57	0
56	MG	2a	3002	1/1	0.84	0.13	63,63,63,63	0
56	MG	2A	3186	1/1	0.84	0.15	53,53,53,53	0
56	MG	1A	3635	1/1	0.84	0.19	33,33,33,33	0
56	MG	2A	3726	1/1	0.84	0.19	50,50,50,50	0
56	MG	2A	3202	1/1	0.84	0.15	47,47,47,47	0
56	MG	1a	1826	1/1	0.84	0.22	58,58,58,58	0
56	MG	2A	3400	1/1	0.84	0.45	59,59,59,59	0
56	MG	2A	3737	1/1	0.84	0.14	70,70,70,70	0
56	MG	1A	3339	1/1	0.84	0.25	42,42,42,42	0
56	MG	1A	3766	1/1	0.84	0.13	26,26,26,26	0
56	MG	2a	3037	1/1	0.84	0.15	48,48,48,48	0
56	MG	2A	3753	1/1	0.84	0.13	42,42,42,42	0
56	MG	1a	1715	1/1	0.84	0.11	53,53,53,53	0
56	MG	1t	201	1/1	0.84	0.17	59,59,59,59	0
56	MG	2A	3767	1/1	0.84	0.18	51,51,51,51	0
56	MG	1A	3643	1/1	0.84	0.18	56,56,56,56	0
56	MG	2A	3418	1/1	0.84	0.16	66,66,66,66	0
56	MG	2A	3236	1/1	0.84	0.19	45,45,45,45	0
56	MG	1a	1722	1/1	0.84	0.11	50,50,50,50	0
56	MG	1x	104	1/1	0.84	0.25	56,56,56,56	0
56	MG	1a	1730	1/1	0.84	0.25	65,65,65,65	0
56	MG	1A	3984	1/1	0.84	0.10	71,71,71,71	0
56	MG	1A	3207	1/1	0.84	0.16	47,47,47,47	0
56	MG	2a	3077	1/1	0.84	0.14	59,59,59,59	0
56	MG	1A	3096	1/1	0.84	0.23	57,57,57,57	0
56	MG	2A	3801	1/1	0.84	0.12	80,80,80,80	0
56	MG	2A	3014	1/1	0.84	0.64	55,55,55,55	0
56	MG	1A	3989	1/1	0.84	0.19	31,31,31,31	0
56	MG	1Q	206	1/1	0.84	0.16	51,51,51,51	0
56	MG	1A	4053	1/1	0.84	0.14	34,34,34,34	0
56	MG	1A	3143	1/1	0.84	0.20	37,37,37,37	0
56	MG	2A	3508	1/1	0.84	0.15	64,64,64,64	0
56	MG	2A	3051	1/1	0.84	0.13	72,72,72,72	0
56	MG	14	101	1/1	0.84	0.10	69,69,69,69	0
56	MG	2a	3138	1/1	0.84	0.12	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3074	1/1	0.84	0.30	55,55,55,55	0
56	MG	1a	1606	1/1	0.84	0.25	71,71,71,71	0
56	MG	2A	3540	1/1	0.84	0.14	35,35,35,35	0
56	MG	1A	3358	1/1	0.84	0.15	45,45,45,45	0
56	MG	2A	3822	1/1	0.84	0.11	61,61,61,61	0
56	MG	1A	3251	1/1	0.84	0.11	69,69,69,69	0
56	MG	2A	3295	1/1	0.84	0.25	58,58,58,58	0
56	MG	2A	3552	1/1	0.84	0.10	43,43,43,43	0
56	MG	1A	3256	1/1	0.84	0.13	53,53,53,53	0
56	MG	2A	3297	1/1	0.84	0.14	72,72,72,72	0
56	MG	2A	3299	1/1	0.84	0.16	49,49,49,49	0
56	MG	1a	1638	1/1	0.84	0.21	61,61,61,61	0
56	MG	1a	1641	1/1	0.84	0.10	57,57,57,57	0
56	MG	2A	3850	1/1	0.84	0.15	55,55,55,55	0
56	MG	2A	3087	1/1	0.84	0.22	48,48,48,48	0
56	MG	1A	3367	1/1	0.84	0.26	57,57,57,57	0
56	MG	2A	3605	1/1	0.84	0.11	51,51,51,51	0
56	MG	2A	3608	1/1	0.84	0.14	34,34,34,34	0
56	MG	1A	3151	1/1	0.84	0.53	42,42,42,42	0
56	MG	2A	3098	1/1	0.84	0.17	61,61,61,61	0
56	MG	1A	3282	1/1	0.84	0.67	38,38,38,38	0
56	MG	1A	3954	1/1	0.84	0.15	75,75,75,75	0
56	MG	1A	3732	1/1	0.84	0.11	61,61,61,61	0
56	MG	1a	1661	1/1	0.84	0.13	58,58,58,58	0
56	MG	1A	3958	1/1	0.84	0.11	50,50,50,50	0
56	MG	2B	213	1/1	0.84	0.22	56,56,56,56	0
56	MG	2A	3350	1/1	0.84	0.14	68,68,68,68	0
56	MG	1A	4092	1/1	0.84	0.23	54,54,54,54	0
56	MG	1a	1683	1/1	0.84	0.13	43,43,43,43	0
56	MG	1A	4095	1/1	0.84	0.12	38,38,38,38	0
56	MG	2a	3238	1/1	0.84	0.24	72,72,72,72	0
56	MG	1a	1696	1/1	0.84	0.25	44,44,44,44	0
56	MG	2A	3372	1/1	0.84	0.15	50,50,50,50	0
56	MG	1A	3039	1/1	0.84	0.21	54,54,54,54	0
56	MG	2w	101	1/1	0.84	0.15	69,69,69,69	0
56	MG	2A	3700	1/1	0.84	0.07	58,58,58,58	0
56	MG	1A	3607	1/1	0.84	0.20	27,27,27,27	0
56	MG	2A	3383	1/1	0.84	0.19	66,66,66,66	0
56	MG	1B	208	1/1	0.84	0.17	57,57,57,57	0
56	MG	2A	3004	1/1	0.85	0.11	58,58,58,58	0
56	MG	2A	3173	1/1	0.85	0.15	72,72,72,72	0
56	MG	2A	3005	1/1	0.85	0.15	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1690	1/1	0.85	0.14	56,56,56,56	0
56	MG	1A	3378	1/1	0.85	0.19	42,42,42,42	0
56	MG	2A	3193	1/1	0.85	0.10	63,63,63,63	0
56	MG	2A	3339	1/1	0.85	0.23	64,64,64,64	0
56	MG	1A	4027	1/1	0.85	0.41	65,65,65,65	0
56	MG	1A	3927	1/1	0.85	0.16	55,55,55,55	0
56	MG	2A	3205	1/1	0.85	0.39	63,63,63,63	0
56	MG	1A	3405	1/1	0.85	0.20	52,52,52,52	0
56	MG	1A	4076	1/1	0.85	0.25	36,36,36,36	0
56	MG	1A	3131	1/1	0.85	0.19	63,63,63,63	0
56	MG	2A	3368	1/1	0.85	0.23	65,65,65,65	0
56	MG	2a	3098	1/1	0.85	0.11	62,62,62,62	0
56	MG	1A	3932	1/1	0.85	0.19	48,48,48,48	0
56	MG	2A	3831	1/1	0.85	0.20	56,56,56,56	0
56	MG	2a	3107	1/1	0.85	0.14	74,74,74,74	0
56	MG	2A	3373	1/1	0.85	0.17	67,67,67,67	0
56	MG	2A	3376	1/1	0.85	0.20	53,53,53,53	0
56	MG	2A	3377	1/1	0.85	0.24	65,65,65,65	0
56	MG	2A	3221	1/1	0.85	0.16	57,57,57,57	0
56	MG	2A	3225	1/1	0.85	0.10	62,62,62,62	0
56	MG	2A	3657	1/1	0.85	0.29	84,84,84,84	0
56	MG	1A	3412	1/1	0.85	0.20	38,38,38,38	0
56	MG	2A	3234	1/1	0.85	0.52	60,60,60,60	0
56	MG	1a	1607	1/1	0.85	0.16	55,55,55,55	0
56	MG	1A	3526	1/1	0.85	0.43	42,42,42,42	0
56	MG	1A	3048	1/1	0.85	0.13	20,20,20,20	0
56	MG	2A	3074	1/1	0.85	0.45	41,41,41,41	0
56	MG	1A	3220	1/1	0.85	0.17	49,49,49,49	0
56	MG	1A	3947	1/1	0.85	0.17	27,27,27,27	0
56	MG	1A	3797	1/1	0.85	0.21	27,27,27,27	0
56	MG	2a	3163	1/1	0.85	0.29	68,68,68,68	0
56	MG	1B	214	1/1	0.85	0.13	46,46,46,46	0
56	MG	1A	3885	1/1	0.85	0.19	25,25,25,25	0
56	MG	1A	3202	1/1	0.85	0.14	40,40,40,40	0
56	MG	2A	3263	1/1	0.85	0.20	71,71,71,71	0
56	MG	2A	3419	1/1	0.85	0.16	62,62,62,62	0
56	MG	1a	1759	1/1	0.85	0.14	61,61,61,61	0
56	MG	2A	3439	1/1	0.85	0.22	55,55,55,55	0
56	MG	1a	1657	1/1	0.85	0.21	68,68,68,68	0
56	MG	1A	3733	1/1	0.85	0.15	45,45,45,45	0
56	MG	2Q	203	1/1	0.85	0.41	56,56,56,56	0
56	MG	2A	3114	1/1	0.85	0.14	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3960	1/1	0.85	0.11	50,50,50,50	0
56	MG	1A	3468	1/1	0.85	0.41	57,57,57,57	0
56	MG	1E	301	1/1	0.85	0.39	28,28,28,28	0
56	MG	2A	3766	1/1	0.85	0.19	68,68,68,68	0
56	MG	2A	3129	1/1	0.85	0.43	54,54,54,54	0
56	MG	2A	3768	1/1	0.85	0.09	42,42,42,42	0
56	MG	2A	3292	1/1	0.85	0.11	57,57,57,57	0
56	MG	2A	3484	1/1	0.85	0.12	58,58,58,58	0
56	MG	1A	3685	1/1	0.85	0.21	31,31,31,31	0
56	MG	2a	3236	1/1	0.85	0.13	73,73,73,73	0
56	MG	1N	201	1/1	0.85	0.36	51,51,51,51	0
56	MG	1x	111	1/1	0.85	0.14	71,71,71,71	0
56	MG	2g	201	1/1	0.85	0.14	81,81,81,81	0
56	MG	2A	3159	1/1	0.85	0.21	66,66,66,66	0
56	MG	1a	1788	1/1	0.85	0.09	61,61,61,61	0
56	MG	2A	3309	1/1	0.85	0.19	55,55,55,55	0
56	MG	2A	3310	1/1	0.85	0.25	65,65,65,65	0
56	MG	2A	3163	1/1	0.85	0.12	57,57,57,57	0
56	MG	2y	103	1/1	0.85	0.17	76,76,76,76	0
56	MG	2A	3168	1/1	0.85	0.10	53,53,53,53	0
56	MG	1a	1685	1/1	0.85	0.22	65,65,65,65	0
56	MG	2A	3416	1/1	0.86	0.20	64,64,64,64	0
56	MG	2A	3182	1/1	0.86	0.14	49,49,49,49	0
56	MG	1A	4014	1/1	0.86	0.15	46,46,46,46	0
56	MG	2A	3302	1/1	0.86	0.14	61,61,61,61	0
56	MG	2A	3679	1/1	0.86	0.10	52,52,52,52	0
56	MG	10	104	1/1	0.86	0.18	59,59,59,59	0
56	MG	2a	3084	1/1	0.86	0.15	58,58,58,58	0
56	MG	1a	1805	1/1	0.86	0.14	55,55,55,55	0
56	MG	2a	3089	1/1	0.86	0.26	69,69,69,69	0
56	MG	2A	3056	1/1	0.86	0.18	59,59,59,59	0
56	MG	2A	3314	1/1	0.86	0.26	60,60,60,60	0
56	MG	1A	3234	1/1	0.86	0.37	54,54,54,54	0
56	MG	1A	3237	1/1	0.86	0.25	30,30,30,30	0
56	MG	2A	3457	1/1	0.86	0.14	50,50,50,50	0
56	MG	2a	3106	1/1	0.86	0.12	65,65,65,65	0
56	MG	1A	3675	1/1	0.86	0.10	24,24,24,24	0
56	MG	2a	3117	1/1	0.86	0.13	65,65,65,65	0
56	MG	1A	4031	1/1	0.86	0.10	60,60,60,60	0
56	MG	1A	3907	1/1	0.86	0.09	48,48,48,48	0
56	MG	2A	3479	1/1	0.86	0.24	52,52,52,52	0
56	MG	1A	3682	1/1	0.86	0.17	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	3137	1/1	0.86	0.13	75,75,75,75	0
56	MG	1a	1817	1/1	0.86	0.25	58,58,58,58	0
56	MG	1A	3400	1/1	0.86	0.54	42,42,42,42	0
56	MG	2A	3490	1/1	0.86	0.15	53,53,53,53	0
56	MG	1A	3528	1/1	0.86	0.34	47,47,47,47	0
56	MG	2B	217	1/1	0.86	0.21	84,84,84,84	0
56	MG	2D	307	1/1	0.86	0.53	47,47,47,47	0
56	MG	1A	3686	1/1	0.86	0.17	54,54,54,54	0
56	MG	2A	3495	1/1	0.86	0.16	57,57,57,57	0
56	MG	2A	3497	1/1	0.86	0.17	51,51,51,51	0
56	MG	1A	3349	1/1	0.86	0.25	56,56,56,56	0
56	MG	1A	3333	1/1	0.86	0.30	56,56,56,56	0
56	MG	1A	3041	1/1	0.86	0.55	34,34,34,34	0
56	MG	2A	3104	1/1	0.86	0.15	51,51,51,51	0
56	MG	2A	3356	1/1	0.86	0.35	62,62,62,62	0
56	MG	1A	3114	1/1	0.86	0.25	32,32,32,32	0
56	MG	1A	3990	1/1	0.86	0.14	33,33,33,33	0
56	MG	2A	3367	1/1	0.86	0.13	54,54,54,54	0
56	MG	2X	101	1/1	0.86	0.12	56,56,56,56	0
56	MG	25	104	1/1	0.86	0.25	54,54,54,54	0
56	MG	25	105	1/1	0.86	0.22	49,49,49,49	0
56	MG	1a	1658	1/1	0.86	0.08	63,63,63,63	0
56	MG	1A	3062	1/1	0.86	0.27	51,51,51,51	0
56	MG	2A	3121	1/1	0.86	0.17	48,48,48,48	0
56	MG	1A	3261	1/1	0.86	0.16	52,52,52,52	0
56	MG	1A	3713	1/1	0.86	0.26	63,63,63,63	0
56	MG	1F	308	1/1	0.86	0.20	49,49,49,49	0
56	MG	2A	3265	1/1	0.86	0.12	57,57,57,57	0
56	MG	1x	112	1/1	0.86	0.15	58,58,58,58	0
56	MG	1A	3147	1/1	0.86	0.26	39,39,39,39	0
56	MG	2A	3391	1/1	0.86	0.12	68,68,68,68	0
56	MG	2a	3027	1/1	0.86	0.43	70,70,70,70	0
56	MG	2a	3216	1/1	0.86	0.17	72,72,72,72	0
56	MG	1a	1679	1/1	0.86	0.11	66,66,66,66	0
56	MG	2a	3227	1/1	0.86	0.21	78,78,78,78	0
56	MG	2a	3034	1/1	0.86	0.22	72,72,72,72	0
56	MG	1A	3626	1/1	0.86	0.12	47,47,47,47	0
56	MG	2A	3613	1/1	0.86	0.12	46,46,46,46	0
56	MG	2A	3283	1/1	0.86	0.09	57,57,57,57	0
56	MG	2a	3045	1/1	0.86	0.22	72,72,72,72	0
56	MG	2q	201	1/1	0.86	0.24	68,68,68,68	0
56	MG	1N	203	1/1	0.86	0.16	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	3050	1/1	0.86	0.18	47,47,47,47	0
56	MG	1A	3434	1/1	0.86	0.16	40,40,40,40	0
56	MG	1a	1692	1/1	0.86	0.17	70,70,70,70	0
56	MG	1A	3504	1/1	0.86	0.32	54,54,54,54	0
56	MG	1P	209	1/1	0.86	0.14	40,40,40,40	0
56	MG	1A	3440	1/1	0.86	0.13	36,36,36,36	0
56	MG	2A	3715	1/1	0.87	0.17	68,68,68,68	0
56	MG	2A	3716	1/1	0.87	0.08	51,51,51,51	0
56	MG	1a	1779	1/1	0.87	0.19	88,88,88,88	0
56	MG	1A	3334	1/1	0.87	0.16	43,43,43,43	0
56	MG	1A	3017	1/1	0.87	0.39	50,50,50,50	0
56	MG	2A	3069	1/1	0.87	0.09	54,54,54,54	0
56	MG	1A	3776	1/1	0.87	0.12	31,31,31,31	0
56	MG	2A	3432	1/1	0.87	0.22	40,40,40,40	0
56	MG	1a	1627	1/1	0.87	0.12	55,55,55,55	0
56	MG	2A	3267	1/1	0.87	0.82	67,67,67,67	0
56	MG	2A	3268	1/1	0.87	0.17	57,57,57,57	0
56	MG	2a	3047	1/1	0.87	0.13	55,55,55,55	0
56	MG	1A	3475	1/1	0.87	0.26	48,48,48,48	0
56	MG	1A	3157	1/1	0.87	0.20	40,40,40,40	0
56	MG	2a	3051	1/1	0.87	0.15	62,62,62,62	0
56	MG	1A	3116	1/1	0.87	0.22	36,36,36,36	0
56	MG	2A	3461	1/1	0.87	0.15	44,44,44,44	0
56	MG	2A	3463	1/1	0.87	0.12	55,55,55,55	0
56	MG	1A	3534	1/1	0.87	0.20	63,63,63,63	0
56	MG	1A	4100	1/1	0.87	0.42	85,85,85,85	0
56	MG	1A	3170	1/1	0.87	0.18	47,47,47,47	0
56	MG	2a	3064	1/1	0.87	0.23	64,64,64,64	0
56	MG	1A	3488	1/1	0.87	0.17	33,33,33,33	0
56	MG	1A	3279	1/1	0.87	0.31	39,39,39,39	0
56	MG	2A	3483	1/1	0.87	0.19	68,68,68,68	0
56	MG	1B	212	1/1	0.87	0.14	40,40,40,40	0
56	MG	2a	3080	1/1	0.87	0.28	62,62,62,62	0
56	MG	1A	4028	1/1	0.87	0.07	61,61,61,61	0
56	MG	1a	1668	1/1	0.87	0.11	66,66,66,66	0
56	MG	1a	1669	1/1	0.87	0.28	75,75,75,75	0
56	MG	1A	3493	1/1	0.87	0.17	48,48,48,48	0
56	MG	1A	3816	1/1	0.87	0.23	54,54,54,54	0
56	MG	1a	1810	1/1	0.87	0.10	59,59,59,59	0
56	MG	2A	3506	1/1	0.87	0.11	36,36,36,36	0
56	MG	1A	3823	1/1	0.87	0.60	50,50,50,50	0
56	MG	2A	3515	1/1	0.87	0.15	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3836	1/1	0.87	0.20	50,50,50,50	0
56	MG	2A	3136	1/1	0.87	0.16	38,38,38,38	0
56	MG	2A	3525	1/1	0.87	0.14	60,60,60,60	0
56	MG	2a	3118	1/1	0.87	0.13	62,62,62,62	0
56	MG	2A	3531	1/1	0.87	0.17	55,55,55,55	0
56	MG	2a	3122	1/1	0.87	0.09	73,73,73,73	0
56	MG	1B	237	1/1	0.87	0.12	68,68,68,68	0
56	MG	1a	1689	1/1	0.87	0.15	59,59,59,59	0
56	MG	1A	3578	1/1	0.87	0.19	43,43,43,43	0
56	MG	1A	3585	1/1	0.87	0.31	35,35,35,35	0
56	MG	2A	3826	1/1	0.87	0.14	55,55,55,55	0
56	MG	2A	3331	1/1	0.87	0.32	72,72,72,72	0
56	MG	1E	303	1/1	0.87	0.30	38,38,38,38	0
56	MG	2a	3143	1/1	0.87	0.12	75,75,75,75	0
56	MG	1E	313	1/1	0.87	0.27	54,54,54,54	0
56	MG	1A	4038	1/1	0.87	0.09	52,52,52,52	0
56	MG	2A	3562	1/1	0.87	0.16	35,35,35,35	0
56	MG	2A	3564	1/1	0.87	0.23	53,53,53,53	0
56	MG	1A	3391	1/1	0.87	0.10	42,42,42,42	0
56	MG	1f	202	1/1	0.87	0.13	70,70,70,70	0
56	MG	1A	3717	1/1	0.87	0.07	41,41,41,41	0
56	MG	2A	3175	1/1	0.87	0.43	50,50,50,50	0
56	MG	2A	3858	1/1	0.87	0.28	64,64,64,64	0
56	MG	2A	3592	1/1	0.87	0.14	46,46,46,46	0
56	MG	1A	3431	1/1	0.87	0.21	54,54,54,54	0
56	MG	1N	205	1/1	0.87	0.23	57,57,57,57	0
56	MG	2A	3601	1/1	0.87	0.20	58,58,58,58	0
56	MG	2A	3602	1/1	0.87	0.14	55,55,55,55	0
56	MG	1A	3433	1/1	0.87	0.13	31,31,31,31	0
56	MG	1A	3627	1/1	0.87	0.22	18,18,18,18	0
56	MG	2A	3611	1/1	0.87	0.13	51,51,51,51	0
56	MG	2A	3358	1/1	0.87	0.13	56,56,56,56	0
56	MG	1P	207	1/1	0.87	0.08	51,51,51,51	0
56	MG	2A	3200	1/1	0.87	0.17	48,48,48,48	0
56	MG	1x	110	1/1	0.87	0.22	61,61,61,61	0
56	MG	2a	3183	1/1	0.87	0.14	60,60,60,60	0
56	MG	2a	3187	1/1	0.87	0.16	70,70,70,70	0
56	MG	2D	306	1/1	0.87	0.77	47,47,47,47	0
56	MG	1A	3101	1/1	0.87	0.17	56,56,56,56	0
56	MG	1a	1729	1/1	0.87	0.19	54,54,54,54	0
56	MG	1A	3888	1/1	0.87	0.32	44,44,44,44	0
56	MG	1A	3892	1/1	0.87	0.14	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3003	1/1	0.87	0.23	44,44,44,44	0
56	MG	1Y	201	1/1	0.87	0.23	32,32,32,32	0
56	MG	2a	3213	1/1	0.87	0.08	75,75,75,75	0
56	MG	1A	3061	1/1	0.87	0.18	67,67,67,67	0
56	MG	1A	3505	1/1	0.87	0.16	39,39,39,39	0
56	MG	1a	1752	1/1	0.87	0.19	74,74,74,74	0
56	MG	2A	3022	1/1	0.87	0.29	56,56,56,56	0
56	MG	12	101	1/1	0.87	0.15	54,54,54,54	0
56	MG	1a	1754	1/1	0.87	0.16	57,57,57,57	0
56	MG	2A	3692	1/1	0.87	0.07	66,66,66,66	0
56	MG	20	101	1/1	0.87	0.11	67,67,67,67	0
