



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 10, 2026 – 03:29 PM UTC

PDB ID : 7RQA / pdb_00007rqa
Title : Crystal structure of the Thermus thermophilus 70S ribosome in complex with protein Y, A-site aminoacyl-tRNA analog ACC-PMN, and P-site MTI-tripeptidyl-tRNA analog ACCA-ITM at 2.40Å resolution
Authors : Syroegin, E.A.; Flemmich, L.; Klepacki, D.; Vazquez-Laslop, N.; Micura, R.; Polikanov, Y.S.
Deposited on : 2021-08-06
Resolution : 2.40 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 ⓘ](#)) were used in the production of this report:

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

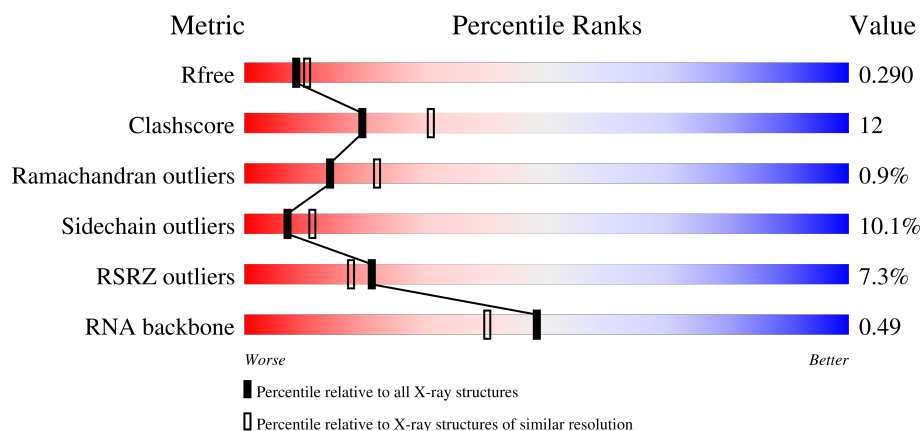
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)
RNA backbone	3983	1155 (2.70-2.10)

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	4% 57% 34% 7%
1	2A	2915	5% 53% 37% 8%
2	1B	121	53% 40% 6%

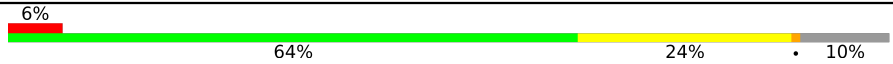
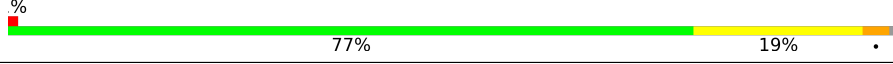
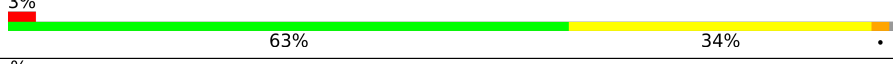
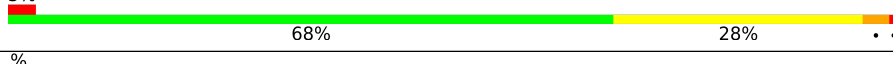
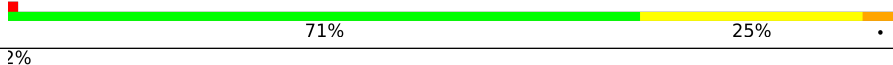
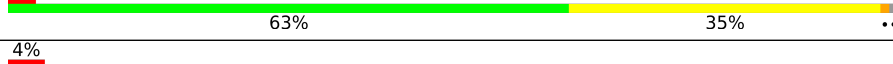
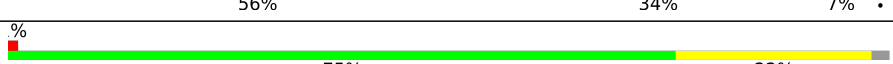
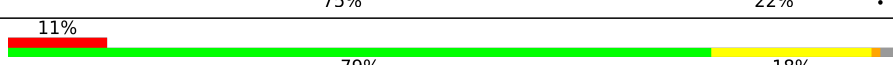
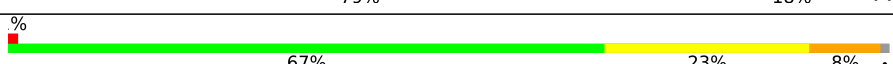
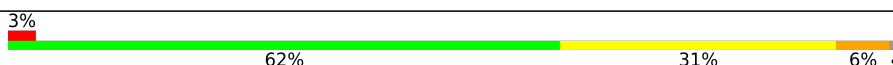
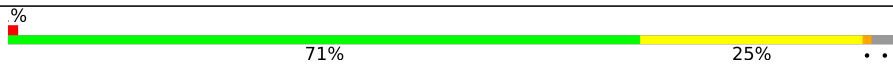
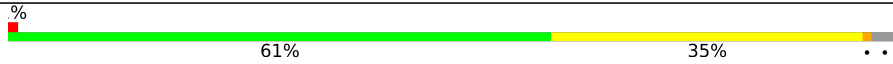
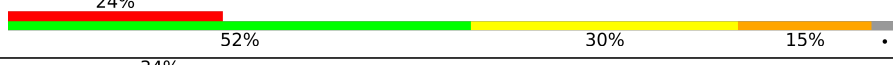
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Mol	Chain	Length	Quality of chain
2	2B	121	
3	1D	276	
3	2D	276	
4	1E	206	
4	2E	206	
5	1F	210	
5	2F	210	
6	1G	182	
6	2G	182	
7	1H	180	
7	2H	180	
8	1I	148	
8	2I	148	
9	1N	140	
9	2N	140	
10	1O	122	
10	2O	122	
11	1P	150	
11	2P	150	
12	1Q	141	
12	2Q	141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

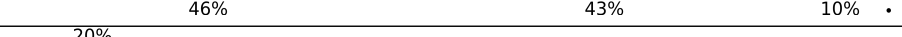
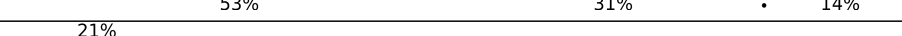
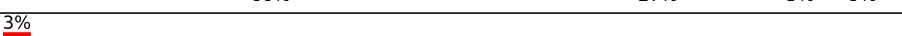
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Mol	Chain	Length	Quality of chain
15	1T	146	
15	2T	146	
16	1U	118	
16	2U	118	
17	1V	101	
17	2V	101	
18	1W	113	
18	2W	113	
19	1X	96	
19	2X	96	
20	1Y	110	
20	2Y	110	
21	1Z	206	
21	2Z	206	
22	10	85	
22	20	85	
23	11	98	
23	21	98	
24	12	72	
24	22	72	
25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

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Mol	Chain	Length	Quality of chain
27	25	60	
28	16	54	
28	26	54	
29	17	49	
29	27	49	
30	18	65	
30	28	65	
31	19	37	
31	29	37	
32	1a	1521	
32	2a	1521	
33	1b	256	
33	2b	256	
34	1c	239	
34	2c	239	
35	1d	209	
35	2d	209	
36	1e	162	
36	2e	162	
37	1f	101	
37	2f	101	
38	1g	156	
38	2g	156	
39	1h	138	
39	2h	138	

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

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Mol	Chain	Length	Quality of chain
52	2u	27	
53	1y	113	
53	2y	113	
54	1w	4	
54	2w	4	
55	1x	4	
55	2x	4	
56	1v	3	
56	2v	3	

2 Entry composition [i](#)

There are 63 unique types of molecules in this entry. The entry contains 297986 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2872	Total	C	N	O	P	0	0	0
			61869	27540	11574	19884	2871			
1	2A	2867	Total	C	N	O	P	0	0	0
			61758	27491	11552	19850	2865			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1B	120	Total	C	N	O	P	0	0	0
			2572	1145	476	832	119			
2	2B	120	Total	C	N	O	P	0	0	0
			2573	1146	476	832	119			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	1D	275	Total	C	N	O	S	0	0	0
			2131	1346	422	360	3			
3	2D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1G	181	Total	C	N	O	S	0	0	0
			1426	916	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1424	912	259	249	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	1H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	2H	173	Total	C	N	O	S	0	0	0
			1324	842	247	234	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	147	Total	C	N	O	S	0	0	0
			1094	699	191	203	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1076	687	186	202	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	1N	140	Total	C	N	O	S	0	0	0
			1121	722	208	187	4			
9	2N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	1S	110	Total	C	N	O	0	0	0
			877	553	175	149			
14	2S	110	Total	C	N	O	0	0	0
			870	549	173	148			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	1V	101	Total	C	N	O	S	0	0	0
			775	498	141	135	1			
17	2V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	1Y	107	Total	C	N	O	S	0	0	0
			810	520	153	131	6			
20	2Y	107	Total	C	N	O	S	0	0	0
			810	519	153	132	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	203	Total	C	N	O	S	0	0	0
			1587	1011	282	292	2			
21	2Z	201	Total	C	N	O	S	0	0	0
			1557	995	274	286	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
			650	401	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
			754	475	148	130	1			
23	21	97	Total	C	N	O	S	0	0	0
			759	478	149	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
			592	368	119	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
			546	346	96	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			536	342	98	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
			459	288	90	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	1504	Total	C	N	O	P	0	0	0
			32331	14396	5990	10441	1504			

- 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
			1842	1175	330	332	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
			1558	979	305	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
			1665	1043	329	286	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1668	1047	330	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
			1133	716	214	199	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
			814	516	144	151	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
			1235	769	244	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1229	766	241	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
			1098	694	210	192	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
			986	625	193	168			
40	2i	126	Total	C	N	O	0	0	0
			966	613	186	167			

- 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
			719	446	142	131			
41	2j	96	Total	C	N	O	0	0	0
			710	442	137	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
			834	520	156	155	3			

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1m	116	Total	C	N	O	S	0	0	0
			914	564	189	159	2			
44	2m	114	Total	C	N	O	S	0	0	0
			895	550	186	157	2			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1s	83	Total	C	N	O	S	0	0	0
			648	415	120	111	2			
50	2s	83	Total	C	N	O	S	0	0	0
			645	410	118	115	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
			732	449	157	124	2			
51	2t	98	Total	C	N	O	S	0	0	0
			733	451	154	126	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 protein called Ribosome-associated inhibitor A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1y	97	Total	C	N	O	S	0	0	0
			764	478	144	139	3			
53	2y	96	Total	C	N	O	S	0	0	0
			749	468	141	137	3			

- Molecule 54 is a RNA chain called A-site Aminoacyl-tRNA Analog.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	1w	4	Total	C	N	O	P	0	0	1
			78	40	13	22	3			
54	2w	4	Total	C	N	O	P	0	0	1
			78	40	13	22	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	1x	4	Total	C	N	O	P	0	0	1
			63	28	12	20	3			
55	2x	4	Total	C	N	O	P	0	0	1
			63	28	12	20	3			

- Molecule 56 is a protein called P-site Peptidyl-tRNA Analog Peptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	1v	3	Total	C	N	O	S	0	0	0
			23	15	3	4	1			
56	2v	3	Total	C	N	O	S	0	0	0
			23	15	3	4	1			

- Molecule 57 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1A	1028	Total	Mg	0	0
			1028	1028		
57	1B	30	Total	Mg	0	0
			30	30		
57	1D	18	Total	Mg	0	0
			18	18		
57	1E	10	Total	Mg	0	0
			10	10		
57	1F	16	Total	Mg	0	0
			16	16		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1G	4	Total 4	Mg 4	0	0
57	1H	2	Total 2	Mg 2	0	0
57	1N	4	Total 4	Mg 4	0	0
57	1O	1	Total 1	Mg 1	0	0
57	1P	4	Total 4	Mg 4	0	0
57	1Q	5	Total 5	Mg 5	0	0
57	1R	4	Total 4	Mg 4	0	0
57	1T	4	Total 4	Mg 4	0	0
57	1U	8	Total 8	Mg 8	0	0
57	1V	7	Total 7	Mg 7	0	0
57	1W	2	Total 2	Mg 2	0	0
57	1X	1	Total 1	Mg 1	0	0
57	1Z	1	Total 1	Mg 1	0	0
57	10	8	Total 8	Mg 8	0	0
57	11	5	Total 5	Mg 5	0	0
57	13	3	Total 3	Mg 3	0	0
57	15	8	Total 8	Mg 8	0	0
57	17	5	Total 5	Mg 5	0	0
57	18	3	Total 3	Mg 3	0	0
57	19	3	Total 3	Mg 3	0	0
57	1a	280	Total 280	Mg 280	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1b	1	Total 1	Mg 1	0	0
57	1d	6	Total 6	Mg 6	0	0
57	1e	3	Total 3	Mg 3	0	0
57	1f	2	Total 2	Mg 2	0	0
57	1g	2	Total 2	Mg 2	0	0
57	1h	2	Total 2	Mg 2	0	0
57	1i	1	Total 1	Mg 1	0	0
57	1l	2	Total 2	Mg 2	0	0
57	1m	1	Total 1	Mg 1	0	0
57	1n	1	Total 1	Mg 1	0	0
57	1o	2	Total 2	Mg 2	0	0
57	1t	2	Total 2	Mg 2	0	0
57	1y	3	Total 3	Mg 3	0	0
57	1w	1	Total 1	Mg 1	0	0
57	1x	2	Total 2	Mg 2	0	0
57	2A	737	Total 737	Mg 737	0	0
57	2B	20	Total 20	Mg 20	0	0
57	2D	11	Total 11	Mg 11	0	0
57	2E	6	Total 6	Mg 6	0	0
57	2F	4	Total 4	Mg 4	0	0
57	2G	2	Total 2	Mg 2	0	0

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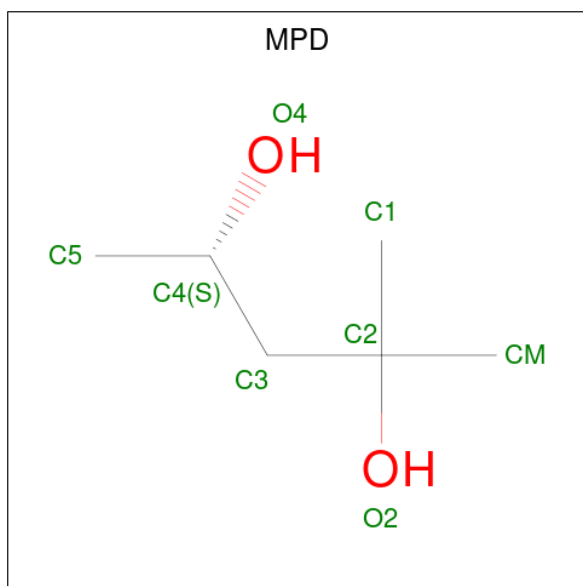
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	2I	1	Total 1	Mg 1	0	0
57	2N	1	Total 1	Mg 1	0	0
57	2O	1	Total 1	Mg 1	0	0
57	2P	3	Total 3	Mg 3	0	0
57	2Q	4	Total 4	Mg 4	0	0
57	2R	3	Total 3	Mg 3	0	0
57	2T	4	Total 4	Mg 4	0	0
57	2U	1	Total 1	Mg 1	0	0
57	2V	3	Total 3	Mg 3	0	0
57	2W	2	Total 2	Mg 2	0	0
57	2Y	1	Total 1	Mg 1	0	0
57	20	2	Total 2	Mg 2	0	0
57	21	1	Total 1	Mg 1	0	0
57	23	1	Total 1	Mg 1	0	0
57	25	3	Total 3	Mg 3	0	0
57	26	1	Total 1	Mg 1	0	0
57	27	1	Total 1	Mg 1	0	0
57	28	1	Total 1	Mg 1	0	0
57	2a	191	Total 191	Mg 191	0	0
57	2e	2	Total 2	Mg 2	0	0
57	2f	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	2h	1	Total Mg 1 1	0	0
57	2j	1	Total Mg 1 1	0	0
57	2k	2	Total Mg 2 2	0	0
57	2p	1	Total Mg 1 1	0	0
57	2r	1	Total Mg 1 1	0	0
57	2t	1	Total Mg 1 1	0	0
57	2x	1	Total Mg 1 1	0	0

- Molecule 58 is (4S)-2-METHYL-2,4-PENTANEDIOL (CCD ID: MPD) (formula: C₆H₁₄O₂).



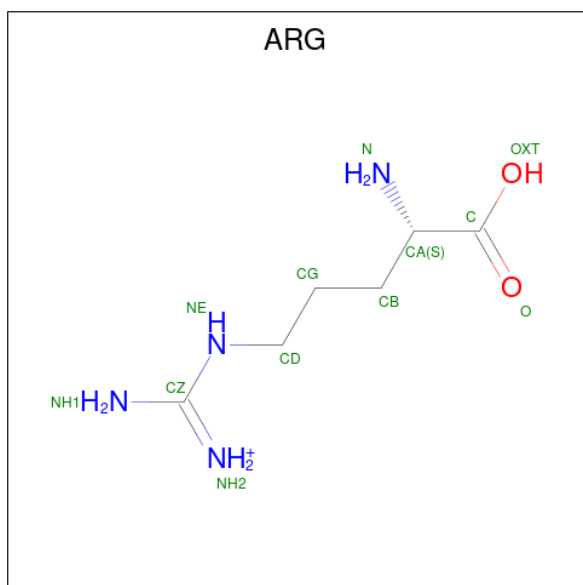
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1A	1	Total C O 8 6 2	0	0
58	1T	1	Total C O 8 6 2	0	0
58	18	1	Total C O 8 6 2	0	0
58	1a	1	Total C O 8 6 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
58	2A	1	Total	C	O	0	0
			8	6	2		
58	2B	1	Total	C	O	0	0
			8	6	2		

- Molecule 59 is ARGinine (CCD ID: ARG) (formula: $C_6H_{15}N_4O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
59	1B	1	Total	C	N	O	0	0
			12	6	4	2		
59	1F	1	Total	C	N	O	0	0
			12	6	4	2		

- Molecule 60 is ZINC ION (CCD ID: ZN) (formula: Zn).

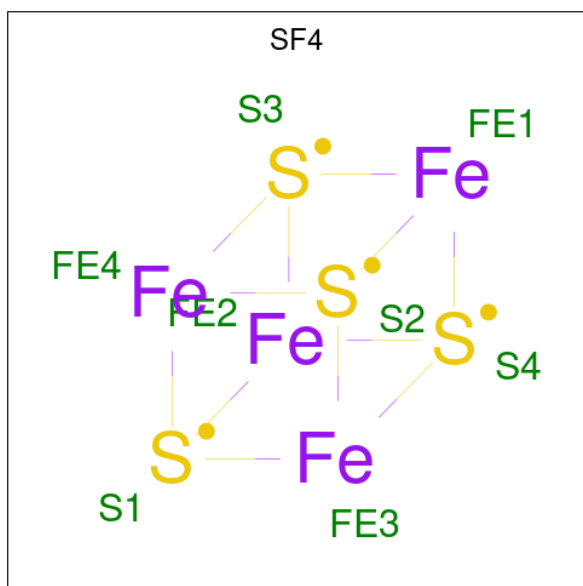
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1Y	1	Total	Zn	0	0
			1	1		
60	14	1	Total	Zn	0	0
			1	1		
60	15	1	Total	Zn	0	0
			1	1		
60	16	1	Total	Zn	0	0
			1	1		
60	19	1	Total	Zn	0	0
			1	1		

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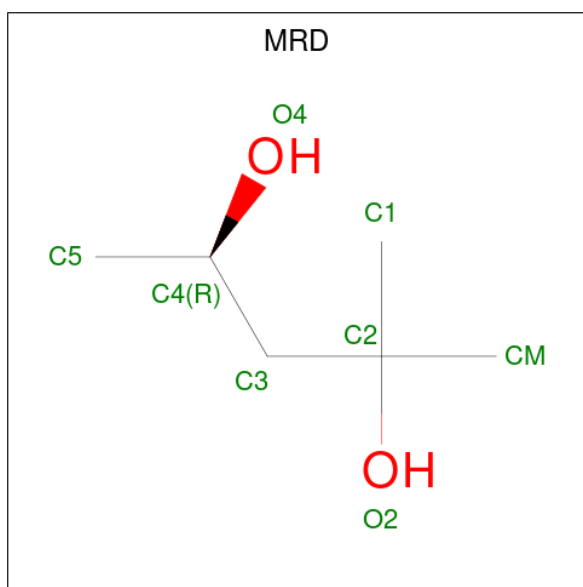
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	1n	1	Total	Zn	0	0
			1	1		
60	2Y	1	Total	Zn	0	0
			1	1		
60	24	1	Total	Zn	0	0
			1	1		
60	25	1	Total	Zn	0	0
			1	1		
60	26	1	Total	Zn	0	0
			1	1		
60	29	1	Total	Zn	0	0
			1	1		
60	2n	1	Total	Zn	0	0
			1	1		

- Molecule 61 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
61	1d	1	Total	Fe	S	0	0
			8	4	4		
61	2d	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 62 is (4R)-2-METHYLPENTANE-2,4-DIOL (CCD ID: MRD) (formula: $\text{C}_6\text{H}_{14}\text{O}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
62	2A	1	Total	C	O	0	0
			8	6	2		

- Molecule 63 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
63	1A	3988	Total	O	0	0
			3988	3988		
63	1B	97	Total	O	0	0
			97	97		
63	1D	113	Total	O	0	0
			113	113		
63	1E	76	Total	O	0	0
			76	76		
63	1F	67	Total	O	0	0
			67	67		
63	1G	19	Total	O	0	0
			19	19		
63	1H	11	Total	O	0	0
			11	11		
63	1I	8	Total	O	0	0
			8	8		
63	1N	52	Total	O	0	0
			52	52		
63	1O	22	Total	O	0	0
			22	22		
63	1P	66	Total	O	0	0
			66	66		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
63	1Q	36	Total 36	O 36	0	0
63	1R	32	Total 32	O 32	0	0
63	1S	12	Total 12	O 12	0	0
63	1T	34	Total 34	O 34	0	0
63	1U	47	Total 47	O 47	0	0
63	1V	40	Total 40	O 40	0	0
63	1W	33	Total 33	O 33	0	0
63	1X	26	Total 26	O 26	0	0
63	1Y	16	Total 16	O 16	0	0
63	1Z	14	Total 14	O 14	0	0
63	10	24	Total 24	O 24	0	0
63	11	27	Total 27	O 27	0	0
63	12	18	Total 18	O 18	0	0
63	13	24	Total 24	O 24	0	0
63	14	3	Total 3	O 3	0	0
63	15	24	Total 24	O 24	0	0
63	16	18	Total 18	O 18	0	0
63	17	12	Total 12	O 12	0	0
63	18	27	Total 27	O 27	0	0
63	19	6	Total 6	O 6	0	0
63	1a	511	Total 511	O 511	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
63	1b	1	Total 1	O 1	0	0
63	1d	8	Total 8	O 8	0	0
63	1e	3	Total 3	O 3	0	0
63	1f	2	Total 2	O 2	0	0
63	1j	1	Total 1	O 1	0	0
63	1k	1	Total 1	O 1	0	0
63	1l	3	Total 3	O 3	0	0
63	1m	1	Total 1	O 1	0	0
63	1o	3	Total 3	O 3	0	0
63	1p	2	Total 2	O 2	0	0
63	1t	1	Total 1	O 1	0	0
63	1y	7	Total 7	O 7	0	0
63	1w	6	Total 6	O 6	0	0
63	1x	5	Total 5	O 5	0	0
63	2A	2224	Total 2224	O 2224	0	0
63	2B	45	Total 45	O 45	0	0
63	2D	50	Total 50	O 50	0	0
63	2E	29	Total 29	O 29	0	0
63	2F	22	Total 22	O 22	0	0
63	2G	7	Total 7	O 7	0	0
63	2H	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
63	2I	3	Total 3	O 3	0	0
63	2N	2	Total 2	O 2	0	0
63	2O	16	Total 16	O 16	0	0
63	2P	25	Total 25	O 25	0	0
63	2Q	16	Total 16	O 16	0	0
63	2R	20	Total 20	O 20	0	0
63	2S	5	Total 5	O 5	0	0
63	2T	10	Total 10	O 10	0	0
63	2U	12	Total 12	O 12	0	0
63	2V	9	Total 9	O 9	0	0
63	2W	23	Total 23	O 23	0	0
63	2X	7	Total 7	O 7	0	0
63	2Y	6	Total 6	O 6	0	0
63	2Z	11	Total 11	O 11	0	0
63	20	14	Total 14	O 14	0	0
63	21	20	Total 20	O 20	0	0
63	22	3	Total 3	O 3	0	0
63	23	4	Total 4	O 4	0	0
63	24	2	Total 2	O 2	0	0
63	25	9	Total 9	O 9	0	0
63	26	5	Total 5	O 5	0	0

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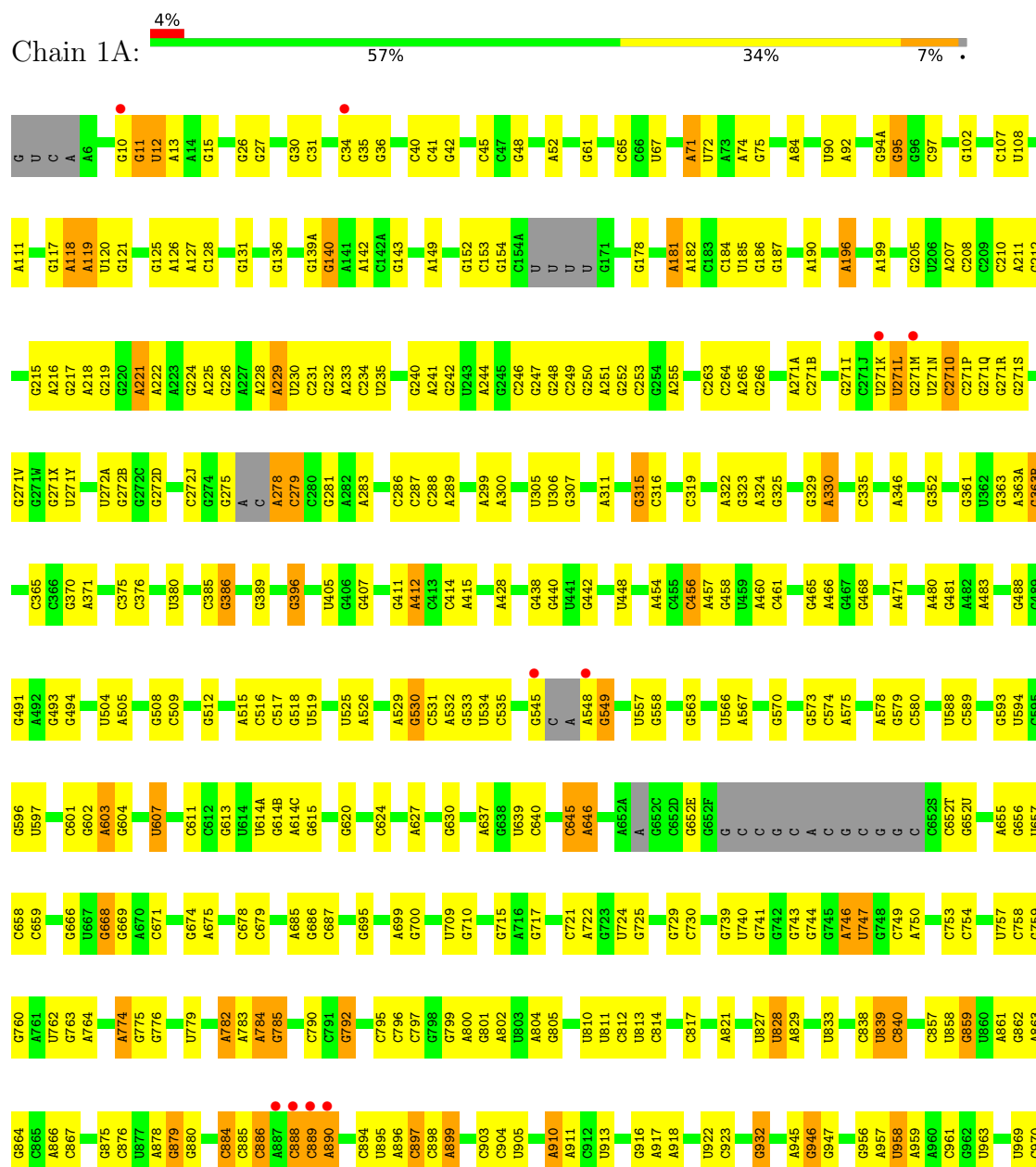
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
63	27	9	Total 9	O 9	0	0
63	28	12	Total 12	O 12	0	0
63	29	1	Total 1	O 1	0	0
63	2a	384	Total 384	O 384	0	0
63	2d	4	Total 4	O 4	0	0
63	2e	2	Total 2	O 2	0	0
63	2f	3	Total 3	O 3	0	0
63	2j	2	Total 2	O 2	0	0
63	2l	4	Total 4	O 4	0	0
63	2m	1	Total 1	O 1	0	0
63	2o	4	Total 4	O 4	0	0
63	2p	1	Total 1	O 1	0	0
63	2q	1	Total 1	O 1	0	0
63	2r	3	Total 3	O 3	0	0
63	2t	2	Total 2	O 2	0	0
63	2u	1	Total 1	O 1	0	0
63	2y	3	Total 3	O 3	0	0
63	2w	3	Total 3	O 3	0	0
63	2x	3	Total 3	O 3	0	0

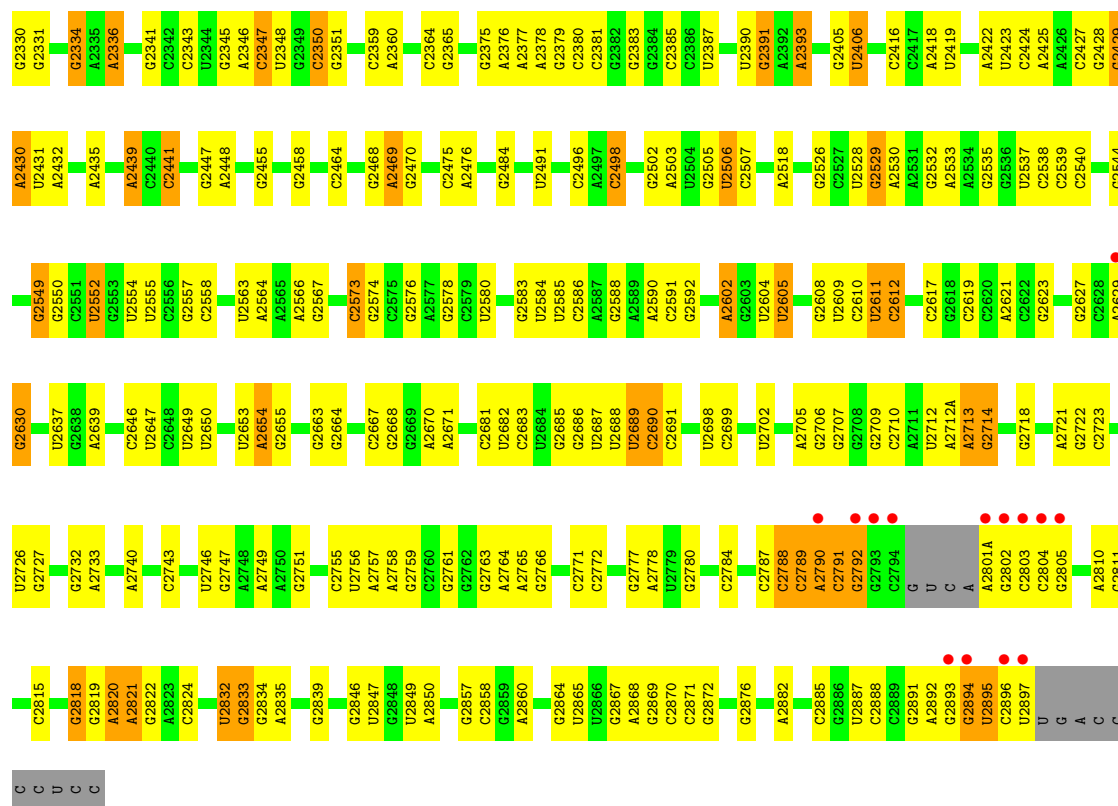
3 Residue-property plots

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

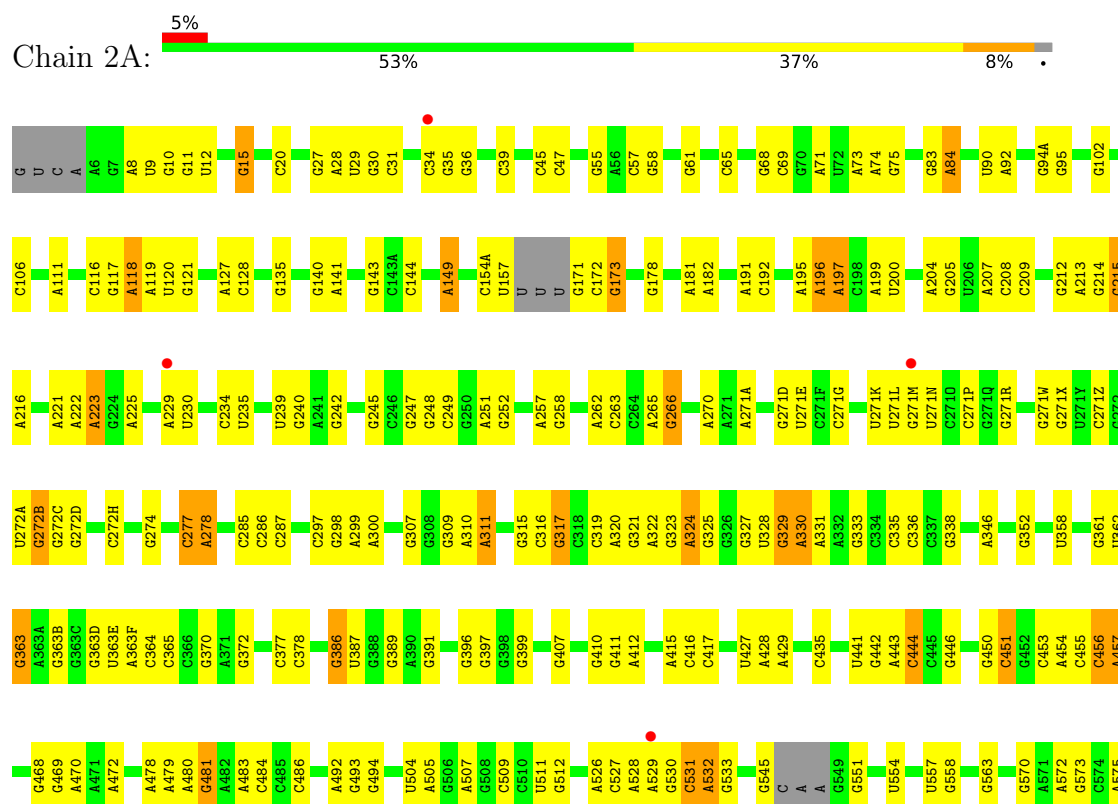
• Molecule 1: 23S Ribosomal RNA



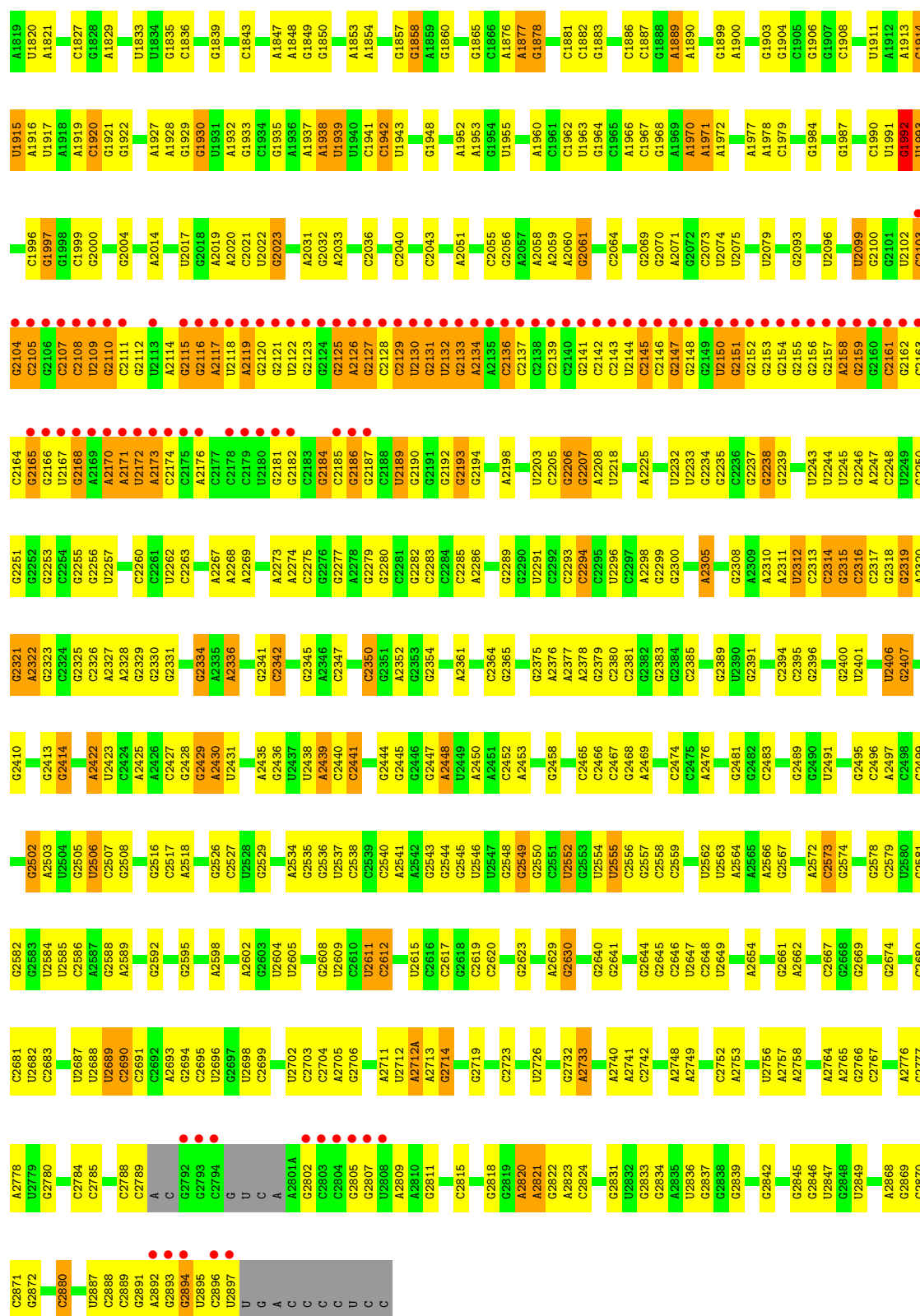


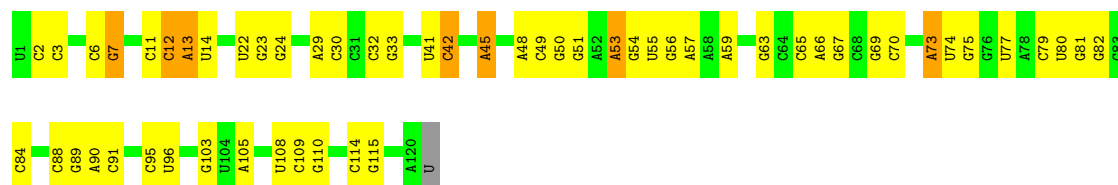


• Molecule 1: 23S Ribosomal RNA

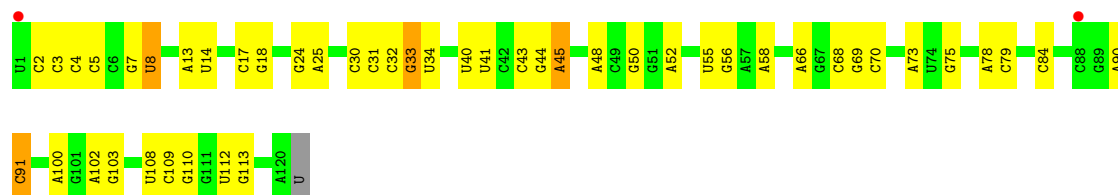


G1721	C1598	G1526	G1428	G1332	C1230	G1139	G1063	G989	A896	G818	C730	U576
A1722	C1599	G1527	G1442	U1335	G1235	C1147	C1064	A990	C897	A821	C731	G577
G1740	U1602	G1529	G1443	U1336	G1236	A1148	U1065	C991	A898	G822	G732	A578
G1748	C1607	C1530	A1444	U1340	G1239	C1153	G1068	G993	G906	U826	U740	C580
A1749	A1608	C1531	A1445	U1341	U1240	G1154	A1069	C994	U907	U827	G741	C581
G1750	A1609	G1532	G1445A	A1342	A1244	A1155	A1070	C995	A910	U828	G744	G582
	A1610	U	C1446	C1345	G1244	A1156	G1071	A996	A911	A829	G745	G583
C1754	A1614	A	A1449	U1352	A1247	C1161	C1072	U999	A912	G830	G746	C584
A1755	G1615	G1536	C1450	A1353	G1248	G1162	G1073	A1000	A913	G831	G747	G585
G1757	A1616	G1537	C1451	A1354	G1253	U1165	G1074	A1001	C914	G832	G748	A586
G1758		G1538	G1451	G1355	A1254	U1166	C1075	C1004	G915	U833	C749	C587
	U1621	G1539	A1452	G1356	A1255	U1167	C1076	C1005	A917	U834	A750	C588
A1762	G1622	G1540	A1453	A1359	A1256	U1168	A1077	C1006	U922	G835	A751	A590
G1763		G1541	G1455	A1360	C1257	G1171	C1078	C1007	U923	A841	A752	
G1764	A1631A	C1543	G1459	A1364	C1258	G1172	U1081	C1008	C923	U847	C753	C595
	A1637	A1544	A1460	A1365	G1264	G1173	U1082	A1009	A926	G848	A764	U597
C1771	C1638	A1545	G1465	A1366	G1265	U	U1083	A1010	G927	A849	G765	G598
G1772	U1639	C1546	G1466	A1367	A1266	G	A1084	G1011	G928	C850	G771	G599
A1773	C1640	C1547	C1467	G1368	U1267	A	A1085	U1012		C851		G600
G1776	A1641	G1548		G1369	U1268	C1178	A1086	C1013	G932	U851		C601
U1777		C1549	A1471	G1371	A1269	C1179	A1087	A1020		G854	A774	G602
U1778	G1642	C1550		U1372	A1270	C1180	A1088	U1023	G938	C855	G775	A603
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A1783		G1560	G1482	G1381	A1275	G1190	U1094	A1028	G947	A861	A784	
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A1816	G1703	A1595	G1520	G1426	G1328	G1229	G1136	U	C986	C893	C812	U639
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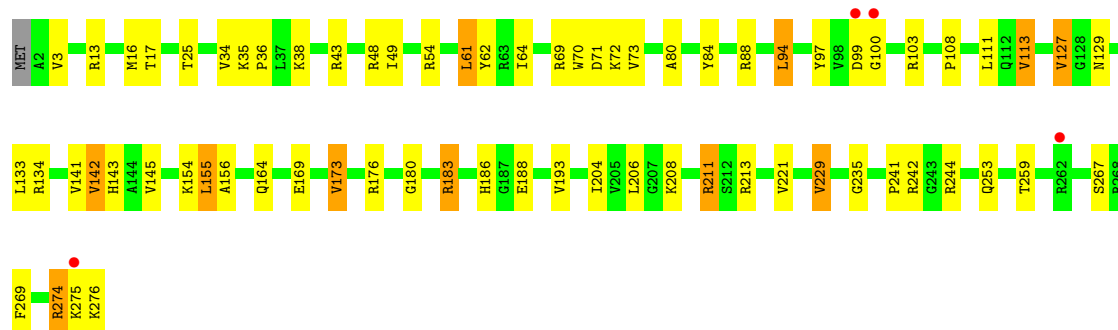
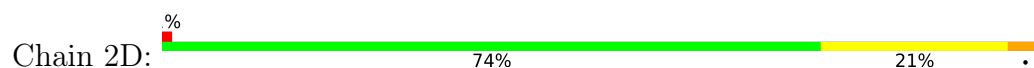
• Molecule 2: 5S Ribosomal RNA