56	MG	1A	3917	1/1	0.87	0.16	34,34,34,34	0
56	MG	2t	201	1/1	0.87	0.14	47,47,47,47	0
56	MG	2A	3043	1/1	0.87	0.19	57,57,57,57	0
56	MG	2A	3702	1/1	0.87	0.10	31,31,31,31	0
56	MG	1A	3296	1/1	0.87	0.12	32,32,32,32	0
56	MG	2A	3248	1/1	0.87	0.57	65,65,65,65	0
56	MG	1A	3664	1/1	0.87	0.08	40,40,40,40	0
56	MG	1A	3997	1/1	0.87	0.20	45,45,45,45	0
56	MG	2A	3252	1/1	0.87	0.11	48,48,48,48	0
56	MG	2W	201	1/1	0.88	0.26	57,57,57,57	0
56	MG	2W	202	1/1	0.88	0.28	45,45,45,45	0
56	MG	1A	3575	1/1	0.88	0.22	55,55,55,55	0
56	MG	1a	1623	1/1	0.88	0.23	55,55,55,55	0
56	MG	2A	3369	1/1	0.88	0.11	64,64,64,64	0
56	MG	25	103	1/1	0.88	0.22	45,45,45,45	0
56	MG	2A	3370	1/1	0.88	0.12	64,64,64,64	0
56	MG	2A	3664	1/1	0.88	0.13	57,57,57,57	0
56	MG	1A	3458	1/1	0.88	0.14	62,62,62,62	0
56	MG	1A	3109	1/1	0.88	0.41	31,31,31,31	0
56	MG	2A	3375	1/1	0.88	0.18	64,64,64,64	0
56	MG	1A	4070	1/1	0.88	0.07	52,52,52,52	0
56	MG	2A	3687	1/1	0.88	0.34	71,71,71,71	0
56	MG	2A	3688	1/1	0.88	0.16	57,57,57,57	0
56	MG	1a	1642	1/1	0.88	0.17	57,57,57,57	0
56	MG	2A	3379	1/1	0.88	0.15	56,56,56,56	0
56	MG	1A	4073	1/1	0.88	0.36	59,59,59,59	0
56	MG	2a	3020	1/1	0.88	0.14	71,71,71,71	0
56	MG	2a	3023	1/1	0.88	0.16	76,76,76,76	0
56	MG	2A	3181	1/1	0.88	0.11	44,44,44,44	0
56	MG	1A	3060	1/1	0.88	0.14	39,39,39,39	0
56	MG	1A	3470	1/1	0.88	0.24	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	3706	1/1	0.88	0.14	68,68,68,68	0
56	MG	1A	3709	1/1	0.88	0.19	41,41,41,41	0
56	MG	1A	4082	1/1	0.88	0.11	35,35,35,35	0
56	MG	2A	3712	1/1	0.88	0.18	70,70,70,70	0
56	MG	2A	3194	1/1	0.88	0.38	60,60,60,60	0
56	MG	2a	3046	1/1	0.88	0.11	66,66,66,66	0
56	MG	1A	3988	1/1	0.88	0.25	21,21,21,21	0
56	MG	1A	3606	1/1	0.88	0.20	36,36,36,36	0
56	MG	1A	3870	1/1	0.88	0.20	30,30,30,30	0
56	MG	2A	3721	1/1	0.88	0.11	62,62,62,62	0
56	MG	1a	1666	1/1	0.88	0.14	63,63,63,63	0
56	MG	1a	1667	1/1	0.88	0.21	58,58,58,58	0
56	MG	1A	4094	1/1	0.88	0.22	47,47,47,47	0
56	MG	2A	3409	1/1	0.88	0.15	66,66,66,66	0
56	MG	1A	3991	1/1	0.88	0.19	22,22,22,22	0
56	MG	1A	3506	1/1	0.88	0.27	47,47,47,47	0
56	MG	2A	3743	1/1	0.88	0.09	59,59,59,59	0
56	MG	2A	3746	1/1	0.88	0.11	57,57,57,57	0
56	MG	1A	3722	1/1	0.88	0.16	59,59,59,59	0
56	MG	1w	102	1/1	0.88	0.20	75,75,75,75	0
56	MG	2A	3228	1/1	0.88	0.40	72,72,72,72	0
56	MG	1a	1677	1/1	0.88	0.29	57,57,57,57	0
56	MG	2A	3428	1/1	0.88	0.20	50,50,50,50	0
56	MG	1A	3725	1/1	0.88	0.08	66,66,66,66	0
56	MG	1A	3617	1/1	0.88	0.13	36,36,36,36	0
56	MG	2A	3770	1/1	0.88	0.31	54,54,54,54	0
56	MG	1B	211	1/1	0.88	0.32	51,51,51,51	0
56	MG	1A	3889	1/1	0.88	0.18	44,44,44,44	0
56	MG	1A	3625	1/1	0.88	0.12	53,53,53,53	0
56	MG	1a	1691	1/1	0.88	0.14	64,64,64,64	0
56	MG	2A	3792	1/1	0.88	0.41	63,63,63,63	0
56	MG	1A	3238	1/1	0.88	0.23	56,56,56,56	0
56	MG	2A	3459	1/1	0.88	0.11	41,41,41,41	0
56	MG	1A	3734	1/1	0.88	0.11	49,49,49,49	0
56	MG	2A	3462	1/1	0.88	0.20	60,60,60,60	0
56	MG	1A	3739	1/1	0.88	0.11	51,51,51,51	0
56	MG	1B	233	1/1	0.88	0.09	63,63,63,63	0
56	MG	2A	3470	1/1	0.88	0.62	62,62,62,62	0
56	MG	2a	3131	1/1	0.88	0.19	60,60,60,60	0
56	MG	1A	3276	1/1	0.88	0.12	45,45,45,45	0
56	MG	1A	3519	1/1	0.88	0.11	45,45,45,45	0
56	MG	2A	3011	1/1	0.88	0.09	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4018	1/1	0.88	0.17	35,35,35,35	0
56	MG	1a	1709	1/1	0.88	0.18	50,50,50,50	0
56	MG	1a	1710	1/1	0.88	0.15	53,53,53,53	0
56	MG	2A	3030	1/1	0.88	0.12	46,46,46,46	0
56	MG	1A	3750	1/1	0.88	0.14	34,34,34,34	0
56	MG	2A	3270	1/1	0.88	0.20	57,57,57,57	0
56	MG	2a	3148	1/1	0.88	0.14	63,63,63,63	0
56	MG	1a	1712	1/1	0.88	0.27	53,53,53,53	0
56	MG	1A	3388	1/1	0.88	0.18	44,44,44,44	0
56	MG	1A	3303	1/1	0.88	0.39	55,55,55,55	0
56	MG	2A	3503	1/1	0.88	0.19	39,39,39,39	0
56	MG	1F	304	1/1	0.88	0.13	34,34,34,34	0
56	MG	1A	3644	1/1	0.88	0.17	58,58,58,58	0
56	MG	2A	3509	1/1	0.88	0.15	41,41,41,41	0
56	MG	1a	1726	1/1	0.88	0.14	61,61,61,61	0
56	MG	1A	3335	1/1	0.88	0.17	36,36,36,36	0
56	MG	1G	204	1/1	0.88	0.12	52,52,52,52	0
56	MG	1A	3770	1/1	0.88	0.15	32,32,32,32	0
56	MG	1A	3123	1/1	0.88	0.27	41,41,41,41	0
56	MG	2A	3847	1/1	0.88	0.11	47,47,47,47	0
56	MG	1A	3155	1/1	0.88	0.21	43,43,43,43	0
56	MG	1A	3667	1/1	0.88	0.18	28,28,28,28	0
56	MG	2A	3853	1/1	0.88	0.13	49,49,49,49	0
56	MG	1A	4037	1/1	0.88	0.10	68,68,68,68	0
56	MG	2a	3179	1/1	0.88	0.08	69,69,69,69	0
56	MG	1A	3438	1/1	0.88	0.16	50,50,50,50	0
56	MG	1A	3787	1/1	0.88	0.08	44,44,44,44	0
56	MG	1Q	205	1/1	0.88	0.21	55,55,55,55	0
56	MG	1A	3681	1/1	0.88	0.08	47,47,47,47	0
56	MG	1a	1762	1/1	0.88	0.19	61,61,61,61	0
56	MG	2A	3862	1/1	0.88	0.09	57,57,57,57	0
56	MG	1A	3949	1/1	0.88	0.07	54,54,54,54	0
56	MG	1A	4046	1/1	0.88	0.15	44,44,44,44	0
56	MG	10	102	1/1	0.88	0.16	41,41,41,41	0
56	MG	1A	3547	1/1	0.88	0.18	42,42,42,42	0
56	MG	2a	3202	1/1	0.88	0.27	75,75,75,75	0
56	MG	1A	3361	1/1	0.88	0.17	56,56,56,56	0
56	MG	1A	4051	1/1	0.88	0.32	58,58,58,58	0
56	MG	2B	212	1/1	0.88	0.18	57,57,57,57	0
56	MG	12	102	1/1	0.88	0.21	39,39,39,39	0
56	MG	1A	3563	1/1	0.88	0.16	53,53,53,53	0
56	MG	2a	3231	1/1	0.88	0.15	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2a	3233	1/1	0.88	0.15	67,67,67,67	0
56	MG	16	103	1/1	0.88	0.24	51,51,51,51	0
56	MG	18	107	1/1	0.88	0.30	56,56,56,56	0
56	MG	2A	3130	1/1	0.88	0.21	54,54,54,54	0
56	MG	2A	3343	1/1	0.88	0.08	57,57,57,57	0
56	MG	1a	1791	1/1	0.88	0.10	64,64,64,64	0
56	MG	2A	3348	1/1	0.88	0.14	65,65,65,65	0
56	MG	1A	3456	1/1	0.88	0.12	49,49,49,49	0
56	MG	1A	3802	1/1	0.88	0.24	60,60,60,60	0
56	MG	2A	3150	1/1	0.88	0.35	53,53,53,53	0
56	MG	1A	3963	1/1	0.88	0.11	33,33,33,33	0
56	MG	2Q	204	1/1	0.88	0.42	62,62,62,62	0
56	MG	1A	3566	1/1	0.88	0.15	52,52,52,52	0
56	MG	2A	3160	1/1	0.88	0.53	57,57,57,57	0
56	MG	1A	3690	1/1	0.88	0.20	19,19,19,19	0
56	MG	1a	1732	1/1	0.89	0.20	64,64,64,64	0
56	MG	2A	3041	1/1	0.89	0.12	70,70,70,70	0
56	MG	1A	3451	1/1	0.89	0.31	42,42,42,42	0
56	MG	1A	3314	1/1	0.89	0.23	48,48,48,48	0
56	MG	2A	3254	1/1	0.89	0.17	63,63,63,63	0
56	MG	2a	3008	1/1	0.89	0.13	57,57,57,57	0
56	MG	1A	3315	1/1	0.89	0.14	51,51,51,51	0
56	MG	2A	3442	1/1	0.89	0.21	57,57,57,57	0
56	MG	2A	3257	1/1	0.89	0.16	62,62,62,62	0
56	MG	1A	3964	1/1	0.89	0.07	33,33,33,33	0
56	MG	1A	3263	1/1	0.89	0.11	64,64,64,64	0
56	MG	2a	3024	1/1	0.89	0.16	59,59,59,59	0
56	MG	15	102	1/1	0.89	0.32	42,42,42,42	0
56	MG	2A	3456	1/1	0.89	0.11	61,61,61,61	0
56	MG	1A	3970	1/1	0.89	0.16	20,20,20,20	0
56	MG	1A	3974	1/1	0.89	0.08	54,54,54,54	0
56	MG	2a	3036	1/1	0.89	0.15	72,72,72,72	0
56	MG	1A	3976	1/1	0.89	0.14	47,47,47,47	0
56	MG	1A	3398	1/1	0.89	0.20	23,23,23,23	0
56	MG	1A	3822	1/1	0.89	0.09	25,25,25,25	0
56	MG	2A	3465	1/1	0.89	0.11	48,48,48,48	0
56	MG	1A	3981	1/1	0.89	0.18	60,60,60,60	0
56	MG	1A	3538	1/1	0.89	0.18	50,50,50,50	0
56	MG	2A	3473	1/1	0.89	0.14	60,60,60,60	0
56	MG	1A	3344	1/1	0.89	0.19	53,53,53,53	0
56	MG	1A	3552	1/1	0.89	0.18	27,27,27,27	0
56	MG	1a	1786	1/1	0.89	0.10	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3771	1/1	0.89	0.10	62,62,62,62	0
56	MG	2A	3089	1/1	0.89	0.14	61,61,61,61	0
56	MG	2a	3056	1/1	0.89	0.11	57,57,57,57	0
56	MG	1A	3696	1/1	0.89	0.14	20,20,20,20	0
56	MG	2A	3781	1/1	0.89	0.09	57,57,57,57	0
56	MG	1A	3555	1/1	0.89	0.21	23,23,23,23	0
56	MG	2A	3788	1/1	0.89	0.19	51,51,51,51	0
56	MG	1A	3401	1/1	0.89	0.28	35,35,35,35	0
56	MG	1A	3473	1/1	0.89	0.42	65,65,65,65	0
56	MG	2A	3491	1/1	0.89	0.14	50,50,50,50	0
56	MG	1A	3226	1/1	0.89	0.23	43,43,43,43	0
56	MG	1a	1654	1/1	0.89	0.16	71,71,71,71	0
56	MG	2A	3115	1/1	0.89	0.09	41,41,41,41	0
56	MG	1A	3565	1/1	0.89	0.11	58,58,58,58	0
56	MG	1A	4099	1/1	0.89	0.21	40,40,40,40	0
56	MG	1A	3712	1/1	0.89	0.07	54,54,54,54	0
56	MG	2A	3312	1/1	0.89	0.16	50,50,50,50	0
56	MG	1A	3129	1/1	0.89	0.27	47,47,47,47	0
56	MG	1A	3572	1/1	0.89	0.30	39,39,39,39	0
56	MG	1A	3006	1/1	0.89	0.21	47,47,47,47	0
56	MG	1A	3891	1/1	0.89	0.21	21,21,21,21	0
56	MG	2a	3105	1/1	0.89	0.12	45,45,45,45	0
56	MG	1a	1665	1/1	0.89	0.21	51,51,51,51	0
56	MG	2A	3326	1/1	0.89	0.24	61,61,61,61	0
56	MG	1A	3479	1/1	0.89	0.14	53,53,53,53	0
56	MG	2A	3149	1/1	0.89	0.13	63,63,63,63	0
56	MG	1A	4002	1/1	0.89	0.12	31,31,31,31	0
56	MG	2A	3152	1/1	0.89	0.28	71,71,71,71	0
56	MG	1A	3029	1/1	0.89	0.14	23,23,23,23	0
56	MG	1B	227	1/1	0.89	0.14	60,60,60,60	0
56	MG	2A	3338	1/1	0.89	0.18	62,62,62,62	0
56	MG	1a	1671	1/1	0.89	0.12	49,49,49,49	0
56	MG	2A	3341	1/1	0.89	0.31	66,66,66,66	0
56	MG	1A	3484	1/1	0.89	0.25	59,59,59,59	0
56	MG	2a	3139	1/1	0.89	0.09	70,70,70,70	0
56	MG	1A	3486	1/1	0.89	0.18	44,44,44,44	0
56	MG	1A	3246	1/1	0.89	0.27	50,50,50,50	0
56	MG	2A	3834	1/1	0.89	0.15	48,48,48,48	0
56	MG	1A	3416	1/1	0.89	0.22	36,36,36,36	0
56	MG	2A	3839	1/1	0.89	0.10	35,35,35,35	0
56	MG	2A	3575	1/1	0.89	0.20	65,65,65,65	0
56	MG	2A	3845	1/1	0.89	0.09	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3581	1/1	0.89	0.11	46,46,46,46	0
56	MG	2A	3583	1/1	0.89	0.08	61,61,61,61	0
56	MG	1a	1680	1/1	0.89	0.15	63,63,63,63	0
56	MG	1B	236	1/1	0.89	0.14	49,49,49,49	0
56	MG	1a	1827	1/1	0.89	0.15	52,52,52,52	0
56	MG	1A	3613	1/1	0.89	0.15	42,42,42,42	0
56	MG	1A	4019	1/1	0.89	0.14	22,22,22,22	0
56	MG	1A	3490	1/1	0.89	0.23	35,35,35,35	0
56	MG	2A	3603	1/1	0.89	0.09	60,60,60,60	0
56	MG	2A	3183	1/1	0.89	0.20	52,52,52,52	0
56	MG	1A	4026	1/1	0.89	0.12	35,35,35,35	0
56	MG	2A	3189	1/1	0.89	0.20	60,60,60,60	0
56	MG	1A	3063	1/1	0.89	0.16	43,43,43,43	0
56	MG	2A	3873	1/1	0.89	0.40	75,75,75,75	0
56	MG	1A	3419	1/1	0.89	0.11	32,32,32,32	0
56	MG	1a	1695	1/1	0.89	0.27	52,52,52,52	0
56	MG	2A	3885	1/1	0.89	0.24	59,59,59,59	0
56	MG	2A	3198	1/1	0.89	0.15	68,68,68,68	0
56	MG	2A	3619	1/1	0.89	0.12	36,36,36,36	0
56	MG	2B	209	1/1	0.89	0.17	59,59,59,59	0
56	MG	1A	3420	1/1	0.89	0.15	51,51,51,51	0
56	MG	1x	103	1/1	0.89	0.15	48,48,48,48	0
56	MG	2A	3627	1/1	0.89	0.13	44,44,44,44	0
56	MG	1A	3209	1/1	0.89	0.17	38,38,38,38	0
56	MG	1A	3159	1/1	0.89	0.30	30,30,30,30	0
56	MG	2A	3643	1/1	0.89	0.11	62,62,62,62	0
56	MG	2A	3206	1/1	0.89	0.32	53,53,53,53	0
56	MG	2D	309	1/1	0.89	0.20	35,35,35,35	0
56	MG	2F	301	1/1	0.89	0.35	46,46,46,46	0
56	MG	1A	3379	1/1	0.89	0.15	48,48,48,48	0
56	MG	2a	3214	1/1	0.89	0.08	74,74,74,74	0
56	MG	2F	303	1/1	0.89	0.40	48,48,48,48	0
56	MG	2a	3220	1/1	0.89	0.06	63,63,63,63	0
56	MG	1A	3091	1/1	0.89	0.13	50,50,50,50	0
56	MG	1A	3940	1/1	0.89	0.14	28,28,28,28	0
56	MG	2A	3670	1/1	0.89	0.34	47,47,47,47	0
56	MG	1A	3646	1/1	0.89	0.16	30,30,30,30	0
56	MG	1A	3650	1/1	0.89	0.20	49,49,49,49	0
56	MG	1A	3306	1/1	0.89	0.21	41,41,41,41	0
56	MG	1A	3390	1/1	0.89	0.23	36,36,36,36	0
56	MG	2A	3686	1/1	0.89	0.18	53,53,53,53	0
56	MG	1A	3446	1/1	0.89	0.17	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1720	1/1	0.89	0.28	51,51,51,51	0
56	MG	2A	3689	1/1	0.89	0.09	59,59,59,59	0
56	MG	1A	3447	1/1	0.89	0.19	51,51,51,51	0
56	MG	1A	3956	1/1	0.89	0.23	45,45,45,45	0
56	MG	2A	3408	1/1	0.89	0.40	52,52,52,52	0
56	MG	2w	103	1/1	0.89	0.07	64,64,64,64	0
56	MG	2x	102	1/1	0.89	0.10	70,70,70,70	0
56	MG	1W	201	1/1	0.89	0.29	49,49,49,49	0
56	MG	1A	3957	1/1	0.89	0.08	50,50,50,50	0
56	MG	1Z	302	1/1	0.89	0.08	60,60,60,60	0
56	MG	1A	3450	1/1	0.89	0.43	50,50,50,50	0
56	MG	2A	3727	1/1	0.90	0.15	61,61,61,61	0
56	MG	1A	3055	1/1	0.90	0.15	23,23,23,23	0
56	MG	2A	3732	1/1	0.90	0.10	72,72,72,72	0
56	MG	1A	3168	1/1	0.90	0.48	40,40,40,40	0
56	MG	2A	3472	1/1	0.90	0.15	64,64,64,64	0
56	MG	1A	3025	1/1	0.90	0.15	30,30,30,30	0
56	MG	2a	3011	1/1	0.90	0.12	66,66,66,66	0
56	MG	1A	4065	1/1	0.90	0.13	36,36,36,36	0
56	MG	1a	1815	1/1	0.90	0.19	66,66,66,66	0
56	MG	2a	3017	1/1	0.90	0.10	71,71,71,71	0
56	MG	2A	3132	1/1	0.90	0.15	36,36,36,36	0
56	MG	2A	3748	1/1	0.90	0.42	68,68,68,68	0
56	MG	2A	3301	1/1	0.90	0.17	57,57,57,57	0
56	MG	1A	3586	1/1	0.90	0.36	31,31,31,31	0
56	MG	1A	3601	1/1	0.90	0.42	43,43,43,43	0
56	MG	2a	3028	1/1	0.90	0.09	62,62,62,62	0
56	MG	2A	3761	1/1	0.90	0.18	62,62,62,62	0
56	MG	1a	1819	1/1	0.90	0.21	68,68,68,68	0
56	MG	1T	203	1/1	0.90	0.13	53,53,53,53	0
56	MG	1T	204	1/1	0.90	0.10	59,59,59,59	0
56	MG	1A	3604	1/1	0.90	0.17	27,27,27,27	0
56	MG	1A	4071	1/1	0.90	0.14	51,51,51,51	0
56	MG	2A	3317	1/1	0.90	0.45	49,49,49,49	0
56	MG	2A	3777	1/1	0.90	0.23	47,47,47,47	0
56	MG	1a	1699	1/1	0.90	0.30	47,47,47,47	0
56	MG	1A	3051	1/1	0.90	0.28	31,31,31,31	0
56	MG	1A	3791	1/1	0.90	0.24	63,63,63,63	0
56	MG	2A	3782	1/1	0.90	0.08	55,55,55,55	0
56	MG	2A	3783	1/1	0.90	0.15	58,58,58,58	0
56	MG	2A	3786	1/1	0.90	0.12	51,51,51,51	0
56	MG	1A	3308	1/1	0.90	0.17	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3329	1/1	0.90	0.14	60,60,60,60	0
56	MG	2a	3059	1/1	0.90	0.08	80,80,80,80	0
56	MG	1A	3253	1/1	0.90	0.13	54,54,54,54	0
56	MG	1A	3609	1/1	0.90	0.20	25,25,25,25	0
56	MG	1A	3290	1/1	0.90	0.18	40,40,40,40	0
56	MG	1A	4085	1/1	0.90	0.17	17,17,17,17	0
56	MG	1A	3424	1/1	0.90	0.17	48,48,48,48	0
56	MG	1A	3942	1/1	0.90	0.13	51,51,51,51	0
56	MG	1x	107	1/1	0.90	0.23	49,49,49,49	0
56	MG	15	104	1/1	0.90	0.24	42,42,42,42	0
56	MG	2A	3541	1/1	0.90	0.09	49,49,49,49	0
56	MG	2a	3081	1/1	0.90	0.14	60,60,60,60	0
56	MG	16	102	1/1	0.90	0.43	40,40,40,40	0
56	MG	1A	4013	1/1	0.90	0.07	62,62,62,62	0
56	MG	2a	3085	1/1	0.90	0.16	73,73,73,73	0
56	MG	18	105	1/1	0.90	0.14	45,45,45,45	0