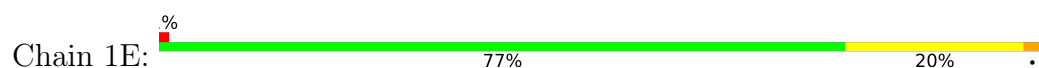
• Molecule 3: 50S ribosomal protein L2

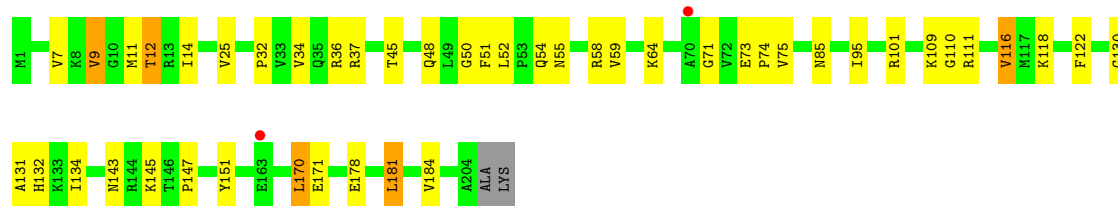


• Molecule 3: 50S ribosomal protein L2

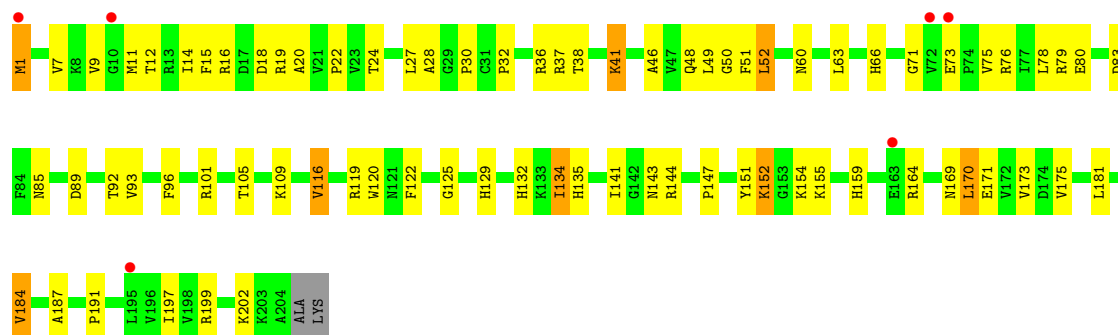


• Molecule 4: 50S ribosomal protein L3

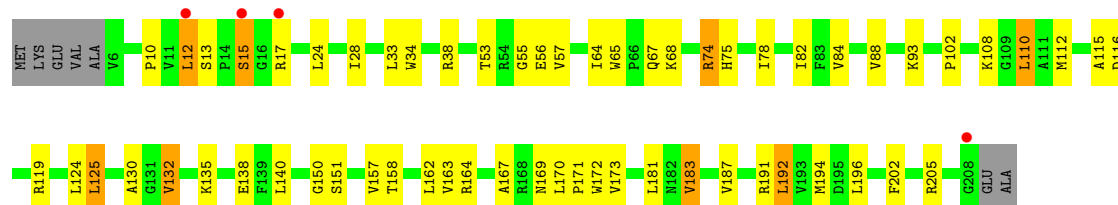




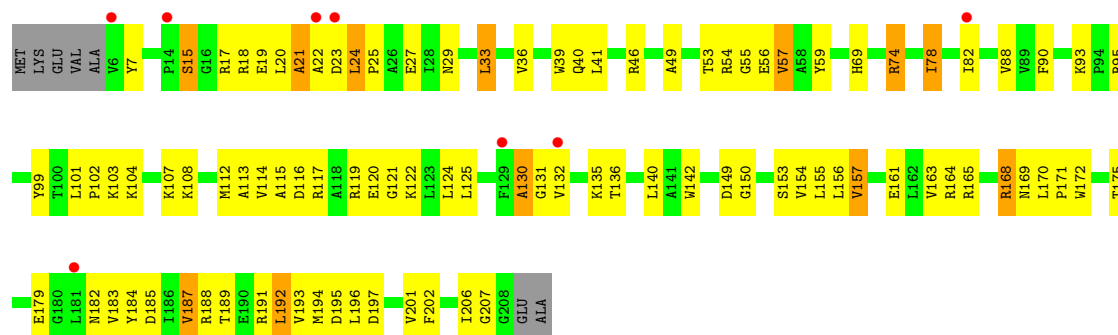
• Molecule 4: 50S ribosomal protein L3



• Molecule 5: 50S ribosomal protein L4

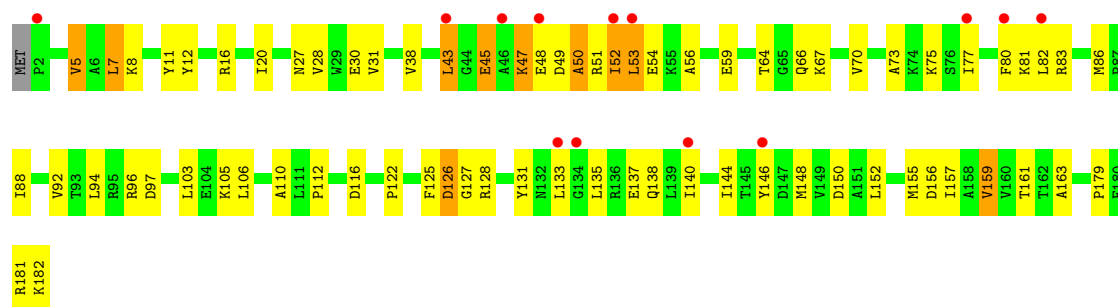


• Molecule 5: 50S ribosomal protein L4

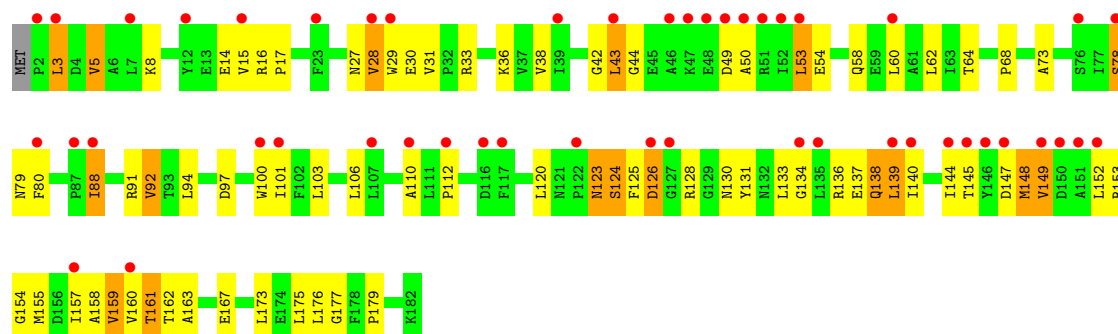


• Molecule 6: 50S ribosomal protein L5

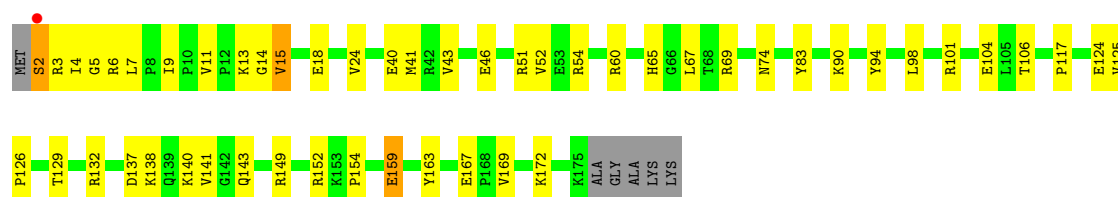




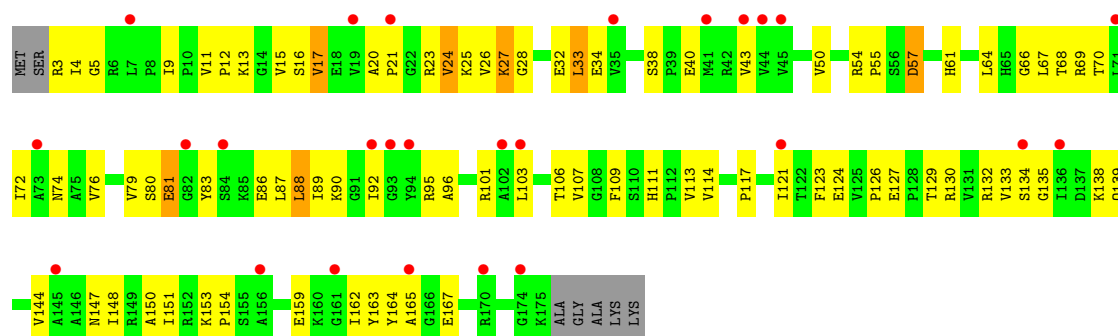
• Molecule 6: 50S ribosomal protein L5



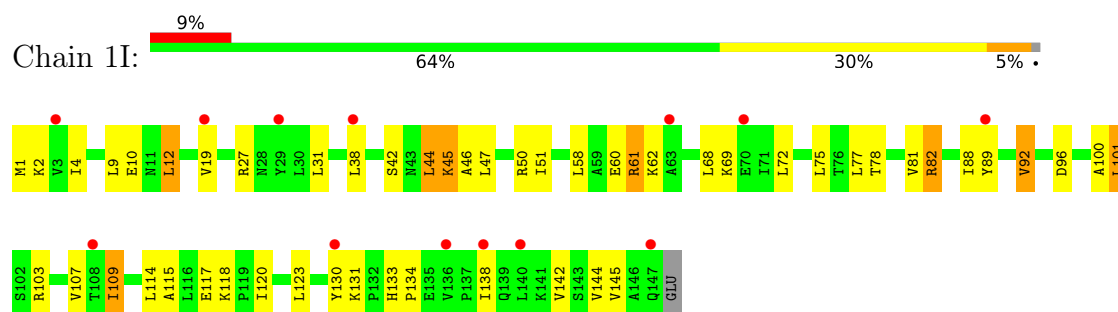
• Molecule 7: 50S ribosomal protein L6



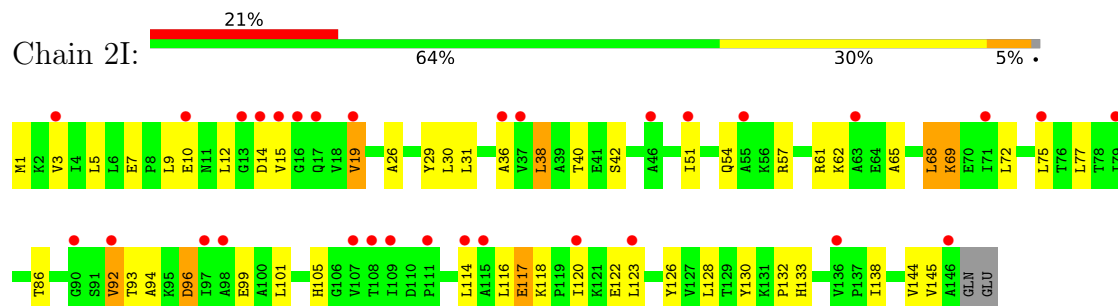
• Molecule 7: 50S ribosomal protein L6



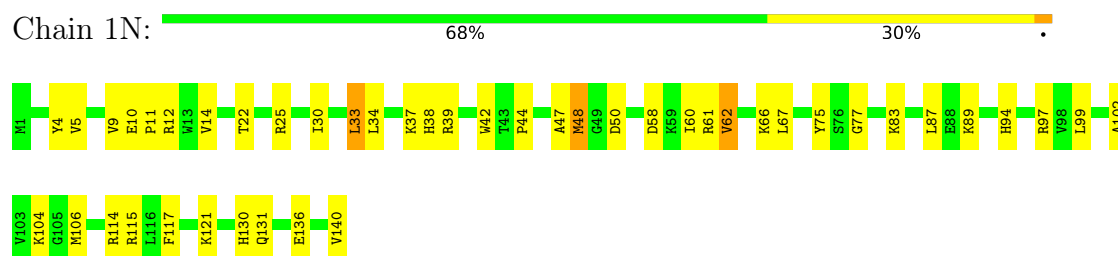
• Molecule 8: 50S ribosomal protein L9



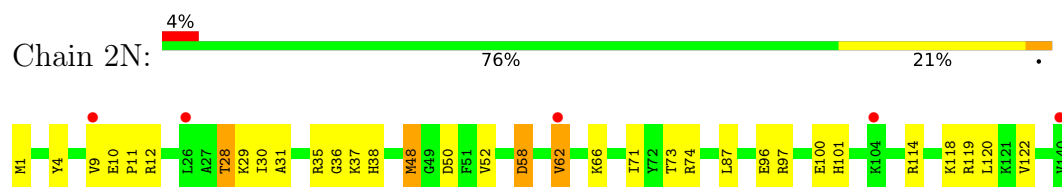
- Molecule 8: 50S ribosomal protein L9



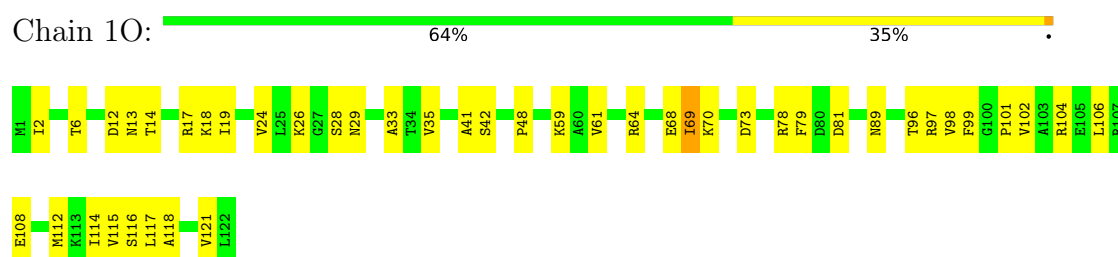
- Molecule 9: 50S ribosomal protein L13



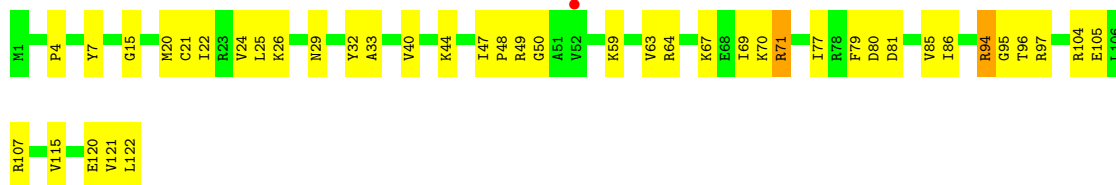
- Molecule 9: 50S ribosomal protein L13



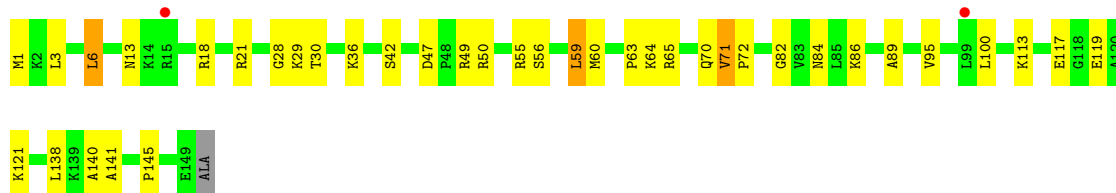
- Molecule 10: 50S ribosomal protein L14



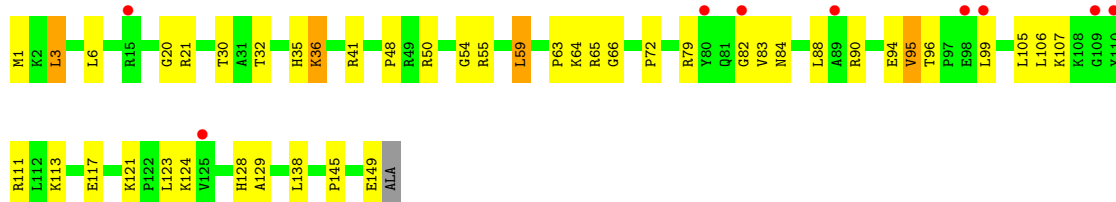
- Molecule 10: 50S ribosomal protein L14



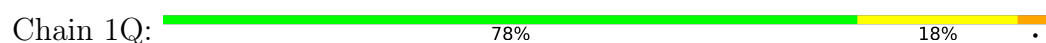
- Molecule 11: 50S ribosomal protein L15



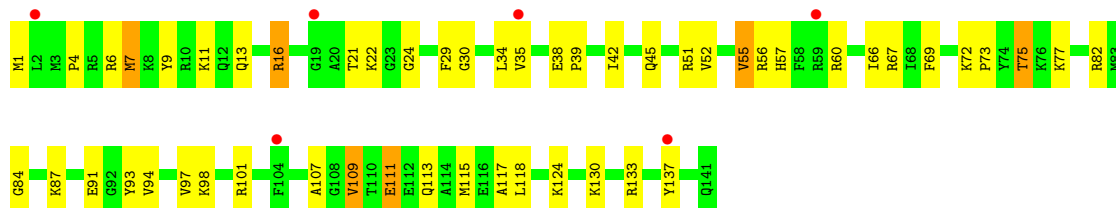
- Molecule 11: 50S ribosomal protein L15



- Molecule 12: 50S ribosomal protein L16



- Molecule 12: 50S ribosomal protein L16



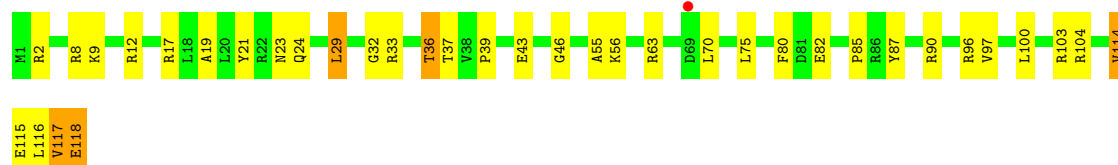
- Molecule 13: 50S ribosomal protein L17

Chain 1R:  71% 24% 5%



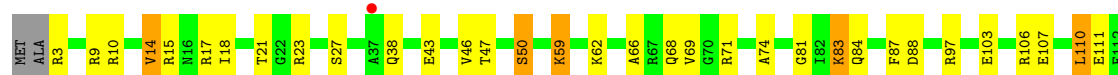
- Molecule 13: 50S ribosomal protein L17

Chain 2R:  69% 27% 4%



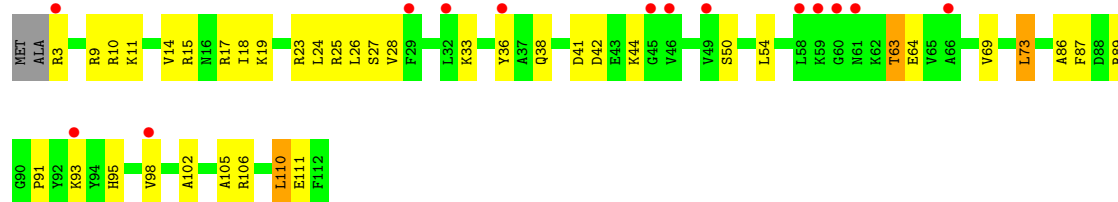
- Molecule 14: 50S ribosomal protein L18

Chain 1S:  69% 25% 6%



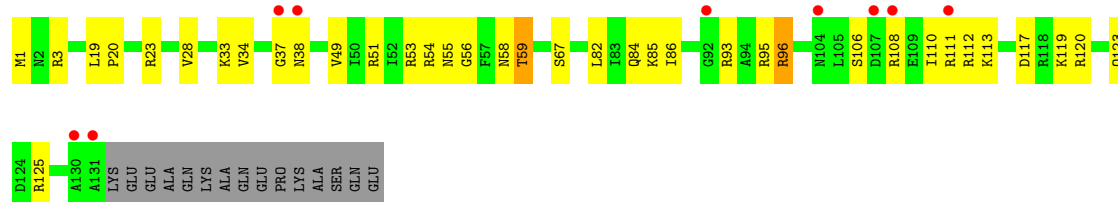
- Molecule 14: 50S ribosomal protein L18

Chain 2S:  63% 32% 5%



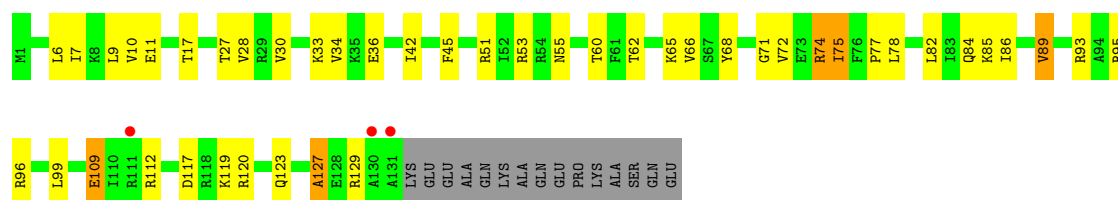
- Molecule 15: 50S ribosomal protein L19

Chain 1T:  64% 24% 10%

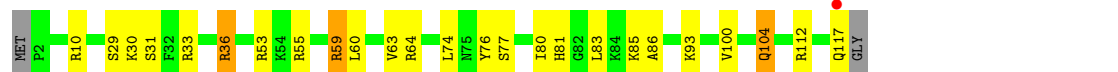
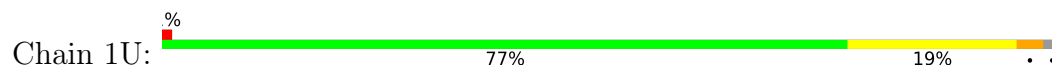


- Molecule 15: 50S ribosomal protein L19

Chain 2T:  59% 27% 10%



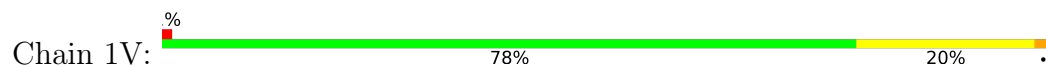
- Molecule 16: 50S ribosomal protein L20



- Molecule 16: 50S ribosomal protein L20



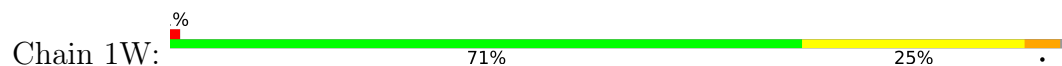
- Molecule 17: 50S ribosomal protein L21



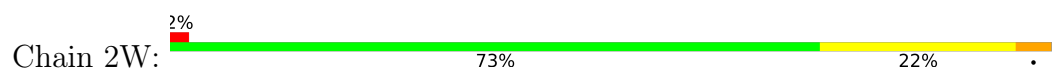
- Molecule 17: 50S ribosomal protein L21



- Molecule 18: 50S ribosomal protein L22

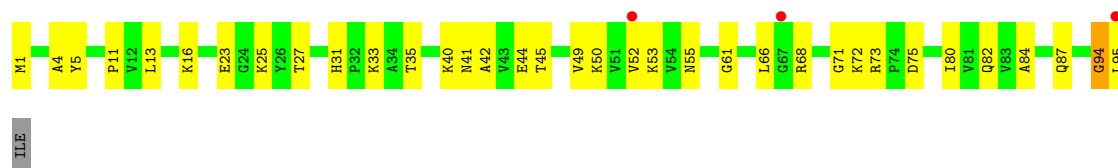


- Molecule 18: 50S ribosomal protein L22





- Molecule 19: 50S ribosomal protein L23



- Molecule 19: 50S ribosomal protein L23



- Molecule 20: 50S ribosomal protein L24

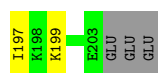


- Molecule 20: 50S ribosomal protein L24

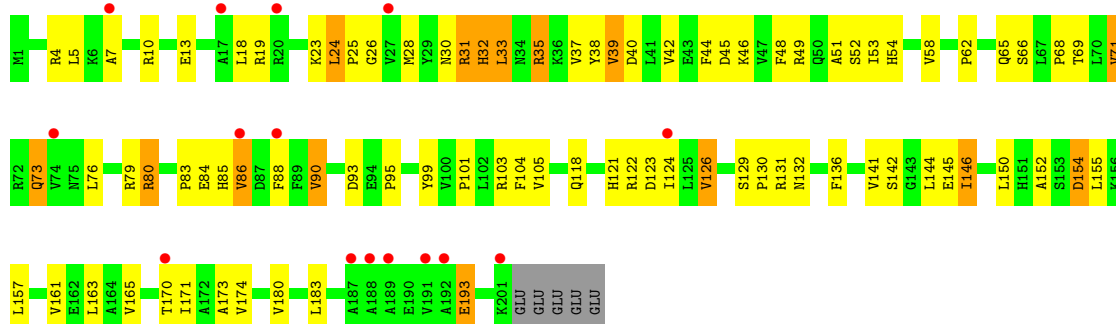


- Molecule 21: 50S ribosomal protein L25





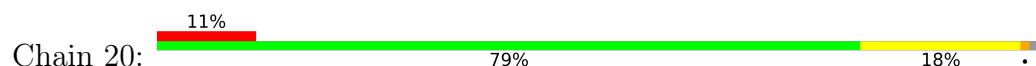
- Molecule 21: 50S ribosomal protein L25



- Molecule 22: 50S ribosomal protein L27



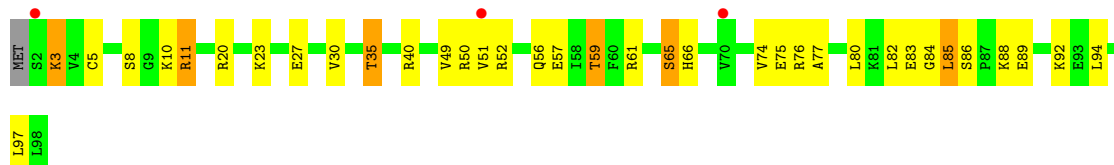
- Molecule 22: 50S ribosomal protein L27



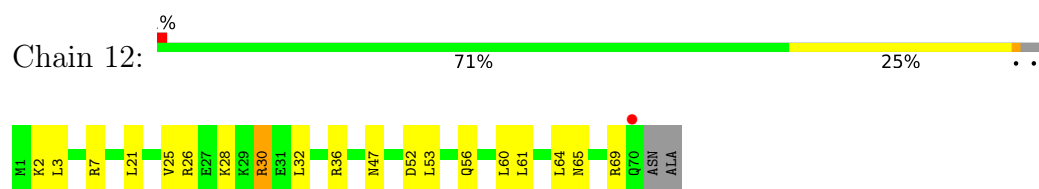
- Molecule 23: 50S ribosomal protein L28



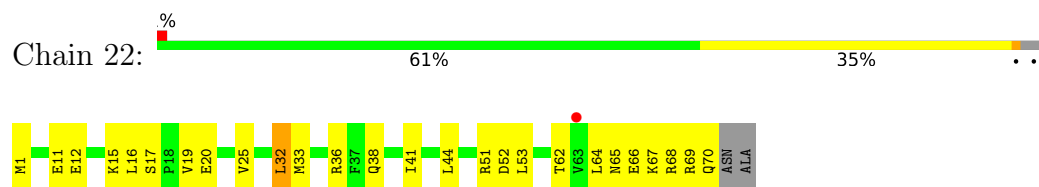
- Molecule 23: 50S ribosomal protein L28



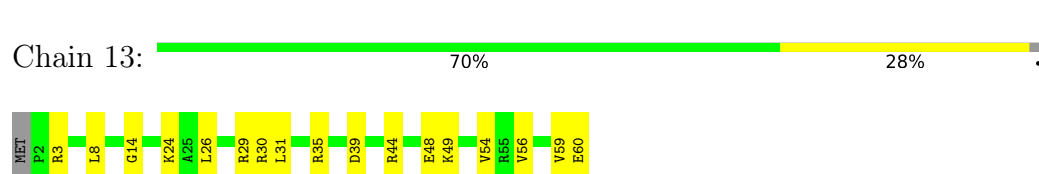
- Molecule 24: 50S ribosomal protein L29



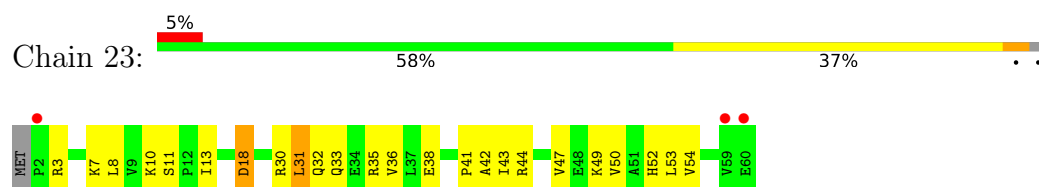
- Molecule 24: 50S ribosomal protein L29



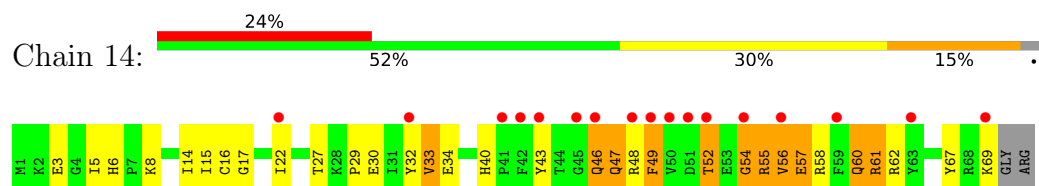
- Molecule 25: 50S ribosomal protein L30



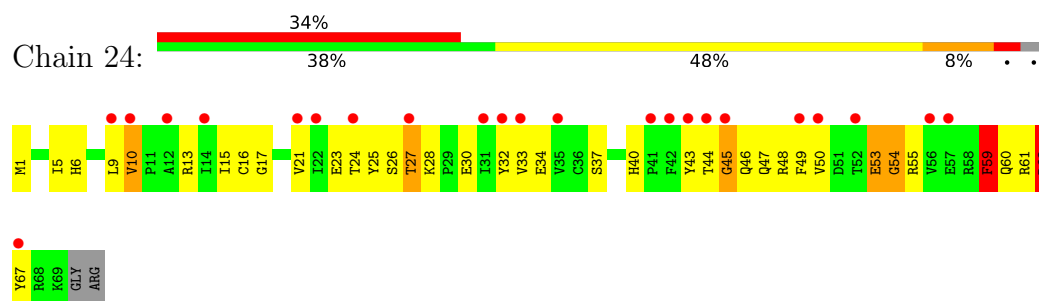
- Molecule 25: 50S ribosomal protein L30



- Molecule 26: 50S ribosomal protein L31

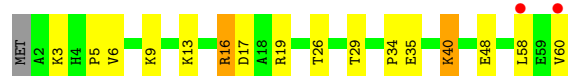
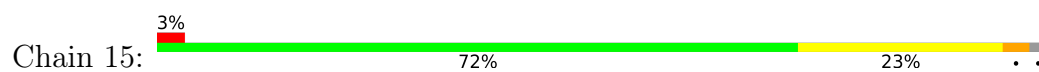


- Molecule 26: 50S ribosomal protein L31



- Molecule 27: 50S ribosomal protein L32





- Molecule 27: 50S ribosomal protein L32



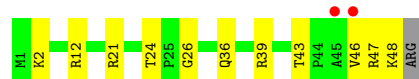
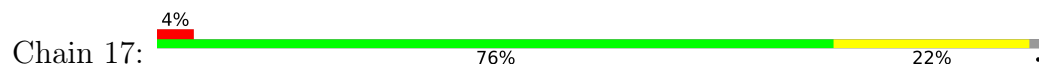
- Molecule 28: 50S ribosomal protein L33



- Molecule 28: 50S ribosomal protein L33



- Molecule 29: 50S ribosomal protein L34



- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35



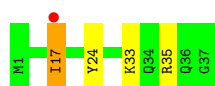
- Molecule 30: 50S ribosomal protein L35

Chain 28:  68% 31% .



- Molecule 31: 50S ribosomal protein L36

Chain 19:  89% 8% 3% .



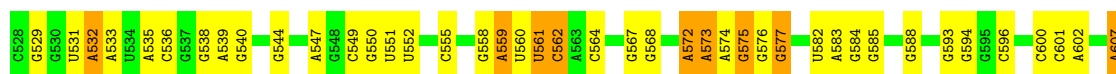
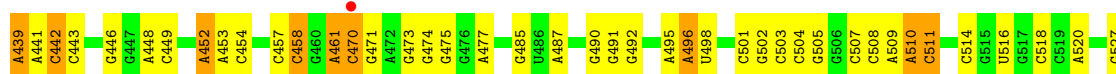
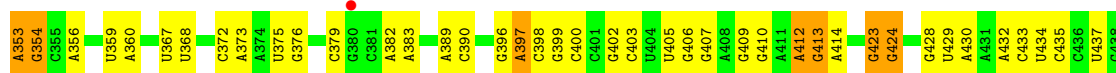
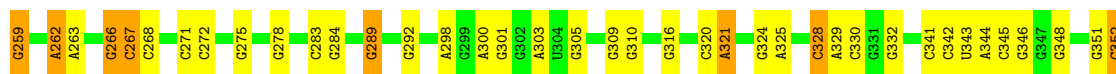
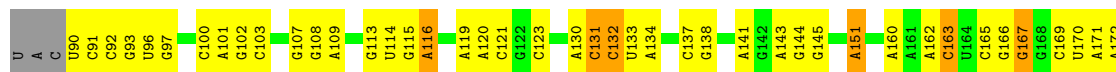
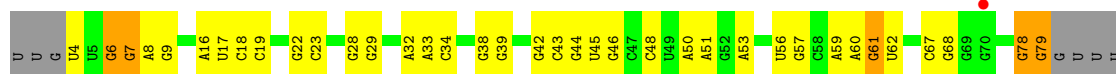
- Molecule 31: 50S ribosomal protein L36

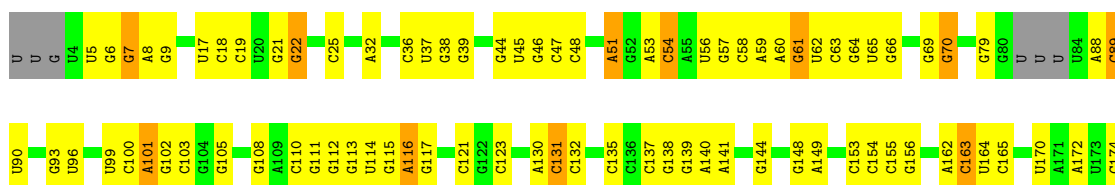
Chain 29:  51% 49% 5% .