56	MG	1x	115	1/1	0.90	0.17	64,64,64,64	0
56	MG	2a	3093	1/1	0.90	0.20	53,53,53,53	0
56	MG	2A	3553	1/1	0.90	0.12	49,49,49,49	0
56	MG	2A	3811	1/1	0.90	0.16	54,54,54,54	0
56	MG	1A	3428	1/1	0.90	0.09	56,56,56,56	0
56	MG	2A	3815	1/1	0.90	0.07	73,73,73,73	0
56	MG	2A	3561	1/1	0.90	0.15	36,36,36,36	0
56	MG	2a	3102	1/1	0.90	0.11	54,54,54,54	0
56	MG	1A	3393	1/1	0.90	0.21	43,43,43,43	0
56	MG	1A	4017	1/1	0.90	0.07	39,39,39,39	0
56	MG	1A	3316	1/1	0.90	0.21	40,40,40,40	0
56	MG	2a	3114	1/1	0.90	0.11	65,65,65,65	0
56	MG	1A	3363	1/1	0.90	0.20	51,51,51,51	0
56	MG	2A	3569	1/1	0.90	0.09	46,46,46,46	0
56	MG	2A	3359	1/1	0.90	0.39	51,51,51,51	0
56	MG	2A	3572	1/1	0.90	0.15	51,51,51,51	0
56	MG	1A	3010	1/1	0.90	0.20	36,36,36,36	0
56	MG	2A	3578	1/1	0.90	0.15	54,54,54,54	0
56	MG	2a	3132	1/1	0.90	0.14	54,54,54,54	0
56	MG	1A	3718	1/1	0.90	0.19	31,31,31,31	0
56	MG	1a	1622	1/1	0.90	0.10	40,40,40,40	0
56	MG	1A	3641	1/1	0.90	0.14	22,22,22,22	0
56	MG	2A	3586	1/1	0.90	0.09	60,60,60,60	0
56	MG	2A	3837	1/1	0.90	0.07	66,66,66,66	0
56	MG	2A	3212	1/1	0.90	0.25	66,66,66,66	0
56	MG	2A	3594	1/1	0.90	0.18	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3027	1/1	0.90	0.18	71,71,71,71	0
56	MG	2A	3215	1/1	0.90	0.14	56,56,56,56	0
56	MG	1a	1626	1/1	0.90	0.20	52,52,52,52	0
56	MG	1a	1758	1/1	0.90	0.12	32,32,32,32	0
56	MG	2A	3219	1/1	0.90	0.09	52,52,52,52	0
56	MG	1A	3724	1/1	0.90	0.09	53,53,53,53	0
56	MG	2A	3222	1/1	0.90	0.35	61,61,61,61	0
56	MG	2A	3380	1/1	0.90	0.13	75,75,75,75	0
56	MG	1a	1636	1/1	0.90	0.12	49,49,49,49	0
56	MG	1A	3365	1/1	0.90	0.09	55,55,55,55	0
56	MG	2a	3162	1/1	0.90	0.07	82,82,82,82	0
56	MG	1A	3443	1/1	0.90	0.20	49,49,49,49	0
56	MG	2A	3384	1/1	0.90	0.27	62,62,62,62	0
56	MG	2A	3046	1/1	0.90	0.13	48,48,48,48	0
56	MG	2A	3387	1/1	0.90	0.25	62,62,62,62	0
56	MG	1A	3866	1/1	0.90	0.14	22,22,22,22	0
56	MG	2A	3624	1/1	0.90	0.14	40,40,40,40	0
56	MG	2A	3238	1/1	0.90	0.22	45,45,45,45	0
56	MG	2A	3879	1/1	0.90	0.11	47,47,47,47	0
56	MG	2A	3881	1/1	0.90	0.15	62,62,62,62	0
56	MG	2A	3630	1/1	0.90	0.21	42,42,42,42	0
56	MG	2A	3635	1/1	0.90	0.29	61,61,61,61	0
56	MG	1a	1775	1/1	0.90	0.12	65,65,65,65	0
56	MG	1A	3491	1/1	0.90	0.13	38,38,38,38	0
56	MG	1A	3366	1/1	0.90	0.26	40,40,40,40	0
56	MG	1A	3967	1/1	0.90	0.12	46,46,46,46	0
56	MG	1A	3654	1/1	0.90	0.14	37,37,37,37	0
56	MG	2A	3249	1/1	0.90	0.30	55,55,55,55	0
56	MG	2A	3065	1/1	0.90	0.16	68,68,68,68	0
56	MG	2a	3194	1/1	0.90	0.14	55,55,55,55	0
56	MG	2D	302	1/1	0.90	0.16	55,55,55,55	0
56	MG	2D	303	1/1	0.90	0.33	42,42,42,42	0
56	MG	1A	3403	1/1	0.90	0.27	53,53,53,53	0
56	MG	2A	3070	1/1	0.90	0.28	56,56,56,56	0
56	MG	1D	306	1/1	0.90	0.30	33,33,33,33	0
56	MG	2a	3207	1/1	0.90	0.08	62,62,62,62	0
56	MG	1A	3971	1/1	0.90	0.31	32,32,32,32	0
56	MG	2E	301	1/1	0.90	0.15	49,49,49,49	0
56	MG	2A	3680	1/1	0.90	0.24	54,54,54,54	0
56	MG	1A	3878	1/1	0.90	0.41	30,30,30,30	0
56	MG	2A	3256	1/1	0.90	0.11	68,68,68,68	0
56	MG	2A	3075	1/1	0.90	0.23	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3662	1/1	0.90	0.15	19,19,19,19	0
56	MG	1A	3663	1/1	0.90	0.17	21,21,21,21	0
56	MG	1A	3748	1/1	0.90	0.16	47,47,47,47	0
56	MG	1a	1795	1/1	0.90	0.20	64,64,64,64	0
56	MG	1A	3081	1/1	0.90	0.15	27,27,27,27	0
56	MG	1F	309	1/1	0.90	0.16	53,53,53,53	0
56	MG	2A	3445	1/1	0.90	0.28	60,60,60,60	0
56	MG	2A	3446	1/1	0.90	0.14	63,63,63,63	0
56	MG	2l	201	1/1	0.90	0.25	55,55,55,55	0
56	MG	2l	204	1/1	0.90	0.12	72,72,72,72	0
56	MG	1G	201	1/1	0.90	0.20	43,43,43,43	0
56	MG	1A	3376	1/1	0.90	0.37	44,44,44,44	0
56	MG	1A	3898	1/1	0.90	0.19	32,32,32,32	0
56	MG	2A	3274	1/1	0.90	0.17	59,59,59,59	0
56	MG	1A	3406	1/1	0.90	0.33	43,43,43,43	0
56	MG	20	102	1/1	0.90	0.18	65,65,65,65	0
56	MG	1a	1676	1/1	0.90	0.10	72,72,72,72	0
56	MG	1A	3409	1/1	0.90	0.26	41,41,41,41	0
56	MG	2A	3284	1/1	0.90	0.29	59,59,59,59	0
56	MG	1A	3916	1/1	0.90	0.17	22,22,22,22	0
56	MG	1O	201	1/1	0.90	0.16	57,57,57,57	0
56	MG	1V	202	1/1	0.91	0.30	39,39,39,39	0
56	MG	2A	3671	1/1	0.91	0.08	59,59,59,59	0
56	MG	2A	3398	1/1	0.91	0.17	58,58,58,58	0
56	MG	1V	207	1/1	0.91	0.12	52,52,52,52	0
56	MG	2A	3226	1/1	0.91	0.52	57,57,57,57	0
56	MG	2A	3401	1/1	0.91	0.22	54,54,54,54	0
56	MG	1A	3328	1/1	0.91	0.19	48,48,48,48	0
56	MG	2A	3685	1/1	0.91	0.13	60,60,60,60	0
56	MG	1W	204	1/1	0.91	0.12	34,34,34,34	0
56	MG	2A	3231	1/1	0.91	0.23	50,50,50,50	0
56	MG	1A	3213	1/1	0.91	0.21	44,44,44,44	0
56	MG	23	102	1/1	0.91	0.18	45,45,45,45	0
56	MG	1Z	301	1/1	0.91	0.23	48,48,48,48	0
56	MG	2A	3690	1/1	0.91	0.08	40,40,40,40	0
56	MG	1A	3350	1/1	0.91	0.33	51,51,51,51	0
56	MG	10	101	1/1	0.91	0.13	38,38,38,38	0
56	MG	2A	3694	1/1	0.91	0.12	50,50,50,50	0
56	MG	1a	1718	1/1	0.91	0.14	53,53,53,53	0
56	MG	1a	1719	1/1	0.91	0.11	41,41,41,41	0
56	MG	2A	3701	1/1	0.91	0.13	58,58,58,58	0
56	MG	1A	3906	1/1	0.91	0.08	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3758	1/1	0.91	0.16	40,40,40,40	0
56	MG	2A	3427	1/1	0.91	0.23	42,42,42,42	0
56	MG	1A	3271	1/1	0.91	0.24	44,44,44,44	0
56	MG	11	105	1/1	0.91	0.19	53,53,53,53	0
56	MG	1a	1728	1/1	0.91	0.21	51,51,51,51	0
56	MG	1A	3671	1/1	0.91	0.11	29,29,29,29	0
56	MG	1A	3994	1/1	0.91	0.07	70,70,70,70	0
56	MG	1A	3459	1/1	0.91	0.12	49,49,49,49	0
56	MG	1A	3768	1/1	0.91	0.15	38,38,38,38	0
56	MG	1A	3680	1/1	0.91	0.27	38,38,38,38	0
56	MG	2A	3723	1/1	0.91	0.11	51,51,51,51	0
56	MG	1A	3273	1/1	0.91	0.28	35,35,35,35	0
56	MG	2A	3449	1/1	0.91	0.21	56,56,56,56	0
56	MG	2a	3032	1/1	0.91	0.18	65,65,65,65	0
56	MG	1A	3775	1/1	0.91	0.18	21,21,21,21	0
56	MG	2A	3454	1/1	0.91	0.17	50,50,50,50	0
56	MG	18	103	1/1	0.91	0.13	22,22,22,22	0
56	MG	1A	3499	1/1	0.91	0.16	44,44,44,44	0
56	MG	2A	3736	1/1	0.91	0.24	57,57,57,57	0
56	MG	2A	3458	1/1	0.91	0.14	53,53,53,53	0
56	MG	2A	3066	1/1	0.91	0.09	51,51,51,51	0
56	MG	1A	3500	1/1	0.91	0.18	37,37,37,37	0
56	MG	1a	1602	1/1	0.91	0.17	61,61,61,61	0
56	MG	2A	3269	1/1	0.91	0.13	53,53,53,53	0
56	MG	1a	1603	1/1	0.91	0.27	61,61,61,61	0
56	MG	2A	3466	1/1	0.91	0.19	47,47,47,47	0
56	MG	2A	3754	1/1	0.91	0.43	67,67,67,67	0
56	MG	1A	3467	1/1	0.91	0.13	46,46,46,46	0
56	MG	1A	3582	1/1	0.91	0.18	30,30,30,30	0
56	MG	1a	1763	1/1	0.91	0.14	62,62,62,62	0
56	MG	2A	3765	1/1	0.91	0.11	53,53,53,53	0
56	MG	2A	3275	1/1	0.91	0.12	59,59,59,59	0
56	MG	1a	1765	1/1	0.91	0.16	51,51,51,51	0
56	MG	2A	3475	1/1	0.91	0.32	56,56,56,56	0
56	MG	2A	3280	1/1	0.91	0.15	57,57,57,57	0
56	MG	2A	3281	1/1	0.91	0.07	70,70,70,70	0
56	MG	2A	3773	1/1	0.91	0.23	73,73,73,73	0
56	MG	2a	3072	1/1	0.91	0.14	51,51,51,51	0
56	MG	2a	3076	1/1	0.91	0.08	53,53,53,53	0
56	MG	2A	3081	1/1	0.91	0.41	52,52,52,52	0
56	MG	2a	3078	1/1	0.91	0.22	50,50,50,50	0
56	MG	1B	206	1/1	0.91	0.14	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3191	1/1	0.91	0.09	43,43,43,43	0
56	MG	1A	3796	1/1	0.91	0.18	20,20,20,20	0
56	MG	2A	3488	1/1	0.91	0.15	56,56,56,56	0
56	MG	2A	3286	1/1	0.91	0.16	56,56,56,56	0
56	MG	2A	3784	1/1	0.91	0.32	64,64,64,64	0
56	MG	1a	1617	1/1	0.91	0.15	53,53,53,53	0
56	MG	1A	3195	1/1	0.91	0.15	55,55,55,55	0
56	MG	2A	3090	1/1	0.91	0.30	45,45,45,45	0
56	MG	2A	3091	1/1	0.91	0.29	48,48,48,48	0
56	MG	2A	3496	1/1	0.91	0.08	55,55,55,55	0
56	MG	2A	3093	1/1	0.91	0.23	37,37,37,37	0
56	MG	1A	3309	1/1	0.91	0.18	38,38,38,38	0
56	MG	2A	3504	1/1	0.91	0.16	49,49,49,49	0
56	MG	2A	3298	1/1	0.91	0.12	57,57,57,57	0
56	MG	1A	3427	1/1	0.91	0.18	43,43,43,43	0
56	MG	1A	3399	1/1	0.91	0.19	48,48,48,48	0
56	MG	2a	3110	1/1	0.91	0.10	62,62,62,62	0
56	MG	2A	3511	1/1	0.91	0.12	58,58,58,58	0
56	MG	2A	3514	1/1	0.91	0.13	67,67,67,67	0
56	MG	1A	3056	1/1	0.91	0.16	45,45,45,45	0
56	MG	1a	1630	1/1	0.91	0.17	60,60,60,60	0
56	MG	2A	3521	1/1	0.91	0.11	38,38,38,38	0
56	MG	2a	3126	1/1	0.91	0.12	66,66,66,66	0
56	MG	1a	1631	1/1	0.91	0.12	33,33,33,33	0
56	MG	2A	3810	1/1	0.91	0.32	78,78,78,78	0
56	MG	1A	3521	1/1	0.91	0.10	47,47,47,47	0
56	MG	2A	3526	1/1	0.91	0.09	30,30,30,30	0
56	MG	2A	3527	1/1	0.91	0.16	44,44,44,44	0
56	MG	2A	3816	1/1	0.91	0.29	68,68,68,68	0
56	MG	1A	3951	1/1	0.91	0.10	42,42,42,42	0
56	MG	1A	3285	1/1	0.91	0.32	26,26,26,26	0
56	MG	1A	4029	1/1	0.91	0.12	50,50,50,50	0
56	MG	1a	1643	1/1	0.91	0.15	51,51,51,51	0
56	MG	2A	3319	1/1	0.91	0.15	53,53,53,53	0
56	MG	2A	3542	1/1	0.91	0.10	46,46,46,46	0
56	MG	1a	1645	1/1	0.91	0.14	52,52,52,52	0
56	MG	1A	4030	1/1	0.91	0.08	61,61,61,61	0
56	MG	1A	3812	1/1	0.91	0.11	54,54,54,54	0
56	MG	1A	3524	1/1	0.91	0.20	51,51,51,51	0
56	MG	2a	3152	1/1	0.91	0.20	70,70,70,70	0
56	MG	1A	3140	1/1	0.91	0.26	40,40,40,40	0
56	MG	2A	3144	1/1	0.91	0.21	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3832	1/1	0.91	0.15	38,38,38,38	0
56	MG	1A	3369	1/1	0.91	0.12	44,44,44,44	0
56	MG	2a	3158	1/1	0.91	0.14	54,54,54,54	0
56	MG	2a	3159	1/1	0.91	0.07	56,56,56,56	0
56	MG	1A	3715	1/1	0.91	0.17	48,48,48,48	0
56	MG	1E	308	1/1	0.91	0.12	31,31,31,31	0
56	MG	1E	310	1/1	0.91	0.16	61,61,61,61	0
56	MG	1a	1809	1/1	0.91	0.13	72,72,72,72	0
56	MG	2A	3841	1/1	0.91	0.09	47,47,47,47	0
56	MG	2a	3169	1/1	0.91	0.10	77,77,77,77	0
56	MG	1A	3961	1/1	0.91	0.11	56,56,56,56	0
56	MG	1A	3532	1/1	0.91	0.21	52,52,52,52	0
56	MG	1A	3483	1/1	0.91	0.11	59,59,59,59	0
56	MG	2A	3574	1/1	0.91	0.14	46,46,46,46	0
56	MG	2A	3342	1/1	0.91	0.10	55,55,55,55	0
56	MG	1A	3370	1/1	0.91	0.14	40,40,40,40	0
56	MG	2A	3164	1/1	0.91	0.12	48,48,48,48	0
56	MG	1A	3965	1/1	0.91	0.10	49,49,49,49	0
56	MG	1A	3536	1/1	0.91	0.12	69,69,69,69	0
56	MG	1A	3861	1/1	0.91	0.27	61,61,61,61	0
56	MG	1I	201	1/1	0.91	0.14	61,61,61,61	0
56	MG	1A	3485	1/1	0.91	0.24	42,42,42,42	0
56	MG	2A	3595	1/1	0.91	0.23	65,65,65,65	0
56	MG	2a	3190	1/1	0.91	0.09	77,77,77,77	0
56	MG	2A	3357	1/1	0.91	0.13	50,50,50,50	0
56	MG	1a	1674	1/1	0.91	0.17	53,53,53,53	0
56	MG	2A	3178	1/1	0.91	0.09	48,48,48,48	0
56	MG	1a	1675	1/1	0.91	0.20	64,64,64,64	0
56	MG	2A	3878	1/1	0.91	0.23	38,38,38,38	0
56	MG	1A	3291	1/1	0.91	0.12	32,32,32,32	0
56	MG	1a	1833	1/1	0.91	0.23	43,43,43,43	0
56	MG	2a	3203	1/1	0.91	0.14	63,63,63,63	0
56	MG	2A	3606	1/1	0.91	0.18	62,62,62,62	0
56	MG	2a	3208	1/1	0.91	0.08	69,69,69,69	0
56	MG	1A	4050	1/1	0.91	0.09	46,46,46,46	0
56	MG	1A	3972	1/1	0.91	0.15	43,43,43,43	0
56	MG	1A	3539	1/1	0.91	0.32	45,45,45,45	0
56	MG	2B	204	1/1	0.91	0.18	61,61,61,61	0
56	MG	1A	3541	1/1	0.91	0.17	43,43,43,43	0
56	MG	2a	3223	1/1	0.91	0.18	64,64,64,64	0
56	MG	2a	3224	1/1	0.91	0.12	61,61,61,61	0
56	MG	2B	211	1/1	0.91	0.17	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3977	1/1	0.91	0.21	59,59,59,59	0
56	MG	1v	101	1/1	0.91	0.14	65,65,65,65	0
56	MG	2B	214	1/1	0.91	0.19	62,62,62,62	0
56	MG	1a	1686	1/1	0.91	0.14	62,62,62,62	0
56	MG	1w	104	1/1	0.91	0.17	72,72,72,72	0
56	MG	2a	3240	1/1	0.91	0.14	67,67,67,67	0
56	MG	1A	3545	1/1	0.91	0.15	46,46,46,46	0
56	MG	1A	3737	1/1	0.91	0.11	41,41,41,41	0
56	MG	2D	304	1/1	0.91	0.54	57,57,57,57	0
56	MG	1w	112	1/1	0.91	0.12	53,53,53,53	0
56	MG	1A	3487	1/1	0.91	0.12	44,44,44,44	0
56	MG	2A	3632	1/1	0.91	0.12	39,39,39,39	0
56	MG	1Q	207	1/1	0.91	0.09	44,44,44,44	0
56	MG	2A	3636	1/1	0.91	0.47	55,55,55,55	0
56	MG	1Q	208	1/1	0.91	0.41	47,47,47,47	0
56	MG	1S	203	1/1	0.91	0.14	66,66,66,66	0
56	MG	1T	202	1/1	0.91	0.16	45,45,45,45	0
56	MG	2F	304	1/1	0.91	0.18	54,54,54,54	0
56	MG	2A	3390	1/1	0.91	0.24	54,54,54,54	0
56	MG	2x	104	1/1	0.91	0.10	62,62,62,62	0
56	MG	2y	101	1/1	0.91	0.19	60,60,60,60	0
56	MG	1A	3740	1/1	0.91	0.13	49,49,49,49	0
56	MG	1A	3124	1/1	0.91	0.18	46,46,46,46	0
56	MG	1A	3189	1/1	0.91	0.65	47,47,47,47	0
56	MG	2A	3645	1/1	0.92	0.14	37,37,37,37	0
56	MG	1A	3574	1/1	0.92	0.24	40,40,40,40	0
56	MG	2A	3656	1/1	0.92	0.15	59,59,59,59	0
56	MG	1a	1635	1/1	0.92	0.09	55,55,55,55	0
56	MG	2R	202	1/1	0.92	0.12	47,47,47,47	0
56	MG	1A	3437	1/1	0.92	0.10	53,53,53,53	0
56	MG	1a	1637	1/1	0.92	0.29	54,54,54,54	0
56	MG	1A	3289	1/1	0.92	0.11	49,49,49,49	0
56	MG	1A	3026	1/1	0.92	0.13	45,45,45,45	0
56	MG	1A	3700	1/1	0.92	0.18	25,25,25,25	0
56	MG	1B	213	1/1	0.92	0.13	56,56,56,56	0
56	MG	2Z	301	1/1	0.92	0.10	72,72,72,72	0
56	MG	1A	3986	1/1	0.92	0.24	70,70,70,70	0
56	MG	1A	3848	1/1	0.92	0.13	54,54,54,54	0
56	MG	20	103	1/1	0.92	0.25	66,66,66,66	0
56	MG	2A	3681	1/1	0.92	0.15	54,54,54,54	0
56	MG	25	101	1/1	0.92	0.16	58,58,58,58	0
56	MG	1B	224	1/1	0.92	0.21	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3849	1/1	0.92	0.11	52,52,52,52	0
56	MG	1a	1821	1/1	0.92	0.05	53,53,53,53	0
56	MG	1A	3851	1/1	0.92	0.17	11,11,11,11	0
56	MG	2A	3201	1/1	0.92	0.27	70,70,70,70	0
56	MG	1a	1823	1/1	0.92	0.06	59,59,59,59	0
56	MG	1A	3580	1/1	0.92	0.35	29,29,29,29	0
56	MG	1B	230	1/1	0.92	0.07	61,61,61,61	0
56	MG	1A	3860	1/1	0.92	0.19	36,36,36,36	0
56	MG	1a	1829	1/1	0.92	0.14	43,43,43,43	0
56	MG	2A	3410	1/1	0.92	0.27	70,70,70,70	0
56	MG	1A	3705	1/1	0.92	0.23	28,28,28,28	0
56	MG	2A	3213	1/1	0.92	0.15	61,61,61,61	0
56	MG	1A	3084	1/1	0.92	0.15	33,33,33,33	0
56	MG	1a	1662	1/1	0.92	0.17	60,60,60,60	0
56	MG	1A	3867	1/1	0.92	0.11	55,55,55,55	0
56	MG	2a	3021	1/1	0.92	0.07	69,69,69,69	0
56	MG	1A	3707	1/1	0.92	0.17	25,25,25,25	0
56	MG	2A	3422	1/1	0.92	0.10	42,42,42,42	0
56	MG	1A	3243	1/1	0.92	0.42	33,33,33,33	0
56	MG	2a	3026	1/1	0.92	0.36	60,60,60,60	0
56	MG	1D	312	1/1	0.92	0.21	37,37,37,37	0
56	MG	1A	3043	1/1	0.92	0.23	33,33,33,33	0
56	MG	2A	3433	1/1	0.92	0.22	49,49,49,49	0
56	MG	2A	3438	1/1	0.92	0.25	56,56,56,56	0
56	MG	2A	3718	1/1	0.92	0.16	41,41,41,41	0
56	MG	2A	3719	1/1	0.92	0.08	60,60,60,60	0
56	MG	1a	1670	1/1	0.92	0.09	60,60,60,60	0
56	MG	2A	3440	1/1	0.92	0.18	61,61,61,61	0
56	MG	1w	106	1/1	0.92	0.06	61,61,61,61	0
56	MG	1E	302	1/1	0.92	0.21	47,47,47,47	0
56	MG	1A	3589	1/1	0.92	0.17	35,35,35,35	0
56	MG	1w	111	1/1	0.92	0.07	69,69,69,69	0
56	MG	1A	3590	1/1	0.92	0.14	26,26,26,26	0
56	MG	1A	3882	1/1	0.92	0.18	44,44,44,44	0
56	MG	1A	3597	1/1	0.92	0.19	49,49,49,49	0
56	MG	1A	3005	1/1	0.92	0.15	37,37,37,37	0
56	MG	2A	3240	1/1	0.92	0.14	51,51,51,51	0
56	MG	1A	3602	1/1	0.92	0.10	47,47,47,47	0
56	MG	1a	1678	1/1	0.92	0.30	59,59,59,59	0
56	MG	2a	3058	1/1	0.92	0.10	74,74,74,74	0
56	MG	1A	3206	1/1	0.92	0.18	42,42,42,42	0
56	MG	1A	3454	1/1	0.92	0.59	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1x	113	1/1	0.92	0.10	65,65,65,65	0
56	MG	1a	1681	1/1	0.92	0.21	56,56,56,56	0
56	MG	2a	3063	1/1	0.92	0.11	63,63,63,63	0
56	MG	1A	3896	1/1	0.92	0.24	60,60,60,60	0
56	MG	2A	3464	1/1	0.92	0.15	63,63,63,63	0
56	MG	1A	3897	1/1	0.92	0.11	56,56,56,56	0
56	MG	2A	3763	1/1	0.92	0.09	60,60,60,60	0
56	MG	2A	3764	1/1	0.92	0.08	44,44,44,44	0
56	MG	1A	3050	1/1	0.92	0.21	21,21,21,21	0
56	MG	1A	4022	1/1	0.92	0.08	31,31,31,31	0
56	MG	2A	3469	1/1	0.92	0.19	64,64,64,64	0
56	MG	1A	3727	1/1	0.92	0.16	39,39,39,39	0
56	MG	1A	3059	1/1	0.92	0.24	47,47,47,47	0
56	MG	2A	3010	1/1	0.92	0.17	46,46,46,46	0
56	MG	2a	3083	1/1	0.92	0.45	65,65,65,65	0
56	MG	1A	3513	1/1	0.92	0.16	63,63,63,63	0
56	MG	1A	3515	1/1	0.92	0.18	47,47,47,47	0
56	MG	2A	3015	1/1	0.92	0.13	39,39,39,39	0
56	MG	2A	3016	1/1	0.92	0.17	57,57,57,57	0
56	MG	2a	3092	1/1	0.92	0.09	77,77,77,77	0
56	MG	1A	3257	1/1	0.92	0.17	58,58,58,58	0
56	MG	2A	3025	1/1	0.92	0.11	44,44,44,44	0
56	MG	1A	3258	1/1	0.92	0.35	25,25,25,25	0
56	MG	1A	3463	1/1	0.92	0.45	47,47,47,47	0
56	MG	2A	3785	1/1	0.92	0.08	53,53,53,53	0
56	MG	1A	3465	1/1	0.92	0.68	48,48,48,48	0
56	MG	1A	3744	1/1	0.92	0.13	50,50,50,50	0
56	MG	2a	3104	1/1	0.92	0.21	54,54,54,54	0
56	MG	2A	3034	1/1	0.92	0.17	56,56,56,56	0
56	MG	1A	3926	1/1	0.92	0.12	28,28,28,28	0
56	MG	2A	3278	1/1	0.92	0.09	65,65,65,65	0
56	MG	2a	3108	1/1	0.92	0.07	65,65,65,65	0
56	MG	1A	3632	1/1	0.92	0.16	34,34,34,34	0
56	MG	2a	3112	1/1	0.92	0.32	62,62,62,62	0
56	MG	2A	3795	1/1	0.92	0.17	55,55,55,55	0
56	MG	1S	201	1/1	0.92	0.66	40,40,40,40	0
56	MG	1A	3352	1/1	0.92	0.42	41,41,41,41	0
56	MG	2A	3499	1/1	0.92	0.16	47,47,47,47	0
56	MG	1A	3929	1/1	0.92	0.17	39,39,39,39	0
56	MG	2a	3123	1/1	0.92	0.23	68,68,68,68	0
56	MG	1A	3357	1/1	0.92	0.17	48,48,48,48	0
56	MG	2A	3052	1/1	0.92	0.09	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3640	1/1	0.92	0.28	49,49,49,49	0
56	MG	1A	4041	1/1	0.92	0.11	42,42,42,42	0
56	MG	1U	205	1/1	0.92	0.65	38,38,38,38	0
56	MG	2A	3289	1/1	0.92	0.52	61,61,61,61	0
56	MG	2A	3061	1/1	0.92	0.27	63,63,63,63	0
56	MG	1U	209	1/1	0.92	0.79	44,44,44,44	0
56	MG	2A	3519	1/1	0.92	0.13	33,33,33,33	0
56	MG	1A	3531	1/1	0.92	0.45	47,47,47,47	0
56	MG	2A	3814	1/1	0.92	0.25	60,60,60,60	0
56	MG	1A	3761	1/1	0.92	0.18	36,36,36,36	0
56	MG	2A	3524	1/1	0.92	0.38	69,69,69,69	0
56	MG	1A	3936	1/1	0.92	0.09	14,14,14,14	0
56	MG	1A	3764	1/1	0.92	0.17	14,14,14,14	0
56	MG	1W	205	1/1	0.92	0.13	39,39,39,39	0
56	MG	2A	3529	1/1	0.92	0.16	52,52,52,52	0
56	MG	2A	3300	1/1	0.92	0.10	52,52,52,52	0
56	MG	1A	3312	1/1	0.92	0.10	34,34,34,34	0
56	MG	2A	3533	1/1	0.92	0.14	60,60,60,60	0
56	MG	2A	3535	1/1	0.92	0.14	51,51,51,51	0
56	MG	2A	3537	1/1	0.92	0.11	56,56,56,56	0
56	MG	1A	3163	1/1	0.92	0.24	48,48,48,48	0
56	MG	1A	3408	1/1	0.92	0.40	32,32,32,32	0
56	MG	1A	3080	1/1	0.92	0.17	47,47,47,47	0
56	MG	1a	1736	1/1	0.92	0.18	46,46,46,46	0
56	MG	1A	3265	1/1	0.92	0.20	43,43,43,43	0
56	MG	1A	4055	1/1	0.92	0.07	41,41,41,41	0
56	MG	1A	3214	1/1	0.92	0.11	57,57,57,57	0
56	MG	1A	3773	1/1	0.92	0.11	46,46,46,46	0
56	MG	1A	3167	1/1	0.92	0.14	38,38,38,38	0
56	MG	1A	3417	1/1	0.92	0.18	48,48,48,48	0
56	MG	2A	3556	1/1	0.92	0.18	50,50,50,50	0
56	MG	1A	3542	1/1	0.92	0.23	37,37,37,37	0
56	MG	1A	3781	1/1	0.92	0.17	41,41,41,41	0
56	MG	2A	3324	1/1	0.92	0.36	49,49,49,49	0
56	MG	2A	3849	1/1	0.92	0.08	63,63,63,63	0
56	MG	2A	3565	1/1	0.92	0.18	68,68,68,68	0
56	MG	1A	3112	1/1	0.92	0.24	35,35,35,35	0
56	MG	2A	3095	1/1	0.92	0.07	59,59,59,59	0
56	MG	15	105	1/1	0.92	0.18	49,49,49,49	0
56	MG	2A	3857	1/1	0.92	0.22	66,66,66,66	0
56	MG	1A	3325	1/1	0.92	0.23	26,26,26,26	0
56	MG	1A	3789	1/1	0.92	0.09	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	17	104	1/1	0.92	0.15	37,37,37,37	0
56	MG	2A	3108	1/1	0.92	0.12	65,65,65,65	0
56	MG	2a	3195	1/1	0.92	0.18	52,52,52,52	0
56	MG	2A	3111	1/1	0.92	0.18	59,59,59,59	0
56	MG	2A	3579	1/1	0.92	0.19	45,45,45,45	0
56	MG	2a	3198	1/1	0.92	0.11	62,62,62,62	0
56	MG	17	105	1/1	0.92	0.21	37,37,37,37	0
56	MG	17	106	1/1	0.92	0.21	25,25,25,25	0
56	MG	2A	3340	1/1	0.92	0.16	53,53,53,53	0
56	MG	1a	1777	1/1	0.92	0.18	59,59,59,59	0
56	MG	1a	1778	1/1	0.92	0.14	55,55,55,55	0
56	MG	1A	3548	1/1	0.92	0.37	46,46,46,46	0
56	MG	1A	3368	1/1	0.92	0.16	37,37,37,37	0
56	MG	1A	3678	1/1	0.92	0.16	23,23,23,23	0
56	MG	1A	3327	1/1	0.92	0.24	36,36,36,36	0
56	MG	2B	201	1/1	0.92	0.16	66,66,66,66	0
56	MG	2a	3219	1/1	0.92	0.12	68,68,68,68	0
56	MG	2A	3600	1/1	0.92	0.16	56,56,56,56	0
56	MG	2B	203	1/1	0.92	0.18	60,60,60,60	0
56	MG	2A	3351	1/1	0.92	0.33	59,59,59,59	0
56	MG	2B	208	1/1	0.92	0.10	59,59,59,59	0
56	MG	1A	4079	1/1	0.92	0.23	53,53,53,53	0
56	MG	2a	3230	1/1	0.92	0.29	65,65,65,65	0
56	MG	1A	3016	1/1	0.92	0.20	45,45,45,45	0
56	MG	1A	3562	1/1	0.92	0.27	43,43,43,43	0
56	MG	1A	3683	1/1	0.92	0.21	20,20,20,20	0
56	MG	1A	3230	1/1	0.92	0.14	36,36,36,36	0
56	MG	1A	3188	1/1	0.92	0.08	37,37,37,37	0
56	MG	2d	301	1/1	0.92	0.09	65,65,65,65	0
56	MG	1a	1792	1/1	0.92	0.08	60,60,60,60	0
56	MG	2A	3362	1/1	0.92	0.18	43,43,43,43	0
56	MG	2i	201	1/1	0.92	0.08	62,62,62,62	0
56	MG	1A	4090	1/1	0.92	0.23	53,53,53,53	0
56	MG	2A	3365	1/1	0.92	0.27	54,54,54,54	0
56	MG	1a	1618	1/1	0.92	0.21	49,49,49,49	0
56	MG	2A	3156	1/1	0.92	0.13	54,54,54,54	0
56	MG	1A	3973	1/1	0.92	0.20	50,50,50,50	0
56	MG	1A	3809	1/1	0.92	0.17	39,39,39,39	0
56	MG	1A	3284	1/1	0.92	0.58	35,35,35,35	0
56	MG	2E	304	1/1	0.92	0.08	43,43,43,43	0
56	MG	1a	1625	1/1	0.92	0.15	55,55,55,55	0
56	MG	2A	3374	1/1	0.92	0.08	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	3815	1/1	0.92	0.15	28,28,28,28	0
56	MG	2A	3166	1/1	0.92	0.14	50,50,50,50	0
56	MG	1a	1802	1/1	0.92	0.13	63,63,63,63	0
56	MG	1A	3380	1/1	0.92	0.18	48,48,48,48	0
56	MG	2y	104	1/1	0.92	0.13	50,50,50,50	0
56	MG	2P	202	1/1	0.92	0.16	47,47,47,47	0
56	MG	1A	3235	1/1	0.92	0.14	59,59,59,59	0
56	MG	2A	3244	1/1	0.93	0.23	43,43,43,43	0
56	MG	2A	3245	1/1	0.93	0.26	47,47,47,47	0
56	MG	2A	3437	1/1	0.93	0.23	56,56,56,56	0
56	MG	1A	3881	1/1	0.93	0.19	36,36,36,36	0
56	MG	1a	1740	1/1	0.93	0.18	43,43,43,43	0
56	MG	1A	3264	1/1	0.93	0.17	36,36,36,36	0
56	MG	2A	3039	1/1	0.93	0.14	65,65,65,65	0
56	MG	2A	3693	1/1	0.93	0.13	62,62,62,62	0
56	MG	1A	4098	1/1	0.93	0.11	50,50,50,50	0
56	MG	25	102	1/1	0.93	0.10	50,50,50,50	0
56	MG	2A	3444	1/1	0.93	0.13	57,57,57,57	0
56	MG	1A	3883	1/1	0.93	0.09	66,66,66,66	0
56	MG	1a	1750	1/1	0.93	0.07	39,39,39,39	0
56	MG	28	101	1/1	0.93	0.28	66,66,66,66	0
56	MG	17	108	1/1	0.93	0.15	45,45,45,45	0
56	MG	18	102	1/1	0.93	0.44	41,41,41,41	0
56	MG	2A	3050	1/1	0.93	0.20	57,57,57,57	0
56	MG	2A	3709	1/1	0.93	0.23	48,48,48,48	0
56	MG	1A	3651	1/1	0.93	0.12	37,37,37,37	0
56	MG	2A	3453	1/1	0.93	0.15	52,52,52,52	0
56	MG	2A	3259	1/1	0.93	0.14	60,60,60,60	0
56	MG	2A	3261	1/1	0.93	0.15	59,59,59,59	0
56	MG	1a	1755	1/1	0.93	0.08	88,88,88,88	0
56	MG	2a	3012	1/1	0.93	0.11	70,70,70,70	0
56	MG	1A	3242	1/1	0.93	0.23	22,22,22,22	0
56	MG	2A	3054	1/1	0.93	0.10	63,63,63,63	0
56	MG	2A	3460	1/1	0.93	0.14	57,57,57,57	0
56	MG	2a	3019	1/1	0.93	0.13	54,54,54,54	0
56	MG	2A	3055	1/1	0.93	0.26	53,53,53,53	0
56	MG	1A	3657	1/1	0.93	0.10	44,44,44,44	0
56	MG	1A	3658	1/1	0.93	0.11	42,42,42,42	0
56	MG	1A	3993	1/1	0.93	0.14	27,27,27,27	0
56	MG	1A	3267	1/1	0.93	0.27	40,40,40,40	0
56	MG	1A	3995	1/1	0.93	0.06	61,61,61,61	0
56	MG	1A	3301	1/1	0.93	0.26	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1767	1/1	0.93	0.10	67,67,67,67	0
56	MG	1a	1770	1/1	0.93	0.10	49,49,49,49	0
56	MG	1a	1771	1/1	0.93	0.12	40,40,40,40	0
56	MG	1A	3462	1/1	0.93	0.58	54,54,54,54	0
56	MG	1A	3371	1/1	0.93	0.21	46,46,46,46	0
56	MG	2A	3742	1/1	0.93	0.09	72,72,72,72	0
56	MG	2a	3039	1/1	0.93	0.16	55,55,55,55	0
56	MG	1B	221	1/1	0.93	0.20	56,56,56,56	0
56	MG	2A	3076	1/1	0.93	0.21	31,31,31,31	0
56	MG	2A	3747	1/1	0.93	0.19	66,66,66,66	0
56	MG	2A	3478	1/1	0.93	0.10	43,43,43,43	0
56	MG	2A	3749	1/1	0.93	0.23	58,58,58,58	0
56	MG	1B	223	1/1	0.93	0.21	51,51,51,51	0
56	MG	2A	3078	1/1	0.93	0.14	59,59,59,59	0
56	MG	2A	3482	1/1	0.93	0.49	42,42,42,42	0
56	MG	2A	3757	1/1	0.93	0.08	66,66,66,66	0
56	MG	1A	3302	1/1	0.93	0.31	52,52,52,52	0
56	MG	1a	1621	1/1	0.93	0.09	51,51,51,51	0
56	MG	1B	225	1/1	0.93	0.14	53,53,53,53	0
56	MG	2A	3487	1/1	0.93	0.17	48,48,48,48	0
56	MG	1A	3377	1/1	0.93	0.17	47,47,47,47	0
56	MG	2A	3489	1/1	0.93	0.31	62,62,62,62	0
56	MG	1a	1785	1/1	0.93	0.08	65,65,65,65	0
56	MG	1A	3668	1/1	0.93	0.14	21,21,21,21	0
56	MG	2A	3293	1/1	0.93	0.07	52,52,52,52	0
56	MG	1A	3911	1/1	0.93	0.08	55,55,55,55	0
56	MG	1A	3915	1/1	0.93	0.15	26,26,26,26	0
56	MG	2A	3772	1/1	0.93	0.07	66,66,66,66	0
56	MG	1A	4009	1/1	0.93	0.21	23,23,23,23	0
56	MG	1A	4011	1/1	0.93	0.27	65,65,65,65	0
56	MG	2A	3498	1/1	0.93	0.18	58,58,58,58	0
56	MG	1A	3268	1/1	0.93	0.17	35,35,35,35	0
56	MG	2A	3096	1/1	0.93	0.10	52,52,52,52	0
56	MG	1A	3218	1/1	0.93	0.14	34,34,34,34	0
56	MG	1D	304	1/1	0.93	0.20	35,35,35,35	0
56	MG	2A	3306	1/1	0.93	0.12	50,50,50,50	0
56	MG	2A	3102	1/1	0.93	0.15	59,59,59,59	0
56	MG	2A	3103	1/1	0.93	0.16	58,58,58,58	0
56	MG	1a	1794	1/1	0.93	0.08	60,60,60,60	0
56	MG	1A	3772	1/1	0.93	0.17	28,28,28,28	0
56	MG	1D	308	1/1	0.93	0.19	36,36,36,36	0
56	MG	2a	3091	1/1	0.93	0.19	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3790	1/1	0.93	0.08	61,61,61,61	0
56	MG	1A	3676	1/1	0.93	0.16	16,16,16,16	0
56	MG	2A	3113	1/1	0.93	0.24	59,59,59,59	0
56	MG	2A	3794	1/1	0.93	0.09	65,65,65,65	0
56	MG	2A	3318	1/1	0.93	0.72	50,50,50,50	0
56	MG	1A	3581	1/1	0.93	0.18	15,15,15,15	0
56	MG	1A	3205	1/1	0.93	0.11	46,46,46,46	0
56	MG	1A	3272	1/1	0.93	0.17	22,22,22,22	0
56	MG	1a	1650	1/1	0.93	0.12	56,56,56,56	0
56	MG	1A	3387	1/1	0.93	0.18	48,48,48,48	0
56	MG	1E	306	1/1	0.93	0.15	26,26,26,26	0
56	MG	1A	3587	1/1	0.93	0.35	35,35,35,35	0
56	MG	1A	3425	1/1	0.93	0.20	60,60,60,60	0
56	MG	2a	3109	1/1	0.93	0.23	72,72,72,72	0
56	MG	1A	3133	1/1	0.93	0.32	35,35,35,35	0
56	MG	2a	3111	1/1	0.93	0.10	63,63,63,63	0
56	MG	2A	3807	1/1	0.93	0.11	65,65,65,65	0
56	MG	2A	3134	1/1	0.93	0.20	39,39,39,39	0
56	MG	1A	3592	1/1	0.93	0.20	22,22,22,22	0
56	MG	1A	3594	1/1	0.93	0.18	55,55,55,55	0
56	MG	2A	3336	1/1	0.93	0.60	62,62,62,62	0
56	MG	2A	3141	1/1	0.93	0.17	39,39,39,39	0
56	MG	1A	3596	1/1	0.93	0.16	29,29,29,29	0
56	MG	1A	3529	1/1	0.93	0.37	28,28,28,28	0
56	MG	1A	3600	1/1	0.93	0.41	39,39,39,39	0
56	MG	1A	3938	1/1	0.93	0.10	54,54,54,54	0
56	MG	1A	3939	1/1	0.93	0.17	21,21,21,21	0
56	MG	1A	3024	1/1	0.93	0.11	43,43,43,43	0
56	MG	2A	3555	1/1	0.93	0.18	27,27,27,27	0
56	MG	2A	3345	1/1	0.93	0.12	39,39,39,39	0
56	MG	2A	3559	1/1	0.93	0.12	53,53,53,53	0
56	MG	1N	202	1/1	0.93	0.12	42,42,42,42	0
56	MG	1A	3044	1/1	0.93	0.13	29,29,29,29	0
56	MG	2A	3563	1/1	0.93	0.13	36,36,36,36	0
56	MG	1A	3603	1/1	0.93	0.18	39,39,39,39	0
56	MG	2a	3144	1/1	0.93	0.15	65,65,65,65	0
56	MG	1A	3806	1/1	0.93	0.10	26,26,26,26	0
56	MG	1A	3807	1/1	0.93	0.39	27,27,27,27	0
56	MG	1P	202	1/1	0.93	0.36	23,23,23,23	0
56	MG	2A	3354	1/1	0.93	0.10	62,62,62,62	0
56	MG	2a	3150	1/1	0.93	0.12	76,76,76,76	0
56	MG	2A	3165	1/1	0.93	0.22	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3836	1/1	0.93	0.14	62,62,62,62	0
56	MG	1A	3481	1/1	0.93	0.22	40,40,40,40	0
56	MG	2A	3573	1/1	0.93	0.19	62,62,62,62	0
56	MG	1A	3232	1/1	0.93	0.09	56,56,56,56	0
56	MG	2A	3840	1/1	0.93	0.08	51,51,51,51	0
56	MG	1a	1832	1/1	0.93	0.14	55,55,55,55	0
56	MG	2A	3842	1/1	0.93	0.16	42,42,42,42	0
56	MG	2a	3161	1/1	0.93	0.06	67,67,67,67	0
56	MG	2A	3576	1/1	0.93	0.10	26,26,26,26	0
56	MG	1A	3953	1/1	0.93	0.05	50,50,50,50	0
56	MG	2a	3164	1/1	0.93	0.17	58,58,58,58	0
56	MG	1A	3130	1/1	0.93	0.18	29,29,29,29	0
56	MG	2A	3363	1/1	0.93	0.28	51,51,51,51	0
56	MG	1A	3436	1/1	0.93	0.22	49,49,49,49	0
56	MG	1f	201	1/1	0.93	0.20	44,44,44,44	0
56	MG	2A	3852	1/1	0.93	0.11	53,53,53,53	0
56	MG	1A	3608	1/1	0.93	0.18	39,39,39,39	0
56	MG	2A	3588	1/1	0.93	0.15	37,37,37,37	0
56	MG	2A	3589	1/1	0.93	0.07	44,44,44,44	0
56	MG	2A	3180	1/1	0.93	0.27	47,47,47,47	0
56	MG	1A	3320	1/1	0.93	0.19	46,46,46,46	0
56	MG	1A	3321	1/1	0.93	0.11	48,48,48,48	0
56	MG	2A	3371	1/1	0.93	0.06	64,64,64,64	0
56	MG	1a	1684	1/1	0.93	0.20	63,63,63,63	0
56	MG	1A	3829	1/1	0.93	0.26	32,32,32,32	0