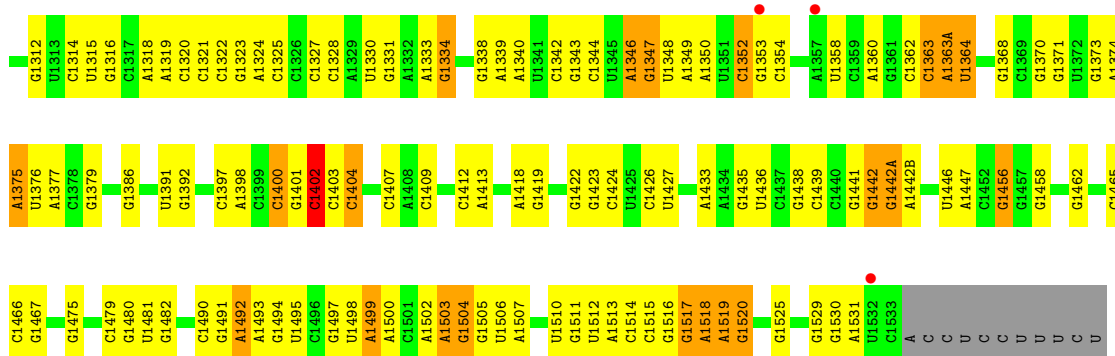
- Molecule 32: 16S Ribosomal RNA

Chain 1a:  48% 41% 10% 2% .

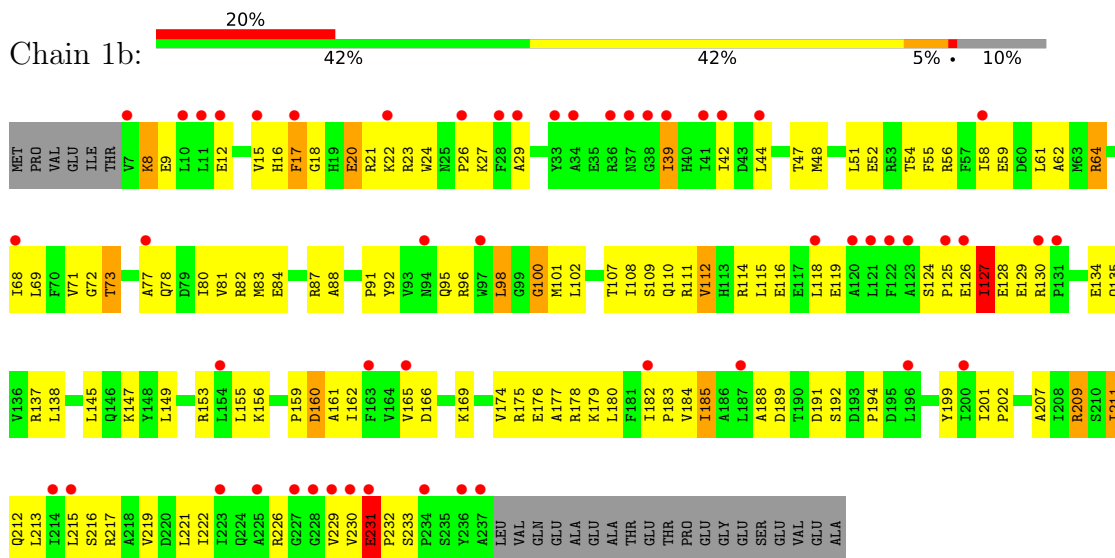




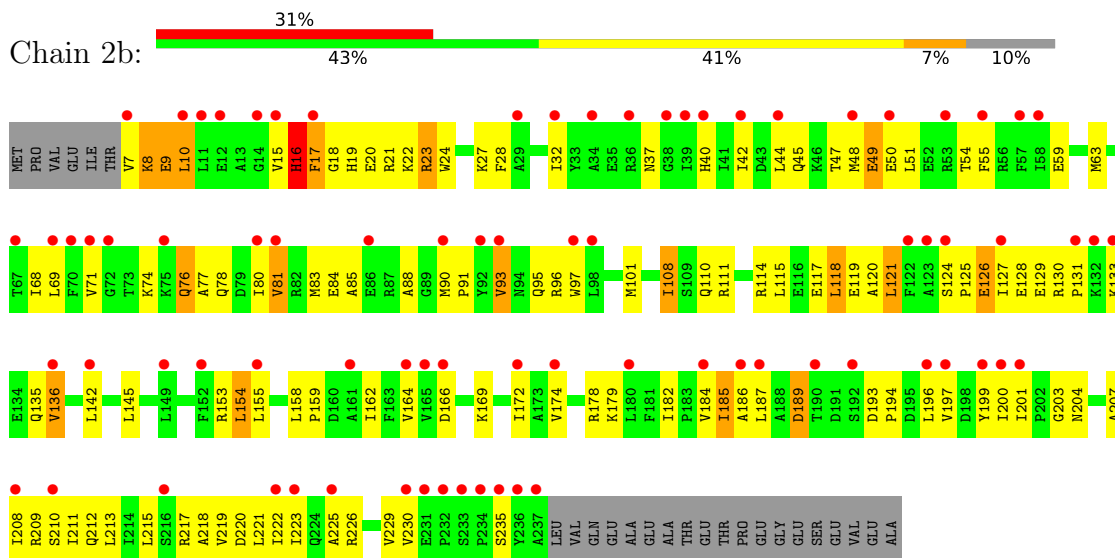
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G1241	G1173	G1098	G1032	U891	A694	C519	G435	C352	A263	C177
C1244	G1177	G1099	G1033	G892	G695	G524	C436	C353	G266	C178
A1245	A1101	G1100	G1034	A901	A699	G525	U437	A353	C267	U179
C1246	G1178	A1102	G1035	G902	G610	C526	G438	G354	U180	U181
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A1250	G1181	C1038	C1037	G906	A612	U531	A441	A360	A270	U182
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G1257	G1186	G987	C1044	U920	U712	A536	G446	A373	A282	U189F
C1258	C1113	G988	A1045	U921	G713	C537	C449	G377	G286	G189G
U1259	G1114	C989	G1048	U922	G718	G538	C451	G450	U287	U189H
C1260	C1115	G990	U1049	A923	G721	G540	A452	A382	A288	U189K
G1266	G1116	U991	G1050	C924	A722	G541	C457	A383	G289	G189L
A1269	C1117	U992	C1051	G925	G723	G542	C458	A384	U293	U192
C1270	G1118	A994	U1052	G926	A724	C543	C460	C385	U294	A195
G1274	C1119	C995	G1053	G927	G725	G544	A461	C386	G297	C201
A1275	U1120	A996	C1054	C930	A729	G545	C470	U387	A298	U202
C1276	G1121	G999	U1055	C931	G730	A547	G471	G388	G299	U203
U1277	C1122	U1000	U1056	G932	G731	G548	G474	C389	U300	U204
G1278	A1130	G1001	G1057	C933	A737	U551	G475	C390	G301	G216
U1279	G1133	G1002	G1058	A935	C738	U552	A482	C392	G306	G220
A1280	C1134	G1003	U1061	C936	U742	G557	C483	G396	C307	C224
U1281	U1135	A1004	G1062	A937	U743	G558	G484	A397	G308	C225
C1282	G1136	U1005	U1063	A938	C744	U559	G485	C398	G309	
G1283	C1137	G1006	G1064	G939	C745	U560	G486	G399	C310	
C1284	U1138	C1007	U1065	C940	C746	U561	G490	C400	C312	U229
A1285	G1139	G1008	G941	G942	C748	C562	G491	C401	A313	G230
U1286	C1140	G1009	U943	U944	C749	A563	G492	U404	G316	G231
C1287	G1141	G1010	G945	G946	U753	C564	G493	U405	G232	G233
A1288	U1142	U1011	G947	G948	C754	U565	U494	G406	C321	C234
G1289	G1143	G1012	G949	C840	C755	G566	A495	G407	G322	
U1290	C1144	G1013	G950	U841	C756	G567	A496	U408	U323	C237
G1291	G1147	A1015	U950	C848	C757	G661	U498	G409	G324	G238
U1292	U1148	U1016	U951	G851	C758	G662	A499	G500	A411	
G1295	C1149	G1017	U952	G854	G758	A663	G501	G502	A412	C241
C1296	U1150	G1018	G953	G858	G763	G664	C501	G503	C327	
U1297	G1151	U1019	G954	U854	A766	A665	G504	A415	C328	U244
C1298	A1152	G1020	U955	G859	A767	G674	G505	G416	A329	C245
A1299	C1157	G1021	U956	C868	A768	U877	C508	U421	G332	A246
G1300	U1158	G1022	U957	G869	C770	A694	A509	C422	C335	G247
U1301	G1159	G1023	U958	G874	G773	G685	A510	G423	C336	G251
C1302	C1160	G1024	A964	C875	G774	U686	C511	G424	C337	G255
G1303	U1161	G1025	U965	G881	G775	G687	U512	G425	C339	U256
U1304	C1162	C1028	A966	G883	G776	G688	C513	G426	G342	G257
G1305	G1163	C1029	U967	C884	A777	G689	C514	U427	G345	G258
A1306	C1164	C1030	U968	G885	G778	G691	U516	U428		G260
U1307	U1090	G1030A	A969	C886						
C1308	U1091	C1030B	C970	G887						
G1309	G1094	G1030C	C971	G888						
	U1095		C972	G889						



• Molecule 33: 30S ribosomal protein S2

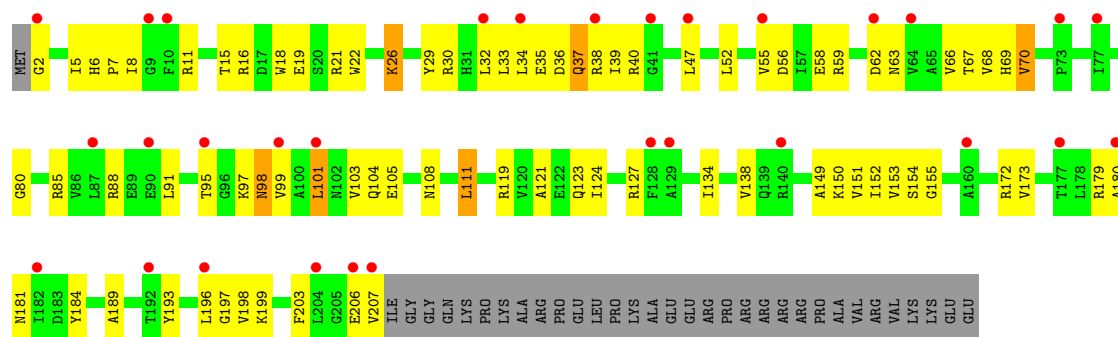


• Molecule 33: 30S ribosomal protein S2

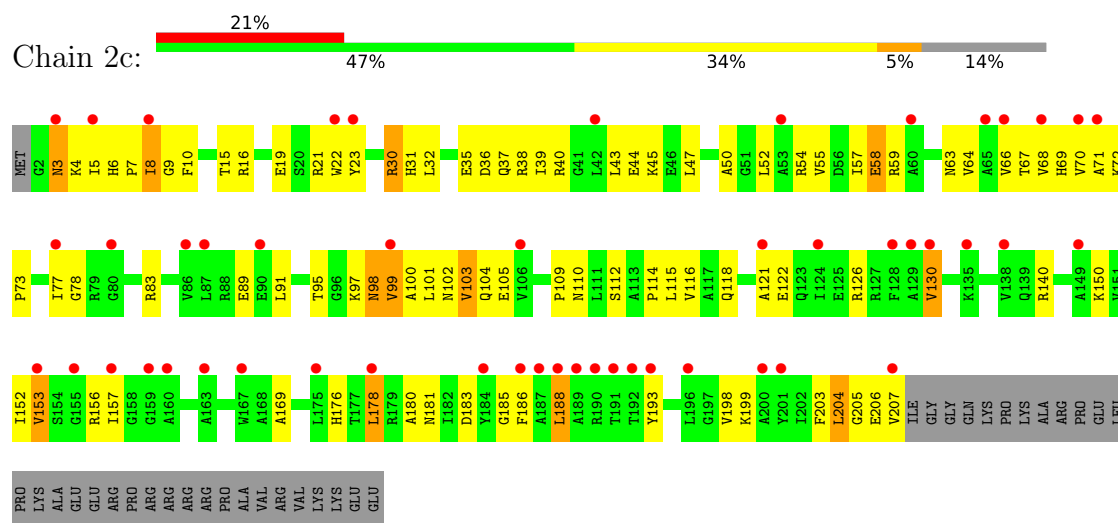


• Molecule 34: 30S ribosomal protein S3

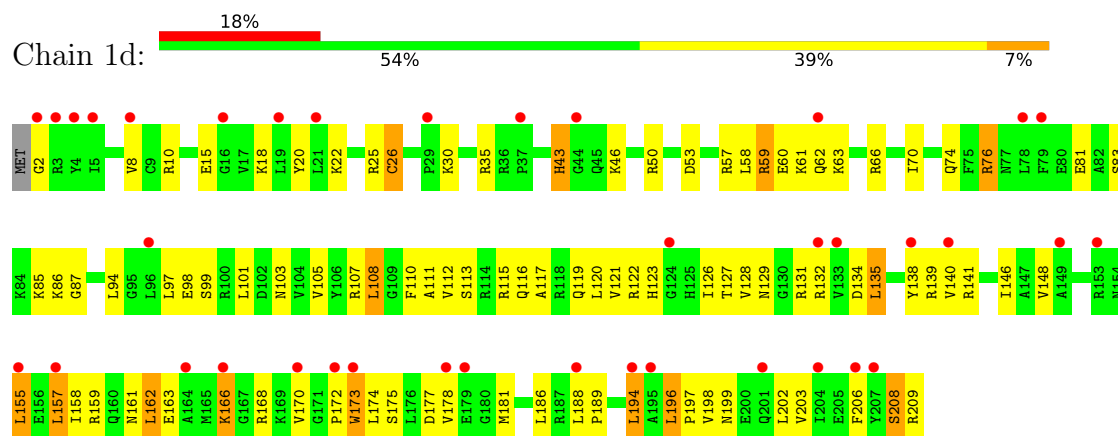




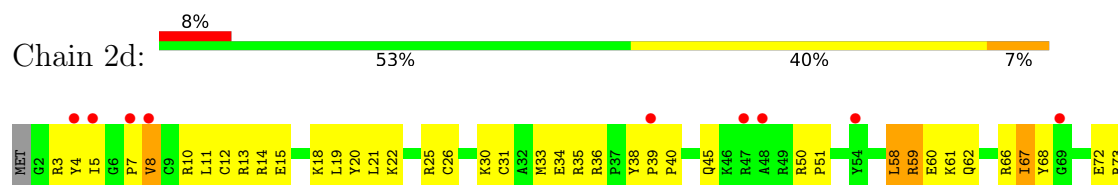
• Molecule 34: 30S ribosomal protein S3

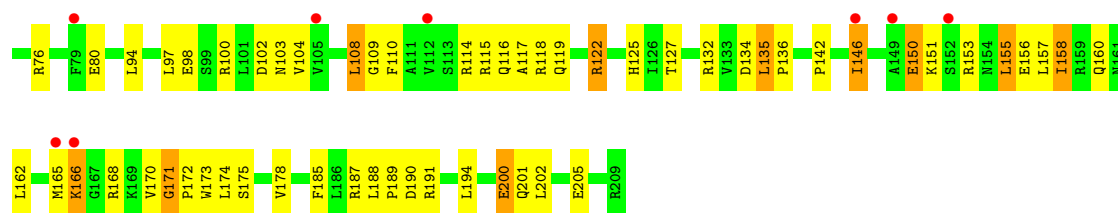


• Molecule 35: 30S ribosomal protein S4



• Molecule 35: 30S ribosomal protein S4

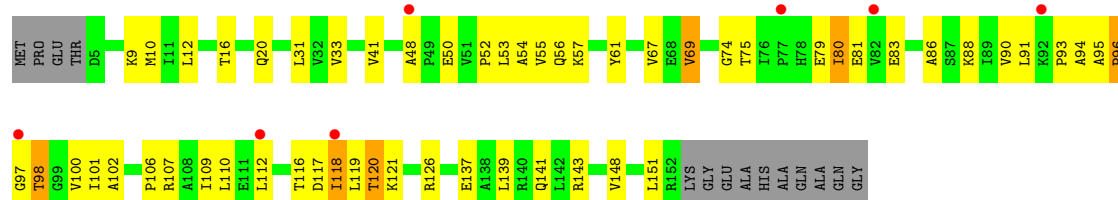




• Molecule 36: 30S ribosomal protein S5



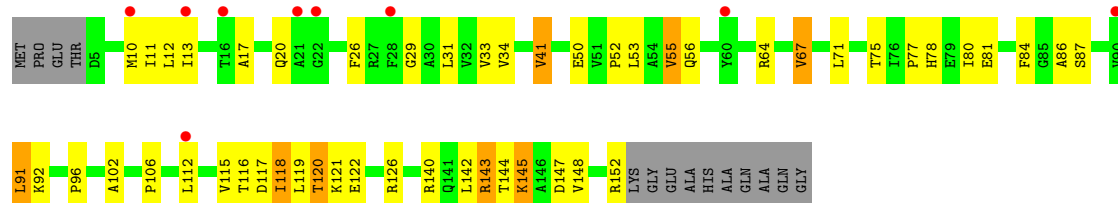
Chain 1e:



• Molecule 36: 30S ribosomal protein S5



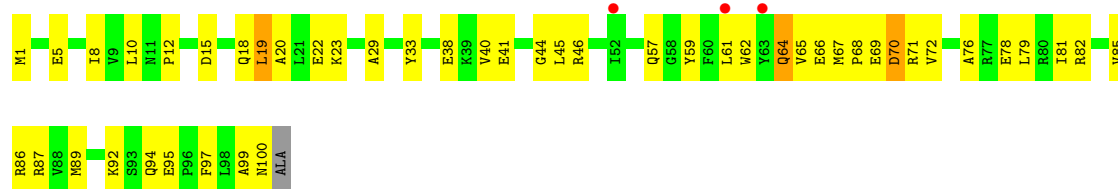
Chain 2e:



• Molecule 37: 30S ribosomal protein S6



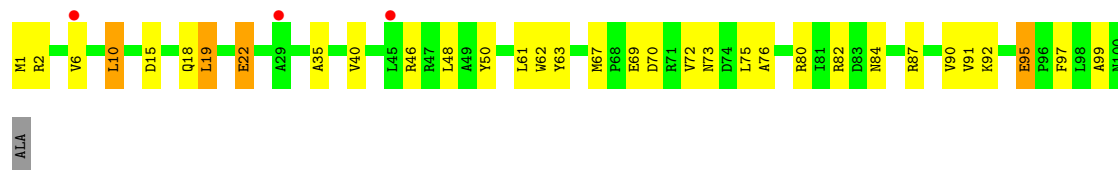
Chain 1f:



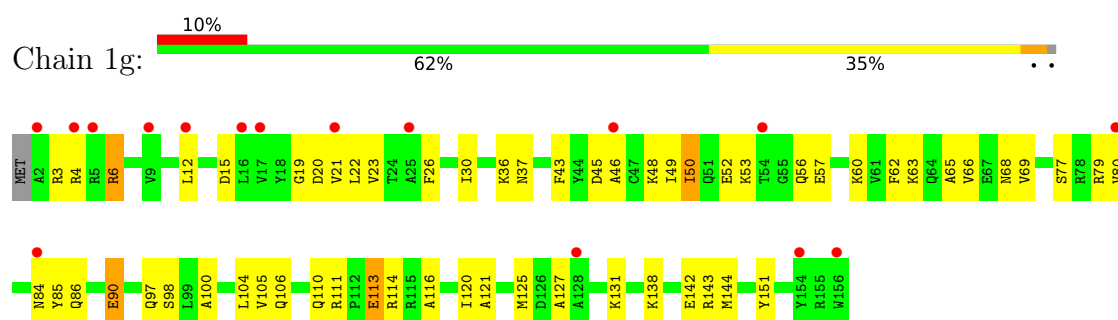
• Molecule 37: 30S ribosomal protein S6



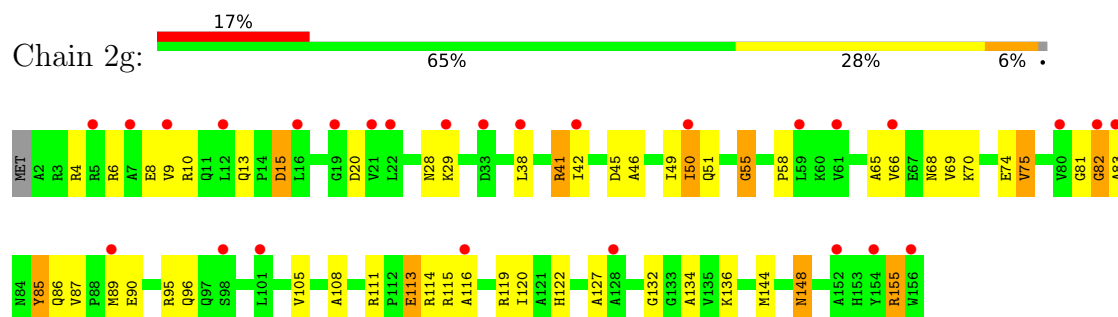
Chain 2f:



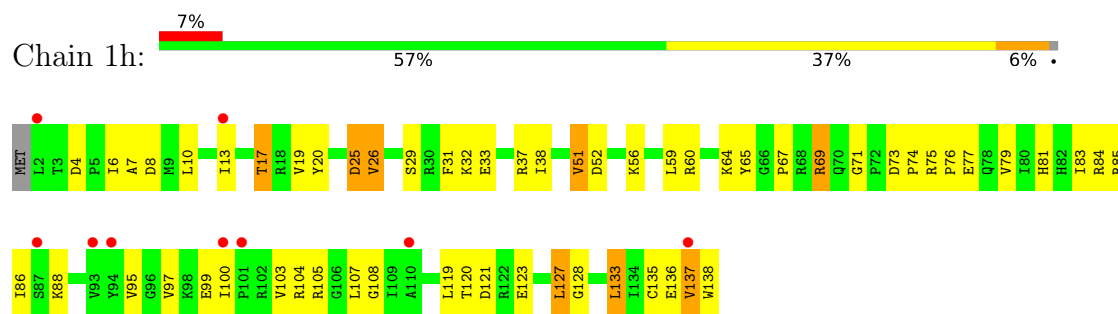
• Molecule 38: 30S ribosomal protein S7



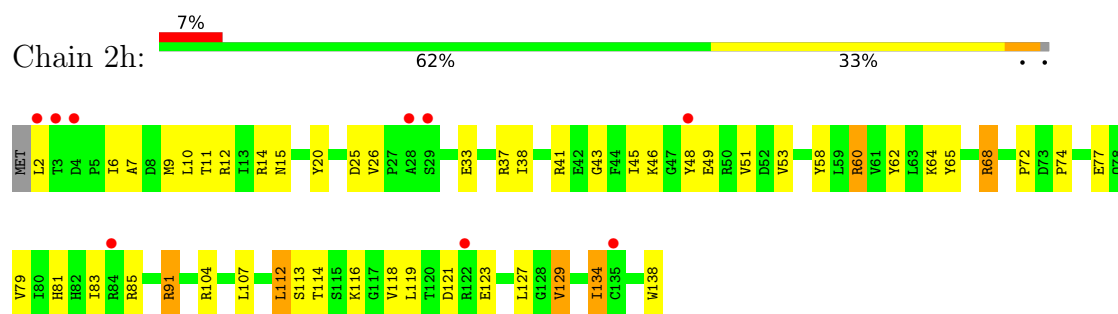
• Molecule 38: 30S ribosomal protein S7



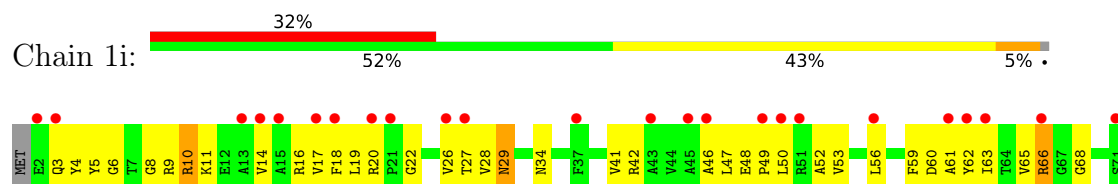
• Molecule 39: 30S ribosomal protein S8

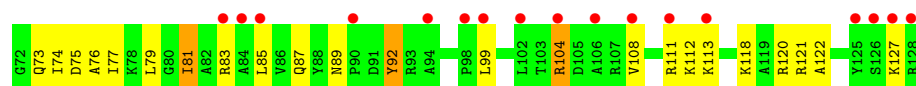


• Molecule 39: 30S ribosomal protein S8

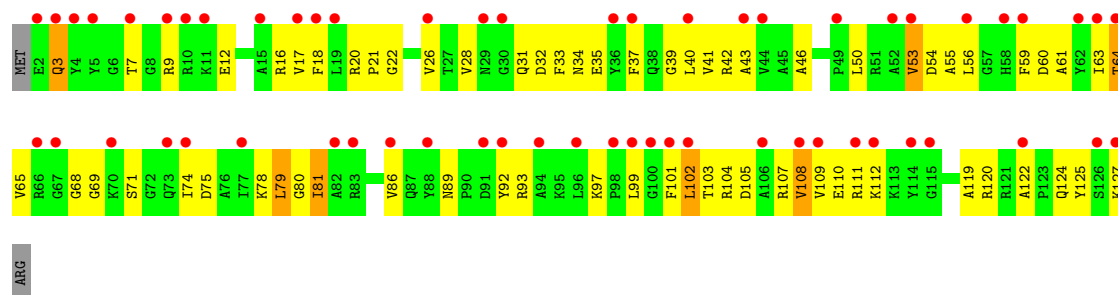


• Molecule 40: 30S ribosomal protein S9

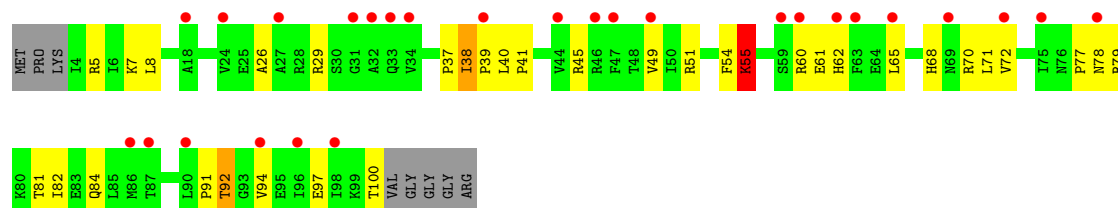




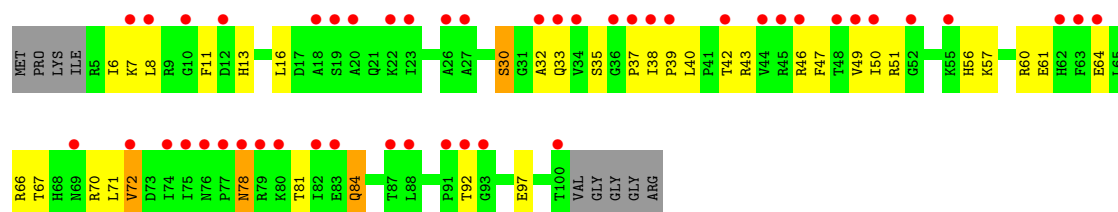
- Molecule 40: 30S ribosomal protein S9



- Molecule 41: 30S ribosomal protein S10



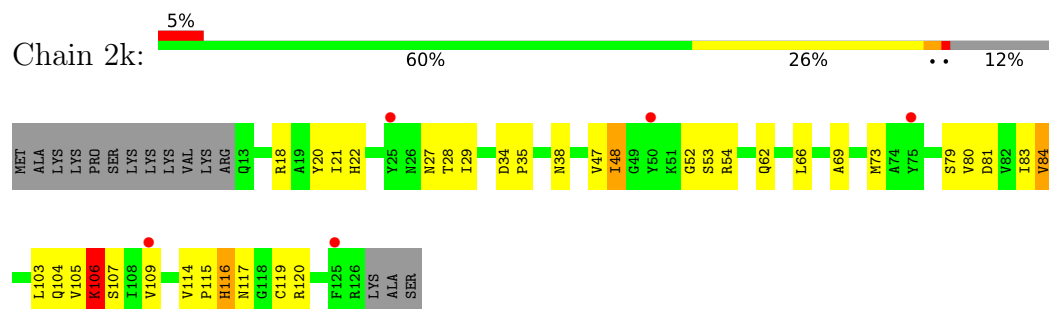
- Molecule 41: 30S ribosomal protein S10



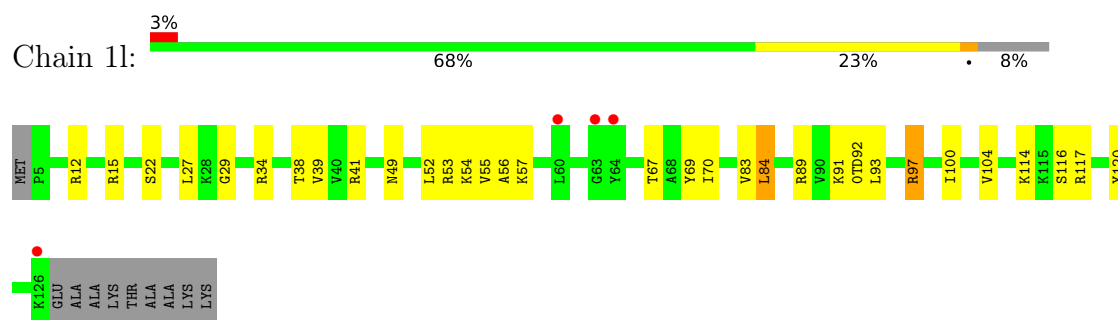
- Molecule 42: 30S ribosomal protein S11



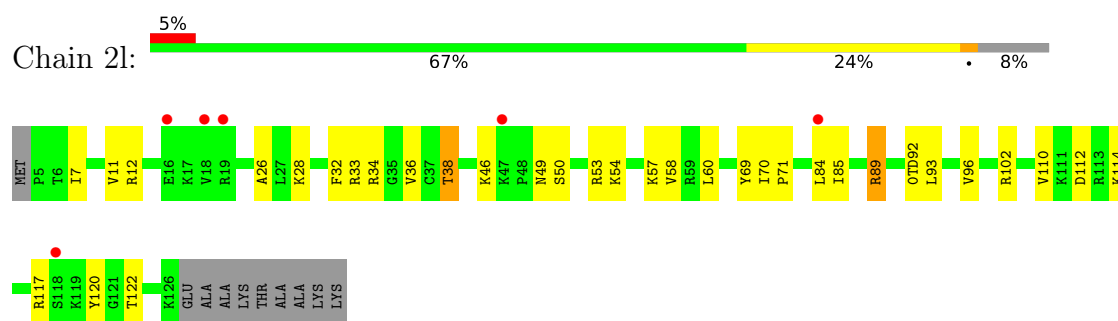
- Molecule 42: 30S ribosomal protein S11



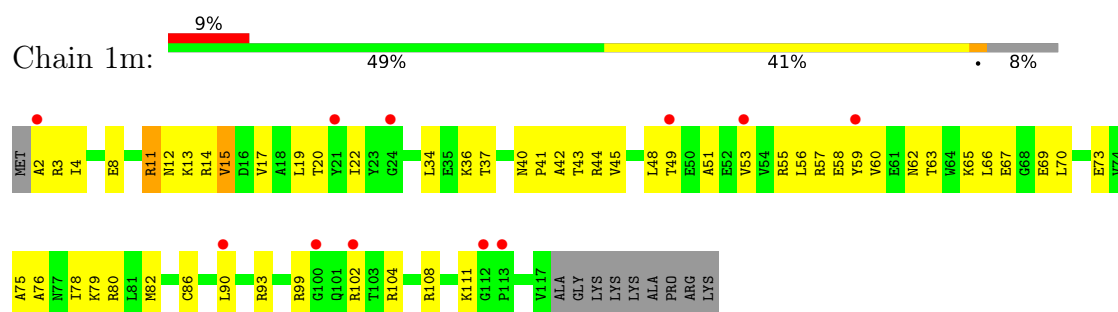
- Molecule 43: 30S ribosomal protein S12



- Molecule 43: 30S ribosomal protein S12

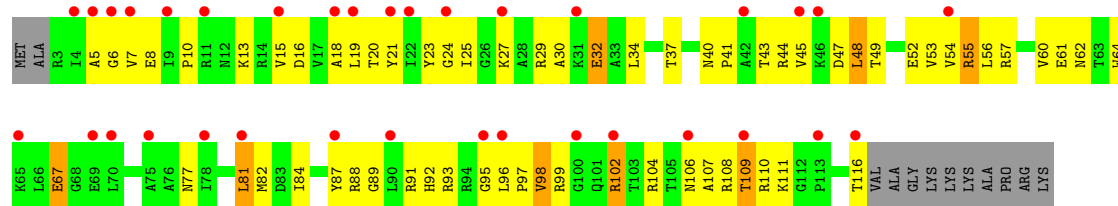


- Molecule 44: 30S ribosomal protein S13

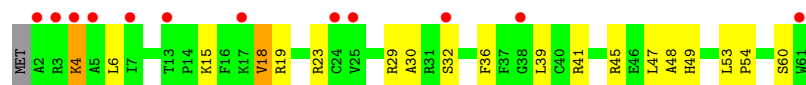


- Molecule 44: 30S ribosomal protein S13

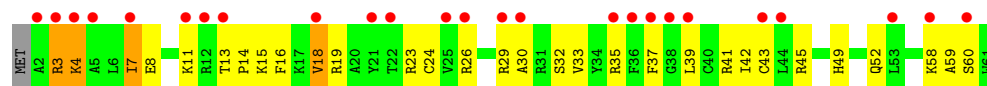
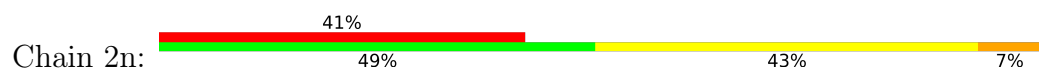




- Molecule 45: 30S ribosomal protein S14 type Z



- Molecule 45: 30S ribosomal protein S14 type Z



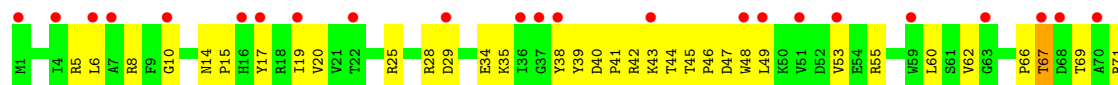
- Molecule 46: 30S ribosomal protein S15



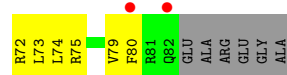
- Molecule 46: 30S ribosomal protein S15

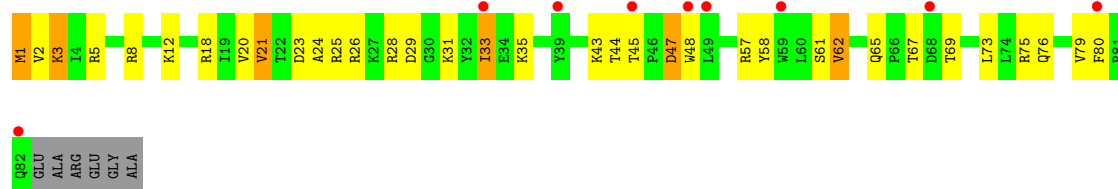


- Molecule 47: 30S ribosomal protein S16

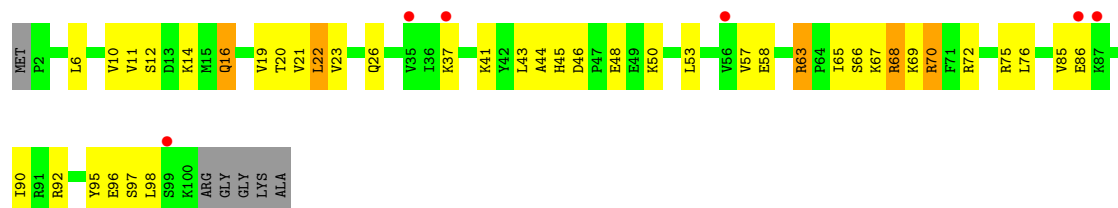


- Molecule 47: 30S ribosomal protein S16

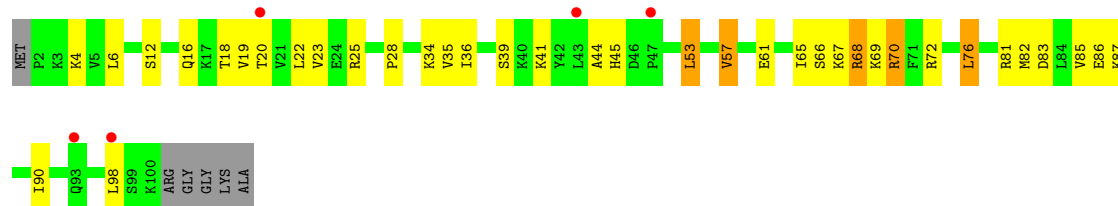




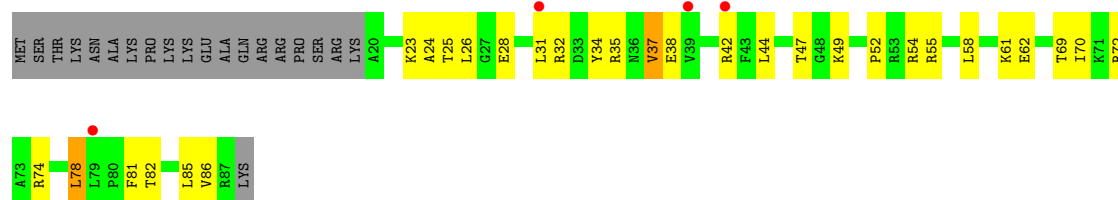
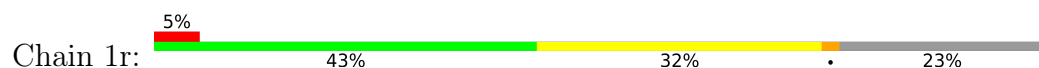
- Molecule 48: 30S ribosomal protein S17



- Molecule 48: 30S ribosomal protein S17

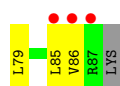


- Molecule 49: 30S ribosomal protein S18

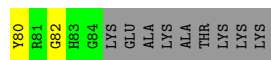


- Molecule 49: 30S ribosomal protein S18

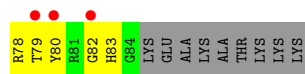
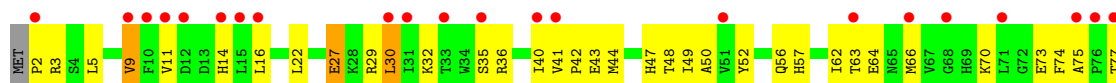




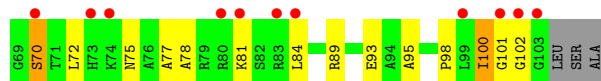
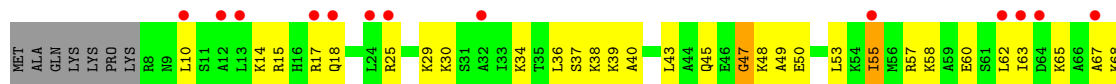
- Molecule 50: 30S ribosomal protein S19



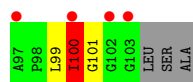
- Molecule 50: 30S ribosomal protein S19



- Molecule 51: 30S ribosomal protein S20

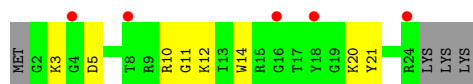


- Molecule 51: 30S ribosomal protein S20

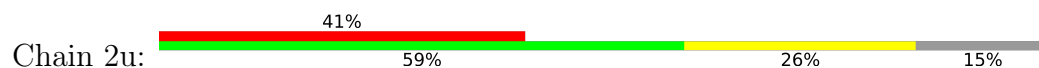


- Molecule 52: 30S ribosomal protein Thx

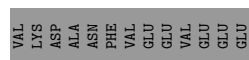




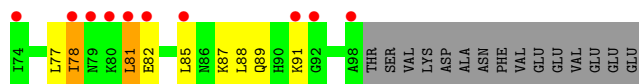
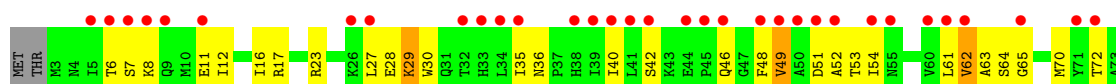
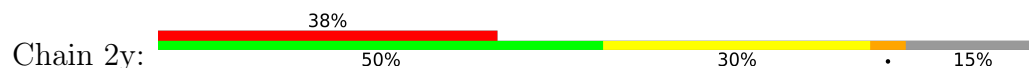
- Molecule 52: 30S ribosomal protein Thx



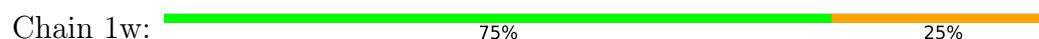
- Molecule 53: Ribosome-associated inhibitor A



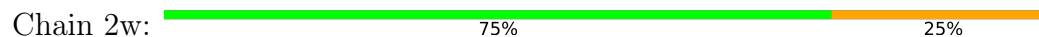
- Molecule 53: Ribosome-associated inhibitor A



- Molecule 54: A-site Aminoacyl-tRNA Analog



- Molecule 54: A-site Aminoacyl-tRNA Analog

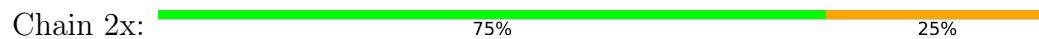


- Molecule 55: P-site Peptidyl-tRNA Analog RNA





- Molecule 55: P-site Peptidyl-tRNA Analog RNA



- Molecule 56: P-site Peptidyl-tRNA Analog Peptide



There are no outlier residues recorded for this chain.

- Molecule 56: P-site Peptidyl-tRNA Analog Peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.64Å 448.67Å 619.79Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	181.72 – 2.40 181.72 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.7 (181.72-2.40) 99.7 (181.72-2.40)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 2.40Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.239 , 0.289 0.241 , 0.290	Depositor DCC
R_{free} test set	112220 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	44.8	Xtriage
Anisotropy	0.085	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 58.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.33$, $\langle L^2 \rangle = 0.16$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	297986	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.64% 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: M2G, 4OC, G7M, OMC, MRD, OMG, 5MC, SF4, 0TD, 2MA, UR3, ZN, 5MU, OMU, MG, MA6, PSU, 2MG, PPU, 8AN, MPD

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	0.30	0/69031	0.50	2/107754 (0.0%)
1	2A	0.23	0/68903	0.42	1/107552 (0.0%)
2	1B	0.25	0/2876	0.45	0/4486
2	2B	0.19	0/2878	0.37	0/4490
3	1D	0.28	0/2181	0.53	0/2940
3	2D	0.23	0/2186	0.49	0/2944
4	1E	0.27	0/1592	0.53	0/2149
4	2E	0.23	0/1592	0.46	0/2149
5	1F	0.28	0/1619	0.50	0/2193
5	2F	0.22	0/1615	0.49	3/2188 (0.1%)
6	1G	0.22	0/1451	0.45	0/1961
6	2G	0.20	0/1449	0.44	0/1957
7	1H	0.23	0/1356	0.45	0/1834
7	2H	0.21	0/1350	0.43	0/1826
8	1I	0.20	0/1109	0.43	0/1512
8	2I	0.19	0/1091	0.41	0/1490
9	1N	0.27	0/1148	0.49	0/1547
9	2N	0.20	0/1144	0.42	0/1543
10	1O	0.25	0/943	0.47	0/1269
10	2O	0.23	0/943	0.44	0/1269
11	1P	0.28	0/1152	0.52	0/1533
11	2P	0.20	0/1152	0.49	0/1533
12	1Q	0.26	0/1143	0.49	0/1527
12	2Q	0.21	0/1143	0.42	0/1527
13	1R	0.30	0/982	0.52	0/1312
13	2R	0.22	0/982	0.44	0/1312
14	1S	0.24	0/887	0.49	0/1180
14	2S	0.21	0/880	0.49	0/1172
15	1T	0.28	0/1105	0.54	0/1477
15	2T	0.22	0/1097	0.47	0/1468
16	1U	0.31	0/977	0.54	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	2U	0.21	0/977	0.43	0/1301
17	1V	0.30	0/786	0.53	0/1053
17	2V	0.23	0/782	0.48	0/1049
18	1W	0.30	0/897	0.49	0/1205
18	2W	0.23	0/897	0.44	0/1205
19	1X	0.26	0/764	0.51	0/1025
19	2X	0.21	0/764	0.44	0/1025
20	1Y	0.25	0/823	0.53	0/1099
20	2Y	0.21	0/823	0.40	0/1100
21	1Z	0.25	0/1620	0.52	0/2200
21	2Z	0.22	0/1590	0.47	0/2162
22	10	0.29	0/662	0.53	0/881
22	20	0.23	0/659	0.53	0/877
23	11	0.25	0/761	0.48	0/1013
23	21	0.24	0/766	0.44	0/1018
24	12	0.24	0/590	0.46	0/781
24	22	0.21	0/594	0.43	0/785
25	13	0.31	0/474	0.52	0/635
25	23	0.21	0/469	0.44	0/630
26	14	0.26	0/559	0.66	2/754 (0.3%)
26	24	0.30	0/549	0.71	3/741 (0.4%)
27	15	0.33	0/473	0.55	0/639
27	25	0.23	0/469	0.52	0/635
28	16	0.27	0/460	0.50	0/613
28	26	0.22	0/456	0.43	0/608
29	17	0.34	0/426	0.60	0/561
29	27	0.24	0/426	0.47	0/561
30	18	0.30	0/525	0.50	0/691
30	28	0.21	0/525	0.40	0/691
31	19	0.29	0/310	0.50	0/407
31	29	0.20	0/310	0.44	0/407
32	1a	0.21	0/35795	0.40	0/55864
32	2a	0.20	1/35890 (0.0%)	0.39	0/56012
33	1b	0.24	0/1876	0.53	1/2533 (0.0%)
33	2b	0.23	0/1860	0.54	2/2518 (0.1%)
34	1c	0.21	0/1582	0.43	0/2137
34	2c	0.23	0/1566	0.45	0/2119
35	1d	0.20	0/1695	0.46	0/2274
35	2d	0.19	0/1698	0.44	0/2277
36	1e	0.20	0/1149	0.44	0/1548
36	2e	0.20	0/1149	0.45	0/1548
37	1f	0.20	0/827	0.41	0/1120
37	2f	0.20	0/829	0.44	0/1123

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	1g	0.20	0/1254	0.40	0/1683
38	2g	0.18	0/1248	0.40	0/1676
39	1h	0.20	0/1118	0.41	0/1506
39	2h	0.19	0/1108	0.43	0/1494
40	1i	0.19	0/1005	0.46	0/1351
40	2i	0.21	0/985	0.47	0/1329
41	1j	0.20	0/732	0.48	1/993 (0.1%)
41	2j	0.22	0/723	0.49	0/984
42	1k	0.21	0/849	0.46	0/1150
42	2k	0.20	0/848	0.49	0/1149
43	1l	0.21	0/937	0.43	0/1260
43	2l	0.21	0/937	0.44	0/1260
44	1m	0.21	0/924	0.49	0/1242
44	2m	0.25	0/905	0.55	0/1217
45	1n	0.22	0/501	0.46	0/664
45	2n	0.21	0/501	0.45	0/664
46	1o	0.19	0/739	0.38	0/985
46	2o	0.19	0/739	0.40	0/985
47	1p	0.20	0/697	0.44	0/939
47	2p	0.22	0/693	0.51	0/935
48	1q	0.20	0/836	0.44	0/1117
48	2q	0.19	0/836	0.48	0/1117
49	1r	0.20	0/560	0.41	0/746
49	2r	0.20	0/560	0.44	0/746
50	1s	0.20	0/663	0.47	0/895
50	2s	0.21	0/660	0.46	0/893
51	1t	0.20	0/734	0.46	0/969
51	2t	0.20	0/736	0.41	0/976
52	1u	0.23	0/203	0.44	0/266
52	2u	0.20	0/203	0.42	0/266
53	1y	0.22	0/776	0.39	0/1048
53	2y	0.20	0/761	0.42	0/1030
54	1w	0.24	0/44	0.58	0/67
54	2w	0.21	0/44	0.45	0/67
55	1x	0.36	0/44	0.62	0/67
55	2x	0.22	0/44	0.53	0/67
56	1v	0.32	0/22	0.42	0/28
56	2v	0.30	0/22	0.37	0/28
All	All	0.24	1/310250 (0.0%)	0.45	15/463679 (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
21	2Z	0	1
26	14	0	1
33	1b	0	2
33	2b	0	1
All	All	0	5

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1498	UR3	O3'-P	5.26	1.61	1.56

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	1042	G	OP1-P-O3'	-9.05	80.86	108.00
26	24	65	ASP	N-CA-C	-7.46	102.38	113.72
1	1A	1042	G	OP2-P-O3'	-6.62	88.14	108.00
33	2b	23	ARG	N-CA-C	-6.51	105.21	112.57
5	2F	121	GLY	N-CA-C	-6.32	107.05	115.40

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	14	52	THR	Peptide
33	1b	127	ILE	Peptide
33	1b	231	GLU	Peptide
21	2Z	136	PHE	Peptide
33	2b	126	GLU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	61869	0	31206	853	0
1	2A	61758	0	31149	979	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	1B	2572	0	1305	39	0
2	2B	2573	0	1306	33	0
3	1D	2131	0	2207	71	0
3	2D	2136	0	2218	51	0
4	1E	1559	0	1618	32	0
4	2E	1559	0	1618	51	0
5	1F	1584	0	1625	42	0
5	2F	1580	0	1619	65	0
6	1G	1426	0	1445	54	0
6	2G	1424	0	1441	57	0
7	1H	1330	0	1407	34	0
7	2H	1324	0	1402	49	0
8	1I	1094	0	1127	30	0
8	2I	1076	0	1094	30	0
9	1N	1121	0	1193	27	0
9	2N	1117	0	1184	24	0
10	1O	933	0	996	27	0
10	2O	933	0	996	30	0
11	1P	1135	0	1212	37	0
11	2P	1135	0	1212	34	0
12	1Q	1122	0	1179	25	0
12	2Q	1122	0	1179	38	0
13	1R	968	0	1033	29	0
13	2R	968	0	1033	27	0
14	1S	877	0	938	27	0
14	2S	870	0	923	30	0
15	1T	1091	0	1151	29	0
15	2T	1083	0	1136	23	0
16	1U	959	0	1019	20	0
16	2U	959	0	1019	28	0
17	1V	775	0	841	18	0
17	2V	771	0	830	18	0
18	1W	886	0	940	19	0
18	2W	886	0	940	17	0
19	1X	750	0	814	27	0
19	2X	750	0	814	23	0
20	1Y	810	0	892	19	0
20	2Y	810	0	887	26	0
21	1Z	1587	0	1598	45	0
21	2Z	1557	0	1564	52	0
22	10	653	0	674	13	0
22	20	650	0	665	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	11	754	0	823	23	0
23	21	759	0	837	29	0
24	12	588	0	643	16	0
24	22	592	0	654	13	0
25	13	469	0	518	9	0
25	23	464	0	514	20	0
26	14	546	0	522	22	0
26	24	536	0	514	35	0
27	15	459	0	476	15	0
27	25	455	0	465	12	0
28	16	453	0	473	9	0
28	26	449	0	469	15	0
29	17	418	0	467	9	0
29	27	418	0	466	12	0
30	18	517	0	582	23	0
30	28	517	0	582	17	0
31	19	307	0	335	5	0
31	29	307	0	335	16	0
32	1a	32246	0	16293	582	0
32	2a	32331	0	16338	597	0
33	1b	1842	0	1862	92	0
33	2b	1825	0	1828	81	0
34	1c	1558	0	1557	57	0
34	2c	1542	0	1517	62	0
35	1d	1665	0	1687	76	0
35	2d	1668	0	1703	87	0
36	1e	1133	0	1191	37	0
36	2e	1133	0	1191	33	0
37	1f	814	0	808	30	0
37	2f	816	0	808	23	0
38	1g	1235	0	1249	43	0
38	2g	1229	0	1238	44	0
39	1h	1098	0	1143	43	0
39	2h	1088	0	1126	36	0
40	1i	986	0	990	51	0
40	2i	966	0	953	53	0
41	1j	719	0	672	21	0
41	2j	710	0	661	31	0
42	1k	834	0	838	19	0
42	2k	833	0	836	29	0
43	1l	932	0	980	19	0
43	2l	932	0	981	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	1m	914	0	954	41	0
44	2m	895	0	920	50	0
45	1n	492	0	529	20	0
45	2n	492	0	529	27	0
46	1o	728	0	760	18	0
46	2o	728	0	760	20	0
47	1p	681	0	697	31	0
47	2p	677	0	686	24	0
48	1q	823	0	891	25	0
48	2q	823	0	891	30	0
49	1r	555	0	618	24	0
49	2r	555	0	618	21	0
50	1s	648	0	658	24	0
50	2s	645	0	635	29	0
51	1t	732	0	809	26	0
51	2t	733	0	795	20	0
52	1u	199	0	208	7	0
52	2u	199	0	208	6	0
53	1y	764	0	786	25	0
53	2y	749	0	757	29	0
54	1w	78	0	50	3	0
54	2w	78	0	50	4	0
55	1x	63	0	33	2	0
55	2x	63	0	33	2	0
56	1v	23	0	29	0	0
56	2v	23	0	29	1	0
57	10	8	0	0	0	0
57	11	5	0	0	0	0
57	13	3	0	0	0	0
57	15	8	0	0	0	0
57	17	5	0	0	0	0
57	18	3	0	0	0	0
57	19	3	0	0	0	0
57	1A	1028	0	0	0	0
57	1B	30	0	0	0	0
57	1D	18	0	0	0	0
57	1E	10	0	0	0	0
57	1F	16	0	0	0	0
57	1G	4	0	0	0	0
57	1H	2	0	0	0	0
57	1N	4	0	0	0	0
57	1O	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	1P	4	0	0	0	0
57	1Q	5	0	0	0	0
57	1R	4	0	0	0	0
57	1T	4	0	0	0	0
57	1U	8	0	0	0	0
57	1V	7	0	0	0	0
57	1W	2	0	0	0	0
57	1X	1	0	0	0	0
57	1Z	1	0	0	0	0
57	1a	280	0	0	0	0
57	1b	1	0	0	0	0
57	1d	6	0	0	0	0
57	1e	3	0	0	0	0
57	1f	2	0	0	0	0
57	1g	2	0	0	0	0
57	1h	2	0	0	0	0
57	1i	1	0	0	0	0
57	1l	2	0	0	0	0
57	1m	1	0	0	0	0
57	1n	1	0	0	0	0
57	1o	2	0	0	0	0
57	1t	2	0	0	0	0
57	1w	1	0	0	0	0
57	1x	2	0	0	0	0
57	1y	3	0	0	0	0
57	20	2	0	0	0	0
57	21	1	0	0	0	0
57	23	1	0	0	0	0
57	25	3	0	0	0	0
57	26	1	0	0	0	0
57	27	1	0	0	0	0
57	28	1	0	0	0	0
57	2A	737	0	0	0	0
57	2B	20	0	0	0	0
57	2D	11	0	0	0	0
57	2E	6	0	0	0	0
57	2F	4	0	0	0	0
57	2G	2	0	0	0	0
57	2I	1	0	0	0	0
57	2N	1	0	0	0	0
57	2O	1	0	0	0	0
57	2P	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	2Q	4	0	0	0	0
57	2R	3	0	0	0	0
57	2T	4	0	0	0	0
57	2U	1	0	0	0	0
57	2V	3	0	0	0	0
57	2W	2	0	0	0	0
57	2Y	1	0	0	0	0
57	2a	191	0	0	0	0
57	2e	2	0	0	0	0
57	2f	1	0	0	0	0
57	2h	1	0	0	0	0
57	2j	1	0	0	0	0
57	2k	2	0	0	0	0
57	2p	1	0	0	0	0
57	2r	1	0	0	0	0
57	2t	1	0	0	0	0
57	2x	1	0	0	0	0
58	18	8	0	14	2	0
58	1A	8	0	14	1	0
58	1T	8	0	14	1	0
58	1a	8	0	14	2	0
58	2A	8	0	14	0	0
58	2B	8	0	14	0	0
59	1B	12	0	12	4	0
59	1F	12	0	12	2	0
60	14	1	0	0	0	0
60	15	1	0	0	0	0
60	16	1	0	0	0	0
60	19	1	0	0	0	0
60	1Y	1	0	0	0	0
60	1n	1	0	0	0	0
60	24	1	0	0	0	0
60	25	1	0	0	0	0
60	26	1	0	0	0	0
60	29	1	0	0	0	0
60	2Y	1	0	0	0	0
60	2n	1	0	0	0	0
61	1d	8	0	0	0	0
61	2d	8	0	0	1	0
62	2A	8	0	14	0	0
63	10	24	0	0	1	0
63	11	27	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	12	18	0	0	4	0
63	13	24	0	0	1	0
63	14	3	0	0	0	0
63	15	24	0	0	3	0
63	16	18	0	0	2	0
63	17	12	0	0	1	0
63	18	27	0	0	1	0
63	19	6	0	0	1	0
63	1A	3988	0	0	192	0
63	1B	97	0	0	8	0
63	1D	113	0	0	9	0
63	1E	76	0	0	4	0
63	1F	67	0	0	5	0
63	1G	19	0	0	0	0
63	1H	11	0	0	0	0
63	1I	8	0	0	0	0
63	1N	52	0	0	4	0
63	1O	22	0	0	0	0
63	1P	66	0	0	3	0
63	1Q	36	0	0	3	0
63	1R	32	0	0	2	0
63	1S	12	0	0	2	0
63	1T	34	0	0	3	0
63	1U	47	0	0	5	0
63	1V	40	0	0	6	0
63	1W	33	0	0	2	0
63	1X	26	0	0	4	0
63	1Y	16	0	0	1	0
63	1Z	14	0	0	3	0
63	1a	511	0	0	45	0
63	1b	1	0	0	0	0
63	1d	8	0	0	2	0
63	1e	3	0	0	0	0
63	1f	2	0	0	0	0
63	1j	1	0	0	0	0
63	1k	1	0	0	1	0
63	1l	3	0	0	2	0
63	1m	1	0	0	0	0
63	1o	3	0	0	0	0
63	1p	2	0	0	0	0
63	1t	1	0	0	0	0
63	1w	6	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	1x	5	0	0	0	0
63	1y	7	0	0	0	0
63	20	14	0	0	0	0
63	21	20	0	0	1	0
63	22	3	0	0	0	0
63	23	4	0	0	2	0
63	24	2	0	0	2	0
63	25	9	0	0	1	0
63	26	5	0	0	1	0
63	27	9	0	0	0	0
63	28	12	0	0	2	0
63	29	1	0	0	0	0
63	2A	2224	0	0	191	0
63	2B	45	0	0	4	0
63	2D	50	0	0	3	0
63	2E	29	0	0	2	0
63	2F	22	0	0	1	0
63	2G	7	0	0	0	0
63	2H	2	0	0	0	0
63	2I	3	0	0	0	0
63	2N	2	0	0	1	0
63	2O	16	0	0	1	0
63	2P	25	0	0	3	0
63	2Q	16	0	0	3	0
63	2R	20	0	0	2	0
63	2S	5	0	0	1	0
63	2T	10	0	0	0	0
63	2U	12	0	0	2	0
63	2V	9	0	0	2	0
63	2W	23	0	0	1	0
63	2X	7	0	0	0	0
63	2Y	6	0	0	2	0
63	2Z	11	0	0	1	0
63	2a	384	0	0	29	0
63	2d	4	0	0	1	0
63	2e	2	0	0	0	0
63	2f	3	0	0	0	0
63	2j	2	0	0	0	0
63	2l	4	0	0	1	0
63	2m	1	0	0	0	0
63	2o	4	0	0	0	0
63	2p	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
63	2q	1	0	0	0	0
63	2r	3	0	0	0	0
63	2t	2	0	0	0	0
63	2u	1	0	0	0	0
63	2w	3	0	0	0	0
63	2x	3	0	0	1	0
63	2y	3	0	0	0	0
All	All	297986	0	194829	5395	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 12.

The worst 5 of 5395 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2a:1003:G:H2'	32:2a:1004:A:H4'	1.38	1.05
1:1A:1063:G:H1	1:1A:1075:C:N4	1.60	1.00
32:2a:1129:C:N4	32:2a:1143:G:H1	1.59	0.99
1:1A:2096:U:H3	1:1A:2193:G:H1	1.09	0.99
1:1A:2319:G:H22	14:1S:3:ARG:HD3	1.27	0.98

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1D	273/276 (99%)	254 (93%)	19 (7%)	0	100	100
3	2D	273/276 (99%)	259 (95%)	14 (5%)	0	100	100
4	1E	202/206 (98%)	189 (94%)	11 (5%)	2 (1%)	12	20
4	2E	202/206 (98%)	192 (95%)	8 (4%)	2 (1%)	12	20

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	1F	201/210 (96%)	192 (96%)	8 (4%)	1 (0%)	24	37
5	2F	201/210 (96%)	189 (94%)	10 (5%)	2 (1%)	12	20
6	1G	179/182 (98%)	162 (90%)	12 (7%)	5 (3%)	4	3
6	2G	179/182 (98%)	153 (86%)	23 (13%)	3 (2%)	7	10
7	1H	172/180 (96%)	159 (92%)	11 (6%)	2 (1%)	10	16
7	2H	171/180 (95%)	150 (88%)	20 (12%)	1 (1%)	21	32
8	1I	145/148 (98%)	128 (88%)	17 (12%)	0	100	100
8	2I	144/148 (97%)	125 (87%)	18 (12%)	1 (1%)	18	28
9	1N	138/140 (99%)	131 (95%)	7 (5%)	0	100	100
9	2N	138/140 (99%)	127 (92%)	11 (8%)	0	100	100
10	1O	120/122 (98%)	112 (93%)	7 (6%)	1 (1%)	16	25
10	2O	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
11	1P	147/150 (98%)	138 (94%)	8 (5%)	1 (1%)	18	28
11	2P	147/150 (98%)	138 (94%)	8 (5%)	1 (1%)	18	28
12	1Q	139/141 (99%)	131 (94%)	7 (5%)	1 (1%)	18	28
12	2Q	139/141 (99%)	130 (94%)	9 (6%)	0	100	100
13	1R	116/118 (98%)	109 (94%)	7 (6%)	0	100	100
13	2R	116/118 (98%)	114 (98%)	2 (2%)	0	100	100
14	1S	108/112 (96%)	99 (92%)	8 (7%)	1 (1%)	14	22
14	2S	108/112 (96%)	98 (91%)	10 (9%)	0	100	100
15	1T	129/146 (88%)	121 (94%)	8 (6%)	0	100	100
15	2T	129/146 (88%)	121 (94%)	7 (5%)	1 (1%)	16	25
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%)	6 (6%)	0	100	100
17	2V	99/101 (98%)	93 (94%)	5 (5%)	1 (1%)	12	20
18	1W	110/113 (97%)	107 (97%)	3 (3%)	0	100	100
18	2W	110/113 (97%)	108 (98%)	1 (1%)	1 (1%)	14	22
19	1X	93/96 (97%)	91 (98%)	1 (1%)	1 (1%)	11	18
19	2X	93/96 (97%)	87 (94%)	5 (5%)	1 (1%)	11	18
20	1Y	105/110 (96%)	97 (92%)	8 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	2Y	105/110 (96%)	97 (92%)	7 (7%)	1 (1%)	12	20
21	1Z	201/206 (98%)	186 (92%)	14 (7%)	1 (0%)	24	37
21	2Z	199/206 (97%)	169 (85%)	26 (13%)	4 (2%)	6	7
22	10	81/85 (95%)	78 (96%)	3 (4%)	0	100	100
22	20	81/85 (95%)	78 (96%)	2 (2%)	1 (1%)	10	16
23	11	95/98 (97%)	90 (95%)	4 (4%)	1 (1%)	11	18
23	21	95/98 (97%)	91 (96%)	3 (3%)	1 (1%)	11	18
24	12	68/72 (94%)	68 (100%)	0	0	100	100
24	22	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
25	13	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
25	23	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
26	14	67/71 (94%)	50 (75%)	12 (18%)	5 (8%)	1	0
26	24	67/71 (94%)	43 (64%)	18 (27%)	6 (9%)	0	0
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%)	47 (92%)	4 (8%)	0	100	100
28	26	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
29	17	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
29	27	46/49 (94%)	46 (100%)	0	0	100	100
30	18	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
30	28	62/65 (95%)	62 (100%)	0	0	100	100
31	19	35/37 (95%)	35 (100%)	0	0	100	100
31	29	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
33	1b	229/256 (90%)	193 (84%)	26 (11%)	10 (4%)	2	1
33	2b	229/256 (90%)	194 (85%)	31 (14%)	4 (2%)	7	10
34	1c	204/239 (85%)	179 (88%)	25 (12%)	0	100	100
34	2c	204/239 (85%)	171 (84%)	29 (14%)	4 (2%)	6	7
35	1d	206/209 (99%)	182 (88%)	23 (11%)	1 (0%)	24	37
35	2d	206/209 (99%)	188 (91%)	17 (8%)	1 (0%)	24	37
36	1e	146/162 (90%)	133 (91%)	11 (8%)	2 (1%)	9	13
36	2e	146/162 (90%)	138 (94%)	8 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	1f	98/101 (97%)	94 (96%)	4 (4%)	0	100	100
37	2f	98/101 (97%)	89 (91%)	9 (9%)	0	100	100
38	1g	153/156 (98%)	139 (91%)	14 (9%)	0	100	100
38	2g	153/156 (98%)	143 (94%)	7 (5%)	3 (2%)	6	7
39	1h	135/138 (98%)	130 (96%)	5 (4%)	0	100	100
39	2h	135/138 (98%)	122 (90%)	12 (9%)	1 (1%)	18	28
40	1i	125/128 (98%)	108 (86%)	13 (10%)	4 (3%)	3	3
40	2i	124/128 (97%)	102 (82%)	21 (17%)	1 (1%)	16	25
41	1j	95/105 (90%)	80 (84%)	9 (10%)	6 (6%)	1	0
41	2j	94/105 (90%)	81 (86%)	12 (13%)	1 (1%)	11	18
42	1k	112/129 (87%)	99 (88%)	12 (11%)	1 (1%)	14	22
42	2k	112/129 (87%)	102 (91%)	9 (8%)	1 (1%)	14	22
43	1l	119/132 (90%)	113 (95%)	6 (5%)	0	100	100
43	2l	119/132 (90%)	111 (93%)	8 (7%)	0	100	100
44	1m	114/126 (90%)	100 (88%)	11 (10%)	3 (3%)	4	4
44	2m	112/126 (89%)	93 (83%)	16 (14%)	3 (3%)	4	4
45	1n	58/61 (95%)	54 (93%)	4 (7%)	0	100	100
45	2n	58/61 (95%)	53 (91%)	4 (7%)	1 (2%)	7	10
46	1o	86/89 (97%)	81 (94%)	4 (5%)	1 (1%)	10	16
46	2o	86/89 (97%)	81 (94%)	4 (5%)	1 (1%)	10	16
47	1p	80/88 (91%)	72 (90%)	7 (9%)	1 (1%)	9	14
47	2p	80/88 (91%)	68 (85%)	12 (15%)	0	100	100
48	1q	97/105 (92%)	87 (90%)	9 (9%)	1 (1%)	12	20
48	2q	97/105 (92%)	89 (92%)	7 (7%)	1 (1%)	12	20
49	1r	66/88 (75%)	64 (97%)	1 (2%)	1 (2%)	8	12
49	2r	66/88 (75%)	63 (96%)	3 (4%)	0	100	100
50	1s	81/93 (87%)	66 (82%)	15 (18%)	0	100	100
50	2s	81/93 (87%)	67 (83%)	12 (15%)	2 (2%)	4	5
51	1t	94/106 (89%)	87 (93%)	5 (5%)	2 (2%)	5	7
51	2t	96/106 (91%)	87 (91%)	7 (7%)	2 (2%)	5	7
52	1u	21/27 (78%)	19 (90%)	2 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
52	2u	21/27 (78%)	18 (86%)	3 (14%)	0	100	100
53	1y	95/113 (84%)	92 (97%)	3 (3%)	0	100	100
53	2y	94/113 (83%)	85 (90%)	7 (7%)	2 (2%)	5	7
56	1v	1/3 (33%)	1 (100%)	0	0	100	100
56	2v	1/3 (33%)	1 (100%)	0	0	100	100
All	All	11643/12360 (94%)	10671 (92%)	862 (7%)	110 (1%)	14	22

5 of 110 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
21	1Z	52	SER
26	14	55	ARG
33	1b	8	LYS
33	1b	17	PHE
33	1b	22	LYS

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1D	214/218 (98%)	195 (91%)	19 (9%)	9	15
3	2D	215/218 (99%)	195 (91%)	20 (9%)	8	14
4	1E	164/166 (99%)	156 (95%)	8 (5%)	22	39
4	2E	164/166 (99%)	148 (90%)	16 (10%)	7	12
5	1F	160/166 (96%)	142 (89%)	18 (11%)	5	8
5	2F	159/166 (96%)	136 (86%)	23 (14%)	3	4
6	1G	144/156 (92%)	133 (92%)	11 (8%)	12	21
6	2G	142/156 (91%)	120 (84%)	22 (16%)	2	3
7	1H	144/148 (97%)	135 (94%)	9 (6%)	16	29
7	2H	143/148 (97%)	123 (86%)	20 (14%)	3	4
8	1I	111/124 (90%)	92 (83%)	19 (17%)	2	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	2I	108/124 (87%)	93 (86%)	15 (14%)	3	4
9	1N	119/119 (100%)	105 (88%)	14 (12%)	5	7
9	2N	118/119 (99%)	111 (94%)	7 (6%)	18	31
10	1O	100/100 (100%)	93 (93%)	7 (7%)	14	24
10	2O	100/100 (100%)	94 (94%)	6 (6%)	17	31
11	1P	115/116 (99%)	110 (96%)	5 (4%)	26	44
11	2P	115/116 (99%)	106 (92%)	9 (8%)	11	20
12	1Q	111/111 (100%)	104 (94%)	7 (6%)	16	29
12	2Q	111/111 (100%)	100 (90%)	11 (10%)	7	11
13	1R	101/101 (100%)	94 (93%)	7 (7%)	14	24
13	2R	101/101 (100%)	93 (92%)	8 (8%)	11	19
14	1S	87/88 (99%)	81 (93%)	6 (7%)	14	24
14	2S	85/88 (97%)	76 (89%)	9 (11%)	6	10
15	1T	115/127 (91%)	109 (95%)	6 (5%)	21	36
15	2T	113/127 (89%)	98 (87%)	15 (13%)	4	5
16	1U	93/94 (99%)	85 (91%)	8 (9%)	10	16
16	2U	93/94 (99%)	84 (90%)	9 (10%)	8	12
17	1V	81/82 (99%)	75 (93%)	6 (7%)	13	22
17	2V	80/82 (98%)	69 (86%)	11 (14%)	3	4
18	1W	90/92 (98%)	83 (92%)	7 (8%)	11	20
18	2W	90/92 (98%)	83 (92%)	7 (8%)	11	20
19	1X	77/78 (99%)	73 (95%)	4 (5%)	21	36
19	2X	77/78 (99%)	69 (90%)	8 (10%)	7	10
20	1Y	86/91 (94%)	78 (91%)	8 (9%)	8	14
20	2Y	86/91 (94%)	76 (88%)	10 (12%)	5	8
21	1Z	169/179 (94%)	150 (89%)	19 (11%)	6	9
21	2Z	165/179 (92%)	144 (87%)	21 (13%)	4	6
22	10	65/67 (97%)	60 (92%)	5 (8%)	12	20
22	20	64/67 (96%)	61 (95%)	3 (5%)	23	41
23	11	79/83 (95%)	69 (87%)	10 (13%)	4	6
23	21	81/83 (98%)	73 (90%)	8 (10%)	7	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	12	65/67 (97%)	61 (94%)	4 (6%)	16	29
24	22	66/67 (98%)	57 (86%)	9 (14%)	3	5
25	13	51/52 (98%)	48 (94%)	3 (6%)	18	31
25	23	50/52 (96%)	46 (92%)	4 (8%)	11	19
26	14	58/63 (92%)	47 (81%)	11 (19%)	1	2
26	24	54/63 (86%)	45 (83%)	9 (17%)	2	3
27	15	51/52 (98%)	45 (88%)	6 (12%)	5	7
27	25	50/52 (96%)	46 (92%)	4 (8%)	11	19
28	16	51/52 (98%)	47 (92%)	4 (8%)	11	20
28	26	50/52 (96%)	42 (84%)	8 (16%)	2	3
29	17	41/42 (98%)	39 (95%)	2 (5%)	22	39
29	27	41/42 (98%)	36 (88%)	5 (12%)	5	7
30	18	54/55 (98%)	51 (94%)	3 (6%)	19	33
30	28	54/55 (98%)	51 (94%)	3 (6%)	19	33
31	19	34/34 (100%)	33 (97%)	1 (3%)	37	60
31	29	34/34 (100%)	33 (97%)	1 (3%)	37	60
33	1b	191/220 (87%)	168 (88%)	23 (12%)	5	7
33	2b	187/220 (85%)	155 (83%)	32 (17%)	2	2
34	1c	144/188 (77%)	133 (92%)	11 (8%)	12	21
34	2c	140/188 (74%)	121 (86%)	19 (14%)	3	5
35	1d	171/181 (94%)	146 (85%)	25 (15%)	3	4
35	2d	172/181 (95%)	150 (87%)	22 (13%)	4	6
36	1e	114/123 (93%)	104 (91%)	10 (9%)	9	15
36	2e	114/123 (93%)	99 (87%)	15 (13%)	4	5
37	1f	85/90 (94%)	73 (86%)	12 (14%)	3	4
37	2f	85/90 (94%)	76 (89%)	9 (11%)	6	10
38	1g	120/127 (94%)	107 (89%)	13 (11%)	6	9
38	2g	119/127 (94%)	108 (91%)	11 (9%)	8	14
39	1h	116/119 (98%)	103 (89%)	13 (11%)	6	9
39	2h	114/119 (96%)	102 (90%)	12 (10%)	6	10
40	1i	91/99 (92%)	82 (90%)	9 (10%)	7	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
40	2i	88/99 (89%)	76 (86%)	12 (14%)	3	5
41	1j	68/92 (74%)	61 (90%)	7 (10%)	7	11
41	2j	68/92 (74%)	62 (91%)	6 (9%)	9	15
42	1k	83/99 (84%)	71 (86%)	12 (14%)	3	4
42	2k	83/99 (84%)	74 (89%)	9 (11%)	6	9
43	1l	96/108 (89%)	89 (93%)	7 (7%)	13	22
43	2l	96/108 (89%)	89 (93%)	7 (7%)	13	22
44	1m	90/101 (89%)	86 (96%)	4 (4%)	25	43
44	2m	87/101 (86%)	74 (85%)	13 (15%)	3	3
45	1n	49/50 (98%)	45 (92%)	4 (8%)	10	18
45	2n	49/50 (98%)	42 (86%)	7 (14%)	3	4
46	1o	78/80 (98%)	73 (94%)	5 (6%)	16	28
46	2o	78/80 (98%)	72 (92%)	6 (8%)	12	20
47	1p	69/74 (93%)	64 (93%)	5 (7%)	13	23
47	2p	68/74 (92%)	55 (81%)	13 (19%)	1	2
48	1q	94/97 (97%)	83 (88%)	11 (12%)	5	7
48	2q	94/97 (97%)	88 (94%)	6 (6%)	16	28
49	1r	59/77 (77%)	54 (92%)	5 (8%)	10	16
49	2r	59/77 (77%)	57 (97%)	2 (3%)	32	54
50	1s	68/80 (85%)	63 (93%)	5 (7%)	13	22
50	2s	67/80 (84%)	58 (87%)	9 (13%)	4	5
51	1t	71/82 (87%)	61 (86%)	10 (14%)	3	4
51	2t	70/82 (85%)	63 (90%)	7 (10%)	7	11
52	1u	18/22 (82%)	18 (100%)	0	100	100
52	2u	18/22 (82%)	18 (100%)	0	100	100
53	1y	82/98 (84%)	78 (95%)	4 (5%)	22	39
53	2y	79/98 (81%)	70 (89%)	9 (11%)	5	8
56	1v	3/3 (100%)	3 (100%)	0	100	100
56	2v	3/3 (100%)	3 (100%)	0	100	100
All	All	9537/10266 (93%)	8578 (90%)	959 (10%)	7	11

5 of 959 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	2E	152	LYS
43	2l	112	ASP
12	2Q	21	THR
42	2k	106	LYS
51	2t	71	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 147 such sidechains are listed below:

Mol	Chain	Res	Type
35	2d	119	GLN
50	2s	14	HIS
36	2e	78	HIS
40	2i	73	GLN
37	1f	57	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1A	2865/2915 (98%)	449 (15%)	32 (1%)
1	2A	2858/2915 (98%)	500 (17%)	32 (1%)
2	1B	119/121 (98%)	17 (14%)	0
2	2B	119/121 (98%)	13 (10%)	0
32	1a	1497/1521 (98%)	253 (16%)	0
32	2a	1501/1521 (98%)	281 (18%)	0
54	1w	1/4 (25%)	0	0
54	2w	1/4 (25%)	0	0
55	1x	1/4 (25%)	0	0
55	2x	1/4 (25%)	0	0
All	All	8963/9130 (98%)	1513 (16%)	64 (0%)

5 of 1513 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1A	10	G
1	1A	11	G
1	1A	12	U
1	1A	15	G
1	1A	34	C

5 of 64 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2A	2126	A
1	2A	2172	U
1	1A	2126	A
1	1A	1663	C
1	2A	2321	G