56	MG	1A	3832	1/1	0.93	0.13	59,59,59,59	0
56	MG	2A	3866	1/1	0.93	0.16	38,38,38,38	0
56	MG	2A	3868	1/1	0.93	0.14	70,70,70,70	0
56	MG	2A	3190	1/1	0.93	0.12	67,67,67,67	0
56	MG	2a	3192	1/1	0.93	0.12	56,56,56,56	0
56	MG	1A	4054	1/1	0.93	0.48	53,53,53,53	0
56	MG	1A	3616	1/1	0.93	0.15	19,19,19,19	0
56	MG	2A	3378	1/1	0.93	0.66	55,55,55,55	0
56	MG	2A	3607	1/1	0.93	0.12	57,57,57,57	0
56	MG	1A	3212	1/1	0.93	0.11	35,35,35,35	0
56	MG	2A	3609	1/1	0.93	0.16	29,29,29,29	0
56	MG	2A	3610	1/1	0.93	0.06	41,41,41,41	0
56	MG	2a	3200	1/1	0.93	0.13	77,77,77,77	0
56	MG	1A	3441	1/1	0.93	0.14	41,41,41,41	0
56	MG	2A	3887	1/1	0.93	0.15	56,56,56,56	0
56	MG	1A	3288	1/1	0.93	0.21	34,34,34,34	0
56	MG	1U	212	1/1	0.93	0.12	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3966	1/1	0.93	0.14	36,36,36,36	0
56	MG	1x	105	1/1	0.93	0.13	49,49,49,49	0
56	MG	1V	203	1/1	0.93	0.32	26,26,26,26	0
56	MG	2A	3620	1/1	0.93	0.14	64,64,64,64	0
56	MG	2A	3621	1/1	0.93	0.12	63,63,63,63	0
56	MG	1A	3260	1/1	0.93	0.15	47,47,47,47	0
56	MG	1A	4064	1/1	0.93	0.16	34,34,34,34	0
56	MG	1A	3629	1/1	0.93	0.08	29,29,29,29	0
56	MG	1A	3197	1/1	0.93	0.22	38,38,38,38	0
56	MG	2A	3628	1/1	0.93	0.11	55,55,55,55	0
56	MG	2B	218	1/1	0.93	0.20	67,67,67,67	0
56	MG	2a	3229	1/1	0.93	0.23	61,61,61,61	0
56	MG	2B	220	1/1	0.93	0.12	65,65,65,65	0
56	MG	1A	3633	1/1	0.93	0.12	28,28,28,28	0
56	MG	2a	3232	1/1	0.93	0.14	63,63,63,63	0
56	MG	1A	3858	1/1	0.93	0.23	43,43,43,43	0
56	MG	1A	3551	1/1	0.93	0.15	50,50,50,50	0
56	MG	1A	3262	1/1	0.93	0.19	59,59,59,59	0
56	MG	1A	3864	1/1	0.93	0.14	52,52,52,52	0
56	MG	2a	3241	1/1	0.93	0.12	63,63,63,63	0
56	MG	10	103	1/1	0.93	0.15	32,32,32,32	0
56	MG	1A	3107	1/1	0.93	0.10	27,27,27,27	0
56	MG	1A	3978	1/1	0.93	0.15	36,36,36,36	0
56	MG	2E	302	1/1	0.93	0.13	61,61,61,61	0
56	MG	1A	3735	1/1	0.93	0.13	45,45,45,45	0
56	MG	2A	3652	1/1	0.93	0.10	50,50,50,50	0
56	MG	2l	202	1/1	0.93	0.08	64,64,64,64	0
56	MG	1A	3736	1/1	0.93	0.08	38,38,38,38	0
56	MG	2A	3013	1/1	0.93	0.30	50,50,50,50	0
56	MG	2A	3658	1/1	0.93	0.11	69,69,69,69	0
56	MG	1A	3558	1/1	0.93	0.25	54,54,54,54	0
56	MG	1A	3560	1/1	0.93	0.14	51,51,51,51	0
56	MG	2A	3415	1/1	0.93	0.12	62,62,62,62	0
56	MG	2A	3235	1/1	0.93	0.27	44,44,44,44	0
56	MG	1A	4087	1/1	0.93	0.11	53,53,53,53	0
56	MG	2A	3237	1/1	0.93	0.46	44,44,44,44	0
56	MG	2A	3677	1/1	0.93	0.10	51,51,51,51	0
56	MG	2x	105	1/1	0.93	0.09	67,67,67,67	0
56	MG	15	103	1/1	0.93	0.30	33,33,33,33	0
56	MG	2A	3023	1/1	0.93	0.59	51,51,51,51	0
56	MG	1A	3453	1/1	0.93	0.43	31,31,31,31	0
56	MG	2y	105	1/1	0.93	0.07	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3877	1/1	0.93	0.25	30,30,30,30	0
56	MG	1A	3331	1/1	0.93	0.30	43,43,43,43	0
59	ZN	2n	501	1/1	0.93	0.08	107,107,107,107	0
56	MG	1A	3920	1/1	0.94	0.20	65,65,65,65	0
56	MG	1A	4044	1/1	0.94	0.08	43,43,43,43	0
56	MG	1A	3762	1/1	0.94	0.20	21,21,21,21	0
56	MG	2D	310	1/1	0.94	0.18	56,56,56,56	0
56	MG	1A	3414	1/1	0.94	0.10	43,43,43,43	0
56	MG	1a	1756	1/1	0.94	0.17	54,54,54,54	0
56	MG	1A	4048	1/1	0.94	0.09	34,34,34,34	0
56	MG	1A	3015	1/1	0.94	0.15	39,39,39,39	0
56	MG	2A	3349	1/1	0.94	0.10	59,59,59,59	0
56	MG	1A	3319	1/1	0.94	0.24	51,51,51,51	0
56	MG	1A	3649	1/1	0.94	0.14	29,29,29,29	0
56	MG	11	101	1/1	0.94	0.59	33,33,33,33	0
56	MG	11	103	1/1	0.94	0.21	36,36,36,36	0
56	MG	1A	3557	1/1	0.94	0.16	47,47,47,47	0
56	MG	1A	3769	1/1	0.94	0.19	25,25,25,25	0
56	MG	1a	1768	1/1	0.94	0.15	64,64,64,64	0
56	MG	1A	3022	1/1	0.94	0.18	34,34,34,34	0
56	MG	1A	3482	1/1	0.94	0.23	43,43,43,43	0
56	MG	2A	3360	1/1	0.94	0.09	56,56,56,56	0
56	MG	1A	3192	1/1	0.94	0.22	25,25,25,25	0
56	MG	1A	4058	1/1	0.94	0.27	28,28,28,28	0
56	MG	1A	3194	1/1	0.94	0.35	33,33,33,33	0
56	MG	2U	202	1/1	0.94	0.79	58,58,58,58	0
56	MG	2A	3119	1/1	0.94	0.22	36,36,36,36	0
56	MG	1A	3111	1/1	0.94	0.16	37,37,37,37	0
56	MG	1A	3423	1/1	0.94	0.14	42,42,42,42	0
56	MG	1A	3324	1/1	0.94	0.22	39,39,39,39	0
56	MG	2A	3638	1/1	0.94	0.29	55,55,55,55	0
56	MG	1A	3780	1/1	0.94	0.14	34,34,34,34	0
56	MG	1a	1782	1/1	0.94	0.08	79,79,79,79	0
56	MG	2A	3644	1/1	0.94	0.41	43,43,43,43	0
56	MG	21	101	1/1	0.94	0.57	55,55,55,55	0
56	MG	17	102	1/1	0.94	0.11	32,32,32,32	0
56	MG	23	103	1/1	0.94	0.24	55,55,55,55	0
56	MG	2A	3649	1/1	0.94	0.08	68,68,68,68	0
56	MG	2A	3133	1/1	0.94	0.46	55,55,55,55	0
56	MG	1A	3086	1/1	0.94	0.47	28,28,28,28	0
56	MG	2A	3135	1/1	0.94	0.16	51,51,51,51	0
56	MG	1A	3567	1/1	0.94	0.18	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	27	101	1/1	0.94	0.21	46,46,46,46	0
56	MG	1A	3568	1/1	0.94	0.20	30,30,30,30	0
56	MG	28	103	1/1	0.94	0.17	42,42,42,42	0
56	MG	2A	3140	1/1	0.94	0.10	57,57,57,57	0
56	MG	2A	3662	1/1	0.94	0.09	59,59,59,59	0
56	MG	17	107	1/1	0.94	0.10	49,49,49,49	0
56	MG	2A	3143	1/1	0.94	0.13	47,47,47,47	0
56	MG	1A	3944	1/1	0.94	0.07	44,44,44,44	0
56	MG	1A	3090	1/1	0.94	0.23	30,30,30,30	0
56	MG	2A	3148	1/1	0.94	0.13	51,51,51,51	0
56	MG	1A	3573	1/1	0.94	0.16	34,34,34,34	0
56	MG	2A	3678	1/1	0.94	0.13	76,76,76,76	0
56	MG	1A	3793	1/1	0.94	0.21	56,56,56,56	0
56	MG	2a	3013	1/1	0.94	0.15	58,58,58,58	0
56	MG	2A	3385	1/1	0.94	0.10	53,53,53,53	0
56	MG	18	106	1/1	0.94	0.14	26,26,26,26	0
56	MG	1A	3374	1/1	0.94	0.14	30,30,30,30	0
56	MG	1A	4077	1/1	0.94	0.16	27,27,27,27	0
56	MG	2A	3157	1/1	0.94	0.87	44,44,44,44	0
56	MG	2A	3392	1/1	0.94	0.13	58,58,58,58	0
56	MG	2A	3393	1/1	0.94	0.16	40,40,40,40	0
56	MG	2A	3158	1/1	0.94	0.45	56,56,56,56	0
56	MG	1A	3429	1/1	0.94	0.13	44,44,44,44	0
56	MG	1A	3576	1/1	0.94	0.23	43,43,43,43	0
56	MG	1A	3430	1/1	0.94	0.10	47,47,47,47	0
56	MG	1a	1799	1/1	0.94	0.20	46,46,46,46	0
56	MG	2a	3030	1/1	0.94	0.19	63,63,63,63	0
56	MG	1A	3245	1/1	0.94	0.13	43,43,43,43	0
56	MG	2A	3696	1/1	0.94	0.10	55,55,55,55	0
56	MG	2a	3033	1/1	0.94	0.12	81,81,81,81	0
56	MG	1A	3496	1/1	0.94	0.18	25,25,25,25	0
56	MG	2a	3035	1/1	0.94	0.32	76,76,76,76	0
56	MG	1A	3203	1/1	0.94	0.15	24,24,24,24	0
56	MG	2A	3403	1/1	0.94	0.31	57,57,57,57	0
56	MG	1a	1614	1/1	0.94	0.14	58,58,58,58	0
56	MG	2a	3040	1/1	0.94	0.10	77,77,77,77	0
56	MG	1a	1804	1/1	0.94	0.07	53,53,53,53	0
56	MG	2A	3407	1/1	0.94	0.06	57,57,57,57	0
56	MG	1A	3803	1/1	0.94	0.09	26,26,26,26	0
56	MG	1A	3008	1/1	0.94	0.21	26,26,26,26	0
56	MG	1a	1619	1/1	0.94	0.22	52,52,52,52	0
56	MG	2A	3412	1/1	0.94	0.19	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3435	1/1	0.94	0.25	42,42,42,42	0
56	MG	1A	3117	1/1	0.94	0.26	35,35,35,35	0
56	MG	1A	3092	1/1	0.94	0.11	45,45,45,45	0
56	MG	1A	3588	1/1	0.94	0.38	36,36,36,36	0
56	MG	1A	3813	1/1	0.94	0.17	40,40,40,40	0
56	MG	1A	3814	1/1	0.94	0.18	63,63,63,63	0
56	MG	2a	3057	1/1	0.94	0.11	65,65,65,65	0
56	MG	2A	3420	1/1	0.94	0.10	60,60,60,60	0
56	MG	2A	3722	1/1	0.94	0.13	40,40,40,40	0
56	MG	2A	3185	1/1	0.94	0.08	47,47,47,47	0
56	MG	1A	3381	1/1	0.94	0.10	52,52,52,52	0
56	MG	1A	3694	1/1	0.94	0.18	41,41,41,41	0
56	MG	2A	3728	1/1	0.94	0.11	64,64,64,64	0
56	MG	1A	3817	1/1	0.94	0.59	39,39,39,39	0
56	MG	2a	3065	1/1	0.94	0.05	77,77,77,77	0
56	MG	1a	1632	1/1	0.94	0.14	58,58,58,58	0
56	MG	2A	3733	1/1	0.94	0.09	51,51,51,51	0
56	MG	2A	3192	1/1	0.94	0.14	60,60,60,60	0
56	MG	1A	3093	1/1	0.94	0.16	51,51,51,51	0
56	MG	1A	3052	1/1	0.94	0.13	40,40,40,40	0
56	MG	2A	3196	1/1	0.94	0.10	62,62,62,62	0
56	MG	2A	3739	1/1	0.94	0.14	59,59,59,59	0
56	MG	1A	3826	1/1	0.94	0.11	45,45,45,45	0
56	MG	2A	3741	1/1	0.94	0.09	42,42,42,42	0
56	MG	2A	3199	1/1	0.94	0.14	50,50,50,50	0
56	MG	1A	3299	1/1	0.94	0.07	30,30,30,30	0
56	MG	1a	1640	1/1	0.94	0.14	69,69,69,69	0
56	MG	1A	3337	1/1	0.94	0.15	37,37,37,37	0
56	MG	1A	3835	1/1	0.94	0.14	33,33,33,33	0
56	MG	1a	1830	1/1	0.94	0.15	42,42,42,42	0
56	MG	1B	217	1/1	0.94	0.24	47,47,47,47	0
56	MG	2A	3751	1/1	0.94	0.11	67,67,67,67	0
56	MG	1B	220	1/1	0.94	0.14	32,32,32,32	0
56	MG	2A	3208	1/1	0.94	0.13	53,53,53,53	0
56	MG	2A	3209	1/1	0.94	0.16	43,43,43,43	0
56	MG	2A	3210	1/1	0.94	0.11	61,61,61,61	0
56	MG	2A	3211	1/1	0.94	0.19	45,45,45,45	0
56	MG	1b	301	1/1	0.94	0.18	74,74,74,74	0
56	MG	1b	302	1/1	0.94	0.17	71,71,71,71	0
56	MG	1A	3098	1/1	0.94	0.12	44,44,44,44	0
56	MG	1a	1649	1/1	0.94	0.18	44,44,44,44	0
56	MG	1B	222	1/1	0.94	0.18	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1652	1/1	0.94	0.10	48,48,48,48	0
56	MG	1l	201	1/1	0.94	0.14	56,56,56,56	0
56	MG	2A	3220	1/1	0.94	0.12	52,52,52,52	0
56	MG	1n	101	1/1	0.94	0.16	54,54,54,54	0
56	MG	1A	3598	1/1	0.94	0.33	35,35,35,35	0
56	MG	1A	3449	1/1	0.94	0.35	32,32,32,32	0
56	MG	2a	3113	1/1	0.94	0.11	56,56,56,56	0
56	MG	2A	3775	1/1	0.94	0.09	66,66,66,66	0
56	MG	2A	3468	1/1	0.94	0.26	51,51,51,51	0
56	MG	1A	3518	1/1	0.94	0.29	54,54,54,54	0
56	MG	2a	3119	1/1	0.94	0.08	69,69,69,69	0
56	MG	2A	3227	1/1	0.94	0.08	56,56,56,56	0
56	MG	1w	101	1/1	0.94	0.19	65,65,65,65	0
56	MG	1A	3708	1/1	0.94	0.07	45,45,45,45	0
56	MG	1A	3035	1/1	0.94	0.14	39,39,39,39	0
56	MG	1A	3850	1/1	0.94	0.19	47,47,47,47	0
56	MG	1w	107	1/1	0.94	0.16	69,69,69,69	0
56	MG	1A	3711	1/1	0.94	0.16	48,48,48,48	0
56	MG	2a	3133	1/1	0.94	0.20	66,66,66,66	0
56	MG	1A	3852	1/1	0.94	0.20	39,39,39,39	0
56	MG	1A	3853	1/1	0.94	0.15	55,55,55,55	0
56	MG	2A	3481	1/1	0.94	0.78	60,60,60,60	0
56	MG	1a	1663	1/1	0.94	0.23	52,52,52,52	0
56	MG	1B	235	1/1	0.94	0.22	47,47,47,47	0
56	MG	1A	3102	1/1	0.94	0.15	46,46,46,46	0
56	MG	2a	3141	1/1	0.94	0.08	68,68,68,68	0
56	MG	2A	3485	1/1	0.94	0.63	44,44,44,44	0
56	MG	1A	3855	1/1	0.94	0.14	20,20,20,20	0
56	MG	1A	3857	1/1	0.94	0.22	36,36,36,36	0
56	MG	1A	3522	1/1	0.94	0.31	53,53,53,53	0
56	MG	2A	3246	1/1	0.94	0.26	49,49,49,49	0
56	MG	1A	3215	1/1	0.94	0.15	39,39,39,39	0
56	MG	1A	3396	1/1	0.94	0.28	26,26,26,26	0
56	MG	2A	3492	1/1	0.94	0.38	58,58,58,58	0
56	MG	1D	311	1/1	0.94	0.20	50,50,50,50	0
56	MG	1A	3304	1/1	0.94	0.32	21,21,21,21	0
56	MG	1A	3865	1/1	0.94	0.10	65,65,65,65	0
56	MG	1A	3343	1/1	0.94	0.25	47,47,47,47	0
56	MG	2A	3001	1/1	0.94	0.14	55,55,55,55	0
56	MG	1A	3217	1/1	0.94	0.12	39,39,39,39	0
56	MG	1E	304	1/1	0.94	0.19	34,34,34,34	0
56	MG	1A	3611	1/1	0.94	0.14	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3999	1/1	0.94	0.17	39,39,39,39	0
56	MG	2A	3006	1/1	0.94	0.17	54,54,54,54	0
56	MG	1A	3612	1/1	0.94	0.20	51,51,51,51	0
56	MG	1A	3054	1/1	0.94	0.19	42,42,42,42	0
56	MG	1E	314	1/1	0.94	0.20	30,30,30,30	0
56	MG	2A	3512	1/1	0.94	0.08	58,58,58,58	0
56	MG	2A	3513	1/1	0.94	0.13	50,50,50,50	0
56	MG	1A	3728	1/1	0.94	0.19	44,44,44,44	0
56	MG	1A	3729	1/1	0.94	0.07	32,32,32,32	0
56	MG	1A	4005	1/1	0.94	0.08	26,26,26,26	0
56	MG	1a	1687	1/1	0.94	0.13	50,50,50,50	0
56	MG	1A	3615	1/1	0.94	0.12	33,33,33,33	0
56	MG	1A	3347	1/1	0.94	0.51	41,41,41,41	0
56	MG	1A	3175	1/1	0.94	0.28	30,30,30,30	0
56	MG	2a	3177	1/1	0.94	0.25	65,65,65,65	0
56	MG	1A	3623	1/1	0.94	0.17	26,26,26,26	0
56	MG	1A	3624	1/1	0.94	0.14	46,46,46,46	0
56	MG	1A	3887	1/1	0.94	0.18	31,31,31,31	0
56	MG	2a	3181	1/1	0.94	0.15	64,64,64,64	0
56	MG	2A	3277	1/1	0.94	0.10	58,58,58,58	0
56	MG	1A	4015	1/1	0.94	0.13	29,29,29,29	0
56	MG	1A	3464	1/1	0.94	0.10	46,46,46,46	0
56	MG	2A	3038	1/1	0.94	0.20	48,48,48,48	0
56	MG	1A	3738	1/1	0.94	0.13	45,45,45,45	0
56	MG	1A	3310	1/1	0.94	0.23	40,40,40,40	0
56	MG	1a	1701	1/1	0.94	0.24	53,53,53,53	0
56	MG	2A	3539	1/1	0.94	0.12	48,48,48,48	0
56	MG	2A	3042	1/1	0.94	0.10	44,44,44,44	0
56	MG	1A	3221	1/1	0.94	0.16	46,46,46,46	0
56	MG	2A	3044	1/1	0.94	0.11	59,59,59,59	0
56	MG	1P	203	1/1	0.94	0.21	25,25,25,25	0
56	MG	2A	3047	1/1	0.94	0.10	24,24,24,24	0
56	MG	2A	3547	1/1	0.94	0.17	34,34,34,34	0
56	MG	1a	1707	1/1	0.94	0.20	57,57,57,57	0
56	MG	1A	4021	1/1	0.94	0.19	32,32,32,32	0
56	MG	1A	3893	1/1	0.94	0.18	21,21,21,21	0
56	MG	2a	3206	1/1	0.94	0.17	62,62,62,62	0
56	MG	1A	3894	1/1	0.94	0.17	21,21,21,21	0
56	MG	1A	4025	1/1	0.94	0.18	40,40,40,40	0
56	MG	1A	3353	1/1	0.94	0.24	33,33,33,33	0
56	MG	2A	3557	1/1	0.94	0.13	59,59,59,59	0
56	MG	1A	3469	1/1	0.94	0.19	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3560	1/1	0.94	0.12	38,38,38,38	0
56	MG	2a	3218	1/1	0.94	0.14	74,74,74,74	0
56	MG	1a	1716	1/1	0.94	0.15	49,49,49,49	0
56	MG	2A	3057	1/1	0.94	0.14	46,46,46,46	0
56	MG	2A	3058	1/1	0.94	0.11	52,52,52,52	0
56	MG	1A	3313	1/1	0.94	0.20	39,39,39,39	0
56	MG	2A	3867	1/1	0.94	0.12	35,35,35,35	0
56	MG	2A	3060	1/1	0.94	0.20	46,46,46,46	0
56	MG	2a	3228	1/1	0.94	0.25	62,62,62,62	0
56	MG	1R	203	1/1	0.94	0.24	46,46,46,46	0
56	MG	2A	3870	1/1	0.94	0.11	42,42,42,42	0
56	MG	2A	3062	1/1	0.94	0.18	66,66,66,66	0
56	MG	1A	3181	1/1	0.94	0.17	39,39,39,39	0
56	MG	1A	3902	1/1	0.94	0.19	43,43,43,43	0
56	MG	2A	3571	1/1	0.94	0.09	42,42,42,42	0
56	MG	1A	3903	1/1	0.94	0.15	45,45,45,45	0
56	MG	2A	3067	1/1	0.94	0.11	30,30,30,30	0
56	MG	2A	3884	1/1	0.94	0.10	61,61,61,61	0
56	MG	2A	3316	1/1	0.94	0.10	53,53,53,53	0
56	MG	1a	1724	1/1	0.94	0.28	49,49,49,49	0
56	MG	1A	3905	1/1	0.94	0.26	23,23,23,23	0
56	MG	1A	3636	1/1	0.94	0.14	16,16,16,16	0
56	MG	1A	3185	1/1	0.94	0.14	37,37,37,37	0
56	MG	2k	201	1/1	0.94	0.16	55,55,55,55	0
56	MG	2A	3073	1/1	0.94	0.51	52,52,52,52	0
56	MG	1A	3909	1/1	0.94	0.17	49,49,49,49	0
56	MG	2l	203	1/1	0.94	0.12	61,61,61,61	0
56	MG	2B	205	1/1	0.94	0.15	66,66,66,66	0
56	MG	2B	206	1/1	0.94	0.21	60,60,60,60	0
56	MG	2B	207	1/1	0.94	0.17	61,61,61,61	0
56	MG	1A	3910	1/1	0.94	0.21	51,51,51,51	0
56	MG	1A	3757	1/1	0.94	0.17	50,50,50,50	0
56	MG	2B	210	1/1	0.94	0.15	67,67,67,67	0
56	MG	1A	3914	1/1	0.94	0.18	19,19,19,19	0
56	MG	2w	104	1/1	0.94	0.08	69,69,69,69	0
56	MG	2x	101	1/1	0.94	0.15	60,60,60,60	0
56	MG	1A	3134	1/1	0.94	0.36	41,41,41,41	0
56	MG	2A	3079	1/1	0.94	0.35	46,46,46,46	0
56	MG	2A	3593	1/1	0.94	0.18	46,46,46,46	0
56	MG	1a	1741	1/1	0.94	0.24	60,60,60,60	0
56	MG	2A	3082	1/1	0.94	0.17	43,43,43,43	0
56	MG	2A	3083	1/1	0.94	0.19	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	3597	1/1	0.94	0.23	58,58,58,58	0
56	MG	1V	205	1/1	0.94	0.20	29,29,29,29	0
56	MG	1A	4040	1/1	0.94	0.30	47,47,47,47	0
57	CLM	2A	3888	20/20	0.94	0.32	38,45,57,61	0
59	ZN	2Y	501	1/1	0.94	0.15	81,81,81,81	0
56	MG	1A	3759	1/1	0.94	0.16	15,15,15,15	0
56	MG	1A	3413	1/1	0.94	0.11	37,37,37,37	0
56	MG	1A	3421	1/1	0.95	0.18	32,32,32,32	0
56	MG	2A	3672	1/1	0.95	0.09	51,51,51,51	0
56	MG	1A	3104	1/1	0.95	0.18	25,25,25,25	0
56	MG	1x	101	1/1	0.95	0.20	38,38,38,38	0
56	MG	1A	3106	1/1	0.95	0.17	26,26,26,26	0
56	MG	1A	3795	1/1	0.95	0.20	19,19,19,19	0
56	MG	1a	1682	1/1	0.95	0.15	40,40,40,40	0
56	MG	1A	3216	1/1	0.95	0.33	32,32,32,32	0
56	MG	1A	3318	1/1	0.95	0.30	43,43,43,43	0
56	MG	1P	208	1/1	0.95	0.29	42,42,42,42	0
56	MG	1A	3492	1/1	0.95	0.15	33,33,33,33	0
56	MG	2A	3426	1/1	0.95	0.18	42,42,42,42	0
56	MG	1Q	204	1/1	0.95	0.12	44,44,44,44	0
56	MG	1a	1688	1/1	0.95	0.11	63,63,63,63	0
56	MG	2A	3430	1/1	0.95	0.22	31,31,31,31	0
56	MG	1A	3426	1/1	0.95	0.15	44,44,44,44	0
56	MG	1x	116	1/1	0.95	0.14	65,65,65,65	0
56	MG	2A	3434	1/1	0.95	0.33	46,46,46,46	0
56	MG	1A	3088	1/1	0.95	0.17	37,37,37,37	0
56	MG	1A	3269	1/1	0.95	0.12	29,29,29,29	0
56	MG	2A	3218	1/1	0.95	0.54	35,35,35,35	0
56	MG	1A	3089	1/1	0.95	0.12	41,41,41,41	0
56	MG	2a	3004	1/1	0.95	0.21	51,51,51,51	0
56	MG	2A	3699	1/1	0.95	0.07	70,70,70,70	0
56	MG	2A	3441	1/1	0.95	0.14	60,60,60,60	0
56	MG	1A	3584	1/1	0.95	0.14	32,32,32,32	0
56	MG	1a	1694	1/1	0.95	0.06	56,56,56,56	0
56	MG	1A	3009	1/1	0.95	0.12	17,17,17,17	0
56	MG	2a	3010	1/1	0.95	0.19	60,60,60,60	0
56	MG	1A	3183	1/1	0.95	0.21	48,48,48,48	0
56	MG	2A	3707	1/1	0.95	0.15	36,36,36,36	0
56	MG	1A	3372	1/1	0.95	0.38	43,43,43,43	0
56	MG	1A	3502	1/1	0.95	0.15	47,47,47,47	0
56	MG	1A	3810	1/1	0.95	0.16	25,25,25,25	0
56	MG	1A	3222	1/1	0.95	0.26	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3450	1/1	0.95	0.09	56,56,56,56	0
56	MG	1A	3274	1/1	0.95	0.15	38,38,38,38	0
56	MG	2A	3233	1/1	0.95	0.12	33,33,33,33	0
56	MG	1a	1705	1/1	0.95	0.13	56,56,56,56	0
56	MG	1U	208	1/1	0.95	0.29	30,30,30,30	0
56	MG	2A	3017	1/1	0.95	0.17	36,36,36,36	0
56	MG	2A	3020	1/1	0.95	0.39	39,39,39,39	0
56	MG	1A	3946	1/1	0.95	0.09	40,40,40,40	0
56	MG	1A	3184	1/1	0.95	0.10	64,64,64,64	0
56	MG	2A	3724	1/1	0.95	0.13	56,56,56,56	0
56	MG	1A	3278	1/1	0.95	0.10	41,41,41,41	0
56	MG	2A	3026	1/1	0.95	0.52	53,53,53,53	0
56	MG	1A	3595	1/1	0.95	0.14	34,34,34,34	0
56	MG	2A	3729	1/1	0.95	0.09	68,68,68,68	0
56	MG	2A	3028	1/1	0.95	0.16	48,48,48,48	0
56	MG	1A	3950	1/1	0.95	0.15	55,55,55,55	0
56	MG	1A	3509	1/1	0.95	0.18	31,31,31,31	0
56	MG	2A	3031	1/1	0.95	0.09	48,48,48,48	0
56	MG	1A	3819	1/1	0.95	0.14	44,44,44,44	0
56	MG	1A	3138	1/1	0.95	0.17	28,28,28,28	0
56	MG	1A	3511	1/1	0.95	0.21	36,36,36,36	0
56	MG	2a	3044	1/1	0.95	0.24	56,56,56,56	0
56	MG	1X	104	1/1	0.95	0.36	61,61,61,61	0
56	MG	1X	105	1/1	0.95	0.17	29,29,29,29	0
56	MG	1A	3599	1/1	0.95	0.16	42,42,42,42	0
56	MG	1Y	203	1/1	0.95	0.19	47,47,47,47	0
56	MG	1A	3330	1/1	0.95	0.24	46,46,46,46	0
56	MG	1A	3830	1/1	0.95	0.18	48,48,48,48	0
56	MG	1A	3229	1/1	0.95	0.38	32,32,32,32	0
56	MG	1A	4072	1/1	0.95	0.13	48,48,48,48	0
56	MG	1A	3834	1/1	0.95	0.26	32,32,32,32	0
56	MG	2A	3049	1/1	0.95	0.13	54,54,54,54	0
56	MG	1A	3186	1/1	0.95	0.22	37,37,37,37	0
56	MG	10	106	1/1	0.95	0.11	49,49,49,49	0
56	MG	1a	1734	1/1	0.95	0.14	53,53,53,53	0
56	MG	2A	3756	1/1	0.95	0.12	55,55,55,55	0
56	MG	1a	1735	1/1	0.95	0.16	53,53,53,53	0
56	MG	1A	3516	1/1	0.95	0.25	40,40,40,40	0
56	MG	2A	3760	1/1	0.95	0.13	54,54,54,54	0
56	MG	1a	1737	1/1	0.95	0.30	62,62,62,62	0
56	MG	1a	1738	1/1	0.95	0.09	57,57,57,57	0
56	MG	11	102	1/1	0.95	0.12	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3272	1/1	0.95	0.15	56,56,56,56	0
56	MG	1A	3837	1/1	0.95	0.11	51,51,51,51	0
56	MG	1a	1743	1/1	0.95	0.12	61,61,61,61	0
56	MG	2a	3074	1/1	0.95	0.12	52,52,52,52	0
56	MG	1a	1745	1/1	0.95	0.12	54,54,54,54	0
56	MG	2A	3276	1/1	0.95	0.14	51,51,51,51	0
56	MG	1A	4078	1/1	0.95	0.10	24,24,24,24	0
56	MG	1A	3444	1/1	0.95	0.34	43,43,43,43	0
56	MG	1A	3840	1/1	0.95	0.12	22,22,22,22	0
56	MG	1a	1749	1/1	0.95	0.21	33,33,33,33	0
56	MG	2A	3774	1/1	0.95	0.14	64,64,64,64	0
56	MG	2A	3500	1/1	0.95	0.15	55,55,55,55	0
56	MG	2A	3776	1/1	0.95	0.10	56,56,56,56	0
56	MG	2A	3502	1/1	0.95	0.23	55,55,55,55	0
56	MG	2a	3088	1/1	0.95	0.15	55,55,55,55	0
56	MG	1A	3843	1/1	0.95	0.11	51,51,51,51	0
56	MG	1a	1751	1/1	0.95	0.11	52,52,52,52	0
56	MG	2A	3068	1/1	0.95	0.34	61,61,61,61	0
56	MG	2A	3507	1/1	0.95	0.18	44,44,44,44	0
56	MG	13	102	1/1	0.95	0.15	38,38,38,38	0
56	MG	13	103	1/1	0.95	0.18	39,39,39,39	0
56	MG	2a	3097	1/1	0.95	0.19	49,49,49,49	0
56	MG	2A	3510	1/1	0.95	0.10	41,41,41,41	0
56	MG	1A	3139	1/1	0.95	0.22	36,36,36,36	0
56	MG	1A	3969	1/1	0.95	0.13	42,42,42,42	0
56	MG	1A	3721	1/1	0.95	0.17	27,27,27,27	0
56	MG	1A	4088	1/1	0.95	0.17	21,21,21,21	0
56	MG	1A	3846	1/1	0.95	0.09	39,39,39,39	0
56	MG	1A	3847	1/1	0.95	0.07	51,51,51,51	0
56	MG	2A	3518	1/1	0.95	0.16	53,53,53,53	0
56	MG	1A	3520	1/1	0.95	0.24	56,56,56,56	0
56	MG	1A	4093	1/1	0.95	0.12	38,38,38,38	0
56	MG	1A	3075	1/1	0.95	0.18	21,21,21,21	0
56	MG	2A	3523	1/1	0.95	0.09	42,42,42,42	0
56	MG	1A	3975	1/1	0.95	0.08	50,50,50,50	0
56	MG	1A	4096	1/1	0.95	0.17	46,46,46,46	0
56	MG	1A	4097	1/1	0.95	0.17	35,35,35,35	0
56	MG	2A	3084	1/1	0.95	0.13	46,46,46,46	0
56	MG	2A	3803	1/1	0.95	0.13	81,81,81,81	0
56	MG	1a	1769	1/1	0.95	0.15	52,52,52,52	0
56	MG	2A	3303	1/1	0.95	0.48	71,71,71,71	0
56	MG	2A	3305	1/1	0.95	0.12	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3389	1/1	0.95	0.33	23,23,23,23	0
56	MG	2a	3125	1/1	0.95	0.09	64,64,64,64	0
56	MG	1A	3113	1/1	0.95	0.41	37,37,37,37	0
56	MG	1A	3144	1/1	0.95	0.18	42,42,42,42	0
56	MG	1a	1773	1/1	0.95	0.12	54,54,54,54	0
56	MG	2A	3311	1/1	0.95	0.26	59,59,59,59	0
56	MG	1A	3525	1/1	0.95	0.27	31,31,31,31	0
56	MG	1B	203	1/1	0.95	0.16	33,33,33,33	0
56	MG	1B	204	1/1	0.95	0.29	42,42,42,42	0
56	MG	19	101	1/1	0.95	0.27	34,34,34,34	0
56	MG	2A	3544	1/1	0.95	0.12	35,35,35,35	0
56	MG	1a	1601	1/1	0.95	0.12	42,42,42,42	0
56	MG	1B	205	1/1	0.95	0.13	47,47,47,47	0
56	MG	1A	3452	1/1	0.95	0.44	38,38,38,38	0
56	MG	1A	3527	1/1	0.95	0.28	32,32,32,32	0
56	MG	2A	3101	1/1	0.95	0.10	35,35,35,35	0
56	MG	1a	1605	1/1	0.95	0.19	55,55,55,55	0
56	MG	1A	3193	1/1	0.95	0.49	30,30,30,30	0
56	MG	2A	3825	1/1	0.95	0.07	43,43,43,43	0
56	MG	1B	209	1/1	0.95	0.17	47,47,47,47	0
56	MG	2A	3827	1/1	0.95	0.09	62,62,62,62	0
56	MG	2A	3327	1/1	0.95	0.17	51,51,51,51	0
56	MG	2A	3829	1/1	0.95	0.09	45,45,45,45	0
56	MG	2A	3105	1/1	0.95	0.34	57,57,57,57	0
56	MG	1a	1608	1/1	0.95	0.20	45,45,45,45	0
56	MG	1A	3240	1/1	0.95	0.19	34,34,34,34	0
56	MG	2a	3155	1/1	0.95	0.10	70,70,70,70	0
56	MG	2A	3110	1/1	0.95	0.15	61,61,61,61	0
56	MG	1A	3619	1/1	0.95	0.20	41,41,41,41	0
56	MG	1a	1612	1/1	0.95	0.09	62,62,62,62	0
56	MG	1a	1613	1/1	0.95	0.22	49,49,49,49	0
56	MG	2a	3160	1/1	0.95	0.28	84,84,84,84	0
56	MG	1A	3033	1/1	0.95	0.45	24,24,24,24	0
56	MG	1A	3067	1/1	0.95	0.16	32,32,32,32	0
56	MG	2A	3117	1/1	0.95	0.10	55,55,55,55	0
56	MG	2A	3118	1/1	0.95	0.09	43,43,43,43	0
56	MG	1A	3397	1/1	0.95	0.30	30,30,30,30	0
56	MG	1A	3460	1/1	0.95	0.28	40,40,40,40	0
56	MG	1A	3535	1/1	0.95	0.11	57,57,57,57	0
56	MG	2a	3168	1/1	0.95	0.07	51,51,51,51	0
56	MG	2A	3846	1/1	0.95	0.16	62,62,62,62	0
56	MG	1A	3868	1/1	0.95	0.12	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2A	3124	1/1	0.95	0.05	66,66,66,66	0
56	MG	2A	3125	1/1	0.95	0.07	58,58,58,58	0
56	MG	1A	3741	1/1	0.95	0.24	37,37,37,37	0
56	MG	1A	3298	1/1	0.95	0.14	36,36,36,36	0
56	MG	2A	3580	1/1	0.95	0.16	45,45,45,45	0
56	MG	1a	1624	1/1	0.95	0.11	62,62,62,62	0
56	MG	1A	3082	1/1	0.95	0.24	33,33,33,33	0
56	MG	2A	3584	1/1	0.95	0.12	59,59,59,59	0
56	MG	1A	3198	1/1	0.95	0.13	35,35,35,35	0
56	MG	1B	226	1/1	0.95	0.06	69,69,69,69	0
56	MG	1A	3152	1/1	0.95	0.14	29,29,29,29	0
56	MG	1A	3540	1/1	0.95	0.13	45,45,45,45	0
56	MG	2a	3185	1/1	0.95	0.16	52,52,52,52	0
56	MG	2a	3186	1/1	0.95	0.09	54,54,54,54	0
56	MG	2A	3591	1/1	0.95	0.18	46,46,46,46	0
56	MG	1A	3637	1/1	0.95	0.10	48,48,48,48	0
56	MG	1a	1634	1/1	0.95	0.25	66,66,66,66	0
56	MG	2A	3142	1/1	0.95	0.14	43,43,43,43	0
56	MG	1A	3755	1/1	0.95	0.09	46,46,46,46	0
56	MG	1A	3345	1/1	0.95	0.13	46,46,46,46	0
56	MG	1A	3249	1/1	0.95	0.14	42,42,42,42	0
56	MG	2A	3871	1/1	0.95	0.14	39,39,39,39	0
56	MG	2A	3872	1/1	0.95	0.16	48,48,48,48	0
56	MG	2A	3146	1/1	0.95	0.20	38,38,38,38	0
56	MG	1A	3118	1/1	0.95	0.18	22,22,22,22	0
56	MG	2A	3876	1/1	0.95	0.13	47,47,47,47	0
56	MG	1A	3760	1/1	0.95	0.19	45,45,45,45	0
56	MG	1A	3348	1/1	0.95	0.29	41,41,41,41	0
56	MG	1A	3156	1/1	0.95	0.38	39,39,39,39	0
56	MG	2a	3204	1/1	0.95	0.14	65,65,65,65	0
56	MG	2A	3882	1/1	0.95	0.15	42,42,42,42	0
56	MG	2A	3153	1/1	0.95	0.11	41,41,41,41	0
56	MG	2A	3154	1/1	0.95	0.12	52,52,52,52	0
56	MG	1A	3763	1/1	0.95	0.15	22,22,22,22	0
56	MG	1A	3069	1/1	0.95	0.24	28,28,28,28	0
56	MG	1a	1820	1/1	0.95	0.07	68,68,68,68	0
56	MG	2a	3215	1/1	0.95	0.09	59,59,59,59	0
56	MG	1D	309	1/1	0.95	0.34	20,20,20,20	0
56	MG	1A	3648	1/1	0.95	0.15	30,30,30,30	0
56	MG	1A	3895	1/1	0.95	0.15	18,18,18,18	0
56	MG	1a	1651	1/1	0.95	0.22	61,61,61,61	0
56	MG	2a	3222	1/1	0.95	0.19	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3351	1/1	0.95	0.71	47,47,47,47	0
56	MG	1A	3554	1/1	0.95	0.27	41,41,41,41	0
56	MG	1A	3474	1/1	0.95	0.25	32,32,32,32	0
56	MG	2a	3226	1/1	0.95	0.15	50,50,50,50	0
56	MG	1A	3410	1/1	0.95	0.13	39,39,39,39	0
56	MG	1A	3070	1/1	0.95	0.14	12,12,12,12	0
56	MG	1A	3072	1/1	0.95	0.39	31,31,31,31	0
56	MG	1A	3904	1/1	0.95	0.16	32,32,32,32	0
56	MG	1A	3356	1/1	0.95	0.13	53,53,53,53	0
56	MG	1A	3164	1/1	0.95	0.14	52,52,52,52	0
56	MG	2A	3388	1/1	0.95	0.06	62,62,62,62	0
56	MG	2a	3234	1/1	0.95	0.16	60,60,60,60	0
56	MG	2A	3629	1/1	0.95	0.13	36,36,36,36	0
56	MG	2a	3237	1/1	0.95	0.21	61,61,61,61	0
56	MG	2A	3389	1/1	0.95	0.20	36,36,36,36	0
56	MG	1A	4023	1/1	0.95	0.18	30,30,30,30	0
56	MG	2A	3633	1/1	0.95	0.08	40,40,40,40	0
56	MG	2A	3634	1/1	0.95	0.51	56,56,56,56	0
56	MG	1E	315	1/1	0.95	0.06	40,40,40,40	0
56	MG	1A	3774	1/1	0.95	0.16	19,19,19,19	0
56	MG	1A	3415	1/1	0.95	0.18	40,40,40,40	0
56	MG	1m	3001	1/1	0.95	0.13	54,54,54,54	0
56	MG	2A	3639	1/1	0.95	0.15	42,42,42,42	0
56	MG	1A	3210	1/1	0.95	0.25	35,35,35,35	0
56	MG	2A	3641	1/1	0.95	0.14	38,38,38,38	0
56	MG	1A	3359	1/1	0.95	0.23	58,58,58,58	0
56	MG	1G	202	1/1	0.95	0.21	51,51,51,51	0
56	MG	1A	3087	1/1	0.95	0.36	35,35,35,35	0
56	MG	2r	101	1/1	0.95	0.06	65,65,65,65	0
56	MG	2A	3646	1/1	0.95	0.30	59,59,59,59	0
56	MG	2A	3647	1/1	0.95	0.17	64,64,64,64	0
56	MG	1A	3166	1/1	0.95	0.27	34,34,34,34	0
56	MG	1A	3782	1/1	0.95	0.24	48,48,48,48	0
56	MG	1w	103	1/1	0.95	0.20	64,64,64,64	0
56	MG	2A	3654	1/1	0.95	0.18	57,57,57,57	0
56	MG	1A	3362	1/1	0.95	0.10	35,35,35,35	0
56	MG	1w	105	1/1	0.95	0.33	62,62,62,62	0
56	MG	2P	204	1/1	0.95	0.26	57,57,57,57	0
56	MG	2A	3195	1/1	0.95	0.12	44,44,44,44	0
56	MG	2A	3659	1/1	0.95	0.14	58,58,58,58	0
56	MG	1A	3918	1/1	0.95	0.30	28,28,28,28	0
56	MG	2y	102	1/1	0.95	0.40	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3673	1/1	0.95	0.17	17,17,17,17	0
56	MG	2A	3663	1/1	0.95	0.13	54,54,54,54	0
56	MG	1A	3788	1/1	0.95	0.07	35,35,35,35	0
56	MG	2A	3665	1/1	0.95	0.10	61,61,61,61	0
57	CLM	1A	4102	20/20	0.95	0.28	18,29,44,60	0
56	MG	2T	203	1/1	0.95	0.15	50,50,50,50	0
59	ZN	14	102	1/1	0.95	0.13	87,87,87,87	0
56	MG	1N	206	1/1	0.95	0.22	37,37,37,37	0
56	MG	2V	202	1/1	0.95	0.52	48,48,48,48	0
59	ZN	29	501	1/1	0.95	0.11	72,72,72,72	0
56	MG	2V	203	1/1	0.95	0.30	57,57,57,57	0
56	MG	2A	3517	1/1	0.96	0.09	46,46,46,46	0
56	MG	1A	3020	1/1	0.96	0.18	33,33,33,33	0
56	MG	1A	3076	1/1	0.96	0.15	20,20,20,20	0
56	MG	1A	3169	1/1	0.96	0.14	49,49,49,49	0
56	MG	1A	3710	1/1	0.96	0.15	51,51,51,51	0
56	MG	1A	3078	1/1	0.96	0.17	31,31,31,31	0
56	MG	1A	3172	1/1	0.96	0.23	36,36,36,36	0
56	MG	2a	3029	1/1	0.96	0.38	40,40,40,40	0
56	MG	1P	201	1/1	0.96	0.26	25,25,25,25	0
56	MG	1A	3137	1/1	0.96	0.20	27,27,27,27	0
56	MG	2A	3325	1/1	0.96	0.33	57,57,57,57	0
56	MG	2A	3528	1/1	0.96	0.18	59,59,59,59	0
56	MG	2A	3126	1/1	0.96	0.15	44,44,44,44	0
56	MG	2A	3530	1/1	0.96	0.17	49,49,49,49	0
56	MG	1A	3176	1/1	0.96	0.23	27,27,27,27	0
56	MG	2A	3769	1/1	0.96	0.12	39,39,39,39	0
56	MG	1P	205	1/1	0.96	0.16	16,16,16,16	0
56	MG	2A	3131	1/1	0.96	0.08	75,75,75,75	0
56	MG	2A	3534	1/1	0.96	0.10	41,41,41,41	0
56	MG	2a	3042	1/1	0.96	0.20	60,60,60,60	0
56	MG	1A	3544	1/1	0.96	0.23	37,37,37,37	0
56	MG	1A	3941	1/1	0.96	0.09	35,35,35,35	0
56	MG	1a	1831	1/1	0.96	0.22	43,43,43,43	0