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

52 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	5MC	1a	1404	32	19,22,23	1.73	3 (15%)	26,32,35	1.18	2 (7%)
1	5MU	1A	1939	57,1	19,22,23	1.43	5 (26%)	27,32,35	2.21	7 (25%)
1	5MU	1A	1915	1	19,22,23	1.39	4 (21%)	27,32,35	2.33	8 (29%)
1	OMU	2A	2552	57,1	19,22,23	1.17	2 (10%)	25,31,34	1.94	6 (24%)
32	2MG	1a	1207	32	23,26,27	1.25	3 (13%)	33,38,41	2.30	8 (24%)
55	8AN	1x	76	57,55	21,24,25	1.41	3 (14%)	26,35,38	2.40	11 (42%)
32	UR3	2a	1498	57,32	19,22,23	1.02	1 (5%)	26,32,35	1.60	3 (11%)
54	PPU	1w	76	1,54	37,40,41	1.26	3 (8%)	47,57,60	2.02	13 (27%)
32	5MC	2a	1407	32	19,22,23	1.67	3 (15%)	26,32,35	1.23	3 (11%)
1	OMC	1A	1920	1	19,22,23	0.82	0	25,31,34	1.01	1 (4%)
1	5MU	2A	1915	1	19,22,23	1.41	4 (21%)	27,32,35	2.18	7 (25%)
1	2MA	1A	2503	57,1	22,25,26	1.50	5 (22%)	32,37,40	2.27	9 (28%)
1	OMG	2A	2251	57,1,55	23,26,27	1.23	3 (13%)	32,38,41	1.88	6 (18%)
32	PSU	2a	516	57,32	18,21,22	1.36	3 (16%)	21,30,33	2.06	5 (23%)
32	MA6	1a	1519	32	23,26,27	0.43	0	33,38,41	2.01	10 (30%)
1	PSU	2A	1911	1	18,21,22	1.39	2 (11%)	21,30,33	1.95	3 (14%)
32	PSU	1a	516	57,32	18,21,22	1.39	2 (11%)	21,30,33	2.02	5 (23%)
55	8AN	2x	76	57,56,55	21,24,25	1.40	3 (14%)	26,35,38	2.25	10 (38%)
32	G7M	2a	527	32	23,26,27	1.48	3 (13%)	34,39,42	1.74	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	PSU	1A	1917	1	18,21,22	1.35	2 (11%)	21,30,33	2.05	3 (14%)
1	OMG	1A	2251	57,1,55	23,26,27	1.23	3 (13%)	32,38,41	2.06	6 (18%)
1	PSU	1A	1911	1	18,21,22	1.35	2 (11%)	21,30,33	2.00	4 (19%)
32	5MC	1a	1400	32	19,22,23	1.82	3 (15%)	26,32,35	1.21	2 (7%)
32	MA6	1a	1518	32	23,26,27	0.40	0	33,38,41	1.96	10 (30%)
32	4OC	2a	1402	32	20,23,24	0.75	0	25,32,35	0.93	1 (4%)
32	4OC	1a	1402	32	20,23,24	0.77	0	25,32,35	0.84	1 (4%)
32	M2G	2a	966	32	24,27,28	1.32	4 (16%)	33,40,43	1.85	5 (15%)
32	MA6	2a	1518	32	23,26,27	0.39	0	33,38,41	2.06	10 (30%)
1	OMU	1A	2552	57,1	19,22,23	1.26	3 (15%)	25,31,34	1.88	6 (24%)
32	5MC	2a	1404	32	19,22,23	1.73	3 (15%)	26,32,35	1.22	3 (11%)
54	PPU	2w	76	1,54	37,40,41	1.24	4 (10%)	47,57,60	2.01	14 (29%)
32	5MC	2a	1400	32	19,22,23	1.63	3 (15%)	26,32,35	1.22	3 (11%)
32	5MC	1a	967	32	19,22,23	1.70	3 (15%)	26,32,35	1.16	3 (11%)
32	5MC	1a	1407	32	19,22,23	1.76	2 (10%)	26,32,35	1.10	2 (7%)
1	PSU	2A	1917	1	18,21,22	1.33	2 (11%)	21,30,33	1.96	3 (14%)
1	5MC	1A	1962	57,1	19,22,23	1.68	3 (15%)	26,32,35	1.16	2 (7%)
1	5MC	2A	1942	1	19,22,23	1.54	3 (15%)	26,32,35	1.15	2 (7%)
1	5MC	1A	1942	1	19,22,23	1.72	3 (15%)	26,32,35	1.15	2 (7%)
1	OMC	2A	1920	1	19,22,23	0.84	0	25,31,34	1.05	2 (8%)
1	5MC	2A	1962	57,1	19,22,23	1.66	3 (15%)	26,32,35	1.13	3 (11%)
1	PSU	1A	2605	1	18,21,22	1.42	3 (16%)	21,30,33	1.91	4 (19%)
1	2MA	2A	2503	57,1	22,25,26	1.45	4 (18%)	32,37,40	2.42	9 (28%)
1	5MU	2A	1939	57,1	19,22,23	1.44	4 (21%)	27,32,35	2.17	6 (22%)
1	PSU	2A	2605	1	18,21,22	1.34	3 (16%)	21,30,33	2.02	4 (19%)
32	2MG	2a	1207	32	23,26,27	1.25	4 (17%)	33,38,41	2.11	7 (21%)
32	UR3	1a	1498	32	19,22,23	1.00	2 (10%)	26,32,35	1.79	4 (15%)
32	MA6	2a	1519	32	23,26,27	0.44	0	33,38,41	2.16	10 (30%)
43	0TD	2l	92	43	8,9,10	4.62	1 (12%)	6,11,13	5.01	3 (50%)
43	0TD	1l	92	43	8,9,10	4.60	1 (12%)	6,11,13	6.80	3 (50%)
32	G7M	1a	527	57,32	23,26,27	1.56	4 (17%)	34,39,42	1.66	4 (11%)
32	M2G	1a	966	32	24,27,28	1.28	4 (16%)	33,40,43	1.84	6 (18%)
32	5MC	2a	967	32	19,22,23	1.81	3 (15%)	26,32,35	1.02	2 (7%)

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	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
1	5MU	1A	1939	57,1	-	0/7/25/26	0/2/2/2
1	5MU	1A	1915	1	-	2/7/25/26	0/2/2/2
1	OMU	2A	2552	57,1	-	1/9/27/28	0/2/2/2
32	2MG	1a	1207	32	-	2/9/27/28	0/3/3/3
55	8AN	1x	76	57,55	-	3/7/25/26	0/3/3/3
32	UR3	2a	1498	57,32	-	0/7/25/26	0/2/2/2
54	PPU	1w	76	1,54	-	1/25/43/44	0/4/4/4
32	5MC	2a	1407	32	-	0/7/25/26	0/2/2/2
1	OMC	1A	1920	1	-	1/9/27/28	0/2/2/2
1	5MU	2A	1915	1	-	4/7/25/26	0/2/2/2
1	2MA	1A	2503	57,1	-	0/7/25/26	0/3/3/3
1	OMG	2A	2251	57,1,55	-	0/9/27/28	0/3/3/3
32	PSU	2a	516	57,32	-	2/7/25/26	0/2/2/2
32	MA6	1a	1519	32	-	3/11/29/30	0/3/3/3
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	57,32	-	0/7/25/26	0/2/2/2
55	8AN	2x	76	57,56,55	-	3/7/25/26	0/3/3/3
32	G7M	2a	527	32	-	1/7/25/26	0/3/3/3
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	57,1,55	-	1/9/27/28	0/3/3/3
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
32	MA6	1a	1518	32	-	0/11/29/30	0/3/3/3
32	4OC	2a	1402	32	-	2/9/29/30	0/2/2/2
32	4OC	1a	1402	32	-	2/9/29/30	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
32	MA6	2a	1518	32	-	0/11/29/30	0/3/3/3
1	OMU	1A	2552	57,1	-	0/9/27/28	0/2/2/2
32	5MC	2a	1404	32	-	0/7/25/26	0/2/2/2
54	PPU	2w	76	1,54	-	0/25/43/44	0/4/4/4
32	5MC	2a	1400	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	967	32	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
1	5MC	1A	1962	57,1	-	2/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
1	OMC	2A	1920	1	-	1/9/27/28	0/2/2/2
1	5MC	2A	1962	57,1	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	1	-	0/7/25/26	0/2/2/2
1	2MA	2A	2503	57,1	-	0/7/25/26	0/3/3/3
1	5MU	2A	1939	57,1	-	0/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
32	2MG	2a	1207	32	-	2/9/27/28	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	2/11/29/30	0/3/3/3
43	0TD	2l	92	43	-	1/7/12/14	-
43	0TD	1l	92	43	-	2/7/12/14	-
32	G7M	1a	527	57,32	-	2/7/25/26	0/3/3/3
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3
32	5MC	2a	967	32	-	0/7/25/26	0/2/2/2

The worst 5 of 131 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.71	1.69	1.82
43	1l	92	0TD	CB-SB	-12.64	1.69	1.82
32	2a	967	5MC	C5-C4	6.79	1.49	1.44
32	1a	1400	5MC	C5-C4	6.72	1.49	1.44
32	1a	1407	5MC	C5-C4	6.55	1.49	1.44

The worst 5 of 271 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	1l	92	0TD	CSB-SB-CB	-16.13	73.36	102.36
43	2l	92	0TD	CSB-SB-CB	-11.71	81.31	102.36
1	2A	2503	2MA	C5-C4-N3	-8.11	118.64	127.18
1	1A	2503	2MA	C5-C4-N3	-7.71	119.06	127.18
32	1a	1207	2MG	C2-N3-C4	7.21	121.02	112.00

There are no chirality outliers.

5 of 42 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	1A	1915	5MU	O4'-C1'-N1-C2
1	1A	1915	5MU	O4'-C1'-N1-C6
1	1A	2251	OMG	C1'-C2'-O2'-CM2

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Mol	Chain	Res	Type	Atoms
32	1a	1207	2MG	N1-C2-N2-CM2
32	1a	1207	2MG	N3-C2-N2-CM2

There are no ring outliers.

27 monomers are involved in 44 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	1a	1404	5MC	1	0
1	1A	1939	5MU	1	0
1	2A	2552	OMU	1	0
55	1x	76	8AN	2	0
54	1w	76	PPU	3	0
1	1A	1920	OMC	1	0
1	2A	1915	5MU	1	0
32	2a	516	PSU	1	0
32	1a	1519	MA6	3	0
55	2x	76	8AN	2	0
32	1a	1400	5MC	1	0
32	1a	1518	MA6	2	0
32	2a	1402	4OC	3	0
32	1a	1402	4OC	2	0
32	2a	1518	MA6	2	0
1	1A	2552	OMU	1	0
32	2a	1404	5MC	1	0
54	2w	76	PPU	4	0
32	2a	1400	5MC	1	0
1	2A	1942	5MC	1	0
1	2A	1920	OMC	1	0
1	1A	2605	PSU	1	0
1	2A	1939	5MU	2	0
32	2a	1207	2MG	4	0
32	1a	1498	UR3	1	0
32	2a	1519	MA6	6	0
32	1a	966	M2G	1	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 2534 ligands modelled in this entry, 2523 are monoatomic - leaving 11 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
59	ARG	1F	317	-	10,11,11	0.76	1 (10%)	9,13,13	0.97	1 (11%)
61	SF4	2d	501	35	0,12,12	-	-	-	-	-
58	MPD	2B	221	-	7,7,7	0.31	0	9,10,10	0.15	0
62	MRD	2A	3738	-	7,7,7	0.31	0	9,10,10	0.42	0
58	MPD	1A	4029	-	7,7,7	0.41	0	9,10,10	0.38	0
58	MPD	1T	205	-	7,7,7	0.26	0	9,10,10	0.29	0
58	MPD	18	104	-	7,7,7	0.40	0	9,10,10	0.35	0
58	MPD	2A	3739	-	7,7,7	0.29	0	9,10,10	0.22	0
61	SF4	1d	307	35	0,12,12	-	-	-	-	-
58	MPD	1a	1881	-	7,7,7	0.37	0	9,10,10	0.29	0
59	ARG	1B	231	57	10,11,11	0.81	1 (10%)	9,13,13	1.04	1 (11%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	ARG	1F	317	-	-	1/11/11/11	-
61	SF4	2d	501	35	-	-	0/6/5/5
58	MPD	2B	221	-	-	4/5/5/5	-
62	MRD	2A	3738	-	-	1/5/5/5	-
58	MPD	1A	4029	-	-	2/5/5/5	-
58	MPD	1T	205	-	-	3/5/5/5	-
58	MPD	18	104	-	-	1/5/5/5	-
58	MPD	2A	3739	-	-	5/5/5/5	-
61	SF4	1d	307	35	-	-	0/6/5/5
58	MPD	1a	1881	-	-	3/5/5/5	-
59	ARG	1B	231	57	-	0/11/11/11	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	1B	231	ARG	OXT-C	-2.37	1.23	1.30
59	1F	317	ARG	OXT-C	-2.20	1.23	1.30

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	1B	231	ARG	OXT-C-O	-2.89	117.52	124.08
59	1F	317	ARG	OXT-C-O	-2.83	117.66	124.08

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
58	1T	205	MPD	C1-C2-C3-C4
58	2A	3739	MPD	C2-C3-C4-O4
58	2A	3739	MPD	C2-C3-C4-C5
58	1A	4029	MPD	O2-C2-C3-C4
58	1T	205	MPD	CM-C2-C3-C4

There are no ring outliers.

7 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	1F	317	ARG	2	0
61	2d	501	SF4	1	0
58	1A	4029	MPD	1	0
58	1T	205	MPD	1	0
58	18	104	MPD	2	0
58	1a	1881	MPD	2	0
59	1B	231	ARG	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	1A	2861/2915 (98%)	-0.34	121 (4%)	40	36	19, 36, 80, 92	0
1	2A	2856/2915 (97%)	0.16	138 (4%)	35	32	33, 53, 81, 91	0
2	1B	120/121 (99%)	-0.10	0	100	100	28, 49, 63, 76	0
2	2B	120/121 (99%)	0.56	2 (1%)	69	65	52, 68, 73, 78	0
3	1D	275/276 (99%)	0.04	2 (0%)	84	81	22, 38, 48, 62	0
3	2D	275/276 (99%)	0.42	4 (1%)	72	68	34, 48, 58, 68	0
4	1E	204/206 (99%)	0.14	2 (0%)	79	76	20, 40, 57, 68	0
4	2E	204/206 (99%)	0.70	6 (2%)	53	50	32, 54, 64, 79	0
5	1F	203/210 (96%)	0.16	4 (1%)	65	60	18, 39, 63, 74	0
5	2F	203/210 (96%)	0.87	8 (3%)	43	39	37, 58, 68, 75	0
6	1G	181/182 (99%)	0.84	13 (7%)	21	18	42, 59, 67, 73	0
6	2G	181/182 (99%)	1.55	48 (26%)	1	1	60, 70, 75, 82	0
7	1H	174/180 (96%)	0.49	1 (0%)	85	83	34, 50, 59, 64	0
7	2H	173/180 (96%)	1.35	26 (15%)	5	4	59, 69, 74, 77	0
8	1I	147/148 (99%)	1.09	13 (8%)	15	12	41, 64, 71, 75	0
8	2I	146/148 (98%)	1.37	31 (21%)	2	2	50, 66, 73, 77	0
9	1N	140/140 (100%)	0.14	0	100	100	24, 36, 53, 64	0
9	2N	140/140 (100%)	0.77	5 (3%)	46	42	42, 57, 67, 71	0
10	1O	122/122 (100%)	0.16	0	100	100	29, 42, 56, 63	0
10	2O	122/122 (100%)	0.64	1 (0%)	82	80	44, 52, 62, 66	0
11	1P	149/150 (99%)	0.20	2 (1%)	75	71	20, 44, 59, 65	0
11	2P	149/150 (99%)	0.81	9 (6%)	27	24	36, 59, 70, 80	0
12	1Q	141/141 (100%)	0.14	0	100	100	26, 40, 50, 61	0
12	2Q	141/141 (100%)	0.75	6 (4%)	40	36	41, 56, 65, 75	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	0.06	0 100 100	26, 35, 47, 57	0
13	2R	118/118 (100%)	0.54	1 (0%) 82 80	39, 50, 58, 60	0
14	1S	110/112 (98%)	0.55	1 (0%) 81 78	36, 49, 58, 61	0
14	2S	110/112 (98%)	1.30	14 (12%) 8 6	56, 62, 70, 72	0
15	1T	131/146 (89%)	0.46	9 (6%) 23 19	34, 44, 60, 70	0
15	2T	131/146 (89%)	0.71	3 (2%) 61 57	45, 55, 65, 73	0
16	1U	116/118 (98%)	-0.19	1 (0%) 81 78	20, 29, 42, 53	0
16	2U	116/118 (98%)	0.71	3 (2%) 57 53	38, 53, 64, 69	0
17	1V	101/101 (100%)	-0.04	1 (0%) 79 76	21, 38, 52, 59	0
17	2V	101/101 (100%)	0.83	3 (2%) 52 48	37, 60, 67, 71	0
18	1W	112/113 (99%)	-0.05	1 (0%) 81 78	22, 30, 50, 66	0
18	2W	112/113 (99%)	0.46	2 (1%) 67 63	41, 49, 58, 71	0
19	1X	95/96 (98%)	0.30	3 (3%) 50 46	28, 38, 56, 65	0
19	2X	95/96 (98%)	0.87	4 (4%) 40 36	47, 55, 63, 67	0
20	1Y	107/110 (97%)	0.41	0 100 100	34, 46, 59, 67	0
20	2Y	107/110 (97%)	1.36	18 (16%) 4 3	52, 62, 69, 75	0
21	1Z	203/206 (98%)	0.71	3 (1%) 72 68	34, 52, 64, 70	0
21	2Z	201/206 (97%)	1.13	15 (7%) 20 17	54, 65, 71, 77	0
22	10	83/85 (97%)	0.08	1 (1%) 76 73	26, 37, 45, 54	0
22	20	83/85 (97%)	1.07	9 (10%) 11 8	41, 55, 62, 66	0
23	11	97/98 (98%)	0.32	1 (1%) 79 76	28, 43, 64, 66	0
23	21	97/98 (98%)	0.64	3 (3%) 51 47	41, 52, 63, 68	0
24	12	70/72 (97%)	0.50	1 (1%) 73 69	36, 47, 57, 71	0
24	22	70/72 (97%)	0.83	1 (1%) 73 69	51, 61, 67, 70	0
25	13	59/60 (98%)	-0.05	0 100 100	24, 34, 57, 63	0
25	23	59/60 (98%)	0.65	3 (5%) 33 30	46, 54, 68, 75	0
26	14	69/71 (97%)	1.37	17 (24%) 2 1	56, 70, 76, 80	0
26	24	69/71 (97%)	1.75	24 (34%) 1 1	65, 75, 82, 83	0
27	15	59/60 (98%)	0.07	2 (3%) 48 44	21, 34, 48, 54	0
27	25	59/60 (98%)	0.41	0 100 100	37, 47, 62, 72	0
28	16	53/54 (98%)	0.06	0 100 100	35, 41, 52, 57	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.65	2 (3%) 44 40	49, 56, 62, 65	0
29	17	48/49 (97%)	0.06	2 (4%) 40 36	21, 28, 53, 60	0
29	27	48/49 (97%)	0.42	3 (6%) 26 22	34, 43, 58, 65	0
30	18	64/65 (98%)	0.01	0 100 100	27, 33, 42, 49	0
30	28	64/65 (98%)	0.81	0 100 100	42, 52, 57, 61	0
31	19	37/37 (100%)	0.24	1 (2%) 56 52	28, 39, 50, 59	0
31	29	37/37 (100%)	1.03	2 (5%) 31 28	53, 59, 64, 66	0
32	1a	1488/1521 (97%)	0.54	34 (2%) 61 57	37, 65, 80, 90	0
32	2a	1492/1521 (98%)	0.64	45 (3%) 52 48	47, 67, 80, 88	0
33	1b	231/256 (90%)	1.49	52 (22%) 2 2	58, 69, 76, 79	0
33	2b	231/256 (90%)	1.67	79 (34%) 1 1	61, 71, 76, 81	0
34	1c	206/239 (86%)	1.28	30 (14%) 6 4	56, 68, 75, 80	0
34	2c	206/239 (86%)	1.51	50 (24%) 2 1	60, 71, 76, 79	0
35	1d	208/209 (99%)	1.33	38 (18%) 3 3	54, 66, 72, 76	0
35	2d	208/209 (99%)	1.15	17 (8%) 17 14	55, 64, 70, 73	0
36	1e	148/162 (91%)	0.89	7 (4%) 36 32	45, 61, 67, 72	0
36	2e	148/162 (91%)	1.02	9 (6%) 27 23	52, 63, 71, 78	0
37	1f	100/101 (99%)	0.97	3 (3%) 52 48	52, 62, 67, 71	0
37	2f	100/101 (99%)	0.88	3 (3%) 52 48	52, 62, 68, 70	0
38	1g	155/156 (99%)	1.09	16 (10%) 12 9	58, 65, 72, 77	0
38	2g	155/156 (99%)	1.36	27 (17%) 4 3	60, 69, 73, 77	0
39	1h	137/138 (99%)	1.05	9 (6%) 24 20	53, 62, 68, 71	0
39	2h	137/138 (99%)	1.13	9 (6%) 24 20	57, 63, 68, 72	0
40	1i	127/128 (99%)	1.71	41 (32%) 1 1	58, 69, 74, 78	0
40	2i	126/128 (98%)	1.93	58 (46%) 0 0	64, 71, 76, 79	0
41	1j	97/105 (92%)	1.60	27 (27%) 1 1	57, 69, 76, 78	0
41	2j	96/105 (91%)	1.98	47 (48%) 0 0	63, 72, 75, 78	0
42	1k	114/129 (88%)	0.88	6 (5%) 32 28	45, 59, 66, 70	0
42	2k	114/129 (88%)	0.99	6 (5%) 32 28	54, 63, 70, 72	0
43	1l	121/132 (91%)	0.88	4 (3%) 49 45	50, 58, 64, 67	0
43	2l	121/132 (91%)	1.03	6 (4%) 34 30	52, 62, 68, 72	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	116/126 (92%)	1.22	11 (9%) 14 11	56, 67, 71, 76	0
44	2m	114/126 (90%)	1.62	34 (29%) 1 1	64, 70, 75, 77	0
45	1n	60/61 (98%)	1.57	12 (20%) 3 2	60, 67, 71, 72	0
45	2n	60/61 (98%)	1.92	25 (41%) 0 0	63, 70, 76, 79	0
46	1o	88/89 (98%)	0.92	4 (4%) 38 34	47, 59, 68, 75	0
46	2o	88/89 (98%)	1.10	5 (5%) 29 25	54, 63, 69, 72	0
47	1p	82/88 (93%)	1.72	25 (30%) 1 1	57, 66, 72, 73	0
47	2p	82/88 (93%)	1.23	9 (10%) 10 8	56, 62, 68, 71	0
48	1q	99/105 (94%)	1.15	6 (6%) 27 23	53, 63, 69, 72	0
48	2q	99/105 (94%)	1.09	5 (5%) 33 30	54, 62, 68, 73	0
49	1r	68/88 (77%)	0.98	4 (5%) 28 24	54, 61, 69, 75	0
49	2r	68/88 (77%)	0.94	5 (7%) 20 17	56, 62, 69, 71	0
50	1s	83/93 (89%)	1.45	13 (15%) 5 4	53, 68, 73, 78	0
50	2s	83/93 (89%)	1.54	25 (30%) 1 1	66, 72, 76, 79	0
51	1t	96/106 (90%)	1.48	24 (25%) 2 1	56, 66, 72, 75	0
51	2t	98/106 (92%)	1.23	11 (11%) 10 7	53, 63, 70, 74	0
52	1u	23/27 (85%)	1.66	5 (21%) 2 2	63, 67, 70, 71	0
52	2u	23/27 (85%)	2.13	11 (47%) 0 0	65, 69, 72, 74	0
53	1y	97/113 (85%)	1.13	13 (13%) 7 5	50, 60, 67, 71	0
53	2y	96/113 (84%)	2.00	43 (44%) 0 0	62, 68, 74, 75	0
54	1w	3/4 (75%)	-0.20	0 100 100	28, 28, 36, 40	0
54	2w	3/4 (75%)	0.28	0 100 100	44, 44, 47, 53	0
55	1x	3/4 (75%)	0.19	1 (33%) 1 1	27, 27, 29, 44	0
55	2x	3/4 (75%)	0.36	0 100 100	43, 43, 46, 52	0
56	1v	3/3 (100%)	-0.50	0 100 100	22, 22, 23, 26	0
56	2v	3/3 (100%)	0.84	0 100 100	46, 46, 49, 52	0
All	All	20796/21490 (96%)	0.57	1510 (7%) 21 17	18, 58, 76, 92	0

The worst 5 of 1510 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1A	1091	G	6.7
1	1A	1090	U	6.5

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Mol	Chain	Res	Type	RSRZ
1	1A	1087	G	6.4
45	2n	2	ALA	6.4
45	1n	2	ALA	6.3

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
1	5MU	2A	1915	21/22	0.80	0.14	69,74,81,90	0
1	5MU	1A	1915	21/22	0.87	0.13	66,72,75,80	0
32	M2G	2a	966	25/26	0.87	0.17	55,68,78,84	0
32	2MG	2a	1207	24/25	0.87	0.13	70,78,81,86	0
43	0TD	2l	92	10/11	0.88	0.14	59,63,66,74	0
1	PSU	2A	1911	20/21	0.89	0.11	61,67,79,80	0
32	PSU	2a	516	20/21	0.90	0.11	66,71,77,78	0
1	PSU	1A	1917	20/21	0.90	0.12	58,67,76,76	0
32	2MG	1a	1207	24/25	0.90	0.12	61,67,72,75	0
1	PSU	2A	1917	20/21	0.90	0.11	59,73,81,83	0
1	PSU	1A	1911	20/21	0.92	0.10	52,63,68,72	0
1	OMC	2A	1920	21/22	0.92	0.11	57,62,65,66	0
43	0TD	1l	92	10/11	0.92	0.12	51,58,60,75	0
32	5MC	2a	967	21/22	0.93	0.13	60,67,70,78	0
32	G7M	1a	527	24/25	0.94	0.11	43,55,59,61	0
32	4OC	2a	1402	22/23	0.94	0.12	57,63,65,66	0
32	5MC	2a	1407	21/22	0.94	0.12	52,57,62,63	0
32	MA6	2a	1518	24/25	0.94	0.12	56,60,64,67	0
32	G7M	2a	527	24/25	0.94	0.10	52,63,66,68	0
32	5MC	1a	967	21/22	0.95	0.12	59,66,70,74	0
32	PSU	1a	516	20/21	0.95	0.09	55,60,66,67	0
32	5MC	1a	1400	21/22	0.95	0.11	51,57,63,66	0
32	5MC	2a	1400	21/22	0.95	0.12	56,63,67,67	0
32	UR3	1a	1498	21/22	0.95	0.10	40,53,56,66	0
32	5MC	2a	1404	21/22	0.95	0.09	54,58,61,62	0
1	5MC	2A	1942	21/22	0.95	0.10	47,54,57,58	0
32	UR3	2a	1498	21/22	0.95	0.12	52,62,65,67	0
32	MA6	1a	1519	24/25	0.95	0.11	44,48,53,53	0
32	MA6	2a	1519	24/25	0.95	0.12	46,58,62,63	0
1	OMC	1A	1920	21/22	0.95	0.11	44,56,61,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	4OC	1a	1402	22/23	0.96	0.10	46,54,57,66	0
32	5MC	1a	1404	21/22	0.96	0.11	47,54,59,66	0
32	5MC	1a	1407	21/22	0.96	0.10	43,52,57,61	0
32	M2G	1a	966	25/26	0.96	0.10	57,63,68,71	0
32	MA6	1a	1518	24/25	0.96	0.10	45,48,51,57	0
55	8AN	2x	76	22/23	0.96	0.10	34,41,51,60	0
1	OMG	2A	2251	24/25	0.97	0.10	33,38,44,44	0
1	2MA	2A	2503	23/24	0.97	0.09	22,36,41,43	0
1	OMU	2A	2552	21/22	0.97	0.08	33,40,43,53	0
1	PSU	2A	2605	20/21	0.97	0.09	33,38,45,48	0
1	5MC	1A	1942	21/22	0.97	0.08	28,40,44,46	0
1	5MC	1A	1962	21/22	0.97	0.08	30,41,45,47	0
1	5MU	2A	1939	21/22	0.97	0.08	34,43,48,49	0
1	PSU	1A	2605	20/21	0.97	0.07	18,28,32,34	0
54	PPU	2w	76	37/38	0.97	0.09	29,38,43,44	0
55	8AN	1x	76	22/23	0.97	0.08	18,24,29,40	0
1	5MC	2A	1962	21/22	0.97	0.09	35,46,49,52	0
1	OMG	1A	2251	24/25	0.98	0.06	18,25,29,35	0
54	PPU	1w	76	37/38	0.98	0.08	15,24,31,33	0
1	2MA	1A	2503	23/24	0.98	0.07	17,22,25,26	0
1	OMU	1A	2552	21/22	0.98	0.06	25,28,30,31	0
1	5MU	1A	1939	21/22	0.98	0.07	25,30,38,43	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3726	1/1	0.58	0.21	65,65,65,65	0
57	MG	1a	1792	1/1	0.59	0.21	78,78,78,78	0
57	MG	1A	3703	1/1	0.65	0.17	64,64,64,64	0
57	MG	2A	3383	1/1	0.66	0.20	78,78,78,78	0
57	MG	2A	3437	1/1	0.66	0.19	72,72,72,72	0
57	MG	1A	3997	1/1	0.66	0.17	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3435	1/1	0.67	0.19	80,80,80,80	0
57	MG	1A	3533	1/1	0.70	0.20	64,64,64,64	0
57	MG	1a	1738	1/1	0.70	0.20	86,86,86,86	0
57	MG	2B	201	1/1	0.71	0.20	68,68,68,68	0
57	MG	1A	3440	1/1	0.72	0.17	43,43,43,43	0
57	MG	1a	1675	1/1	0.73	0.28	68,68,68,68	0
57	MG	1a	1722	1/1	0.73	0.21	77,77,77,77	0
57	MG	1A	3960	1/1	0.73	0.15	81,81,81,81	0
57	MG	1A	3902	1/1	0.73	0.19	41,41,41,41	0
57	MG	2A	3364	1/1	0.74	0.15	57,57,57,57	0
57	MG	1A	3448	1/1	0.74	0.13	29,29,29,29	0
57	MG	1E	304	1/1	0.74	0.10	34,34,34,34	0
57	MG	1A	3714	1/1	0.74	0.20	49,49,49,49	0
57	MG	2A	3223	1/1	0.74	0.26	69,69,69,69	0
57	MG	2A	3536	1/1	0.76	0.27	71,71,71,71	0
57	MG	1A	3812	1/1	0.77	0.15	55,55,55,55	0
57	MG	2A	3484	1/1	0.77	0.21	55,55,55,55	0
57	MG	2A	3323	1/1	0.77	0.16	70,70,70,70	0
57	MG	1a	1751	1/1	0.77	0.15	72,72,72,72	0
57	MG	2A	3731	1/1	0.77	0.21	59,59,59,59	0
57	MG	1A	3900	1/1	0.77	0.14	58,58,58,58	0
58	MPD	2B	221	8/8	0.77	0.27	52,63,69,73	0
57	MG	2A	3246	1/1	0.78	0.28	68,68,68,68	0
57	MG	2A	3582	1/1	0.78	0.15	64,64,64,64	0
57	MG	2a	3062	1/1	0.78	0.22	66,66,66,66	0
57	MG	1A	3803	1/1	0.78	0.23	53,53,53,53	0
62	MRD	2A	3738	8/8	0.78	0.29	46,55,58,59	0
57	MG	1R	202	1/1	0.79	0.21	48,48,48,48	0
57	MG	1a	1664	1/1	0.79	0.24	72,72,72,72	0
57	MG	2A	3489	1/1	0.79	0.14	48,48,48,48	0
57	MG	2A	3173	1/1	0.79	0.20	60,60,60,60	0
57	MG	2A	3199	1/1	0.79	0.20	64,64,64,64	0
57	MG	1A	3617	1/1	0.79	0.11	42,42,42,42	0
57	MG	1a	1682	1/1	0.79	0.22	66,66,66,66	0
57	MG	1a	1706	1/1	0.79	0.15	64,64,64,64	0
57	MG	1A	3463	1/1	0.79	0.16	70,70,70,70	0
57	MG	1P	204	1/1	0.79	0.13	73,73,73,73	0
57	MG	2A	3431	1/1	0.79	0.16	77,77,77,77	0
57	MG	1a	1808	1/1	0.80	0.16	70,70,70,70	0
57	MG	1a	1671	1/1	0.80	0.20	68,68,68,68	0
57	MG	2A	3423	1/1	0.80	0.19	67,67,67,67	0
57	MG	1a	1729	1/1	0.80	0.18	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3735	1/1	0.80	0.23	69,69,69,69	0
57	MG	1A	3779	1/1	0.80	0.13	41,41,41,41	0
57	MG	1a	1636	1/1	0.80	0.34	71,71,71,71	0
57	MG	2a	3091	1/1	0.80	0.27	70,70,70,70	0
57	MG	1A	4024	1/1	0.80	0.13	60,60,60,60	0
57	MG	2A	3529	1/1	0.80	0.20	67,67,67,67	0
57	MG	2A	3623	1/1	0.81	0.14	45,45,45,45	0
57	MG	1A	3627	1/1	0.81	0.22	30,30,30,30	0
57	MG	1A	3535	1/1	0.81	0.12	53,53,53,53	0
57	MG	2A	3733	1/1	0.81	0.15	65,65,65,65	0
57	MG	2A	3165	1/1	0.81	0.12	48,48,48,48	0
57	MG	2A	3526	1/1	0.81	0.28	55,55,55,55	0
57	MG	1B	230	1/1	0.81	0.11	56,56,56,56	0
57	MG	1a	1748	1/1	0.81	0.15	63,63,63,63	0
57	MG	2a	3156	1/1	0.81	0.17	77,77,77,77	0
57	MG	2a	3185	1/1	0.81	0.15	70,70,70,70	0
57	MG	1A	3852	1/1	0.81	0.12	54,54,54,54	0
57	MG	2A	3590	1/1	0.81	0.14	45,45,45,45	0
57	MG	1A	3995	1/1	0.82	0.12	66,66,66,66	0
57	MG	2A	3402	1/1	0.82	0.15	48,48,48,48	0
57	MG	1A	3097	1/1	0.82	0.19	61,61,61,61	0
57	MG	1a	1762	1/1	0.82	0.18	75,75,75,75	0
57	MG	1a	1779	1/1	0.82	0.13	65,65,65,65	0
57	MG	2A	3460	1/1	0.82	0.19	44,44,44,44	0
57	MG	2A	3464	1/1	0.82	0.11	65,65,65,65	0
57	MG	2A	3472	1/1	0.82	0.18	61,61,61,61	0
57	MG	2a	3010	1/1	0.82	0.14	70,70,70,70	0
57	MG	1A	3729	1/1	0.82	0.12	39,39,39,39	0
57	MG	2A	3247	1/1	0.82	0.27	77,77,77,77	0
57	MG	2A	3496	1/1	0.82	0.14	66,66,66,66	0
57	MG	2A	3320	1/1	0.82	0.21	68,68,68,68	0
57	MG	1A	3705	1/1	0.82	0.18	61,61,61,61	0
59	ARG	1F	317	12/12	0.82	0.19	42,62,67,68	0
57	MG	1a	1837	1/1	0.82	0.16	63,63,63,63	0
57	MG	2A	3146	1/1	0.83	0.20	60,60,60,60	0
57	MG	1A	4014	1/1	0.83	0.12	57,57,57,57	0
57	MG	1A	3630	1/1	0.83	0.20	58,58,58,58	0
57	MG	2A	3513	1/1	0.83	0.12	60,60,60,60	0
57	MG	1A	3768	1/1	0.83	0.23	57,57,57,57	0
57	MG	1A	3496	1/1	0.83	0.10	27,27,27,27	0
57	MG	1A	3969	1/1	0.83	0.12	63,63,63,63	0
57	MG	1A	3987	1/1	0.83	0.13	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1R	204	1/1	0.83	0.23	52,52,52,52	0
57	MG	1a	1609	1/1	0.83	0.17	68,68,68,68	0
57	MG	2A	3681	1/1	0.83	0.12	64,64,64,64	0
57	MG	2A	3694	1/1	0.83	0.21	59,59,59,59	0
57	MG	1A	3870	1/1	0.83	0.08	19,19,19,19	0
57	MG	1a	1776	1/1	0.83	0.12	66,66,66,66	0
57	MG	2A	3394	1/1	0.83	0.15	60,60,60,60	0
57	MG	1a	1777	1/1	0.83	0.14	69,69,69,69	0
57	MG	1a	1638	1/1	0.83	0.24	71,71,71,71	0
57	MG	1a	1663	1/1	0.83	0.17	70,70,70,70	0
57	MG	2A	3433	1/1	0.83	0.20	57,57,57,57	0
57	MG	1A	3885	1/1	0.83	0.11	72,72,72,72	0
57	MG	2a	3125	1/1	0.83	0.16	68,68,68,68	0
57	MG	2a	3135	1/1	0.83	0.19	61,61,61,61	0
57	MG	2a	3148	1/1	0.83	0.14	51,51,51,51	0
57	MG	2A	3447	1/1	0.83	0.14	55,55,55,55	0
57	MG	2a	3170	1/1	0.83	0.12	76,76,76,76	0
57	MG	2a	3175	1/1	0.83	0.14	68,68,68,68	0
57	MG	2A	3454	1/1	0.83	0.13	60,60,60,60	0
57	MG	1A	4000	1/1	0.83	0.27	51,51,51,51	0
57	MG	1a	1860	1/1	0.83	0.11	55,55,55,55	0
57	MG	1h	202	1/1	0.83	0.17	67,67,67,67	0
57	MG	1a	1667	1/1	0.84	0.28	74,74,74,74	0
57	MG	2A	3044	1/1	0.84	0.28	66,66,66,66	0
57	MG	2A	3132	1/1	0.84	0.20	70,70,70,70	0
57	MG	1a	1758	1/1	0.84	0.14	66,66,66,66	0
57	MG	1A	3849	1/1	0.84	0.12	50,50,50,50	0
57	MG	1A	3890	1/1	0.84	0.20	54,54,54,54	0
57	MG	2A	3178	1/1	0.84	0.15	53,53,53,53	0
57	MG	1A	3246	1/1	0.84	0.21	64,64,64,64	0
57	MG	2B	207	1/1	0.84	0.17	68,68,68,68	0
57	MG	1B	202	1/1	0.84	0.16	63,63,63,63	0
57	MG	2a	3060	1/1	0.84	0.24	64,64,64,64	0
57	MG	1B	225	1/1	0.84	0.18	60,60,60,60	0
57	MG	2a	3068	1/1	0.84	0.21	65,65,65,65	0
57	MG	1A	3292	1/1	0.84	0.17	74,74,74,74	0
57	MG	1D	313	1/1	0.84	0.14	48,48,48,48	0
57	MG	1a	1845	1/1	0.84	0.21	73,73,73,73	0
57	MG	2A	3522	1/1	0.84	0.22	56,56,56,56	0
57	MG	2A	3357	1/1	0.84	0.17	64,64,64,64	0
57	MG	2a	3166	1/1	0.84	0.15	60,60,60,60	0
57	MG	1a	1851	1/1	0.84	0.13	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3532	1/1	0.84	0.11	66,66,66,66	0
57	MG	2a	3177	1/1	0.84	0.22	72,72,72,72	0
57	MG	1a	1856	1/1	0.84	0.15	64,64,64,64	0
57	MG	1A	3951	1/1	0.84	0.09	51,51,51,51	0
57	MG	1f	202	1/1	0.84	0.12	52,52,52,52	0
57	MG	2A	3592	1/1	0.84	0.15	50,50,50,50	0
57	MG	1Z	301	1/1	0.85	0.12	52,52,52,52	0
57	MG	2A	3665	1/1	0.85	0.11	66,66,66,66	0
57	MG	2A	3422	1/1	0.85	0.13	50,50,50,50	0
57	MG	1A	3896	1/1	0.85	0.09	28,28,28,28	0
57	MG	2A	3703	1/1	0.85	0.15	56,56,56,56	0
57	MG	2A	3705	1/1	0.85	0.13	53,53,53,53	0
57	MG	1A	4003	1/1	0.85	0.14	54,54,54,54	0
57	MG	1A	3394	1/1	0.85	0.12	43,43,43,43	0
57	MG	1a	1774	1/1	0.85	0.14	67,67,67,67	0
57	MG	1A	3824	1/1	0.85	0.12	71,71,71,71	0
57	MG	1A	3198	1/1	0.85	0.18	63,63,63,63	0
57	MG	1A	3753	1/1	0.85	0.15	44,44,44,44	0
57	MG	2B	218	1/1	0.85	0.13	61,61,61,61	0
57	MG	2G	3302	1/1	0.85	0.16	70,70,70,70	0
57	MG	2A	3193	1/1	0.85	0.15	60,60,60,60	0
57	MG	2a	3021	1/1	0.85	0.15	70,70,70,70	0
57	MG	2a	3025	1/1	0.85	0.16	64,64,64,64	0
57	MG	1A	3967	1/1	0.85	0.12	59,59,59,59	0
57	MG	2A	3480	1/1	0.85	0.17	69,69,69,69	0
57	MG	1a	1803	1/1	0.85	0.16	67,67,67,67	0
57	MG	1A	3863	1/1	0.85	0.12	56,56,56,56	0
57	MG	1a	1809	1/1	0.85	0.14	70,70,70,70	0
57	MG	2A	3511	1/1	0.85	0.10	67,67,67,67	0
57	MG	2A	3282	1/1	0.85	0.16	66,66,66,66	0
57	MG	1A	3687	1/1	0.85	0.17	61,61,61,61	0
57	MG	1P	203	1/1	0.85	0.17	36,36,36,36	0
57	MG	1A	3993	1/1	0.85	0.09	29,29,29,29	0
57	MG	2A	3363	1/1	0.85	0.19	69,69,69,69	0
57	MG	1A	3612	1/1	0.85	0.11	40,40,40,40	0
57	MG	2a	3179	1/1	0.85	0.13	65,65,65,65	0
57	MG	2A	3372	1/1	0.85	0.17	61,61,61,61	0
57	MG	2e	201	1/1	0.85	0.30	70,70,70,70	0
57	MG	2A	3583	1/1	0.85	0.12	50,50,50,50	0
57	MG	1A	3355	1/1	0.85	0.14	57,57,57,57	0
57	MG	1a	1874	1/1	0.85	0.19	74,74,74,74	0
57	MG	2A	3441	1/1	0.86	0.13	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3171	1/1	0.86	0.12	65,65,65,65	0
57	MG	1A	3637	1/1	0.86	0.10	38,38,38,38	0
57	MG	1A	3311	1/1	0.86	0.27	67,67,67,67	0
57	MG	1a	1789	1/1	0.86	0.16	75,75,75,75	0
57	MG	1G	202	1/1	0.86	0.12	55,55,55,55	0
57	MG	1A	3593	1/1	0.86	0.18	40,40,40,40	0
57	MG	1a	1805	1/1	0.86	0.17	73,73,73,73	0
57	MG	1a	1696	1/1	0.86	0.19	70,70,70,70	0
57	MG	1a	1703	1/1	0.86	0.11	64,64,64,64	0
57	MG	2A	3318	1/1	0.86	0.26	68,68,68,68	0
57	MG	1a	1704	1/1	0.86	0.16	57,57,57,57	0
57	MG	1A	3454	1/1	0.86	0.18	62,62,62,62	0
57	MG	1a	1707	1/1	0.86	0.24	61,61,61,61	0
57	MG	2a	3066	1/1	0.86	0.13	74,74,74,74	0
57	MG	1A	3710	1/1	0.86	0.11	72,72,72,72	0
57	MG	1A	4007	1/1	0.86	0.12	73,73,73,73	0
57	MG	2A	3533	1/1	0.86	0.26	66,66,66,66	0
57	MG	1A	4011	1/1	0.86	0.23	53,53,53,53	0
57	MG	2a	3141	1/1	0.86	0.10	61,61,61,61	0
57	MG	2A	3558	1/1	0.86	0.12	62,62,62,62	0
57	MG	2A	3569	1/1	0.86	0.15	44,44,44,44	0
57	MG	1A	3841	1/1	0.86	0.18	34,34,34,34	0
57	MG	1a	1626	1/1	0.86	0.13	74,74,74,74	0
57	MG	2A	3399	1/1	0.86	0.13	58,58,58,58	0
57	MG	1A	3422	1/1	0.86	0.10	53,53,53,53	0
57	MG	2A	3093	1/1	0.86	0.25	67,67,67,67	0
57	MG	2A	3643	1/1	0.86	0.09	74,74,74,74	0
57	MG	2A	3107	1/1	0.86	0.20	56,56,56,56	0
57	MG	1A	3034	1/1	0.86	0.27	56,56,56,56	0
57	MG	1A	3361	1/1	0.86	0.20	50,50,50,50	0
57	MG	1A	3767	1/1	0.86	0.09	29,29,29,29	0
57	MG	2A	3331	1/1	0.87	0.18	57,57,57,57	0
57	MG	1A	3493	1/1	0.87	0.12	23,23,23,23	0
57	MG	1A	3078	1/1	0.87	0.13	56,56,56,56	0
57	MG	1A	4002	1/1	0.87	0.12	38,38,38,38	0
57	MG	2A	3626	1/1	0.87	0.13	59,59,59,59	0
57	MG	2A	3632	1/1	0.87	0.17	63,63,63,63	0
57	MG	1A	3521	1/1	0.87	0.12	49,49,49,49	0
57	MG	2A	3659	1/1	0.87	0.16	74,74,74,74	0
57	MG	1a	1725	1/1	0.87	0.13	74,74,74,74	0
57	MG	1A	3944	1/1	0.87	0.15	59,59,59,59	0
57	MG	1a	1880	1/1	0.87	0.15	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3749	1/1	0.87	0.13	47,47,47,47	0
57	MG	2A	3404	1/1	0.87	0.20	69,69,69,69	0
57	MG	2A	3715	1/1	0.87	0.17	72,72,72,72	0
57	MG	1h	201	1/1	0.87	0.13	57,57,57,57	0
57	MG	1A	3109	1/1	0.87	0.13	64,64,64,64	0
57	MG	1A	3666	1/1	0.87	0.12	42,42,42,42	0
57	MG	2A	3056	1/1	0.87	0.18	65,65,65,65	0
57	MG	1a	1658	1/1	0.87	0.17	71,71,71,71	0
57	MG	2A	3096	1/1	0.87	0.16	68,68,68,68	0
57	MG	2B	213	1/1	0.87	0.13	56,56,56,56	0
57	MG	2A	3106	1/1	0.87	0.26	69,69,69,69	0
57	MG	2A	3451	1/1	0.87	0.16	65,65,65,65	0
57	MG	2Q	203	1/1	0.87	0.21	50,50,50,50	0
57	MG	1a	1659	1/1	0.87	0.20	47,47,47,47	0
57	MG	2a	3011	1/1	0.87	0.31	65,65,65,65	0
57	MG	2A	3116	1/1	0.87	0.12	66,66,66,66	0
57	MG	1A	3272	1/1	0.87	0.29	67,67,67,67	0
57	MG	2a	3059	1/1	0.87	0.25	67,67,67,67	0
57	MG	1A	3972	1/1	0.87	0.11	58,58,58,58	0
57	MG	2A	3475	1/1	0.87	0.17	70,70,70,70	0
57	MG	1A	3983	1/1	0.87	0.13	39,39,39,39	0
57	MG	1a	1778	1/1	0.87	0.11	82,82,82,82	0
57	MG	2a	3071	1/1	0.87	0.20	68,68,68,68	0
57	MG	2a	3078	1/1	0.87	0.17	58,58,58,58	0
57	MG	2a	3080	1/1	0.87	0.13	55,55,55,55	0
57	MG	2A	3487	1/1	0.87	0.12	59,59,59,59	0
57	MG	2a	3102	1/1	0.87	0.17	74,74,74,74	0
57	MG	2a	3116	1/1	0.87	0.15	60,60,60,60	0
57	MG	1D	303	1/1	0.87	0.13	48,48,48,48	0
57	MG	1A	3277	1/1	0.87	0.23	63,63,63,63	0
57	MG	1A	3990	1/1	0.87	0.12	55,55,55,55	0
57	MG	1a	1793	1/1	0.87	0.09	68,68,68,68	0
57	MG	1a	1798	1/1	0.87	0.14	52,52,52,52	0
57	MG	2a	3162	1/1	0.87	0.10	67,67,67,67	0
57	MG	2a	3164	1/1	0.87	0.12	54,54,54,54	0
57	MG	1a	1799	1/1	0.87	0.13	63,63,63,63	0
57	MG	1a	1685	1/1	0.87	0.16	59,59,59,59	0
57	MG	1a	1688	1/1	0.87	0.21	68,68,68,68	0
57	MG	2A	3292	1/1	0.87	0.17	59,59,59,59	0
57	MG	2A	3312	1/1	0.87	0.15	58,58,58,58	0
57	MG	2A	3549	1/1	0.87	0.14	74,74,74,74	0
57	MG	2A	3556	1/1	0.87	0.20	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3152	1/1	0.87	0.14	63,63,63,63	0
57	MG	1A	3892	1/1	0.87	0.12	50,50,50,50	0
57	MG	1a	1836	1/1	0.87	0.12	57,57,57,57	0
57	MG	1a	1833	1/1	0.88	0.12	68,68,68,68	0
57	MG	2A	3610	1/1	0.88	0.15	53,53,53,53	0
57	MG	1a	1834	1/1	0.88	0.11	71,71,71,71	0
57	MG	2A	3625	1/1	0.88	0.13	64,64,64,64	0
57	MG	2A	3341	1/1	0.88	0.09	43,43,43,43	0
57	MG	2A	3346	1/1	0.88	0.16	62,62,62,62	0
57	MG	1B	212	1/1	0.88	0.09	54,54,54,54	0
57	MG	1a	1690	1/1	0.88	0.17	60,60,60,60	0
57	MG	1A	3377	1/1	0.88	0.11	47,47,47,47	0
57	MG	2A	3678	1/1	0.88	0.11	41,41,41,41	0
57	MG	2A	3679	1/1	0.88	0.12	56,56,56,56	0
57	MG	1a	1698	1/1	0.88	0.30	62,62,62,62	0
57	MG	2A	3682	1/1	0.88	0.16	54,54,54,54	0
57	MG	1A	3726	1/1	0.88	0.11	48,48,48,48	0
57	MG	1A	3606	1/1	0.88	0.17	63,63,63,63	0
57	MG	1A	3736	1/1	0.88	0.09	33,33,33,33	0
57	MG	2A	3401	1/1	0.88	0.12	57,57,57,57	0
57	MG	1A	3461	1/1	0.88	0.21	35,35,35,35	0
57	MG	1A	3210	1/1	0.88	0.43	50,50,50,50	0
57	MG	1H	202	1/1	0.88	0.12	58,58,58,58	0
57	MG	1N	204	1/1	0.88	0.07	52,52,52,52	0
57	MG	1i	201	1/1	0.88	0.16	65,65,65,65	0
57	MG	1y	203	1/1	0.88	0.13	73,73,73,73	0
57	MG	2B	210	1/1	0.88	0.28	68,68,68,68	0
57	MG	1A	3763	1/1	0.88	0.18	55,55,55,55	0
57	MG	1A	3621	1/1	0.88	0.15	35,35,35,35	0
57	MG	2A	3444	1/1	0.88	0.11	52,52,52,52	0
57	MG	2A	3076	1/1	0.88	0.23	61,61,61,61	0
57	MG	2l	101	1/1	0.88	0.09	59,59,59,59	0
57	MG	1A	3482	1/1	0.88	0.12	59,59,59,59	0
57	MG	1A	3416	1/1	0.88	0.06	18,18,18,18	0
57	MG	2a	3018	1/1	0.88	0.14	63,63,63,63	0
57	MG	1A	3795	1/1	0.88	0.10	33,33,33,33	0
57	MG	10	105	1/1	0.88	0.16	58,58,58,58	0
57	MG	2a	3037	1/1	0.88	0.18	59,59,59,59	0
57	MG	2a	3047	1/1	0.88	0.14	63,63,63,63	0
57	MG	2a	3050	1/1	0.88	0.09	60,60,60,60	0
57	MG	1A	3334	1/1	0.88	0.12	55,55,55,55	0
57	MG	1A	3648	1/1	0.88	0.12	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3651	1/1	0.88	0.29	37,37,37,37	0
57	MG	1A	3660	1/1	0.88	0.13	56,56,56,56	0
57	MG	1A	3502	1/1	0.88	0.08	24,24,24,24	0
57	MG	1A	3336	1/1	0.88	0.29	65,65,65,65	0
57	MG	2A	3493	1/1	0.88	0.09	50,50,50,50	0
57	MG	1A	3691	1/1	0.88	0.11	43,43,43,43	0
57	MG	2A	3507	1/1	0.88	0.13	60,60,60,60	0
57	MG	1A	3218	1/1	0.88	0.21	67,67,67,67	0
57	MG	2A	3198	1/1	0.88	0.16	46,46,46,46	0
57	MG	2A	3520	1/1	0.88	0.15	43,43,43,43	0
57	MG	2a	3132	1/1	0.88	0.14	56,56,56,56	0
57	MG	1A	3871	1/1	0.88	0.11	55,55,55,55	0
57	MG	2a	3138	1/1	0.88	0.08	65,65,65,65	0
57	MG	2A	3525	1/1	0.88	0.20	42,42,42,42	0
57	MG	2A	3200	1/1	0.88	0.24	57,57,57,57	0
57	MG	2A	3222	1/1	0.88	0.14	59,59,59,59	0
57	MG	2A	3530	1/1	0.88	0.19	55,55,55,55	0
57	MG	2a	3163	1/1	0.88	0.11	60,60,60,60	0
57	MG	1A	3884	1/1	0.88	0.07	33,33,33,33	0
57	MG	2A	3240	1/1	0.88	0.11	57,57,57,57	0
57	MG	1A	3189	1/1	0.88	0.19	59,59,59,59	0
57	MG	1a	1807	1/1	0.88	0.21	69,69,69,69	0
57	MG	2A	3272	1/1	0.88	0.28	51,51,51,51	0
57	MG	1A	3888	1/1	0.88	0.15	33,33,33,33	0
57	MG	2a	3181	1/1	0.88	0.15	74,74,74,74	0
57	MG	2a	3183	1/1	0.88	0.15	65,65,65,65	0
57	MG	1A	3591	1/1	0.88	0.14	61,61,61,61	0
57	MG	2a	3189	1/1	0.88	0.15	59,59,59,59	0
57	MG	2A	3573	1/1	0.88	0.12	46,46,46,46	0
57	MG	1a	1826	1/1	0.88	0.21	59,59,59,59	0
57	MG	1a	1828	1/1	0.88	0.12	70,70,70,70	0
57	MG	1a	1829	1/1	0.88	0.17	73,73,73,73	0
57	MG	1A	3408	1/1	0.89	0.11	31,31,31,31	0
57	MG	2A	3624	1/1	0.89	0.12	64,64,64,64	0
57	MG	1A	3607	1/1	0.89	0.15	59,59,59,59	0
57	MG	1G	201	1/1	0.89	0.11	65,65,65,65	0
57	MG	2A	3627	1/1	0.89	0.10	48,48,48,48	0
57	MG	1a	1858	1/1	0.89	0.11	63,63,63,63	0
57	MG	2A	3348	1/1	0.89	0.09	49,49,49,49	0
57	MG	2A	3652	1/1	0.89	0.09	49,49,49,49	0
57	MG	1A	3479	1/1	0.89	0.15	59,59,59,59	0
57	MG	1a	1869	1/1	0.89	0.16	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1872	1/1	0.89	0.14	70,70,70,70	0
57	MG	1a	1717	1/1	0.89	0.11	67,67,67,67	0
57	MG	2A	3374	1/1	0.89	0.10	58,58,58,58	0
57	MG	1A	3959	1/1	0.89	0.09	53,53,53,53	0
57	MG	1A	3757	1/1	0.89	0.07	37,37,37,37	0
57	MG	2A	3395	1/1	0.89	0.15	59,59,59,59	0
57	MG	1A	3346	1/1	0.89	0.09	33,33,33,33	0
57	MG	2A	3712	1/1	0.89	0.17	62,62,62,62	0
57	MG	1A	3156	1/1	0.89	0.10	47,47,47,47	0
57	MG	1Q	205	1/1	0.89	0.10	51,51,51,51	0
57	MG	2A	3727	1/1	0.89	0.10	54,54,54,54	0
57	MG	1A	3430	1/1	0.89	0.08	37,37,37,37	0
57	MG	2A	3003	1/1	0.89	0.12	58,58,58,58	0
57	MG	1A	3973	1/1	0.89	0.12	55,55,55,55	0
57	MG	2A	3428	1/1	0.89	0.24	45,45,45,45	0
57	MG	2A	3429	1/1	0.89	0.16	52,52,52,52	0
57	MG	2A	3430	1/1	0.89	0.18	55,55,55,55	0
57	MG	1A	3497	1/1	0.89	0.13	32,32,32,32	0
57	MG	2A	3061	1/1	0.89	0.23	56,56,56,56	0
57	MG	1a	1771	1/1	0.89	0.17	51,51,51,51	0
57	MG	1a	1772	1/1	0.89	0.19	65,65,65,65	0
57	MG	1A	3632	1/1	0.89	0.12	53,53,53,53	0
57	MG	1a	1775	1/1	0.89	0.14	57,57,57,57	0
57	MG	18	103	1/1	0.89	0.08	53,53,53,53	0
57	MG	1A	3988	1/1	0.89	0.12	50,50,50,50	0
57	MG	2A	3456	1/1	0.89	0.10	61,61,61,61	0
57	MG	1A	3331	1/1	0.89	0.10	59,59,59,59	0
57	MG	2a	3035	1/1	0.89	0.23	69,69,69,69	0
57	MG	1a	1630	1/1	0.89	0.10	52,52,52,52	0
57	MG	2A	3470	1/1	0.89	0.14	62,62,62,62	0
57	MG	2A	3147	1/1	0.89	0.17	50,50,50,50	0
57	MG	2A	3161	1/1	0.89	0.14	55,55,55,55	0
57	MG	2A	3478	1/1	0.89	0.10	34,34,34,34	0
57	MG	2A	3162	1/1	0.89	0.19	63,63,63,63	0
57	MG	1a	1634	1/1	0.89	0.08	47,47,47,47	0
57	MG	1A	3640	1/1	0.89	0.09	21,21,21,21	0
57	MG	1A	3644	1/1	0.89	0.08	42,42,42,42	0
57	MG	2a	3072	1/1	0.89	0.16	62,62,62,62	0
57	MG	1a	1797	1/1	0.89	0.11	61,61,61,61	0
57	MG	1a	1651	1/1	0.89	0.17	55,55,55,55	0
57	MG	2a	3086	1/1	0.89	0.14	65,65,65,65	0
57	MG	2A	3505	1/1	0.89	0.11	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3510	1/1	0.89	0.13	37,37,37,37	0
57	MG	2a	3105	1/1	0.89	0.14	63,63,63,63	0
57	MG	2a	3111	1/1	0.89	0.20	63,63,63,63	0
57	MG	1A	3212	1/1	0.89	0.13	51,51,51,51	0
57	MG	1A	3379	1/1	0.89	0.08	42,42,42,42	0
57	MG	2a	3130	1/1	0.89	0.23	68,68,68,68	0
57	MG	2A	3516	1/1	0.89	0.15	65,65,65,65	0
57	MG	2A	3207	1/1	0.89	0.13	55,55,55,55	0
57	MG	2a	3137	1/1	0.89	0.12	65,65,65,65	0
57	MG	2A	3521	1/1	0.89	0.09	57,57,57,57	0
57	MG	1A	3385	1/1	0.89	0.12	27,27,27,27	0
57	MG	1A	3681	1/1	0.89	0.11	58,58,58,58	0
57	MG	2A	3235	1/1	0.89	0.16	60,60,60,60	0
57	MG	1A	3555	1/1	0.89	0.09	45,45,45,45	0
57	MG	2A	3241	1/1	0.89	0.20	63,63,63,63	0
57	MG	1A	3581	1/1	0.89	0.11	63,63,63,63	0
57	MG	1A	3582	1/1	0.89	0.09	44,44,44,44	0
57	MG	2A	3249	1/1	0.89	0.32	49,49,49,49	0
57	MG	2a	3171	1/1	0.89	0.12	59,59,59,59	0
57	MG	2A	3252	1/1	0.89	0.16	63,63,63,63	0
57	MG	1A	3586	1/1	0.89	0.09	53,53,53,53	0
57	MG	2A	3279	1/1	0.89	0.15	62,62,62,62	0
57	MG	1A	3458	1/1	0.89	0.12	60,60,60,60	0
57	MG	2a	3182	1/1	0.89	0.16	68,68,68,68	0
57	MG	1A	3592	1/1	0.89	0.09	29,29,29,29	0
57	MG	2A	3297	1/1	0.89	0.15	38,38,38,38	0
57	MG	1A	3261	1/1	0.89	0.10	46,46,46,46	0
57	MG	2A	3314	1/1	0.89	0.08	36,36,36,36	0
57	MG	2h	201	1/1	0.89	0.14	73,73,73,73	0
57	MG	2x	101	1/1	0.89	0.10	42,42,42,42	0
58	MPD	1T	205	8/8	0.89	0.17	52,60,64,64	0
58	MPD	1a	1881	8/8	0.89	0.16	54,63,67,70	0
57	MG	1A	3603	1/1	0.89	0.09	48,48,48,48	0
57	MG	1a	1838	1/1	0.89	0.17	65,65,65,65	0
57	MG	2A	3616	1/1	0.89	0.14	66,66,66,66	0
57	MG	1a	1812	1/1	0.90	0.14	63,63,63,63	0
57	MG	1a	1668	1/1	0.90	0.14	62,62,62,62	0
57	MG	2A	3276	1/1	0.90	0.28	59,59,59,59	0
57	MG	1A	3433	1/1	0.90	0.10	28,28,28,28	0
57	MG	2A	3615	1/1	0.90	0.13	48,48,48,48	0
57	MG	1B	206	1/1	0.90	0.21	56,56,56,56	0
57	MG	2A	3621	1/1	0.90	0.13	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1676	1/1	0.90	0.13	56,56,56,56	0
57	MG	1A	3245	1/1	0.90	0.24	61,61,61,61	0
57	MG	2A	3298	1/1	0.90	0.19	61,61,61,61	0
57	MG	1A	3716	1/1	0.90	0.11	38,38,38,38	0
57	MG	1a	1687	1/1	0.90	0.13	64,64,64,64	0
57	MG	1B	226	1/1	0.90	0.11	53,53,53,53	0
57	MG	1a	1839	1/1	0.90	0.14	71,71,71,71	0
57	MG	1a	1689	1/1	0.90	0.20	58,58,58,58	0
57	MG	1A	3186	1/1	0.90	0.13	42,42,42,42	0
57	MG	1a	1695	1/1	0.90	0.09	61,61,61,61	0
57	MG	2A	3667	1/1	0.90	0.11	63,63,63,63	0
57	MG	1A	3444	1/1	0.90	0.10	26,26,26,26	0
57	MG	1A	3446	1/1	0.90	0.14	45,45,45,45	0
57	MG	1A	3738	1/1	0.90	0.12	49,49,49,49	0
57	MG	2A	3359	1/1	0.90	0.12	51,51,51,51	0
57	MG	2A	3684	1/1	0.90	0.15	69,69,69,69	0
57	MG	2A	3360	1/1	0.90	0.10	63,63,63,63	0
57	MG	2A	3699	1/1	0.90	0.10	51,51,51,51	0
57	MG	1A	3932	1/1	0.90	0.08	48,48,48,48	0
57	MG	1A	3934	1/1	0.90	0.11	22,22,22,22	0
57	MG	2A	3368	1/1	0.90	0.10	37,37,37,37	0
57	MG	1a	1878	1/1	0.90	0.13	57,57,57,57	0
57	MG	1A	3629	1/1	0.90	0.18	39,39,39,39	0
57	MG	2A	3381	1/1	0.90	0.08	58,58,58,58	0
57	MG	1d	301	1/1	0.90	0.20	73,73,73,73	0
57	MG	2A	3385	1/1	0.90	0.10	44,44,44,44	0
57	MG	2A	3389	1/1	0.90	0.10	59,59,59,59	0
57	MG	2A	3393	1/1	0.90	0.09	33,33,33,33	0
57	MG	2B	202	1/1	0.90	0.15	59,59,59,59	0
57	MG	2B	204	1/1	0.90	0.15	65,65,65,65	0
57	MG	1d	306	1/1	0.90	0.10	79,79,79,79	0
57	MG	1e	201	1/1	0.90	0.17	62,62,62,62	0
57	MG	1a	1709	1/1	0.90	0.11	53,53,53,53	0
57	MG	2B	214	1/1	0.90	0.07	58,58,58,58	0
57	MG	2B	215	1/1	0.90	0.10	62,62,62,62	0
57	MG	2A	3400	1/1	0.90	0.11	55,55,55,55	0
57	MG	2D	311	1/1	0.90	0.12	55,55,55,55	0
57	MG	1g	3102	1/1	0.90	0.09	54,54,54,54	0
57	MG	1a	1714	1/1	0.90	0.12	58,58,58,58	0
57	MG	2R	202	1/1	0.90	0.14	44,44,44,44	0
57	MG	2V	201	1/1	0.90	0.16	67,67,67,67	0
57	MG	1N	203	1/1	0.90	0.08	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	3001	1/1	0.90	0.10	50,50,50,50	0
57	MG	2A	3408	1/1	0.90	0.10	59,59,59,59	0
57	MG	2A	3421	1/1	0.90	0.20	47,47,47,47	0
57	MG	2a	3013	1/1	0.90	0.09	63,63,63,63	0
57	MG	1A	3249	1/1	0.90	0.13	51,51,51,51	0
57	MG	1o	102	1/1	0.90	0.21	57,57,57,57	0
57	MG	1a	1723	1/1	0.90	0.13	52,52,52,52	0
57	MG	1A	3388	1/1	0.90	0.09	49,49,49,49	0
57	MG	2A	3025	1/1	0.90	0.17	54,54,54,54	0
57	MG	2a	3039	1/1	0.90	0.09	71,71,71,71	0
57	MG	2A	3039	1/1	0.90	0.11	48,48,48,48	0
57	MG	1A	3759	1/1	0.90	0.13	50,50,50,50	0
57	MG	2A	3434	1/1	0.90	0.16	58,58,58,58	0
57	MG	1a	1736	1/1	0.90	0.10	66,66,66,66	0
57	MG	1A	3341	1/1	0.90	0.13	36,36,36,36	0
57	MG	2a	3065	1/1	0.90	0.23	62,62,62,62	0
57	MG	2A	3068	1/1	0.90	0.09	52,52,52,52	0
57	MG	2A	3075	1/1	0.90	0.13	46,46,46,46	0
57	MG	1A	3561	1/1	0.90	0.14	46,46,46,46	0
57	MG	2A	3082	1/1	0.90	0.17	64,64,64,64	0
57	MG	1A	3570	1/1	0.90	0.11	51,51,51,51	0
57	MG	1T	204	1/1	0.90	0.09	60,60,60,60	0
57	MG	1a	1759	1/1	0.90	0.12	57,57,57,57	0
57	MG	1A	3774	1/1	0.90	0.12	36,36,36,36	0
57	MG	1a	1765	1/1	0.90	0.11	53,53,53,53	0
57	MG	2A	3124	1/1	0.90	0.17	54,54,54,54	0
57	MG	1a	1769	1/1	0.90	0.21	66,66,66,66	0
57	MG	2A	3136	1/1	0.90	0.12	63,63,63,63	0
57	MG	2A	3481	1/1	0.90	0.12	57,57,57,57	0
57	MG	2a	3127	1/1	0.90	0.13	54,54,54,54	0
57	MG	1A	3645	1/1	0.90	0.12	28,28,28,28	0
57	MG	10	106	1/1	0.90	0.11	46,46,46,46	0
57	MG	15	106	1/1	0.90	0.14	38,38,38,38	0
57	MG	1A	3575	1/1	0.90	0.13	59,59,59,59	0
57	MG	1A	3801	1/1	0.90	0.12	52,52,52,52	0
57	MG	1a	1611	1/1	0.90	0.19	51,51,51,51	0
57	MG	1A	3342	1/1	0.90	0.09	41,41,41,41	0
57	MG	1A	3806	1/1	0.90	0.12	57,57,57,57	0
57	MG	2A	3181	1/1	0.90	0.12	57,57,57,57	0
57	MG	2A	3187	1/1	0.90	0.11	57,57,57,57	0
57	MG	2A	3188	1/1	0.90	0.26	67,67,67,67	0