56	MG	1A	3824	1/1	0.96	0.15	30,30,30,30	0
56	MG	1A	3943	1/1	0.96	0.14	38,38,38,38	0
56	MG	2a	3048	1/1	0.96	0.19	58,58,58,58	0
56	MG	1Q	203	1/1	0.96	0.24	24,24,24,24	0
56	MG	1A	3178	1/1	0.96	0.17	17,17,17,17	0
56	MG	1A	3828	1/1	0.96	0.17	45,45,45,45	0
56	MG	1A	3546	1/1	0.96	0.22	43,43,43,43	0
56	MG	1e	202	1/1	0.96	0.23	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	1A	3179	1/1	0.96	0.13	29,29,29,29	0
56	MG	2A	3549	1/1	0.96	0.14	47,47,47,47	0
56	MG	1A	3831	1/1	0.96	0.17	37,37,37,37	0
56	MG	2A	3344	1/1	0.96	0.51	48,48,48,48	0
56	MG	1A	3180	1/1	0.96	0.35	35,35,35,35	0
56	MG	1A	3549	1/1	0.96	0.28	30,30,30,30	0
56	MG	1m	3002	1/1	0.96	0.11	56,56,56,56	0
56	MG	1S	202	1/1	0.96	0.16	51,51,51,51	0
56	MG	1A	3550	1/1	0.96	0.16	40,40,40,40	0
56	MG	2A	3558	1/1	0.96	0.08	52,52,52,52	0
56	MG	1T	201	1/1	0.96	0.23	47,47,47,47	0
56	MG	1A	3110	1/1	0.96	0.16	26,26,26,26	0
56	MG	2a	3067	1/1	0.96	0.12	47,47,47,47	0
56	MG	2A	3797	1/1	0.96	0.08	40,40,40,40	0
56	MG	1A	3182	1/1	0.96	0.22	49,49,49,49	0
56	MG	2a	3071	1/1	0.96	0.18	62,62,62,62	0
56	MG	1A	4066	1/1	0.96	0.16	24,24,24,24	0
56	MG	2a	3073	1/1	0.96	0.13	50,50,50,50	0
56	MG	2A	3355	1/1	0.96	0.12	51,51,51,51	0
56	MG	1A	3630	1/1	0.96	0.15	29,29,29,29	0
56	MG	1A	3553	1/1	0.96	0.35	45,45,45,45	0
56	MG	1A	3064	1/1	0.96	0.20	32,32,32,32	0
56	MG	1A	3634	1/1	0.96	0.17	52,52,52,52	0
56	MG	1U	210	1/1	0.96	0.23	25,25,25,25	0
56	MG	1w	108	1/1	0.96	0.11	74,74,74,74	0
56	MG	1A	3959	1/1	0.96	0.23	46,46,46,46	0
56	MG	1A	3030	1/1	0.96	0.27	32,32,32,32	0
56	MG	1A	3556	1/1	0.96	0.31	41,41,41,41	0
56	MG	1V	204	1/1	0.96	0.36	32,32,32,32	0
56	MG	1A	4075	1/1	0.96	0.30	48,48,48,48	0
56	MG	1A	3275	1/1	0.96	0.17	31,31,31,31	0
56	MG	2A	3813	1/1	0.96	0.15	53,53,53,53	0
56	MG	2A	3172	1/1	0.96	0.12	50,50,50,50	0
56	MG	1a	1697	1/1	0.96	0.28	49,49,49,49	0
56	MG	2A	3174	1/1	0.96	0.07	56,56,56,56	0
56	MG	1A	3432	1/1	0.96	0.29	36,36,36,36	0
56	MG	1A	3094	1/1	0.96	0.15	20,20,20,20	0
56	MG	1A	3277	1/1	0.96	0.33	44,44,44,44	0
56	MG	2A	3179	1/1	0.96	0.21	65,65,65,65	0
56	MG	1X	102	1/1	0.96	0.16	35,35,35,35	0
56	MG	2A	3587	1/1	0.96	0.20	56,56,56,56	0
56	MG	2a	3103	1/1	0.96	0.21	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1702	1/1	0.96	0.29	53,53,53,53	0
56	MG	1A	3642	1/1	0.96	0.12	14,14,14,14	0
56	MG	2A	3590	1/1	0.96	0.15	64,64,64,64	0
56	MG	1A	3095	1/1	0.96	0.29	44,44,44,44	0
56	MG	1A	3383	1/1	0.96	0.33	31,31,31,31	0
56	MG	1A	3745	1/1	0.96	0.14	14,14,14,14	0
56	MG	1A	4086	1/1	0.96	0.16	28,28,28,28	0
56	MG	1x	118	1/1	0.96	0.14	58,58,58,58	0
56	MG	1A	3384	1/1	0.96	0.14	41,41,41,41	0
56	MG	1A	3231	1/1	0.96	0.11	33,33,33,33	0
56	MG	1A	3145	1/1	0.96	0.21	21,21,21,21	0
56	MG	2a	3115	1/1	0.96	0.14	61,61,61,61	0
56	MG	2a	3116	1/1	0.96	0.15	53,53,53,53	0
56	MG	1A	3751	1/1	0.96	0.18	42,42,42,42	0
56	MG	1A	3233	1/1	0.96	0.14	30,30,30,30	0
56	MG	1A	3863	1/1	0.96	0.17	34,34,34,34	0
56	MG	2A	3197	1/1	0.96	0.22	55,55,55,55	0
56	MG	2A	3007	1/1	0.96	0.12	49,49,49,49	0
56	MG	1A	3754	1/1	0.96	0.15	18,18,18,18	0
56	MG	2a	3124	1/1	0.96	0.23	55,55,55,55	0
56	MG	2A	3009	1/1	0.96	0.12	38,38,38,38	0
56	MG	2A	3394	1/1	0.96	0.18	51,51,51,51	0
56	MG	1A	3501	1/1	0.96	0.13	28,28,28,28	0
56	MG	2a	3130	1/1	0.96	0.08	68,68,68,68	0
56	MG	1A	3756	1/1	0.96	0.13	45,45,45,45	0
56	MG	2A	3012	1/1	0.96	0.12	40,40,40,40	0
56	MG	2A	3204	1/1	0.96	0.18	47,47,47,47	0
56	MG	2a	3134	1/1	0.96	0.10	58,58,58,58	0
56	MG	1A	3652	1/1	0.96	0.15	31,31,31,31	0
56	MG	1A	3653	1/1	0.96	0.09	35,35,35,35	0
56	MG	2A	3615	1/1	0.96	0.13	60,60,60,60	0
56	MG	2A	3616	1/1	0.96	0.10	63,63,63,63	0
56	MG	2A	3617	1/1	0.96	0.20	59,59,59,59	0
56	MG	2A	3854	1/1	0.96	0.11	35,35,35,35	0
56	MG	1a	1723	1/1	0.96	0.21	46,46,46,46	0
56	MG	1A	3570	1/1	0.96	0.21	29,29,29,29	0
56	MG	1A	3655	1/1	0.96	0.07	58,58,58,58	0
56	MG	2A	3404	1/1	0.96	0.21	45,45,45,45	0
56	MG	2A	3018	1/1	0.96	0.21	49,49,49,49	0
56	MG	2a	3146	1/1	0.96	0.08	68,68,68,68	0
56	MG	1a	1727	1/1	0.96	0.17	36,36,36,36	0
56	MG	2A	3021	1/1	0.96	0.17	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	13	101	1/1	0.96	0.10	26,26,26,26	0
56	MG	1A	3571	1/1	0.96	0.53	29,29,29,29	0
56	MG	2A	3865	1/1	0.96	0.07	51,51,51,51	0
56	MG	2A	3024	1/1	0.96	0.42	48,48,48,48	0
56	MG	1B	202	1/1	0.96	0.33	47,47,47,47	0
56	MG	2A	3631	1/1	0.96	0.14	39,39,39,39	0
56	MG	1A	3872	1/1	0.96	0.25	33,33,33,33	0
56	MG	15	101	1/1	0.96	0.34	31,31,31,31	0
56	MG	1A	3875	1/1	0.96	0.39	35,35,35,35	0
56	MG	1A	3115	1/1	0.96	0.09	32,32,32,32	0
56	MG	1A	3659	1/1	0.96	0.19	24,24,24,24	0
56	MG	2A	3874	1/1	0.96	0.05	66,66,66,66	0
56	MG	1A	3287	1/1	0.96	0.12	43,43,43,43	0
56	MG	2A	3224	1/1	0.96	0.09	49,49,49,49	0
56	MG	16	101	1/1	0.96	0.19	41,41,41,41	0
56	MG	1a	1739	1/1	0.96	0.36	77,77,77,77	0
56	MG	2A	3424	1/1	0.96	0.22	49,49,49,49	0
56	MG	2A	3035	1/1	0.96	0.20	36,36,36,36	0
56	MG	2A	3036	1/1	0.96	0.08	28,28,28,28	0
56	MG	1A	3445	1/1	0.96	0.18	36,36,36,36	0
56	MG	1A	3011	1/1	0.96	0.21	31,31,31,31	0
56	MG	17	101	1/1	0.96	0.19	31,31,31,31	0
56	MG	1a	1744	1/1	0.96	0.15	54,54,54,54	0
56	MG	1A	3149	1/1	0.96	0.25	29,29,29,29	0
56	MG	2A	3436	1/1	0.96	0.17	41,41,41,41	0
56	MG	17	103	1/1	0.96	0.11	22,22,22,22	0
56	MG	2A	3655	1/1	0.96	0.08	56,56,56,56	0
56	MG	1A	3884	1/1	0.96	0.32	28,28,28,28	0
56	MG	2A	3045	1/1	0.96	0.20	53,53,53,53	0
56	MG	1A	3150	1/1	0.96	0.17	31,31,31,31	0
56	MG	1A	3886	1/1	0.96	0.14	23,23,23,23	0
56	MG	1A	3666	1/1	0.96	0.14	35,35,35,35	0
56	MG	1A	3395	1/1	0.96	0.23	40,40,40,40	0
56	MG	18	101	1/1	0.96	0.26	37,37,37,37	0
56	MG	1A	3068	1/1	0.96	0.18	48,48,48,48	0
56	MG	1A	3890	1/1	0.96	0.10	33,33,33,33	0
56	MG	2A	3666	1/1	0.96	0.16	44,44,44,44	0
56	MG	2A	3669	1/1	0.96	0.55	59,59,59,59	0
56	MG	18	104	1/1	0.96	0.08	49,49,49,49	0
56	MG	2a	3191	1/1	0.96	0.13	71,71,71,71	0
56	MG	1A	3670	1/1	0.96	0.19	28,28,28,28	0
56	MG	1A	3099	1/1	0.96	0.23	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	2D	301	1/1	0.96	0.32	47,47,47,47	0
56	MG	2A	3673	1/1	0.96	0.15	57,57,57,57	0
56	MG	1A	3293	1/1	0.96	0.23	42,42,42,42	0
56	MG	2A	3451	1/1	0.96	0.26	37,37,37,37	0
56	MG	1A	3674	1/1	0.96	0.16	22,22,22,22	0
56	MG	1a	1761	1/1	0.96	0.14	51,51,51,51	0
56	MG	1A	4003	1/1	0.96	0.14	42,42,42,42	0
56	MG	1A	3514	1/1	0.96	0.24	64,64,64,64	0
56	MG	1A	3295	1/1	0.96	0.18	22,22,22,22	0
56	MG	1A	3779	1/1	0.96	0.12	18,18,18,18	0
56	MG	1A	4008	1/1	0.96	0.39	33,33,33,33	0
56	MG	1A	3455	1/1	0.96	0.27	28,28,28,28	0
56	MG	1A	4010	1/1	0.96	0.17	28,28,28,28	0
56	MG	1A	3899	1/1	0.96	0.17	38,38,38,38	0
56	MG	1A	3900	1/1	0.96	0.16	20,20,20,20	0
56	MG	1A	3679	1/1	0.96	0.16	34,34,34,34	0
56	MG	2F	305	1/1	0.96	0.33	43,43,43,43	0
56	MG	1B	239	1/1	0.96	0.15	30,30,30,30	0
56	MG	1D	301	1/1	0.96	0.13	34,34,34,34	0
56	MG	2a	3217	1/1	0.96	0.12	72,72,72,72	0
56	MG	2P	201	1/1	0.96	0.34	58,58,58,58	0
56	MG	1D	302	1/1	0.96	0.18	36,36,36,36	0
56	MG	1a	1616	1/1	0.96	0.09	55,55,55,55	0
56	MG	1D	303	1/1	0.96	0.13	17,17,17,17	0
56	MG	2A	3697	1/1	0.96	0.21	72,72,72,72	0
56	MG	1A	3120	1/1	0.96	0.17	36,36,36,36	0
56	MG	2A	3471	1/1	0.96	0.19	32,32,32,32	0
56	MG	1A	3100	1/1	0.96	0.11	41,41,41,41	0
56	MG	1D	307	1/1	0.96	0.26	44,44,44,44	0
56	MG	1a	1783	1/1	0.96	0.12	57,57,57,57	0
56	MG	1A	3200	1/1	0.96	0.13	33,33,33,33	0
56	MG	1A	3201	1/1	0.96	0.15	22,22,22,22	0
56	MG	2T	204	1/1	0.96	0.17	54,54,54,54	0
56	MG	1A	3248	1/1	0.96	0.18	51,51,51,51	0
56	MG	2U	203	1/1	0.96	0.41	54,54,54,54	0
56	MG	2V	201	1/1	0.96	0.56	69,69,69,69	0
56	MG	1A	3023	1/1	0.96	0.08	15,15,15,15	0
56	MG	1A	3908	1/1	0.96	0.14	32,32,32,32	0
56	MG	1D	313	1/1	0.96	0.35	34,34,34,34	0
56	MG	2a	3239	1/1	0.96	0.05	66,66,66,66	0
56	MG	1A	3250	1/1	0.96	0.23	36,36,36,36	0
56	MG	1a	1628	1/1	0.96	0.22	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	3794	1/1	0.96	0.19	48,48,48,48	0
56	MG	2e	201	1/1	0.96	0.14	64,64,64,64	0
56	MG	2f	201	1/1	0.96	0.11	48,48,48,48	0
56	MG	1A	3688	1/1	0.96	0.21	33,33,33,33	0
56	MG	1A	3912	1/1	0.96	0.37	31,31,31,31	0
56	MG	1a	1633	1/1	0.96	0.21	52,52,52,52	0
56	MG	1A	3013	1/1	0.96	0.35	26,26,26,26	0
56	MG	1A	3252	1/1	0.96	0.18	37,37,37,37	0
56	MG	2A	3290	1/1	0.96	0.13	36,36,36,36	0
56	MG	1E	309	1/1	0.96	0.37	47,47,47,47	0
56	MG	1A	3126	1/1	0.96	0.47	34,34,34,34	0
56	MG	2A	3097	1/1	0.96	0.15	45,45,45,45	0
56	MG	2A	3294	1/1	0.96	0.31	67,67,67,67	0
56	MG	1E	311	1/1	0.96	0.23	52,52,52,52	0
56	MG	1a	1639	1/1	0.96	0.19	56,56,56,56	0
56	MG	2A	3730	1/1	0.96	0.08	41,41,41,41	0
56	MG	2A	3100	1/1	0.96	0.09	53,53,53,53	0
56	MG	1A	3255	1/1	0.96	0.19	29,29,29,29	0
56	MG	1A	3695	1/1	0.96	0.11	25,25,25,25	0
56	MG	1A	3014	1/1	0.96	0.18	22,22,22,22	0
56	MG	1A	3530	1/1	0.96	0.12	40,40,40,40	0
56	MG	1F	307	1/1	0.96	0.25	30,30,30,30	0
56	MG	2A	3106	1/1	0.96	0.10	36,36,36,36	0
56	MG	2A	3738	1/1	0.96	0.10	48,48,48,48	0
56	MG	2A	3304	1/1	0.96	0.10	44,44,44,44	0
56	MG	1A	3007	1/1	0.96	0.26	26,26,26,26	0
56	MG	1A	3805	1/1	0.96	0.09	35,35,35,35	0
56	MG	2A	3109	1/1	0.96	0.19	39,39,39,39	0
56	MG	1A	3311	1/1	0.96	0.19	40,40,40,40	0
56	MG	1A	3925	1/1	0.96	0.17	39,39,39,39	0
56	MG	1A	3701	1/1	0.96	0.18	23,23,23,23	0
56	MG	1A	3472	1/1	0.96	0.23	33,33,33,33	0
56	MG	2A	3313	1/1	0.96	0.07	57,57,57,57	0
56	MG	2a	3016	1/1	0.96	0.07	52,52,52,52	0
56	MG	1A	3105	1/1	0.96	0.33	30,30,30,30	0
56	MG	2a	3018	1/1	0.96	0.12	61,61,61,61	0
56	MG	1A	3259	1/1	0.96	0.18	38,38,38,38	0
56	MG	2A	3752	1/1	0.96	0.22	54,54,54,54	0
56	MG	1A	3783	1/1	0.97	0.15	17,17,17,17	0
56	MG	1A	3294	1/1	0.97	0.13	41,41,41,41	0
56	MG	1A	3407	1/1	0.97	0.13	36,36,36,36	0
56	MG	2A	3683	1/1	0.97	0.10	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	4045	1/1	0.97	0.12	17,17,17,17	0
56	MG	2a	3087	1/1	0.97	0.10	59,59,59,59	0
56	MG	2A	3064	1/1	0.97	0.08	48,48,48,48	0
56	MG	1a	1811	1/1	0.97	0.10	38,38,38,38	0
56	MG	2a	3090	1/1	0.97	0.20	66,66,66,66	0
56	MG	1A	3583	1/1	0.97	0.11	44,44,44,44	0
56	MG	1A	3448	1/1	0.97	0.17	36,36,36,36	0
56	MG	1A	3790	1/1	0.97	0.17	19,19,19,19	0
56	MG	1A	3122	1/1	0.97	0.30	37,37,37,37	0
56	MG	1A	3880	1/1	0.97	0.09	60,60,60,60	0
56	MG	1A	3714	1/1	0.97	0.14	14,14,14,14	0
56	MG	2A	3520	1/1	0.97	0.11	49,49,49,49	0
56	MG	2a	3099	1/1	0.97	0.16	52,52,52,52	0
56	MG	2A	3366	1/1	0.97	0.14	60,60,60,60	0
56	MG	2A	3695	1/1	0.97	0.08	60,60,60,60	0
56	MG	1A	3647	1/1	0.97	0.15	30,30,30,30	0
56	MG	1A	3038	1/1	0.97	0.21	30,30,30,30	0
56	MG	2A	3880	1/1	0.97	0.12	52,52,52,52	0
56	MG	1A	3146	1/1	0.97	0.35	25,25,25,25	0
56	MG	1A	3720	1/1	0.97	0.19	44,44,44,44	0
56	MG	1A	3027	1/1	0.97	0.13	71,71,71,71	0
56	MG	1A	3495	1/1	0.97	0.23	47,47,47,47	0
56	MG	1A	3040	1/1	0.97	0.15	30,30,30,30	0
56	MG	1E	307	1/1	0.97	0.22	57,57,57,57	0
56	MG	2A	3704	1/1	0.97	0.19	44,44,44,44	0
56	MG	2A	3705	1/1	0.97	0.16	51,51,51,51	0
56	MG	1A	3204	1/1	0.97	0.16	29,29,29,29	0
56	MG	1a	1704	1/1	0.97	0.29	60,60,60,60	0
56	MG	1A	3593	1/1	0.97	0.34	27,27,27,27	0
56	MG	1A	3543	1/1	0.97	0.38	34,34,34,34	0
56	MG	2A	3229	1/1	0.97	0.47	33,33,33,33	0
56	MG	1A	3656	1/1	0.97	0.18	34,34,34,34	0
56	MG	1A	3375	1/1	0.97	0.15	42,42,42,42	0
56	MG	1A	3731	1/1	0.97	0.14	24,24,24,24	0
56	MG	2a	3121	1/1	0.97	0.12	54,54,54,54	0
56	MG	1A	3031	1/1	0.97	0.28	31,31,31,31	0
56	MG	1A	3236	1/1	0.97	0.47	30,30,30,30	0
56	MG	1a	1713	1/1	0.97	0.14	50,50,50,50	0
56	MG	1F	305	1/1	0.97	0.10	45,45,45,45	0
56	MG	2A	3720	1/1	0.97	0.13	48,48,48,48	0
56	MG	1F	306	1/1	0.97	0.25	23,23,23,23	0
56	MG	1A	4069	1/1	0.97	0.14	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1717	1/1	0.97	0.06	64,64,64,64	0
56	MG	2A	3241	1/1	0.97	0.24	62,62,62,62	0
56	MG	1A	3032	1/1	0.97	0.28	26,26,26,26	0
56	MG	2A	3550	1/1	0.97	0.17	57,57,57,57	0
56	MG	1A	3811	1/1	0.97	0.12	49,49,49,49	0
56	MG	1F	310	1/1	0.97	0.14	41,41,41,41	0
56	MG	1A	3085	1/1	0.97	0.18	23,23,23,23	0
56	MG	1A	3305	1/1	0.97	0.31	34,34,34,34	0
56	MG	1A	3239	1/1	0.97	0.18	25,25,25,25	0
56	MG	1A	3132	1/1	0.97	0.26	33,33,33,33	0
56	MG	1A	3154	1/1	0.97	0.43	39,39,39,39	0
56	MG	1A	3507	1/1	0.97	0.27	42,42,42,42	0
56	MG	1A	3508	1/1	0.97	0.18	23,23,23,23	0
56	MG	1A	3669	1/1	0.97	0.14	19,19,19,19	0
56	MG	1A	3028	1/1	0.97	0.17	21,21,21,21	0
56	MG	1A	3466	1/1	0.97	0.17	36,36,36,36	0
56	MG	1A	3825	1/1	0.97	0.16	34,34,34,34	0
56	MG	1a	1733	1/1	0.97	0.31	53,53,53,53	0
56	MG	1O	202	1/1	0.97	0.42	47,47,47,47	0
56	MG	2F	306	1/1	0.97	0.60	51,51,51,51	0
56	MG	2A	3112	1/1	0.97	0.11	51,51,51,51	0
56	MG	2N	201	1/1	0.97	0.08	35,35,35,35	0
56	MG	2A	3745	1/1	0.97	0.09	50,50,50,50	0
56	MG	1O	203	1/1	0.97	0.14	40,40,40,40	0
56	MG	1O	204	1/1	0.97	0.14	46,46,46,46	0
56	MG	1x	102	1/1	0.97	0.16	46,46,46,46	0
56	MG	2A	3411	1/1	0.97	0.10	46,46,46,46	0
56	MG	1a	1615	1/1	0.97	0.07	43,43,43,43	0
56	MG	2A	3413	1/1	0.97	0.19	55,55,55,55	0
56	MG	1A	4084	1/1	0.97	0.24	14,14,14,14	0
56	MG	2A	3266	1/1	0.97	0.21	59,59,59,59	0
56	MG	1A	3746	1/1	0.97	0.25	46,46,46,46	0
56	MG	2A	3755	1/1	0.97	0.07	54,54,54,54	0
56	MG	1x	106	1/1	0.97	0.21	52,52,52,52	0
56	MG	1A	3672	1/1	0.97	0.10	35,35,35,35	0
56	MG	1x	108	1/1	0.97	0.20	62,62,62,62	0
56	MG	2U	201	1/1	0.97	0.26	54,54,54,54	0
56	MG	1A	3386	1/1	0.97	0.30	30,30,30,30	0
56	MG	2A	3582	1/1	0.97	0.10	39,39,39,39	0