57	MG	1a	1780	1/1	0.90	0.16	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	3168	1/1	0.90	0.17	56,56,56,56	0
57	MG	1A	3173	1/1	0.90	0.10	49,49,49,49	0
57	MG	1A	3464	1/1	0.90	0.10	60,60,60,60	0
57	MG	2a	3172	1/1	0.90	0.18	62,62,62,62	0
57	MG	1A	3676	1/1	0.90	0.13	52,52,52,52	0
57	MG	2A	3527	1/1	0.90	0.11	52,52,52,52	0
57	MG	1a	1795	1/1	0.90	0.10	64,64,64,64	0
57	MG	2A	3208	1/1	0.90	0.20	53,53,53,53	0
57	MG	1a	1642	1/1	0.90	0.10	57,57,57,57	0
57	MG	1a	1645	1/1	0.90	0.16	59,59,59,59	0
57	MG	2A	3534	1/1	0.90	0.12	55,55,55,55	0
57	MG	2A	3225	1/1	0.90	0.21	54,54,54,54	0
57	MG	1A	3312	1/1	0.90	0.10	40,40,40,40	0
57	MG	1A	3480	1/1	0.90	0.11	37,37,37,37	0
57	MG	2k	201	1/1	0.90	0.16	61,61,61,61	0
57	MG	2r	101	1/1	0.90	0.12	64,64,64,64	0
57	MG	1A	3423	1/1	0.90	0.07	33,33,33,33	0
57	MG	1A	3700	1/1	0.90	0.08	33,33,33,33	0
57	MG	2A	3570	1/1	0.90	0.11	42,42,42,42	0
57	MG	2A	3571	1/1	0.90	0.09	58,58,58,58	0
57	MG	1A	3484	1/1	0.90	0.11	43,43,43,43	0
57	MG	1A	3313	1/1	0.90	0.13	79,79,79,79	0
57	MG	1A	3733	1/1	0.91	0.08	51,51,51,51	0
57	MG	2A	3319	1/1	0.91	0.12	50,50,50,50	0
57	MG	1a	1877	1/1	0.91	0.12	67,67,67,67	0
57	MG	1A	3894	1/1	0.91	0.12	60,60,60,60	0
57	MG	1D	316	1/1	0.91	0.09	51,51,51,51	0
57	MG	2A	3334	1/1	0.91	0.08	54,54,54,54	0
57	MG	2A	3630	1/1	0.91	0.16	59,59,59,59	0
57	MG	1b	301	1/1	0.91	0.14	67,67,67,67	0
57	MG	2A	3641	1/1	0.91	0.10	49,49,49,49	0
57	MG	1A	3577	1/1	0.91	0.10	51,51,51,51	0
57	MG	1A	3898	1/1	0.91	0.08	34,34,34,34	0
57	MG	1A	3580	1/1	0.91	0.12	47,47,47,47	0
57	MG	1A	3359	1/1	0.91	0.08	30,30,30,30	0
57	MG	1A	3910	1/1	0.91	0.09	45,45,45,45	0
57	MG	2A	3676	1/1	0.91	0.10	63,63,63,63	0
57	MG	1A	3920	1/1	0.91	0.08	25,25,25,25	0
57	MG	1O	201	1/1	0.91	0.09	45,45,45,45	0
57	MG	1A	3404	1/1	0.91	0.06	31,31,31,31	0
57	MG	1l	201	1/1	0.91	0.09	55,55,55,55	0
57	MG	1a	1737	1/1	0.91	0.09	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1y	201	1/1	0.91	0.09	56,56,56,56	0
57	MG	2A	3695	1/1	0.91	0.13	55,55,55,55	0
57	MG	1A	3491	1/1	0.91	0.07	24,24,24,24	0
57	MG	2A	3700	1/1	0.91	0.14	61,61,61,61	0
57	MG	1w	101	1/1	0.91	0.12	54,54,54,54	0
57	MG	2A	3001	1/1	0.91	0.24	66,66,66,66	0
57	MG	1a	1739	1/1	0.91	0.14	56,56,56,56	0
57	MG	2A	3008	1/1	0.91	0.26	45,45,45,45	0
57	MG	2A	3723	1/1	0.91	0.17	56,56,56,56	0
57	MG	1A	3587	1/1	0.91	0.15	36,36,36,36	0
57	MG	2A	3038	1/1	0.91	0.16	52,52,52,52	0
57	MG	2A	3728	1/1	0.91	0.12	52,52,52,52	0
57	MG	1A	3950	1/1	0.91	0.11	43,43,43,43	0
57	MG	2A	3732	1/1	0.91	0.15	71,71,71,71	0
57	MG	1a	1753	1/1	0.91	0.13	60,60,60,60	0
57	MG	1A	3165	1/1	0.91	0.20	50,50,50,50	0
57	MG	2A	3058	1/1	0.91	0.22	56,56,56,56	0
57	MG	2A	3405	1/1	0.91	0.18	61,61,61,61	0
57	MG	2B	203	1/1	0.91	0.11	63,63,63,63	0
57	MG	1A	3664	1/1	0.91	0.11	54,54,54,54	0
57	MG	1V	207	1/1	0.91	0.08	46,46,46,46	0
57	MG	2A	3073	1/1	0.91	0.16	54,54,54,54	0
57	MG	1A	3366	1/1	0.91	0.12	60,60,60,60	0
57	MG	2A	3424	1/1	0.91	0.16	53,53,53,53	0
57	MG	1a	1766	1/1	0.91	0.10	62,62,62,62	0
57	MG	1A	3675	1/1	0.91	0.06	12,12,12,12	0
57	MG	2D	303	1/1	0.91	0.42	55,55,55,55	0
57	MG	2A	3084	1/1	0.91	0.10	53,53,53,53	0
57	MG	2A	3090	1/1	0.91	0.18	70,70,70,70	0
57	MG	2N	201	1/1	0.91	0.13	55,55,55,55	0
57	MG	2P	203	1/1	0.91	0.16	64,64,64,64	0
57	MG	1A	3968	1/1	0.91	0.10	68,68,68,68	0
57	MG	1A	3778	1/1	0.91	0.15	63,63,63,63	0
57	MG	2T	203	1/1	0.91	0.09	55,55,55,55	0
57	MG	1A	3970	1/1	0.91	0.08	48,48,48,48	0
57	MG	2V	202	1/1	0.91	0.14	46,46,46,46	0
57	MG	19	101	1/1	0.91	0.18	46,46,46,46	0
57	MG	28	101	1/1	0.91	0.14	54,54,54,54	0
57	MG	2A	3442	1/1	0.91	0.10	44,44,44,44	0
57	MG	2A	3115	1/1	0.91	0.09	60,60,60,60	0
57	MG	1A	3419	1/1	0.91	0.08	29,29,29,29	0
57	MG	1A	3791	1/1	0.91	0.07	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	3015	1/1	0.91	0.17	55,55,55,55	0
57	MG	1a	1614	1/1	0.91	0.11	67,67,67,67	0
57	MG	2A	3455	1/1	0.91	0.13	78,78,78,78	0
57	MG	1a	1616	1/1	0.91	0.16	56,56,56,56	0
57	MG	2a	3028	1/1	0.91	0.13	64,64,64,64	0
57	MG	2a	3030	1/1	0.91	0.14	63,63,63,63	0
57	MG	2A	3141	1/1	0.91	0.12	55,55,55,55	0
57	MG	1A	3982	1/1	0.91	0.12	44,44,44,44	0
57	MG	1a	1787	1/1	0.91	0.09	71,71,71,71	0
57	MG	2a	3040	1/1	0.91	0.17	57,57,57,57	0
57	MG	2A	3154	1/1	0.91	0.08	44,44,44,44	0
57	MG	2a	3048	1/1	0.91	0.26	61,61,61,61	0
57	MG	2A	3160	1/1	0.91	0.16	56,56,56,56	0
57	MG	1a	1628	1/1	0.91	0.16	57,57,57,57	0
57	MG	1A	3680	1/1	0.91	0.12	29,29,29,29	0
57	MG	1A	3598	1/1	0.91	0.15	45,45,45,45	0
57	MG	2A	3483	1/1	0.91	0.13	54,54,54,54	0
57	MG	1a	1794	1/1	0.91	0.12	55,55,55,55	0
57	MG	2a	3067	1/1	0.91	0.12	74,74,74,74	0
57	MG	2A	3172	1/1	0.91	0.15	78,78,78,78	0
57	MG	1A	3683	1/1	0.91	0.08	42,42,42,42	0
57	MG	2A	3490	1/1	0.91	0.13	58,58,58,58	0
57	MG	1A	3373	1/1	0.91	0.07	21,21,21,21	0
57	MG	2A	3495	1/1	0.91	0.10	51,51,51,51	0
57	MG	1A	3809	1/1	0.91	0.12	64,64,64,64	0
57	MG	2a	3088	1/1	0.91	0.15	65,65,65,65	0
57	MG	2A	3498	1/1	0.91	0.08	62,62,62,62	0
57	MG	2a	3094	1/1	0.91	0.11	59,59,59,59	0
57	MG	2a	3100	1/1	0.91	0.10	68,68,68,68	0
57	MG	1A	3811	1/1	0.91	0.10	54,54,54,54	0
57	MG	2a	3103	1/1	0.91	0.11	47,47,47,47	0
57	MG	1a	1647	1/1	0.91	0.12	60,60,60,60	0
57	MG	2a	3107	1/1	0.91	0.15	57,57,57,57	0
57	MG	1A	3293	1/1	0.91	0.10	76,76,76,76	0
57	MG	2a	3112	1/1	0.91	0.08	76,76,76,76	0
57	MG	2a	3113	1/1	0.91	0.14	58,58,58,58	0
57	MG	2A	3197	1/1	0.91	0.19	73,73,73,73	0
57	MG	2a	3119	1/1	0.91	0.09	60,60,60,60	0
57	MG	1A	3698	1/1	0.91	0.11	19,19,19,19	0
57	MG	1A	3833	1/1	0.91	0.12	60,60,60,60	0
57	MG	2a	3129	1/1	0.91	0.14	68,68,68,68	0
57	MG	1A	3834	1/1	0.91	0.08	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3462	1/1	0.91	0.09	44,44,44,44	0
57	MG	2A	3523	1/1	0.91	0.07	41,41,41,41	0
57	MG	1a	1824	1/1	0.91	0.10	68,68,68,68	0
57	MG	2A	3214	1/1	0.91	0.24	71,71,71,71	0
57	MG	2a	3140	1/1	0.91	0.12	61,61,61,61	0
57	MG	2A	3217	1/1	0.91	0.11	60,60,60,60	0
57	MG	2a	3144	1/1	0.91	0.10	60,60,60,60	0
57	MG	2A	3528	1/1	0.91	0.09	54,54,54,54	0
57	MG	2a	3154	1/1	0.91	0.12	67,67,67,67	0
57	MG	1A	3531	1/1	0.91	0.10	60,60,60,60	0
57	MG	2a	3160	1/1	0.91	0.10	48,48,48,48	0
57	MG	1A	3429	1/1	0.91	0.17	59,59,59,59	0
57	MG	1A	3041	1/1	0.91	0.10	47,47,47,47	0
57	MG	1a	1832	1/1	0.91	0.10	61,61,61,61	0
57	MG	1A	4026	1/1	0.91	0.10	46,46,46,46	0
57	MG	1A	3469	1/1	0.91	0.14	64,64,64,64	0
57	MG	2A	3538	1/1	0.91	0.18	68,68,68,68	0
57	MG	2A	3540	1/1	0.91	0.12	64,64,64,64	0
57	MG	1a	1835	1/1	0.91	0.16	57,57,57,57	0
57	MG	1B	203	1/1	0.91	0.17	52,52,52,52	0
57	MG	1a	1683	1/1	0.91	0.16	69,69,69,69	0
57	MG	2A	3564	1/1	0.91	0.17	61,61,61,61	0
57	MG	1A	3478	1/1	0.91	0.15	53,53,53,53	0
57	MG	1B	207	1/1	0.91	0.22	49,49,49,49	0
57	MG	1a	1842	1/1	0.91	0.16	62,62,62,62	0
57	MG	1B	210	1/1	0.91	0.20	54,54,54,54	0
57	MG	2a	3187	1/1	0.91	0.16	68,68,68,68	0
57	MG	1A	3721	1/1	0.91	0.19	51,51,51,51	0
57	MG	2A	3283	1/1	0.91	0.25	58,58,58,58	0
57	MG	1B	219	1/1	0.91	0.08	45,45,45,45	0
57	MG	1B	223	1/1	0.91	0.07	55,55,55,55	0
57	MG	2A	3596	1/1	0.91	0.10	61,61,61,61	0
57	MG	2A	3606	1/1	0.91	0.09	57,57,57,57	0
58	MPD	1A	4029	8/8	0.91	0.17	37,50,57,60	0
57	MG	2A	3608	1/1	0.91	0.10	49,49,49,49	0
57	MG	2A	3609	1/1	0.91	0.11	42,42,42,42	0
57	MG	1A	3352	1/1	0.91	0.10	13,13,13,13	0
57	MG	1A	3179	1/1	0.91	0.22	52,52,52,52	0
57	MG	1A	3731	1/1	0.91	0.09	35,35,35,35	0
57	MG	2A	3366	1/1	0.92	0.08	37,37,37,37	0
57	MG	18	102	1/1	0.92	0.28	42,42,42,42	0
57	MG	1A	3609	1/1	0.92	0.12	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3206	1/1	0.92	0.16	58,58,58,58	0
57	MG	1a	1768	1/1	0.92	0.15	64,64,64,64	0
57	MG	2A	3382	1/1	0.92	0.12	65,65,65,65	0
57	MG	2A	3685	1/1	0.92	0.09	43,43,43,43	0
57	MG	2A	3689	1/1	0.92	0.13	55,55,55,55	0
57	MG	1a	1608	1/1	0.92	0.07	70,70,70,70	0
57	MG	1A	3477	1/1	0.92	0.06	23,23,23,23	0
57	MG	2A	3697	1/1	0.92	0.11	54,54,54,54	0
57	MG	2A	3698	1/1	0.92	0.11	58,58,58,58	0
57	MG	2A	3049	1/1	0.92	0.08	55,55,55,55	0
57	MG	1A	3544	1/1	0.92	0.11	52,52,52,52	0
57	MG	1A	3994	1/1	0.92	0.10	39,39,39,39	0
57	MG	2A	3060	1/1	0.92	0.19	47,47,47,47	0
57	MG	2A	3706	1/1	0.92	0.13	60,60,60,60	0
57	MG	1a	1615	1/1	0.92	0.10	58,58,58,58	0
57	MG	1A	3706	1/1	0.92	0.16	45,45,45,45	0
57	MG	2A	3722	1/1	0.92	0.18	61,61,61,61	0
57	MG	1A	3835	1/1	0.92	0.21	37,37,37,37	0
57	MG	1A	3708	1/1	0.92	0.08	48,48,48,48	0
57	MG	1A	3208	1/1	0.92	0.17	50,50,50,50	0
57	MG	1a	1631	1/1	0.92	0.15	50,50,50,50	0
57	MG	2A	3083	1/1	0.92	0.10	59,59,59,59	0
57	MG	2A	3410	1/1	0.92	0.08	37,37,37,37	0
57	MG	1a	1784	1/1	0.92	0.08	52,52,52,52	0
57	MG	1a	1785	1/1	0.92	0.12	63,63,63,63	0
57	MG	2A	3092	1/1	0.92	0.16	63,63,63,63	0
57	MG	1a	1786	1/1	0.92	0.10	63,63,63,63	0
57	MG	2A	3426	1/1	0.92	0.19	56,56,56,56	0
57	MG	1A	3628	1/1	0.92	0.12	45,45,45,45	0
57	MG	2A	3098	1/1	0.92	0.11	49,49,49,49	0
57	MG	2B	208	1/1	0.92	0.26	59,59,59,59	0
57	MG	2A	3104	1/1	0.92	0.16	63,63,63,63	0
57	MG	1A	3854	1/1	0.92	0.07	38,38,38,38	0
57	MG	2A	3432	1/1	0.92	0.15	47,47,47,47	0
57	MG	1A	4010	1/1	0.92	0.13	55,55,55,55	0
57	MG	1A	3059	1/1	0.92	0.09	52,52,52,52	0
57	MG	2D	302	1/1	0.92	0.18	46,46,46,46	0
57	MG	1A	3438	1/1	0.92	0.16	32,32,32,32	0
57	MG	2A	3438	1/1	0.92	0.15	57,57,57,57	0
57	MG	2A	3121	1/1	0.92	0.23	60,60,60,60	0
57	MG	1A	4022	1/1	0.92	0.07	47,47,47,47	0
57	MG	2P	201	1/1	0.92	0.11	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3725	1/1	0.92	0.09	58,58,58,58	0
57	MG	2A	3134	1/1	0.92	0.22	62,62,62,62	0
57	MG	2A	3135	1/1	0.92	0.11	57,57,57,57	0
57	MG	1a	1652	1/1	0.92	0.13	64,64,64,64	0
57	MG	1a	1653	1/1	0.92	0.08	51,51,51,51	0
57	MG	1A	3877	1/1	0.92	0.12	47,47,47,47	0
57	MG	1a	1804	1/1	0.92	0.11	67,67,67,67	0
57	MG	25	101	1/1	0.92	0.59	51,51,51,51	0
57	MG	2A	3461	1/1	0.92	0.14	60,60,60,60	0
57	MG	1A	3881	1/1	0.92	0.09	34,34,34,34	0
57	MG	2a	3002	1/1	0.92	0.12	52,52,52,52	0
57	MG	2a	3007	1/1	0.92	0.17	62,62,62,62	0
57	MG	1A	3066	1/1	0.92	0.11	40,40,40,40	0
57	MG	1A	3343	1/1	0.92	0.08	44,44,44,44	0
57	MG	1A	3399	1/1	0.92	0.11	47,47,47,47	0
57	MG	1a	1810	1/1	0.92	0.10	60,60,60,60	0
57	MG	2A	3169	1/1	0.92	0.10	56,56,56,56	0
57	MG	2a	3019	1/1	0.92	0.09	44,44,44,44	0
57	MG	2A	3170	1/1	0.92	0.33	68,68,68,68	0
57	MG	1A	3191	1/1	0.92	0.11	56,56,56,56	0
57	MG	1a	1813	1/1	0.92	0.14	61,61,61,61	0
57	MG	1a	1669	1/1	0.92	0.14	45,45,45,45	0
57	MG	2A	3174	1/1	0.92	0.17	58,58,58,58	0
57	MG	1A	3494	1/1	0.92	0.09	27,27,27,27	0
57	MG	2a	3038	1/1	0.92	0.14	58,58,58,58	0
57	MG	1a	1674	1/1	0.92	0.16	56,56,56,56	0
57	MG	2A	3182	1/1	0.92	0.09	61,61,61,61	0
57	MG	2a	3045	1/1	0.92	0.22	65,65,65,65	0
57	MG	2a	3046	1/1	0.92	0.14	65,65,65,65	0
57	MG	1B	215	1/1	0.92	0.10	58,58,58,58	0
57	MG	1A	3647	1/1	0.92	0.07	39,39,39,39	0
57	MG	2a	3049	1/1	0.92	0.21	62,62,62,62	0
57	MG	2A	3504	1/1	0.92	0.10	66,66,66,66	0
57	MG	2a	3051	1/1	0.92	0.16	52,52,52,52	0
57	MG	1a	1678	1/1	0.92	0.14	64,64,64,64	0
57	MG	2A	3506	1/1	0.92	0.10	57,57,57,57	0
57	MG	1A	3223	1/1	0.92	0.10	65,65,65,65	0
57	MG	2A	3510	1/1	0.92	0.09	61,61,61,61	0
57	MG	1A	3752	1/1	0.92	0.11	56,56,56,56	0
57	MG	1A	3295	1/1	0.92	0.09	67,67,67,67	0
57	MG	1B	229	1/1	0.92	0.09	58,58,58,58	0
57	MG	2A	3203	1/1	0.92	0.24	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3588	1/1	0.92	0.12	42,42,42,42	0
57	MG	2a	3074	1/1	0.92	0.15	53,53,53,53	0
57	MG	1A	3499	1/1	0.92	0.07	32,32,32,32	0
57	MG	1A	3915	1/1	0.92	0.07	52,52,52,52	0
57	MG	2A	3524	1/1	0.92	0.15	50,50,50,50	0
57	MG	1a	1843	1/1	0.92	0.15	65,65,65,65	0
57	MG	2A	3221	1/1	0.92	0.11	56,56,56,56	0
57	MG	1D	314	1/1	0.92	0.29	38,38,38,38	0
57	MG	1a	1849	1/1	0.92	0.14	63,63,63,63	0
57	MG	1A	3227	1/1	0.92	0.15	42,42,42,42	0
57	MG	2A	3226	1/1	0.92	0.10	49,49,49,49	0
57	MG	2A	3230	1/1	0.92	0.12	56,56,56,56	0
57	MG	1D	318	1/1	0.92	0.11	51,51,51,51	0
57	MG	1a	1700	1/1	0.92	0.23	65,65,65,65	0
57	MG	1A	3923	1/1	0.92	0.09	26,26,26,26	0
57	MG	2A	3245	1/1	0.92	0.12	60,60,60,60	0
57	MG	2a	3114	1/1	0.92	0.10	63,63,63,63	0
57	MG	1a	1865	1/1	0.92	0.11	66,66,66,66	0
57	MG	1F	308	1/1	0.92	0.10	52,52,52,52	0
57	MG	1a	1871	1/1	0.92	0.15	63,63,63,63	0
57	MG	1A	3668	1/1	0.92	0.11	61,61,61,61	0
57	MG	2A	3559	1/1	0.92	0.09	45,45,45,45	0
57	MG	2A	3253	1/1	0.92	0.27	50,50,50,50	0
57	MG	2A	3565	1/1	0.92	0.10	59,59,59,59	0
57	MG	2A	3254	1/1	0.92	0.13	52,52,52,52	0
57	MG	2A	3269	1/1	0.92	0.15	52,52,52,52	0
57	MG	1a	1873	1/1	0.92	0.10	57,57,57,57	0
57	MG	2A	3274	1/1	0.92	0.14	47,47,47,47	0
57	MG	2A	3577	1/1	0.92	0.11	47,47,47,47	0
57	MG	1A	3669	1/1	0.92	0.13	56,56,56,56	0
57	MG	1A	3769	1/1	0.92	0.07	35,35,35,35	0
57	MG	2a	3153	1/1	0.92	0.11	65,65,65,65	0
57	MG	2A	3584	1/1	0.92	0.10	43,43,43,43	0
57	MG	2A	3588	1/1	0.92	0.09	58,58,58,58	0
57	MG	2a	3158	1/1	0.92	0.12	69,69,69,69	0
57	MG	1A	3947	1/1	0.92	0.07	43,43,43,43	0
57	MG	1A	3504	1/1	0.92	0.08	25,25,25,25	0
57	MG	1A	3597	1/1	0.92	0.17	33,33,33,33	0
57	MG	2A	3603	1/1	0.92	0.12	39,39,39,39	0
57	MG	1A	3232	1/1	0.92	0.13	37,37,37,37	0
57	MG	1d	303	1/1	0.92	0.11	56,56,56,56	0
57	MG	2A	3307	1/1	0.92	0.08	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1d	305	1/1	0.92	0.10	57,57,57,57	0
57	MG	2A	3611	1/1	0.92	0.08	36,36,36,36	0
57	MG	2a	3174	1/1	0.92	0.11	61,61,61,61	0
57	MG	1A	3789	1/1	0.92	0.08	34,34,34,34	0
57	MG	1a	1727	1/1	0.92	0.14	63,63,63,63	0
57	MG	2A	3619	1/1	0.92	0.07	60,60,60,60	0
57	MG	1f	201	1/1	0.92	0.26	68,68,68,68	0
57	MG	1A	3965	1/1	0.92	0.10	47,47,47,47	0
57	MG	1A	3599	1/1	0.92	0.11	50,50,50,50	0
57	MG	1A	3512	1/1	0.92	0.16	40,40,40,40	0
57	MG	1A	3797	1/1	0.92	0.09	38,38,38,38	0
57	MG	2A	3336	1/1	0.92	0.11	48,48,48,48	0
57	MG	1A	3798	1/1	0.92	0.11	44,44,44,44	0
57	MG	1A	3100	1/1	0.92	0.32	36,36,36,36	0
57	MG	2A	3634	1/1	0.92	0.12	59,59,59,59	0
57	MG	1A	3199	1/1	0.92	0.20	56,56,56,56	0
57	MG	1t	202	1/1	0.92	0.11	56,56,56,56	0
57	MG	1A	3692	1/1	0.92	0.10	59,59,59,59	0
57	MG	1a	1756	1/1	0.92	0.13	47,47,47,47	0
57	MG	2A	3661	1/1	0.92	0.10	38,38,38,38	0
58	MPD	2A	3739	8/8	0.92	0.15	46,56,63,64	0
57	MG	1A	3694	1/1	0.92	0.11	58,58,58,58	0
57	MG	2A	3666	1/1	0.92	0.09	48,48,48,48	0
57	MG	15	107	1/1	0.92	0.10	54,54,54,54	0
57	MG	2A	3258	1/1	0.93	0.08	47,47,47,47	0
57	MG	2A	3261	1/1	0.93	0.13	62,62,62,62	0
57	MG	2A	3617	1/1	0.93	0.07	38,38,38,38	0
57	MG	2A	3266	1/1	0.93	0.20	52,52,52,52	0
57	MG	2A	3267	1/1	0.93	0.10	51,51,51,51	0
57	MG	1a	1662	1/1	0.93	0.12	55,55,55,55	0
57	MG	1A	3781	1/1	0.93	0.10	57,57,57,57	0
57	MG	1A	3788	1/1	0.93	0.07	47,47,47,47	0
57	MG	2A	3275	1/1	0.93	0.09	48,48,48,48	0
57	MG	1a	1850	1/1	0.93	0.10	59,59,59,59	0
57	MG	2A	3629	1/1	0.93	0.08	64,64,64,64	0
57	MG	2A	3277	1/1	0.93	0.14	54,54,54,54	0
57	MG	1a	1665	1/1	0.93	0.10	62,62,62,62	0
57	MG	1a	1666	1/1	0.93	0.17	52,52,52,52	0
57	MG	2A	3637	1/1	0.93	0.08	59,59,59,59	0
57	MG	1A	3150	1/1	0.93	0.08	41,41,41,41	0
57	MG	2A	3286	1/1	0.93	0.10	42,42,42,42	0
57	MG	1a	1859	1/1	0.93	0.10	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3654	1/1	0.93	0.08	63,63,63,63	0
57	MG	1A	3413	1/1	0.93	0.05	36,36,36,36	0
57	MG	1a	1861	1/1	0.93	0.15	57,57,57,57	0
57	MG	1A	3999	1/1	0.93	0.07	23,23,23,23	0
57	MG	1A	3503	1/1	0.93	0.07	44,44,44,44	0
57	MG	1a	1673	1/1	0.93	0.09	56,56,56,56	0
57	MG	2A	3672	1/1	0.93	0.06	61,61,61,61	0
57	MG	1A	3197	1/1	0.93	0.13	45,45,45,45	0
57	MG	1A	3639	1/1	0.93	0.12	46,46,46,46	0
57	MG	1A	3508	1/1	0.93	0.08	33,33,33,33	0
57	MG	1a	1677	1/1	0.93	0.18	57,57,57,57	0
57	MG	1A	3088	1/1	0.93	0.10	42,42,42,42	0
57	MG	2A	3332	1/1	0.93	0.09	59,59,59,59	0
57	MG	1A	3421	1/1	0.93	0.10	45,45,45,45	0
57	MG	2A	3688	1/1	0.93	0.11	56,56,56,56	0
57	MG	1A	3646	1/1	0.93	0.15	53,53,53,53	0
57	MG	2A	3691	1/1	0.93	0.07	43,43,43,43	0
57	MG	2A	3339	1/1	0.93	0.08	44,44,44,44	0
57	MG	1A	3514	1/1	0.93	0.06	49,49,49,49	0
57	MG	1A	3516	1/1	0.93	0.12	48,48,48,48	0
57	MG	1A	3817	1/1	0.93	0.09	59,59,59,59	0
57	MG	2A	3351	1/1	0.93	0.12	47,47,47,47	0
57	MG	1A	3022	1/1	0.93	0.14	49,49,49,49	0
57	MG	1A	3828	1/1	0.93	0.11	44,44,44,44	0
57	MG	2A	3704	1/1	0.93	0.12	58,58,58,58	0
57	MG	1a	1693	1/1	0.93	0.14	57,57,57,57	0
57	MG	1A	3832	1/1	0.93	0.09	49,49,49,49	0
57	MG	1A	3522	1/1	0.93	0.05	27,27,27,27	0
57	MG	2A	3713	1/1	0.93	0.12	47,47,47,47	0
57	MG	2A	3365	1/1	0.93	0.10	65,65,65,65	0
57	MG	2A	3717	1/1	0.93	0.10	65,65,65,65	0
57	MG	2A	3718	1/1	0.93	0.10	53,53,53,53	0
57	MG	2A	3721	1/1	0.93	0.12	59,59,59,59	0
57	MG	1A	3523	1/1	0.93	0.12	56,56,56,56	0
57	MG	2A	3367	1/1	0.93	0.09	41,41,41,41	0
57	MG	2A	3725	1/1	0.93	0.12	67,67,67,67	0
57	MG	1a	1699	1/1	0.93	0.18	50,50,50,50	0
57	MG	1A	3259	1/1	0.93	0.13	61,61,61,61	0
57	MG	1a	1701	1/1	0.93	0.23	51,51,51,51	0
57	MG	2A	3730	1/1	0.93	0.09	57,57,57,57	0
57	MG	2A	3378	1/1	0.93	0.12	64,64,64,64	0
57	MG	1l	202	1/1	0.93	0.10	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3202	1/1	0.93	0.08	39,39,39,39	0
57	MG	2A	3734	1/1	0.93	0.11	61,61,61,61	0
57	MG	1A	3842	1/1	0.93	0.10	35,35,35,35	0
57	MG	2A	3737	1/1	0.93	0.11	47,47,47,47	0
57	MG	1B	221	1/1	0.93	0.07	27,27,27,27	0
57	MG	1A	3846	1/1	0.93	0.09	34,34,34,34	0
57	MG	1a	1708	1/1	0.93	0.15	52,52,52,52	0
57	MG	1A	3344	1/1	0.93	0.12	28,28,28,28	0
57	MG	1A	3850	1/1	0.93	0.07	43,43,43,43	0
57	MG	2A	3396	1/1	0.93	0.09	49,49,49,49	0
57	MG	2A	3398	1/1	0.93	0.07	46,46,46,46	0
57	MG	2B	212	1/1	0.93	0.09	58,58,58,58	0
57	MG	2A	3007	1/1	0.93	0.08	45,45,45,45	0
57	MG	1B	228	1/1	0.93	0.07	53,53,53,53	0
57	MG	2A	3011	1/1	0.93	0.15	45,45,45,45	0
57	MG	2A	3014	1/1	0.93	0.14	61,61,61,61	0
57	MG	2A	3403	1/1	0.93	0.08	48,48,48,48	0
57	MG	1a	1721	1/1	0.93	0.08	58,58,58,58	0
57	MG	2D	309	1/1	0.93	0.12	64,64,64,64	0
57	MG	2A	3033	1/1	0.93	0.13	54,54,54,54	0
57	MG	1A	3851	1/1	0.93	0.07	32,32,32,32	0
57	MG	1A	3538	1/1	0.93	0.09	45,45,45,45	0
57	MG	2A	3412	1/1	0.93	0.08	55,55,55,55	0
57	MG	2A	3419	1/1	0.93	0.09	39,39,39,39	0
57	MG	2A	3420	1/1	0.93	0.13	40,40,40,40	0
57	MG	2A	3040	1/1	0.93	0.18	58,58,58,58	0
57	MG	2T	201	1/1	0.93	0.13	56,56,56,56	0
57	MG	2A	3042	1/1	0.93	0.12	53,53,53,53	0
57	MG	1A	3540	1/1	0.93	0.07	48,48,48,48	0
57	MG	2A	3048	1/1	0.93	0.07	53,53,53,53	0
57	MG	1A	3431	1/1	0.93	0.06	37,37,37,37	0
57	MG	2A	3051	1/1	0.93	0.27	57,57,57,57	0
57	MG	26	101	1/1	0.93	0.10	56,56,56,56	0
57	MG	1A	3550	1/1	0.93	0.08	44,44,44,44	0
57	MG	1A	3553	1/1	0.93	0.08	48,48,48,48	0
57	MG	1A	3345	1/1	0.93	0.09	55,55,55,55	0
57	MG	1A	3688	1/1	0.93	0.15	33,33,33,33	0
57	MG	2A	3063	1/1	0.93	0.17	60,60,60,60	0
57	MG	2A	3065	1/1	0.93	0.17	60,60,60,60	0
57	MG	1E	305	1/1	0.93	0.07	52,52,52,52	0
57	MG	2a	3014	1/1	0.93	0.12	54,54,54,54	0
57	MG	1a	1742	1/1	0.93	0.11	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	3016	1/1	0.93	0.16	60,60,60,60	0
57	MG	2a	3017	1/1	0.93	0.15	56,56,56,56	0
57	MG	1a	1743	1/1	0.93	0.11	50,50,50,50	0
57	MG	1a	1744	1/1	0.93	0.07	60,60,60,60	0
57	MG	1A	3882	1/1	0.93	0.11	40,40,40,40	0
57	MG	2A	3446	1/1	0.93	0.17	64,64,64,64	0
57	MG	1a	1750	1/1	0.93	0.19	74,74,74,74	0
57	MG	1A	3270	1/1	0.93	0.11	27,27,27,27	0
57	MG	2a	3031	1/1	0.93	0.20	54,54,54,54	0
57	MG	2A	3452	1/1	0.93	0.12	61,61,61,61	0
57	MG	2A	3453	1/1	0.93	0.09	51,51,51,51	0
57	MG	1A	3564	1/1	0.93	0.07	51,51,51,51	0
57	MG	1A	3569	1/1	0.93	0.09	34,34,34,34	0
57	MG	1A	3347	1/1	0.93	0.09	20,20,20,20	0
57	MG	2a	3041	1/1	0.93	0.13	61,61,61,61	0
57	MG	2a	3043	1/1	0.93	0.23	60,60,60,60	0
57	MG	2A	3458	1/1	0.93	0.13	47,47,47,47	0
57	MG	1A	3573	1/1	0.93	0.07	38,38,38,38	0
57	MG	1A	3350	1/1	0.93	0.07	24,24,24,24	0
57	MG	2A	3099	1/1	0.93	0.09	52,52,52,52	0
57	MG	1a	1763	1/1	0.93	0.10	62,62,62,62	0
57	MG	1A	3704	1/1	0.93	0.10	51,51,51,51	0
57	MG	1A	3271	1/1	0.93	0.07	50,50,50,50	0
57	MG	2a	3053	1/1	0.93	0.20	48,48,48,48	0
57	MG	2a	3058	1/1	0.93	0.15	67,67,67,67	0
57	MG	1Q	204	1/1	0.93	0.12	53,53,53,53	0
57	MG	2A	3479	1/1	0.93	0.09	53,53,53,53	0
57	MG	1A	3579	1/1	0.93	0.08	43,43,43,43	0
57	MG	2a	3063	1/1	0.93	0.15	63,63,63,63	0
57	MG	2A	3117	1/1	0.93	0.12	59,59,59,59	0
57	MG	1A	3901	1/1	0.93	0.13	40,40,40,40	0
57	MG	1A	3203	1/1	0.93	0.08	47,47,47,47	0
57	MG	2A	3128	1/1	0.93	0.19	47,47,47,47	0
57	MG	2A	3129	1/1	0.93	0.17	64,64,64,64	0
57	MG	1T	202	1/1	0.93	0.11	55,55,55,55	0
57	MG	1A	3906	1/1	0.93	0.11	42,42,42,42	0
57	MG	1V	204	1/1	0.93	0.11	45,45,45,45	0
57	MG	1A	3273	1/1	0.93	0.11	40,40,40,40	0
57	MG	2a	3082	1/1	0.93	0.13	61,61,61,61	0
57	MG	2a	3083	1/1	0.93	0.23	48,48,48,48	0
57	MG	1W	201	1/1	0.93	0.15	45,45,45,45	0
57	MG	2A	3501	1/1	0.93	0.07	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3144	1/1	0.93	0.11	47,47,47,47	0
57	MG	2a	3093	1/1	0.93	0.24	62,62,62,62	0
57	MG	1W	202	1/1	0.93	0.15	40,40,40,40	0
57	MG	2a	3097	1/1	0.93	0.22	60,60,60,60	0
57	MG	2a	3098	1/1	0.93	0.22	50,50,50,50	0
57	MG	1A	3453	1/1	0.93	0.07	58,58,58,58	0
57	MG	2A	3153	1/1	0.93	0.12	60,60,60,60	0
57	MG	1A	3919	1/1	0.93	0.06	13,13,13,13	0
57	MG	2A	3158	1/1	0.93	0.14	51,51,51,51	0
57	MG	1A	3083	1/1	0.93	0.17	32,32,32,32	0
57	MG	2a	3110	1/1	0.93	0.12	52,52,52,52	0
57	MG	1A	3290	1/1	0.93	0.09	52,52,52,52	0
57	MG	1A	3925	1/1	0.93	0.08	21,21,21,21	0
57	MG	1a	1788	1/1	0.93	0.08	69,69,69,69	0
57	MG	1A	3367	1/1	0.93	0.11	29,29,29,29	0
57	MG	1a	1791	1/1	0.93	0.11	55,55,55,55	0
57	MG	2a	3117	1/1	0.93	0.21	65,65,65,65	0
57	MG	1A	3168	1/1	0.93	0.11	52,52,52,52	0
57	MG	2a	3122	1/1	0.93	0.17	57,57,57,57	0
57	MG	1A	3376	1/1	0.93	0.10	42,42,42,42	0
57	MG	1a	1606	1/1	0.93	0.09	68,68,68,68	0
57	MG	2a	3128	1/1	0.93	0.09	60,60,60,60	0
57	MG	1A	3945	1/1	0.93	0.13	55,55,55,55	0
57	MG	1A	3946	1/1	0.93	0.11	46,46,46,46	0
57	MG	2a	3131	1/1	0.93	0.08	54,54,54,54	0
57	MG	1A	3170	1/1	0.93	0.08	49,49,49,49	0
57	MG	1A	3949	1/1	0.93	0.09	61,61,61,61	0
57	MG	1A	3594	1/1	0.93	0.08	23,23,23,23	0
57	MG	1A	3596	1/1	0.93	0.15	53,53,53,53	0
57	MG	1a	1618	1/1	0.93	0.16	56,56,56,56	0
57	MG	1a	1619	1/1	0.93	0.20	59,59,59,59	0
57	MG	1a	1623	1/1	0.93	0.12	57,57,57,57	0
57	MG	2a	3147	1/1	0.93	0.08	70,70,70,70	0
57	MG	1A	3087	1/1	0.93	0.08	38,38,38,38	0
57	MG	2A	3543	1/1	0.93	0.08	39,39,39,39	0
57	MG	2A	3546	1/1	0.93	0.15	37,37,37,37	0
57	MG	1A	3741	1/1	0.93	0.08	38,38,38,38	0
57	MG	2A	3550	1/1	0.93	0.08	58,58,58,58	0
57	MG	2A	3554	1/1	0.93	0.09	52,52,52,52	0
57	MG	1A	3963	1/1	0.93	0.09	26,26,26,26	0
57	MG	1A	3125	1/1	0.93	0.21	58,58,58,58	0
57	MG	1a	1814	1/1	0.93	0.19	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	3165	1/1	0.93	0.08	53,53,53,53	0
57	MG	1a	1816	1/1	0.93	0.09	58,58,58,58	0
57	MG	1a	1819	1/1	0.93	0.09	57,57,57,57	0
57	MG	2A	3218	1/1	0.93	0.10	43,43,43,43	0
57	MG	1a	1822	1/1	0.93	0.07	68,68,68,68	0
57	MG	1A	3387	1/1	0.93	0.13	50,50,50,50	0
57	MG	2A	3572	1/1	0.93	0.14	44,44,44,44	0
57	MG	1A	3132	1/1	0.93	0.32	41,41,41,41	0
57	MG	1a	1827	1/1	0.93	0.11	62,62,62,62	0
57	MG	2A	3580	1/1	0.93	0.07	59,59,59,59	0
57	MG	2A	3581	1/1	0.93	0.07	63,63,63,63	0
57	MG	1A	3389	1/1	0.93	0.11	46,46,46,46	0
57	MG	1A	3390	1/1	0.93	0.09	35,35,35,35	0
57	MG	1A	3392	1/1	0.93	0.09	53,53,53,53	0
57	MG	2A	3587	1/1	0.93	0.12	60,60,60,60	0
57	MG	1A	3393	1/1	0.93	0.10	56,56,56,56	0
57	MG	2a	3191	1/1	0.93	0.10	73,73,73,73	0
57	MG	1a	1648	1/1	0.93	0.21	56,56,56,56	0
57	MG	2A	3591	1/1	0.93	0.10	52,52,52,52	0
57	MG	2A	3242	1/1	0.93	0.18	61,61,61,61	0
57	MG	1A	3139	1/1	0.93	0.09	45,45,45,45	0
57	MG	2t	201	1/1	0.93	0.14	51,51,51,51	0
57	MG	2A	3601	1/1	0.93	0.09	66,66,66,66	0
57	MG	1A	3320	1/1	0.93	0.14	41,41,41,41	0
57	MG	1A	3623	1/1	0.93	0.09	53,53,53,53	0
58	MPD	18	104	8/8	0.93	0.13	25,36,38,39	0
57	MG	2A	3607	1/1	0.93	0.12	56,56,56,56	0
57	MG	1A	3321	1/1	0.93	0.15	27,27,27,27	0
57	MG	1A	3405	1/1	0.93	0.07	41,41,41,41	0
57	MG	1a	1840	1/1	0.93	0.11	62,62,62,62	0
57	MG	1a	1661	1/1	0.93	0.11	62,62,62,62	0
57	MG	2A	3639	1/1	0.94	0.10	50,50,50,50	0
57	MG	2A	3305	1/1	0.94	0.12	47,47,47,47	0
57	MG	1A	3713	1/1	0.94	0.07	32,32,32,32	0
57	MG	2A	3308	1/1	0.94	0.14	38,38,38,38	0
57	MG	1a	1705	1/1	0.94	0.11	59,59,59,59	0
57	MG	2A	3656	1/1	0.94	0.10	65,65,65,65	0
57	MG	2A	3658	1/1	0.94	0.08	49,49,49,49	0
57	MG	1A	3131	1/1	0.94	0.14	49,49,49,49	0
57	MG	2A	3316	1/1	0.94	0.05	34,34,34,34	0
57	MG	1A	3891	1/1	0.94	0.16	55,55,55,55	0
57	MG	1A	3228	1/1	0.94	0.12	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3296	1/1	0.94	0.11	49,49,49,49	0
57	MG	1a	1713	1/1	0.94	0.10	69,69,69,69	0
57	MG	2A	3325	1/1	0.94	0.13	58,58,58,58	0
57	MG	2A	3326	1/1	0.94	0.12	41,41,41,41	0
57	MG	2A	3328	1/1	0.94	0.09	54,54,54,54	0
57	MG	2A	3680	1/1	0.94	0.07	51,51,51,51	0
57	MG	1F	310	1/1	0.94	0.10	31,31,31,31	0
57	MG	1o	101	1/1	0.94	0.15	59,59,59,59	0
57	MG	1a	1715	1/1	0.94	0.07	38,38,38,38	0
57	MG	1F	314	1/1	0.94	0.18	60,60,60,60	0
57	MG	2A	3687	1/1	0.94	0.07	49,49,49,49	0
57	MG	1a	1720	1/1	0.94	0.09	62,62,62,62	0
57	MG	1A	3427	1/1	0.94	0.14	39,39,39,39	0
57	MG	1A	3301	1/1	0.94	0.08	36,36,36,36	0
57	MG	1A	3505	1/1	0.94	0.07	27,27,27,27	0
57	MG	2A	3349	1/1	0.94	0.09	44,44,44,44	0
57	MG	1N	202	1/1	0.94	0.10	42,42,42,42	0
57	MG	2A	3353	1/1	0.94	0.11	48,48,48,48	0