56	MG	1A	3913	1/1	0.97	0.50	34,34,34,34	0
56	MG	1A	3211	1/1	0.97	0.43	34,34,34,34	0
56	MG	2A	3423	1/1	0.97	0.17	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3610	1/1	0.97	0.20	44,44,44,44	0
56	MG	2A	3425	1/1	0.97	0.14	43,43,43,43	0
56	MG	2A	3128	1/1	0.97	0.12	42,42,42,42	0
56	MG	1A	3752	1/1	0.97	0.14	37,37,37,37	0
56	MG	1x	114	1/1	0.97	0.21	51,51,51,51	0
56	MG	1A	3833	1/1	0.97	0.15	55,55,55,55	0
56	MG	2A	3431	1/1	0.97	0.20	49,49,49,49	0
56	MG	1Q	201	1/1	0.97	0.62	42,42,42,42	0
56	MG	1A	3559	1/1	0.97	0.21	54,54,54,54	0
56	MG	23	101	1/1	0.97	0.22	54,54,54,54	0
56	MG	2a	3184	1/1	0.97	0.11	57,57,57,57	0
56	MG	1A	3677	1/1	0.97	0.12	23,23,23,23	0
56	MG	2A	3435	1/1	0.97	0.12	28,28,28,28	0
56	MG	1A	3071	1/1	0.97	0.21	29,29,29,29	0
56	MG	2A	3598	1/1	0.97	0.15	42,42,42,42	0
56	MG	2a	3189	1/1	0.97	0.10	57,57,57,57	0
56	MG	2A	3778	1/1	0.97	0.11	58,58,58,58	0
56	MG	1A	3135	1/1	0.97	0.11	23,23,23,23	0
56	MG	2A	3137	1/1	0.97	0.34	40,40,40,40	0
56	MG	1A	3614	1/1	0.97	0.17	35,35,35,35	0
56	MG	1A	3839	1/1	0.97	0.16	43,43,43,43	0
56	MG	1R	201	1/1	0.97	0.23	32,32,32,32	0
56	MG	2A	3604	1/1	0.97	0.14	44,44,44,44	0
56	MG	1R	202	1/1	0.97	0.42	36,36,36,36	0
56	MG	1a	1757	1/1	0.97	0.12	35,35,35,35	0
56	MG	1A	3158	1/1	0.97	0.31	60,60,60,60	0
56	MG	1A	3841	1/1	0.97	0.21	39,39,39,39	0
56	MG	1A	3842	1/1	0.97	0.18	31,31,31,31	0
56	MG	1A	3046	1/1	0.97	0.16	28,28,28,28	0
56	MG	2A	3791	1/1	0.97	0.10	56,56,56,56	0
56	MG	1A	3280	1/1	0.97	0.15	21,21,21,21	0
56	MG	2a	3205	1/1	0.97	0.06	60,60,60,60	0
56	MG	1A	3281	1/1	0.97	0.26	31,31,31,31	0
56	MG	2A	3151	1/1	0.97	0.21	60,60,60,60	0
56	MG	1a	1764	1/1	0.97	0.11	58,58,58,58	0
56	MG	1A	3931	1/1	0.97	0.08	40,40,40,40	0
56	MG	2a	3210	1/1	0.97	0.09	57,57,57,57	0
56	MG	2a	3211	1/1	0.97	0.14	50,50,50,50	0
56	MG	1A	3620	1/1	0.97	0.10	52,52,52,52	0
56	MG	1A	3161	1/1	0.97	0.18	22,22,22,22	0
56	MG	1U	202	1/1	0.97	0.20	27,27,27,27	0
56	MG	1U	203	1/1	0.97	0.32	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1a	1647	1/1	0.97	0.27	55,55,55,55	0
56	MG	1A	3476	1/1	0.97	0.13	40,40,40,40	0
56	MG	1U	206	1/1	0.97	0.16	33,33,33,33	0
56	MG	2A	3161	1/1	0.97	0.39	64,64,64,64	0
56	MG	2a	3221	1/1	0.97	0.08	55,55,55,55	0
56	MG	1A	3935	1/1	0.97	0.14	40,40,40,40	0
56	MG	2A	3626	1/1	0.97	0.17	33,33,33,33	0
56	MG	1a	1774	1/1	0.97	0.14	61,61,61,61	0
56	MG	1A	4020	1/1	0.97	0.10	33,33,33,33	0
56	MG	1a	1776	1/1	0.97	0.10	58,58,58,58	0
56	MG	1A	3283	1/1	0.97	0.44	33,33,33,33	0
56	MG	2A	3167	1/1	0.97	0.15	39,39,39,39	0
56	MG	1A	3569	1/1	0.97	0.22	42,42,42,42	0
56	MG	1V	201	1/1	0.97	0.45	30,30,30,30	0
56	MG	2A	3170	1/1	0.97	0.09	52,52,52,52	0
56	MG	1A	3691	1/1	0.97	0.16	24,24,24,24	0
56	MG	2A	3032	1/1	0.97	0.20	47,47,47,47	0
56	MG	1A	3190	1/1	0.97	0.25	25,25,25,25	0
56	MG	1B	218	1/1	0.97	0.15	39,39,39,39	0
56	MG	1B	219	1/1	0.97	0.28	34,34,34,34	0
56	MG	2a	3038	1/1	0.97	0.23	53,53,53,53	0
56	MG	1A	3628	1/1	0.97	0.12	51,51,51,51	0
56	MG	2A	3477	1/1	0.97	0.14	23,23,23,23	0
56	MG	2A	3177	1/1	0.97	0.17	35,35,35,35	0
56	MG	2A	3037	1/1	0.97	0.08	68,68,68,68	0
56	MG	1A	3034	1/1	0.97	0.30	23,23,23,23	0
56	MG	1W	202	1/1	0.97	0.15	50,50,50,50	0
56	MG	2A	3330	1/1	0.97	0.13	60,60,60,60	0
56	MG	2A	3648	1/1	0.97	0.15	47,47,47,47	0
56	MG	1A	3049	1/1	0.97	0.23	39,39,39,39	0
56	MG	1A	3254	1/1	0.97	0.17	36,36,36,36	0
56	MG	2A	3651	1/1	0.97	0.20	44,44,44,44	0
56	MG	1X	101	1/1	0.97	0.23	32,32,32,32	0
56	MG	2A	3653	1/1	0.97	0.21	61,61,61,61	0
56	MG	2A	3184	1/1	0.97	0.16	41,41,41,41	0
56	MG	1A	3698	1/1	0.97	0.21	28,28,28,28	0
56	MG	2m	201	1/1	0.97	0.12	73,73,73,73	0
56	MG	2A	3835	1/1	0.97	0.14	34,34,34,34	0
56	MG	2q	202	1/1	0.97	0.13	72,72,72,72	0
56	MG	1X	103	1/1	0.97	0.31	37,37,37,37	0
56	MG	2A	3187	1/1	0.97	0.21	56,56,56,56	0
56	MG	1A	3859	1/1	0.97	0.37	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1A	3119	1/1	0.97	0.26	23,23,23,23	0
56	MG	1A	3021	1/1	0.97	0.10	21,21,21,21	0
56	MG	1A	3862	1/1	0.97	0.07	36,36,36,36	0
56	MG	1A	3326	1/1	0.97	0.18	48,48,48,48	0
56	MG	1A	3142	1/1	0.97	0.21	14,14,14,14	0
56	MG	1Z	303	1/1	0.97	0.20	42,42,42,42	0
56	MG	1B	231	1/1	0.97	0.21	39,39,39,39	0
56	MG	2A	3667	1/1	0.97	0.10	57,57,57,57	0
56	MG	2A	3668	1/1	0.97	0.19	54,54,54,54	0
56	MG	2A	3346	1/1	0.97	0.08	67,67,67,67	0
56	MG	2a	3069	1/1	0.97	0.23	62,62,62,62	0
56	MG	1A	3778	1/1	0.97	0.16	20,20,20,20	0
56	MG	2A	3851	1/1	0.97	0.10	39,39,39,39	0
56	MG	1A	3952	1/1	0.97	0.18	39,39,39,39	0
56	MG	2A	3501	1/1	0.97	0.07	58,58,58,58	0
56	MG	1A	3037	1/1	0.97	0.16	32,32,32,32	0
56	MG	2a	3075	1/1	0.97	0.22	57,57,57,57	0
56	MG	10	105	1/1	0.97	0.13	53,53,53,53	0
59	ZN	1n	102	1/1	0.97	0.15	66,66,66,66	0
56	MG	2A	3675	1/1	0.97	0.06	57,57,57,57	0
56	MG	1A	3638	1/1	0.97	0.08	40,40,40,40	0
56	MG	1A	3579	1/1	0.97	0.26	21,21,21,21	0
56	MG	1A	3227	1/1	0.97	0.26	37,37,37,37	0
60	SF4	1d	302	8/8	0.97	0.14	68,78,85,86	0
60	SF4	2d	302	8/8	0.97	0.15	59,73,81,82	0
56	MG	1A	3057	1/1	0.98	0.18	28,28,28,28	0
56	MG	2A	3877	1/1	0.98	0.24	49,49,49,49	0
56	MG	2A	3536	1/1	0.98	0.17	57,57,57,57	0
56	MG	1a	1825	1/1	0.98	0.23	43,43,43,43	0
56	MG	1a	1653	1/1	0.98	0.14	56,56,56,56	0
56	MG	1N	204	1/1	0.98	0.39	42,42,42,42	0
56	MG	1a	1828	1/1	0.98	0.25	42,42,42,42	0
56	MG	2A	3232	1/1	0.98	0.15	60,60,60,60	0
56	MG	1A	3012	1/1	0.98	0.20	28,28,28,28	0
56	MG	1A	3517	1/1	0.98	0.24	44,44,44,44	0
56	MG	1a	1742	1/1	0.98	0.12	55,55,55,55	0
56	MG	1A	3077	1/1	0.98	0.12	35,35,35,35	0
56	MG	2A	3139	1/1	0.98	0.13	34,34,34,34	0
56	MG	2A	3548	1/1	0.98	0.18	35,35,35,35	0
56	MG	2a	3171	1/1	0.98	0.12	64,64,64,64	0
56	MG	1B	216	1/1	0.98	0.16	47,47,47,47	0
56	MG	1A	3631	1/1	0.98	0.11	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	1A	3873	1/1	0.98	0.16	35,35,35,35	0
56	MG	1A	3874	1/1	0.98	0.20	27,27,27,27	0
56	MG	1A	3716	1/1	0.98	0.19	31,31,31,31	0
56	MG	1A	3818	1/1	0.98	0.11	42,42,42,42	0
56	MG	1a	1664	1/1	0.98	0.08	60,60,60,60	0
56	MG	1A	3591	1/1	0.98	0.29	35,35,35,35	0
56	MG	1h	201	1/1	0.98	0.10	58,58,58,58	0
56	MG	1P	204	1/1	0.98	0.47	23,23,23,23	0
56	MG	1l	202	1/1	0.98	0.19	41,41,41,41	0
56	MG	1A	4057	1/1	0.98	0.21	23,23,23,23	0
56	MG	2B	215	1/1	0.98	0.15	69,69,69,69	0
56	MG	2A	3455	1/1	0.98	0.17	61,61,61,61	0
56	MG	1A	3820	1/1	0.98	0.09	18,18,18,18	0
56	MG	1A	3879	1/1	0.98	0.21	36,36,36,36	0
56	MG	2B	219	1/1	0.98	0.14	62,62,62,62	0
56	MG	1A	3821	1/1	0.98	0.13	26,26,26,26	0
56	MG	1A	3042	1/1	0.98	0.28	22,22,22,22	0
56	MG	1A	3187	1/1	0.98	0.17	31,31,31,31	0
56	MG	2A	3567	1/1	0.98	0.10	54,54,54,54	0
56	MG	1Q	202	1/1	0.98	0.36	34,34,34,34	0
56	MG	2D	305	1/1	0.98	0.14	33,33,33,33	0
56	MG	1A	3125	1/1	0.98	0.47	34,34,34,34	0
56	MG	1A	3385	1/1	0.98	0.18	27,27,27,27	0
56	MG	2A	3258	1/1	0.98	0.08	67,67,67,67	0
56	MG	2A	3682	1/1	0.98	0.13	74,74,74,74	0
56	MG	1A	3723	1/1	0.98	0.17	40,40,40,40	0
56	MG	2A	3260	1/1	0.98	0.16	57,57,57,57	0
56	MG	1B	232	1/1	0.98	0.11	50,50,50,50	0
56	MG	2E	303	1/1	0.98	0.12	36,36,36,36	0
56	MG	1A	3827	1/1	0.98	0.15	39,39,39,39	0
56	MG	1A	3266	1/1	0.98	0.11	40,40,40,40	0
56	MG	2A	3577	1/1	0.98	0.16	57,57,57,57	0
56	MG	1A	4007	1/1	0.98	0.12	15,15,15,15	0
56	MG	2a	3079	1/1	0.98	0.09	56,56,56,56	0
56	MG	1A	3354	1/1	0.98	0.10	34,34,34,34	0
56	MG	1A	3355	1/1	0.98	0.49	25,25,25,25	0
56	MG	1A	3047	1/1	0.98	0.20	23,23,23,23	0
56	MG	1A	3153	1/1	0.98	0.13	26,26,26,26	0
56	MG	2a	3212	1/1	0.98	0.13	59,59,59,59	0
56	MG	1A	3457	1/1	0.98	0.21	25,25,25,25	0
56	MG	1A	3730	1/1	0.98	0.16	19,19,19,19	0
56	MG	1A	3241	1/1	0.98	0.34	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1D	305	1/1	0.98	0.30	29,29,29,29	0
56	MG	1A	3128	1/1	0.98	0.18	36,36,36,36	0
56	MG	1A	3171	1/1	0.98	0.18	44,44,44,44	0
56	MG	2Q	201	1/1	0.98	0.13	49,49,49,49	0
56	MG	1A	3687	1/1	0.98	0.16	27,27,27,27	0
56	MG	1A	4080	1/1	0.98	0.09	39,39,39,39	0
56	MG	1U	204	1/1	0.98	0.17	22,22,22,22	0
56	MG	1A	3244	1/1	0.98	0.16	42,42,42,42	0
56	MG	1a	1610	1/1	0.98	0.11	23,23,23,23	0
56	MG	1A	3141	1/1	0.98	0.18	26,26,26,26	0
56	MG	1A	3786	1/1	0.98	0.09	24,24,24,24	0
56	MG	1A	3173	1/1	0.98	0.32	34,34,34,34	0
56	MG	2A	3708	1/1	0.98	0.09	31,31,31,31	0
56	MG	1A	3174	1/1	0.98	0.26	27,27,27,27	0
56	MG	1U	211	1/1	0.98	0.16	28,28,28,28	0
56	MG	1A	3692	1/1	0.98	0.14	55,55,55,55	0
56	MG	2A	3092	1/1	0.98	0.10	48,48,48,48	0
56	MG	2A	3188	1/1	0.98	0.11	43,43,43,43	0
56	MG	1A	3219	1/1	0.98	0.30	32,32,32,32	0
56	MG	2a	3235	1/1	0.98	0.06	66,66,66,66	0
56	MG	1A	3196	1/1	0.98	0.11	38,38,38,38	0
56	MG	1A	3792	1/1	0.98	0.15	45,45,45,45	0
56	MG	2A	3717	1/1	0.98	0.04	51,51,51,51	0
56	MG	1A	3307	1/1	0.98	0.17	26,26,26,26	0
56	MG	1A	4091	1/1	0.98	0.20	31,31,31,31	0
56	MG	1V	206	1/1	0.98	0.10	29,29,29,29	0
56	MG	1a	1708	1/1	0.98	0.27	58,58,58,58	0
56	MG	1A	3743	1/1	0.98	0.12	22,22,22,22	0
56	MG	1A	3097	1/1	0.98	0.32	35,35,35,35	0
56	MG	1A	3066	1/1	0.98	0.13	29,29,29,29	0
56	MG	2A	3725	1/1	0.98	0.09	34,34,34,34	0
56	MG	1W	203	1/1	0.98	0.17	31,31,31,31	0
56	MG	2A	3505	1/1	0.98	0.17	57,57,57,57	0
56	MG	1E	312	1/1	0.98	0.13	39,39,39,39	0
56	MG	2A	3843	1/1	0.98	0.16	35,35,35,35	0
56	MG	1A	3223	1/1	0.98	0.08	46,46,46,46	0
56	MG	1a	1629	1/1	0.98	0.15	54,54,54,54	0
56	MG	1A	3199	1/1	0.98	0.21	20,20,20,20	0
56	MG	1A	3177	1/1	0.98	0.20	25,25,25,25	0
56	MG	28	102	1/1	0.98	0.10	48,48,48,48	0
56	MG	1F	301	1/1	0.98	0.16	27,27,27,27	0
56	MG	2a	3129	1/1	0.98	0.24	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1F	302	1/1	0.98	0.17	30,30,30,30	0
56	MG	1F	303	1/1	0.98	0.23	28,28,28,28	0
56	MG	1A	3749	1/1	0.98	0.11	30,30,30,30	0
56	MG	1Y	202	1/1	0.98	0.12	68,68,68,68	0
56	MG	1A	3856	1/1	0.98	0.14	16,16,16,16	0
56	MG	1A	3108	1/1	0.98	0.25	36,36,36,36	0
56	MG	1a	1725	1/1	0.98	0.16	42,42,42,42	0
56	MG	1A	3702	1/1	0.98	0.12	8,8,8,8	0
56	MG	1B	201	1/1	0.98	0.29	48,48,48,48	0
56	MG	1A	3439	1/1	0.98	0.19	44,44,44,44	0
56	MG	2A	3744	1/1	0.98	0.21	44,44,44,44	0
56	MG	1A	3804	1/1	0.98	0.17	22,22,22,22	0
56	MG	1A	3704	1/1	0.98	0.10	21,21,21,21	0
56	MG	2A	3122	1/1	0.98	0.24	53,53,53,53	0
56	MG	2A	3863	1/1	0.98	0.12	28,28,28,28	0
56	MG	1A	3073	1/1	0.98	0.16	14,14,14,14	0
56	MG	1A	3621	1/1	0.98	0.21	27,27,27,27	0
56	MG	2A	3322	1/1	0.98	0.10	48,48,48,48	0
56	MG	1A	3160	1/1	0.98	0.33	26,26,26,26	0
58	K	2A	3889	1/1	0.98	0.09	36,36,36,36	0
56	MG	1A	3442	1/1	0.98	0.40	36,36,36,36	0
56	MG	2A	3223	1/1	0.98	0.10	45,45,45,45	0
56	MG	2A	3127	1/1	0.98	0.29	65,65,65,65	0
56	MG	1A	3003	1/1	0.98	0.16	19,19,19,19	0
59	ZN	25	106	1/1	0.98	0.20	57,57,57,57	0
56	MG	2A	3642	1/1	0.98	0.07	41,41,41,41	0
56	MG	2A	3328	1/1	0.98	0.09	41,41,41,41	0
56	MG	2A	3758	1/1	0.98	0.11	64,64,64,64	0
56	MG	1A	3162	1/1	0.98	0.81	31,31,31,31	0
56	MG	27	102	1/1	0.99	0.26	34,34,34,34	0
56	MG	1A	3001	1/1	0.99	0.13	39,39,39,39	0
56	MG	1U	207	1/1	0.99	0.13	29,29,29,29	0
56	MG	1A	3036	1/1	0.99	0.16	15,15,15,15	0
56	MG	1A	3622	1/1	0.99	0.14	22,22,22,22	0
56	MG	2A	3147	1/1	0.99	0.29	31,31,31,31	0
56	MG	1A	3919	1/1	0.99	0.16	30,30,30,30	0
56	MG	1A	3373	1/1	0.99	0.10	43,43,43,43	0
56	MG	2A	3625	1/1	0.99	0.14	57,57,57,57	0
56	MG	2A	3307	1/1	0.99	0.17	54,54,54,54	0
56	MG	1A	3228	1/1	0.99	0.21	32,32,32,32	0
56	MG	1B	238	1/1	0.99	0.12	37,37,37,37	0
56	MG	2A	3660	1/1	0.99	0.09	33,33,33,33	0

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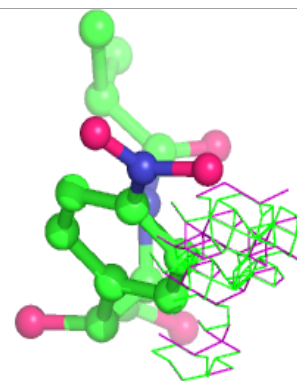
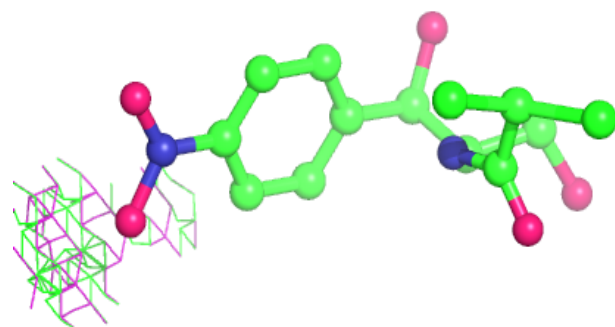
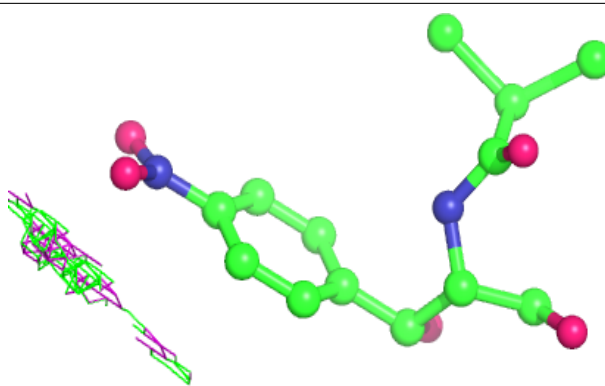
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	1E	305	1/1	0.99	0.31	32,32,32,32	0
56	MG	1A	3645	1/1	0.99	0.21	20,20,20,20	0
56	MG	1a	1816	1/1	0.99	0.14	53,53,53,53	0
56	MG	1A	3045	1/1	0.99	0.12	28,28,28,28	0
56	MG	2A	3080	1/1	0.99	0.15	56,56,56,56	0
56	MG	1A	3079	1/1	0.99	0.23	26,26,26,26	0
56	MG	2A	3288	1/1	0.99	0.24	36,36,36,36	0
56	MG	2A	3545	1/1	0.99	0.13	35,35,35,35	0
56	MG	2A	3429	1/1	0.99	0.31	53,53,53,53	0
56	MG	1A	3719	1/1	0.99	0.13	47,47,47,47	0
56	MG	1A	3785	1/1	0.99	0.15	37,37,37,37	0
56	MG	2a	3055	1/1	0.99	0.12	60,60,60,60	0
56	MG	1a	1644	1/1	0.99	0.12	39,39,39,39	0
56	MG	2a	3128	1/1	0.99	0.06	44,44,44,44	0
58	K	1A	4103	1/1	0.99	0.10	21,21,21,21	0
56	MG	2a	3022	1/1	0.99	0.06	43,43,43,43	0
59	ZN	1Y	204	1/1	0.99	0.19	53,53,53,53	0
56	MG	1A	3225	1/1	0.99	0.19	39,39,39,39	0
59	ZN	15	106	1/1	0.99	0.20	38,38,38,38	0
59	ZN	16	104	1/1	0.99	0.21	37,37,37,37	0
59	ZN	19	102	1/1	0.99	0.22	40,40,40,40	0
56	MG	2a	3094	1/1	0.99	0.22	62,62,62,62	0
56	MG	1B	210	1/1	0.99	0.20	51,51,51,51	0
56	MG	1A	4063	1/1	0.99	0.12	46,46,46,46	0
56	MG	1a	1648	1/1	0.99	0.11	48,48,48,48	0
59	ZN	26	501	1/1	0.99	0.17	64,64,64,64	0
56	MG	1A	3660	1/1	0.99	0.20	31,31,31,31	0
56	MG	1A	3618	1/1	0.99	0.20	26,26,26,26	0
56	MG	1A	3286	1/1	0.99	0.37	42,42,42,42	0
56	MG	2A	3019	1/1	0.99	0.11	30,30,30,30	0
56	MG	1A	3127	1/1	1.00	0.14	42,42,42,42	0

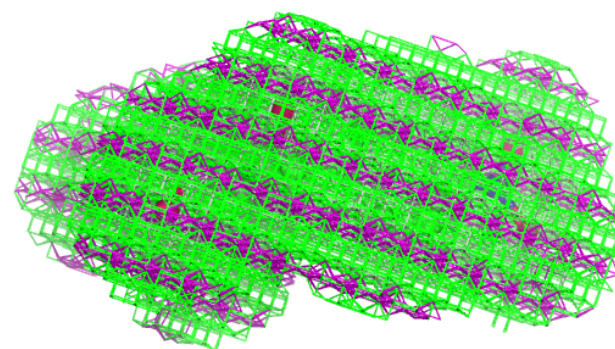
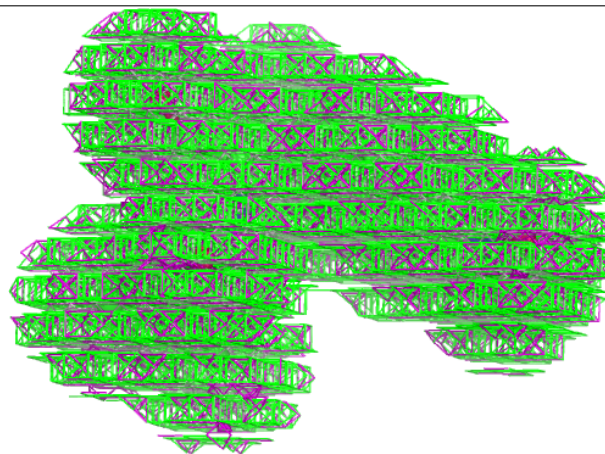
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around CLM 2A 3888:

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

**Electron density around CLM 1A 4102:**

$2mF_o-DF_c$ (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.