57	MG	2A	3005	1/1	0.94	0.10	57,57,57,57	0
57	MG	1a	1726	1/1	0.94	0.10	62,62,62,62	0
57	MG	2A	3701	1/1	0.94	0.10	50,50,50,50	0
57	MG	1A	3067	1/1	0.94	0.08	40,40,40,40	0
57	MG	2A	3361	1/1	0.94	0.13	47,47,47,47	0
57	MG	1A	3369	1/1	0.94	0.17	60,60,60,60	0
57	MG	1a	1732	1/1	0.94	0.13	64,64,64,64	0
57	MG	2A	3708	1/1	0.94	0.10	51,51,51,51	0
57	MG	2A	3711	1/1	0.94	0.08	53,53,53,53	0
57	MG	2A	3016	1/1	0.94	0.16	54,54,54,54	0
57	MG	2A	3023	1/1	0.94	0.19	60,60,60,60	0
57	MG	2A	3714	1/1	0.94	0.13	42,42,42,42	0
57	MG	1A	3905	1/1	0.94	0.22	35,35,35,35	0
57	MG	2A	3029	1/1	0.94	0.10	63,63,63,63	0
57	MG	2A	3369	1/1	0.94	0.11	51,51,51,51	0
57	MG	1A	3233	1/1	0.94	0.12	34,34,34,34	0
57	MG	2A	3034	1/1	0.94	0.28	64,64,64,64	0
57	MG	1A	3613	1/1	0.94	0.09	57,57,57,57	0
57	MG	2A	3724	1/1	0.94	0.20	59,59,59,59	0
57	MG	1A	3914	1/1	0.94	0.07	50,50,50,50	0
57	MG	1a	1741	1/1	0.94	0.07	52,52,52,52	0
57	MG	1A	3434	1/1	0.94	0.13	33,33,33,33	0
57	MG	1A	3743	1/1	0.94	0.07	38,38,38,38	0
57	MG	2A	3045	1/1	0.94	0.07	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3046	1/1	0.94	0.15	50,50,50,50	0
57	MG	1A	3745	1/1	0.94	0.06	28,28,28,28	0
57	MG	1a	1746	1/1	0.94	0.09	63,63,63,63	0
57	MG	1a	1747	1/1	0.94	0.09	52,52,52,52	0
57	MG	2A	3397	1/1	0.94	0.12	42,42,42,42	0
57	MG	2A	3736	1/1	0.94	0.21	59,59,59,59	0
57	MG	1A	3921	1/1	0.94	0.08	37,37,37,37	0
57	MG	2A	3057	1/1	0.94	0.20	62,62,62,62	0
57	MG	1A	3374	1/1	0.94	0.08	25,25,25,25	0
57	MG	1U	201	1/1	0.94	0.18	27,27,27,27	0
57	MG	1A	3622	1/1	0.94	0.14	30,30,30,30	0
57	MG	1a	1754	1/1	0.94	0.09	66,66,66,66	0
57	MG	2A	3064	1/1	0.94	0.06	37,37,37,37	0
57	MG	1A	3436	1/1	0.94	0.05	26,26,26,26	0
57	MG	2A	3066	1/1	0.94	0.07	53,53,53,53	0
57	MG	2A	3067	1/1	0.94	0.08	49,49,49,49	0
57	MG	1A	3626	1/1	0.94	0.17	35,35,35,35	0
57	MG	2A	3415	1/1	0.94	0.07	56,56,56,56	0
57	MG	2A	3418	1/1	0.94	0.09	62,62,62,62	0
57	MG	1A	3938	1/1	0.94	0.09	50,50,50,50	0
57	MG	1A	3758	1/1	0.94	0.10	42,42,42,42	0
57	MG	2D	308	1/1	0.94	0.13	44,44,44,44	0
57	MG	1A	3234	1/1	0.94	0.17	38,38,38,38	0
57	MG	1A	3762	1/1	0.94	0.23	59,59,59,59	0
57	MG	2E	302	1/1	0.94	0.07	43,43,43,43	0
57	MG	2F	303	1/1	0.94	0.14	44,44,44,44	0
57	MG	10	107	1/1	0.94	0.08	50,50,50,50	0
57	MG	11	102	1/1	0.94	0.21	52,52,52,52	0
57	MG	2A	3425	1/1	0.94	0.07	55,55,55,55	0
57	MG	1A	3235	1/1	0.94	0.11	51,51,51,51	0
57	MG	2A	3091	1/1	0.94	0.09	42,42,42,42	0
57	MG	2Q	204	1/1	0.94	0.07	46,46,46,46	0
57	MG	1A	3526	1/1	0.94	0.06	22,22,22,22	0
57	MG	17	104	1/1	0.94	0.16	46,46,46,46	0
57	MG	2A	3094	1/1	0.94	0.13	45,45,45,45	0
57	MG	1A	3528	1/1	0.94	0.11	29,29,29,29	0
57	MG	2A	3097	1/1	0.94	0.11	68,68,68,68	0
57	MG	2W	201	1/1	0.94	0.18	44,44,44,44	0
57	MG	20	102	1/1	0.94	0.13	58,58,58,58	0
57	MG	1A	3631	1/1	0.94	0.07	24,24,24,24	0
57	MG	1A	3529	1/1	0.94	0.10	22,22,22,22	0
57	MG	25	103	1/1	0.94	0.09	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1604	1/1	0.94	0.12	48,48,48,48	0
57	MG	1a	1605	1/1	0.94	0.10	62,62,62,62	0
57	MG	1A	3776	1/1	0.94	0.13	35,35,35,35	0
57	MG	2A	3109	1/1	0.94	0.10	49,49,49,49	0
57	MG	1A	3962	1/1	0.94	0.07	36,36,36,36	0
57	MG	2a	3008	1/1	0.94	0.11	60,60,60,60	0
57	MG	2a	3009	1/1	0.94	0.16	55,55,55,55	0
57	MG	1a	1781	1/1	0.94	0.10	57,57,57,57	0
57	MG	1A	3634	1/1	0.94	0.07	16,16,16,16	0
57	MG	2A	3118	1/1	0.94	0.17	46,46,46,46	0
57	MG	1a	1610	1/1	0.94	0.09	58,58,58,58	0
57	MG	2A	3123	1/1	0.94	0.21	49,49,49,49	0
57	MG	1A	3441	1/1	0.94	0.11	34,34,34,34	0
57	MG	1a	1612	1/1	0.94	0.17	60,60,60,60	0
57	MG	1A	3027	1/1	0.94	0.09	51,51,51,51	0
57	MG	1A	3383	1/1	0.94	0.11	40,40,40,40	0
57	MG	1A	3384	1/1	0.94	0.06	31,31,31,31	0
57	MG	1A	3790	1/1	0.94	0.10	47,47,47,47	0
57	MG	2a	3027	1/1	0.94	0.31	65,65,65,65	0
57	MG	2A	3465	1/1	0.94	0.09	54,54,54,54	0
57	MG	2A	3469	1/1	0.94	0.10	57,57,57,57	0
57	MG	1A	3449	1/1	0.94	0.08	40,40,40,40	0
57	MG	2a	3032	1/1	0.94	0.16	60,60,60,60	0
57	MG	2a	3033	1/1	0.94	0.14	57,57,57,57	0
57	MG	2A	3471	1/1	0.94	0.11	62,62,62,62	0
57	MG	2A	3137	1/1	0.94	0.18	52,52,52,52	0
57	MG	1a	1622	1/1	0.94	0.07	51,51,51,51	0
57	MG	2A	3476	1/1	0.94	0.07	53,53,53,53	0
57	MG	1A	3450	1/1	0.94	0.08	36,36,36,36	0
57	MG	2A	3145	1/1	0.94	0.09	55,55,55,55	0
57	MG	1A	3977	1/1	0.94	0.09	52,52,52,52	0
57	MG	1A	3978	1/1	0.94	0.08	55,55,55,55	0
57	MG	2A	3482	1/1	0.94	0.14	53,53,53,53	0
57	MG	2A	3151	1/1	0.94	0.07	53,53,53,53	0
57	MG	1a	1629	1/1	0.94	0.08	50,50,50,50	0
57	MG	1a	1800	1/1	0.94	0.13	60,60,60,60	0
57	MG	2A	3488	1/1	0.94	0.09	31,31,31,31	0
57	MG	1A	3330	1/1	0.94	0.07	37,37,37,37	0
57	MG	1A	3551	1/1	0.94	0.07	36,36,36,36	0
57	MG	2a	3054	1/1	0.94	0.07	38,38,38,38	0
57	MG	2a	3055	1/1	0.94	0.11	66,66,66,66	0
57	MG	2a	3056	1/1	0.94	0.10	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3800	1/1	0.94	0.08	31,31,31,31	0
57	MG	1A	3006	1/1	0.94	0.10	35,35,35,35	0
57	MG	1a	1637	1/1	0.94	0.07	43,43,43,43	0
57	MG	2a	3061	1/1	0.94	0.14	54,54,54,54	0
57	MG	1A	3652	1/1	0.94	0.10	41,41,41,41	0
57	MG	2A	3499	1/1	0.94	0.11	53,53,53,53	0
57	MG	2a	3064	1/1	0.94	0.12	42,42,42,42	0
57	MG	1A	3039	1/1	0.94	0.13	41,41,41,41	0
57	MG	1a	1644	1/1	0.94	0.16	49,49,49,49	0
57	MG	1A	3661	1/1	0.94	0.13	40,40,40,40	0
57	MG	1A	3810	1/1	0.94	0.07	73,73,73,73	0
57	MG	2a	3070	1/1	0.94	0.08	56,56,56,56	0
57	MG	1A	3011	1/1	0.94	0.08	50,50,50,50	0
57	MG	2A	3508	1/1	0.94	0.16	56,56,56,56	0
57	MG	2A	3177	1/1	0.94	0.21	50,50,50,50	0
57	MG	2a	3077	1/1	0.94	0.13	64,64,64,64	0
57	MG	1a	1817	1/1	0.94	0.07	78,78,78,78	0
57	MG	1A	3562	1/1	0.94	0.07	38,38,38,38	0
57	MG	1A	3563	1/1	0.94	0.10	40,40,40,40	0
57	MG	2A	3517	1/1	0.94	0.17	59,59,59,59	0
57	MG	2A	3186	1/1	0.94	0.15	62,62,62,62	0
57	MG	2a	3087	1/1	0.94	0.07	60,60,60,60	0
57	MG	1A	3338	1/1	0.94	0.09	42,42,42,42	0
57	MG	2a	3090	1/1	0.94	0.19	50,50,50,50	0
57	MG	1A	3670	1/1	0.94	0.14	52,52,52,52	0
57	MG	2A	3190	1/1	0.94	0.14	59,59,59,59	0
57	MG	1A	3568	1/1	0.94	0.08	52,52,52,52	0
57	MG	1a	1660	1/1	0.94	0.22	61,61,61,61	0
57	MG	1A	3047	1/1	0.94	0.08	37,37,37,37	0
57	MG	1a	1831	1/1	0.94	0.14	59,59,59,59	0
57	MG	1A	3166	1/1	0.94	0.16	49,49,49,49	0
57	MG	2A	3201	1/1	0.94	0.10	54,54,54,54	0
57	MG	1A	3014	1/1	0.94	0.16	55,55,55,55	0
57	MG	2A	3204	1/1	0.94	0.10	51,51,51,51	0
57	MG	2a	3108	1/1	0.94	0.09	45,45,45,45	0
57	MG	2A	3205	1/1	0.94	0.07	52,52,52,52	0
57	MG	1A	4019	1/1	0.94	0.06	24,24,24,24	0
57	MG	1A	4021	1/1	0.94	0.08	39,39,39,39	0
57	MG	2A	3209	1/1	0.94	0.18	56,56,56,56	0
57	MG	2A	3539	1/1	0.94	0.10	60,60,60,60	0
57	MG	2A	3211	1/1	0.94	0.11	41,41,41,41	0
57	MG	1A	3474	1/1	0.94	0.08	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3216	1/1	0.94	0.14	57,57,57,57	0
57	MG	2a	3120	1/1	0.94	0.12	60,60,60,60	0
57	MG	1A	3475	1/1	0.94	0.09	29,29,29,29	0
57	MG	1A	4025	1/1	0.94	0.23	45,45,45,45	0
57	MG	2A	3552	1/1	0.94	0.08	50,50,50,50	0
57	MG	1A	3845	1/1	0.94	0.08	41,41,41,41	0
57	MG	1a	1670	1/1	0.94	0.10	58,58,58,58	0
57	MG	1A	3395	1/1	0.94	0.08	42,42,42,42	0
57	MG	1a	1672	1/1	0.94	0.17	57,57,57,57	0
57	MG	1A	3107	1/1	0.94	0.09	37,37,37,37	0
57	MG	2a	3133	1/1	0.94	0.14	63,63,63,63	0
57	MG	2A	3227	1/1	0.94	0.14	55,55,55,55	0
57	MG	1a	1846	1/1	0.94	0.11	59,59,59,59	0
57	MG	2A	3232	1/1	0.94	0.10	64,64,64,64	0
57	MG	2A	3233	1/1	0.94	0.11	53,53,53,53	0
57	MG	1B	205	1/1	0.94	0.11	50,50,50,50	0
57	MG	1A	3172	1/1	0.94	0.08	41,41,41,41	0
57	MG	2a	3146	1/1	0.94	0.09	56,56,56,56	0
57	MG	2A	3576	1/1	0.94	0.10	51,51,51,51	0
57	MG	1A	3276	1/1	0.94	0.13	58,58,58,58	0
57	MG	2a	3152	1/1	0.94	0.09	69,69,69,69	0
57	MG	1a	1852	1/1	0.94	0.07	60,60,60,60	0
57	MG	2A	3244	1/1	0.94	0.12	55,55,55,55	0
57	MG	1A	3697	1/1	0.94	0.09	75,75,75,75	0
57	MG	2a	3157	1/1	0.94	0.14	63,63,63,63	0
57	MG	1A	3583	1/1	0.94	0.11	40,40,40,40	0
57	MG	1a	1679	1/1	0.94	0.10	52,52,52,52	0
57	MG	2a	3161	1/1	0.94	0.10	47,47,47,47	0
57	MG	1a	1680	1/1	0.94	0.07	48,48,48,48	0
57	MG	1B	213	1/1	0.94	0.09	47,47,47,47	0
57	MG	1a	1864	1/1	0.94	0.08	59,59,59,59	0
57	MG	1A	3855	1/1	0.94	0.09	34,34,34,34	0
57	MG	1B	218	1/1	0.94	0.08	52,52,52,52	0
57	MG	2A	3595	1/1	0.94	0.08	46,46,46,46	0
57	MG	1a	1870	1/1	0.94	0.08	64,64,64,64	0
57	MG	2A	3597	1/1	0.94	0.07	63,63,63,63	0
57	MG	1A	3860	1/1	0.94	0.09	36,36,36,36	0
57	MG	1A	3481	1/1	0.94	0.07	43,43,43,43	0
57	MG	1A	3868	1/1	0.94	0.07	45,45,45,45	0
57	MG	1A	3061	1/1	0.94	0.20	43,43,43,43	0
57	MG	2a	3178	1/1	0.94	0.14	53,53,53,53	0
57	MG	1a	1875	1/1	0.94	0.10	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1691	1/1	0.94	0.09	53,53,53,53	0
57	MG	1A	3412	1/1	0.94	0.05	33,33,33,33	0
57	MG	1a	1879	1/1	0.94	0.13	65,65,65,65	0
57	MG	1A	3874	1/1	0.94	0.07	40,40,40,40	0
57	MG	2A	3281	1/1	0.94	0.18	56,56,56,56	0
57	MG	1A	3348	1/1	0.94	0.12	43,43,43,43	0
57	MG	1A	3002	1/1	0.94	0.10	40,40,40,40	0
57	MG	1A	3418	1/1	0.94	0.08	21,21,21,21	0
57	MG	2e	202	1/1	0.94	0.10	65,65,65,65	0
57	MG	2A	3287	1/1	0.94	0.19	56,56,56,56	0
57	MG	1A	3181	1/1	0.94	0.15	46,46,46,46	0
57	MG	2A	3293	1/1	0.94	0.12	54,54,54,54	0
57	MG	2A	3295	1/1	0.94	0.16	56,56,56,56	0
57	MG	2A	3296	1/1	0.94	0.12	60,60,60,60	0
57	MG	2A	3628	1/1	0.94	0.06	64,64,64,64	0
57	MG	1A	3711	1/1	0.94	0.07	38,38,38,38	0
57	MG	1D	315	1/1	0.94	0.19	63,63,63,63	0
57	MG	2A	3631	1/1	0.94	0.12	53,53,53,53	0
57	MG	2A	3299	1/1	0.94	0.08	38,38,38,38	0
57	MG	2A	3301	1/1	0.94	0.11	21,21,21,21	0
57	MG	2A	3635	1/1	0.94	0.10	55,55,55,55	0
57	MG	2A	3304	1/1	0.94	0.07	49,49,49,49	0
57	MG	1A	3974	1/1	0.95	0.07	45,45,45,45	0
57	MG	2A	3108	1/1	0.95	0.13	58,58,58,58	0
57	MG	1A	3782	1/1	0.95	0.11	36,36,36,36	0
57	MG	2A	3112	1/1	0.95	0.09	47,47,47,47	0
57	MG	2A	3113	1/1	0.95	0.20	45,45,45,45	0
57	MG	1A	3783	1/1	0.95	0.05	27,27,27,27	0
57	MG	2A	3707	1/1	0.95	0.06	73,73,73,73	0
57	MG	1A	3981	1/1	0.95	0.09	46,46,46,46	0
57	MG	2A	3710	1/1	0.95	0.06	53,53,53,53	0
57	MG	1A	3070	1/1	0.95	0.13	22,22,22,22	0
57	MG	1a	1802	1/1	0.95	0.10	55,55,55,55	0
57	MG	2A	3119	1/1	0.95	0.11	43,43,43,43	0
57	MG	1A	3456	1/1	0.95	0.14	51,51,51,51	0
57	MG	2A	3122	1/1	0.95	0.08	41,41,41,41	0
57	MG	2A	3411	1/1	0.95	0.10	56,56,56,56	0
57	MG	1a	1635	1/1	0.95	0.19	63,63,63,63	0
57	MG	2A	3719	1/1	0.95	0.08	58,58,58,58	0
57	MG	1A	3537	1/1	0.95	0.18	40,40,40,40	0
57	MG	1a	1806	1/1	0.95	0.09	66,66,66,66	0
57	MG	1A	3269	1/1	0.95	0.09	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3130	1/1	0.95	0.25	45,45,45,45	0
57	MG	1A	3642	1/1	0.95	0.08	51,51,51,51	0
57	MG	2A	3133	1/1	0.95	0.15	46,46,46,46	0
57	MG	1a	1639	1/1	0.95	0.16	60,60,60,60	0
57	MG	1a	1640	1/1	0.95	0.11	53,53,53,53	0
57	MG	1A	3398	1/1	0.95	0.14	49,49,49,49	0
57	MG	1a	1643	1/1	0.95	0.10	64,64,64,64	0
57	MG	2A	3427	1/1	0.95	0.10	52,52,52,52	0
57	MG	1A	3541	1/1	0.95	0.07	47,47,47,47	0
57	MG	2A	3143	1/1	0.95	0.14	56,56,56,56	0
57	MG	1A	3205	1/1	0.95	0.16	46,46,46,46	0
57	MG	1A	3548	1/1	0.95	0.07	43,43,43,43	0
57	MG	1A	3549	1/1	0.95	0.06	25,25,25,25	0
57	MG	1A	3804	1/1	0.95	0.09	51,51,51,51	0
57	MG	1A	4001	1/1	0.95	0.09	28,28,28,28	0
57	MG	2A	3435	1/1	0.95	0.07	36,36,36,36	0
57	MG	1a	1825	1/1	0.95	0.08	49,49,49,49	0
57	MG	2B	205	1/1	0.95	0.08	49,49,49,49	0
57	MG	2B	206	1/1	0.95	0.06	42,42,42,42	0
57	MG	1A	3075	1/1	0.95	0.10	41,41,41,41	0
57	MG	2A	3439	1/1	0.95	0.12	64,64,64,64	0
57	MG	2A	3156	1/1	0.95	0.09	60,60,60,60	0
57	MG	1A	3031	1/1	0.95	0.08	16,16,16,16	0
57	MG	1A	4006	1/1	0.95	0.10	29,29,29,29	0
57	MG	1A	3655	1/1	0.95	0.11	39,39,39,39	0
57	MG	1A	3656	1/1	0.95	0.12	52,52,52,52	0
57	MG	2B	217	1/1	0.95	0.10	57,57,57,57	0
57	MG	2A	3450	1/1	0.95	0.11	57,57,57,57	0
57	MG	2A	3163	1/1	0.95	0.11	56,56,56,56	0
57	MG	1A	3659	1/1	0.95	0.07	30,30,30,30	0
57	MG	2D	305	1/1	0.95	0.26	46,46,46,46	0
57	MG	1A	3552	1/1	0.95	0.07	47,47,47,47	0
57	MG	1A	4018	1/1	0.95	0.10	41,41,41,41	0
57	MG	1A	3407	1/1	0.95	0.07	35,35,35,35	0
57	MG	1A	3470	1/1	0.95	0.07	60,60,60,60	0
57	MG	2F	301	1/1	0.95	0.13	42,42,42,42	0
57	MG	1A	3831	1/1	0.95	0.07	40,40,40,40	0
57	MG	2G	3301	1/1	0.95	0.06	68,68,68,68	0
57	MG	1A	3471	1/1	0.95	0.11	50,50,50,50	0
57	MG	1A	3176	1/1	0.95	0.10	39,39,39,39	0
57	MG	1A	3211	1/1	0.95	0.24	40,40,40,40	0
57	MG	2P	202	1/1	0.95	0.05	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1B	201	1/1	0.95	0.10	46,46,46,46	0
57	MG	2A	3466	1/1	0.95	0.12	48,48,48,48	0
57	MG	2A	3467	1/1	0.95	0.10	60,60,60,60	0
57	MG	1A	3476	1/1	0.95	0.08	22,22,22,22	0
57	MG	2A	3183	1/1	0.95	0.08	46,46,46,46	0
57	MG	1A	3840	1/1	0.95	0.07	15,15,15,15	0
57	MG	1B	204	1/1	0.95	0.12	53,53,53,53	0
57	MG	2A	3474	1/1	0.95	0.15	46,46,46,46	0
57	MG	1a	1848	1/1	0.95	0.07	52,52,52,52	0
57	MG	2W	202	1/1	0.95	0.12	51,51,51,51	0
57	MG	1A	3672	1/1	0.95	0.06	38,38,38,38	0
57	MG	2A	3477	1/1	0.95	0.07	57,57,57,57	0
57	MG	1A	3140	1/1	0.95	0.09	39,39,39,39	0
57	MG	2A	3196	1/1	0.95	0.11	51,51,51,51	0
57	MG	1A	3351	1/1	0.95	0.06	37,37,37,37	0
57	MG	1A	3677	1/1	0.95	0.07	27,27,27,27	0
57	MG	1a	1853	1/1	0.95	0.06	53,53,53,53	0
57	MG	1A	3847	1/1	0.95	0.07	44,44,44,44	0
57	MG	2a	3003	1/1	0.95	0.19	57,57,57,57	0
57	MG	1a	1857	1/1	0.95	0.12	64,64,64,64	0
57	MG	1A	3679	1/1	0.95	0.16	47,47,47,47	0
57	MG	1A	3417	1/1	0.95	0.10	21,21,21,21	0
57	MG	1A	3572	1/1	0.95	0.06	45,45,45,45	0
57	MG	2A	3206	1/1	0.95	0.07	40,40,40,40	0
57	MG	2a	3012	1/1	0.95	0.22	58,58,58,58	0
57	MG	2A	3492	1/1	0.95	0.07	61,61,61,61	0
57	MG	1A	3280	1/1	0.95	0.08	52,52,52,52	0
57	MG	2A	3494	1/1	0.95	0.08	33,33,33,33	0
57	MG	1a	1863	1/1	0.95	0.14	50,50,50,50	0
57	MG	1A	3685	1/1	0.95	0.12	47,47,47,47	0
57	MG	1A	3282	1/1	0.95	0.08	38,38,38,38	0
57	MG	1A	3857	1/1	0.95	0.21	50,50,50,50	0
57	MG	1A	3284	1/1	0.95	0.07	37,37,37,37	0
57	MG	2a	3023	1/1	0.95	0.09	54,54,54,54	0
57	MG	2a	3024	1/1	0.95	0.06	46,46,46,46	0
57	MG	1B	227	1/1	0.95	0.07	52,52,52,52	0
57	MG	2a	3026	1/1	0.95	0.24	69,69,69,69	0
57	MG	1A	3578	1/1	0.95	0.07	62,62,62,62	0
57	MG	2A	3219	1/1	0.95	0.12	53,53,53,53	0
57	MG	2a	3029	1/1	0.95	0.09	51,51,51,51	0
57	MG	1A	3864	1/1	0.95	0.08	25,25,25,25	0
57	MG	1A	3866	1/1	0.95	0.14	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3509	1/1	0.95	0.06	39,39,39,39	0
57	MG	1A	3483	1/1	0.95	0.07	41,41,41,41	0
57	MG	2a	3034	1/1	0.95	0.17	52,52,52,52	0
57	MG	2A	3224	1/1	0.95	0.09	51,51,51,51	0
57	MG	1a	1876	1/1	0.95	0.11	69,69,69,69	0
57	MG	2A	3514	1/1	0.95	0.09	66,66,66,66	0
57	MG	1A	3360	1/1	0.95	0.09	38,38,38,38	0
57	MG	1A	3488	1/1	0.95	0.11	51,51,51,51	0
57	MG	2A	3229	1/1	0.95	0.09	43,43,43,43	0
57	MG	1A	3489	1/1	0.95	0.08	46,46,46,46	0
57	MG	2a	3044	1/1	0.95	0.18	56,56,56,56	0
57	MG	1A	3875	1/1	0.95	0.08	47,47,47,47	0
57	MG	1A	3214	1/1	0.95	0.21	38,38,38,38	0
57	MG	1A	3584	1/1	0.95	0.07	17,17,17,17	0
57	MG	2A	3238	1/1	0.95	0.19	45,45,45,45	0
57	MG	2A	3239	1/1	0.95	0.21	43,43,43,43	0
57	MG	1A	3585	1/1	0.95	0.11	36,36,36,36	0
57	MG	1d	304	1/1	0.95	0.14	62,62,62,62	0
57	MG	2a	3052	1/1	0.95	0.14	43,43,43,43	0
57	MG	1E	306	1/1	0.95	0.08	38,38,38,38	0
57	MG	1E	308	1/1	0.95	0.09	48,48,48,48	0
57	MG	1A	3425	1/1	0.95	0.05	19,19,19,19	0
57	MG	1a	1710	1/1	0.95	0.17	52,52,52,52	0
57	MG	1A	3426	1/1	0.95	0.19	41,41,41,41	0
57	MG	2A	3248	1/1	0.95	0.08	51,51,51,51	0
57	MG	1F	311	1/1	0.95	0.18	39,39,39,39	0
57	MG	1F	312	1/1	0.95	0.20	42,42,42,42	0
57	MG	1A	3142	1/1	0.95	0.08	39,39,39,39	0
57	MG	1F	316	1/1	0.95	0.11	32,32,32,32	0
57	MG	1A	3889	1/1	0.95	0.06	28,28,28,28	0
57	MG	2A	3259	1/1	0.95	0.18	56,56,56,56	0
57	MG	2A	3260	1/1	0.95	0.17	57,57,57,57	0
57	MG	1A	3590	1/1	0.95	0.16	59,59,59,59	0
57	MG	1A	3185	1/1	0.95	0.23	37,37,37,37	0
57	MG	2a	3069	1/1	0.95	0.09	57,57,57,57	0
57	MG	2A	3555	1/1	0.95	0.06	56,56,56,56	0
57	MG	1A	3058	1/1	0.95	0.07	25,25,25,25	0
57	MG	2A	3268	1/1	0.95	0.11	21,21,21,21	0
57	MG	1A	3500	1/1	0.95	0.15	25,25,25,25	0
57	MG	2A	3562	1/1	0.95	0.13	48,48,48,48	0
57	MG	1A	3188	1/1	0.95	0.09	32,32,32,32	0
57	MG	2a	3079	1/1	0.95	0.08	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3718	1/1	0.95	0.13	60,60,60,60	0
57	MG	2A	3568	1/1	0.95	0.09	52,52,52,52	0
57	MG	1a	1731	1/1	0.95	0.10	55,55,55,55	0
57	MG	2a	3084	1/1	0.95	0.20	54,54,54,54	0
57	MG	1x	101	1/1	0.95	0.07	46,46,46,46	0
57	MG	1A	3719	1/1	0.95	0.19	38,38,38,38	0
57	MG	2A	3002	1/1	0.95	0.08	54,54,54,54	0
57	MG	2a	3089	1/1	0.95	0.08	52,52,52,52	0
57	MG	2A	3280	1/1	0.95	0.09	47,47,47,47	0
57	MG	1a	1733	1/1	0.95	0.09	65,65,65,65	0
57	MG	1A	3432	1/1	0.95	0.05	33,33,33,33	0
57	MG	1A	3724	1/1	0.95	0.11	25,25,25,25	0
57	MG	2A	3285	1/1	0.95	0.07	53,53,53,53	0
57	MG	1A	3086	1/1	0.95	0.10	43,43,43,43	0
57	MG	1A	3190	1/1	0.95	0.09	53,53,53,53	0
57	MG	2A	3289	1/1	0.95	0.09	46,46,46,46	0
57	MG	2A	3585	1/1	0.95	0.09	46,46,46,46	0
57	MG	1A	3117	1/1	0.95	0.06	31,31,31,31	0
57	MG	1T	201	1/1	0.95	0.07	36,36,36,36	0
57	MG	2A	3017	1/1	0.95	0.11	52,52,52,52	0
57	MG	1A	3600	1/1	0.95	0.11	35,35,35,35	0
57	MG	1A	3601	1/1	0.95	0.07	40,40,40,40	0
57	MG	2A	3028	1/1	0.95	0.08	38,38,38,38	0
57	MG	1A	3602	1/1	0.95	0.07	35,35,35,35	0
57	MG	1U	203	1/1	0.95	0.26	55,55,55,55	0
57	MG	1A	3195	1/1	0.95	0.15	60,60,60,60	0
57	MG	2A	3602	1/1	0.95	0.07	35,35,35,35	0
57	MG	2a	3118	1/1	0.95	0.18	60,60,60,60	0
57	MG	1A	3739	1/1	0.95	0.07	31,31,31,31	0
57	MG	2A	3605	1/1	0.95	0.07	64,64,64,64	0
57	MG	2A	3306	1/1	0.95	0.15	37,37,37,37	0
57	MG	2a	3123	1/1	0.95	0.07	61,61,61,61	0
57	MG	2a	3124	1/1	0.95	0.11	73,73,73,73	0
57	MG	1A	3511	1/1	0.95	0.10	48,48,48,48	0
57	MG	1A	3437	1/1	0.95	0.08	45,45,45,45	0
57	MG	1X	101	1/1	0.95	0.07	40,40,40,40	0
57	MG	1A	3239	1/1	0.95	0.33	39,39,39,39	0
57	MG	1A	3933	1/1	0.95	0.09	48,48,48,48	0
57	MG	2A	3612	1/1	0.95	0.06	50,50,50,50	0
57	MG	1A	3748	1/1	0.95	0.13	43,43,43,43	0
57	MG	2A	3047	1/1	0.95	0.17	51,51,51,51	0
57	MG	1a	1760	1/1	0.95	0.11	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1761	1/1	0.95	0.08	61,61,61,61	0
57	MG	2A	3324	1/1	0.95	0.17	64,64,64,64	0
57	MG	2A	3622	1/1	0.95	0.09	43,43,43,43	0
57	MG	1A	3936	1/1	0.95	0.08	55,55,55,55	0
57	MG	1A	3610	1/1	0.95	0.07	43,43,43,43	0
57	MG	2a	3145	1/1	0.95	0.07	56,56,56,56	0
57	MG	1A	3244	1/1	0.95	0.08	63,63,63,63	0
57	MG	1A	3517	1/1	0.95	0.07	46,46,46,46	0
57	MG	1a	1767	1/1	0.95	0.10	56,56,56,56	0
57	MG	15	108	1/1	0.95	0.10	47,47,47,47	0
57	MG	1A	3520	1/1	0.95	0.06	44,44,44,44	0
57	MG	1A	3618	1/1	0.95	0.10	33,33,33,33	0
57	MG	1A	3948	1/1	0.95	0.13	53,53,53,53	0
57	MG	1A	3324	1/1	0.95	0.08	40,40,40,40	0
57	MG	2A	3633	1/1	0.95	0.07	67,67,67,67	0
57	MG	1A	3761	1/1	0.95	0.15	47,47,47,47	0
57	MG	1A	3159	1/1	0.95	0.05	35,35,35,35	0
57	MG	2A	3070	1/1	0.95	0.08	49,49,49,49	0
57	MG	2A	3638	1/1	0.95	0.06	63,63,63,63	0
57	MG	2A	3352	1/1	0.95	0.10	57,57,57,57	0
57	MG	1A	3952	1/1	0.95	0.09	55,55,55,55	0
57	MG	2A	3354	1/1	0.95	0.10	39,39,39,39	0
57	MG	2A	3647	1/1	0.95	0.10	60,60,60,60	0
57	MG	2A	3650	1/1	0.95	0.07	49,49,49,49	0
57	MG	1A	3955	1/1	0.95	0.05	20,20,20,20	0
57	MG	1A	3015	1/1	0.95	0.14	33,33,33,33	0
57	MG	2A	3078	1/1	0.95	0.15	57,57,57,57	0
57	MG	2A	3079	1/1	0.95	0.09	51,51,51,51	0
57	MG	2A	3362	1/1	0.95	0.07	40,40,40,40	0
57	MG	2A	3081	1/1	0.95	0.16	66,66,66,66	0
57	MG	2A	3662	1/1	0.95	0.10	44,44,44,44	0
57	MG	1A	3625	1/1	0.95	0.14	29,29,29,29	0
57	MG	1A	3524	1/1	0.95	0.09	39,39,39,39	0
57	MG	1a	1783	1/1	0.95	0.08	55,55,55,55	0
57	MG	2A	3671	1/1	0.95	0.07	59,59,59,59	0
57	MG	2a	3186	1/1	0.95	0.07	52,52,52,52	0
57	MG	1A	3525	1/1	0.95	0.07	42,42,42,42	0
57	MG	1A	3770	1/1	0.95	0.15	44,44,44,44	0
57	MG	2a	3190	1/1	0.95	0.14	58,58,58,58	0
57	MG	1A	3772	1/1	0.95	0.05	50,50,50,50	0
57	MG	2A	3371	1/1	0.95	0.08	49,49,49,49	0
57	MG	1A	3127	1/1	0.95	0.10	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1a	1617	1/1	0.95	0.13	54,54,54,54	0
57	MG	2j	3201	1/1	0.95	0.09	60,60,60,60	0
57	MG	2A	3375	1/1	0.95	0.06	59,59,59,59	0
57	MG	1A	3253	1/1	0.95	0.19	30,30,30,30	0
57	MG	1a	1790	1/1	0.95	0.13	62,62,62,62	0
57	MG	1A	3255	1/1	0.95	0.19	43,43,43,43	0
57	MG	1a	1621	1/1	0.95	0.20	52,52,52,52	0
57	MG	2A	3100	1/1	0.95	0.07	53,53,53,53	0
57	MG	2A	3101	1/1	0.95	0.06	50,50,50,50	0
57	MG	2A	3391	1/1	0.95	0.08	58,58,58,58	0
57	MG	2A	3392	1/1	0.95	0.07	40,40,40,40	0
57	MG	1A	3130	1/1	0.95	0.06	33,33,33,33	0
59	ARG	1B	231	12/12	0.95	0.09	24,39,48,53	0
57	MG	2A	3105	1/1	0.95	0.14	45,45,45,45	0
60	ZN	24	501	1/1	0.95	0.13	122,122,122,122	0
57	MG	1A	3532	1/1	0.95	0.10	25,25,25,25	0
57	MG	1a	1625	1/1	0.96	0.07	42,42,42,42	0
57	MG	1A	3942	1/1	0.96	0.12	49,49,49,49	0
57	MG	1A	3267	1/1	0.96	0.07	43,43,43,43	0
57	MG	1a	1867	1/1	0.96	0.06	52,52,52,52	0
57	MG	1A	3382	1/1	0.96	0.15	67,67,67,67	0
57	MG	1A	3734	1/1	0.96	0.29	40,40,40,40	0
57	MG	2A	3640	1/1	0.96	0.12	68,68,68,68	0
57	MG	2A	3278	1/1	0.96	0.06	55,55,55,55	0
57	MG	1A	3735	1/1	0.96	0.14	34,34,34,34	0
57	MG	1A	3268	1/1	0.96	0.06	31,31,31,31	0
57	MG	1A	3007	1/1	0.96	0.06	28,28,28,28	0
57	MG	1A	3032	1/1	0.96	0.09	44,44,44,44	0
57	MG	1A	3010	1/1	0.96	0.07	39,39,39,39	0
57	MG	2A	3284	1/1	0.96	0.06	45,45,45,45	0
57	MG	1A	3742	1/1	0.96	0.09	39,39,39,39	0
57	MG	1A	3953	1/1	0.96	0.14	53,53,53,53	0
57	MG	2A	3660	1/1	0.96	0.12	50,50,50,50	0
57	MG	1A	3071	1/1	0.96	0.11	27,27,27,27	0
57	MG	1a	1641	1/1	0.96	0.10	68,68,68,68	0
57	MG	2A	3290	1/1	0.96	0.28	48,48,48,48	0
57	MG	1A	3956	1/1	0.96	0.09	41,41,41,41	0
57	MG	1A	3957	1/1	0.96	0.15	61,61,61,61	0
57	MG	1A	3016	1/1	0.96	0.13	32,32,32,32	0
57	MG	1d	302	1/1	0.96	0.11	57,57,57,57	0
57	MG	2A	3673	1/1	0.96	0.10	66,66,66,66	0
57	MG	1A	3746	1/1	0.96	0.07	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3677	1/1	0.96	0.09	65,65,65,65	0
57	MG	1a	1646	1/1	0.96	0.31	64,64,64,64	0
57	MG	1A	3194	1/1	0.96	0.10	46,46,46,46	0
57	MG	1A	3134	1/1	0.96	0.16	34,34,34,34	0
57	MG	2A	3303	1/1	0.96	0.07	37,37,37,37	0
57	MG	1A	3196	1/1	0.96	0.08	44,44,44,44	0
57	MG	2A	3683	1/1	0.96	0.07	55,55,55,55	0
57	MG	1e	202	1/1	0.96	0.07	48,48,48,48	0
57	MG	1e	203	1/1	0.96	0.13	49,49,49,49	0
57	MG	1A	3135	1/1	0.96	0.06	32,32,32,32	0
57	MG	1A	3498	1/1	0.96	0.06	42,42,42,42	0
57	MG	2A	3309	1/1	0.96	0.10	51,51,51,51	0
57	MG	2A	3690	1/1	0.96	0.07	51,51,51,51	0
57	MG	2A	3310	1/1	0.96	0.07	52,52,52,52	0
57	MG	2A	3692	1/1	0.96	0.06	54,54,54,54	0
57	MG	1g	3101	1/1	0.96	0.14	52,52,52,52	0
57	MG	2A	3313	1/1	0.96	0.06	44,44,44,44	0
57	MG	1a	1654	1/1	0.96	0.06	42,42,42,42	0
57	MG	1a	1655	1/1	0.96	0.12	60,60,60,60	0
57	MG	2A	3317	1/1	0.96	0.07	37,37,37,37	0
57	MG	1A	3138	1/1	0.96	0.13	31,31,31,31	0
57	MG	1A	3611	1/1	0.96	0.05	41,41,41,41	0
57	MG	1A	3396	1/1	0.96	0.06	40,40,40,40	0
57	MG	1A	3397	1/1	0.96	0.07	38,38,38,38	0
57	MG	1m	201	1/1	0.96	0.07	65,65,65,65	0
57	MG	1n	101	1/1	0.96	0.07	58,58,58,58	0
57	MG	1A	3614	1/1	0.96	0.07	51,51,51,51	0
57	MG	1A	3766	1/1	0.96	0.09	34,34,34,34	0
57	MG	1A	3615	1/1	0.96	0.15	41,41,41,41	0
57	MG	1A	3980	1/1	0.96	0.05	21,21,21,21	0
57	MG	1A	3616	1/1	0.96	0.04	40,40,40,40	0
57	MG	2A	3335	1/1	0.96	0.10	34,34,34,34	0
57	MG	1A	3288	1/1	0.96	0.07	23,23,23,23	0
57	MG	2A	3337	1/1	0.96	0.06	45,45,45,45	0
57	MG	1A	3020	1/1	0.96	0.22	31,31,31,31	0
57	MG	1x	102	1/1	0.96	0.06	26,26,26,26	0
57	MG	2A	3342	1/1	0.96	0.06	53,53,53,53	0
57	MG	2A	3720	1/1	0.96	0.05	40,40,40,40	0
57	MG	1A	3985	1/1	0.96	0.06	32,32,32,32	0
57	MG	1A	3986	1/1	0.96	0.18	46,46,46,46	0
57	MG	1A	3620	1/1	0.96	0.07	48,48,48,48	0
57	MG	2A	3350	1/1	0.96	0.09	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3403	1/1	0.96	0.05	23,23,23,23	0
57	MG	1A	3989	1/1	0.96	0.07	41,41,41,41	0
57	MG	1A	3506	1/1	0.96	0.07	42,42,42,42	0
57	MG	1A	3777	1/1	0.96	0.06	39,39,39,39	0
57	MG	1A	3507	1/1	0.96	0.06	49,49,49,49	0
57	MG	1A	3201	1/1	0.96	0.19	46,46,46,46	0
57	MG	1A	3780	1/1	0.96	0.07	32,32,32,32	0
57	MG	2A	3018	1/1	0.96	0.18	37,37,37,37	0
57	MG	2A	3021	1/1	0.96	0.06	37,37,37,37	0
57	MG	1A	3080	1/1	0.96	0.14	35,35,35,35	0
57	MG	2A	3024	1/1	0.96	0.08	63,63,63,63	0
57	MG	1A	3082	1/1	0.96	0.09	41,41,41,41	0
57	MG	2A	3026	1/1	0.96	0.10	46,46,46,46	0
57	MG	1A	3144	1/1	0.96	0.07	35,35,35,35	0
57	MG	1A	3785	1/1	0.96	0.07	52,52,52,52	0
57	MG	2A	3032	1/1	0.96	0.14	51,51,51,51	0
57	MG	2A	3370	1/1	0.96	0.12	60,60,60,60	0
57	MG	1A	3787	1/1	0.96	0.06	35,35,35,35	0
57	MG	1a	1686	1/1	0.96	0.16	52,52,52,52	0
57	MG	2A	3035	1/1	0.96	0.07	49,49,49,49	0
57	MG	2B	209	1/1	0.96	0.19	60,60,60,60	0
57	MG	2A	3037	1/1	0.96	0.07	39,39,39,39	0
57	MG	2B	211	1/1	0.96	0.11	57,57,57,57	0
57	MG	1A	4004	1/1	0.96	0.13	47,47,47,47	0
57	MG	1A	3299	1/1	0.96	0.22	31,31,31,31	0
57	MG	1A	3515	1/1	0.96	0.06	31,31,31,31	0
57	MG	1A	3046	1/1	0.96	0.07	12,12,12,12	0
57	MG	2A	3384	1/1	0.96	0.10	58,58,58,58	0
57	MG	1A	3302	1/1	0.96	0.10	33,33,33,33	0
57	MG	2D	301	1/1	0.96	0.10	42,42,42,42	0
57	MG	2A	3387	1/1	0.96	0.06	46,46,46,46	0
57	MG	1a	1692	1/1	0.96	0.07	49,49,49,49	0
57	MG	1A	4012	1/1	0.96	0.11	15,15,15,15	0
57	MG	1a	1694	1/1	0.96	0.12	39,39,39,39	0
57	MG	1A	3792	1/1	0.96	0.07	17,17,17,17	0
57	MG	2D	310	1/1	0.96	0.07	42,42,42,42	0
57	MG	1A	4016	1/1	0.96	0.07	42,42,42,42	0
57	MG	2E	301	1/1	0.96	0.13	59,59,59,59	0
57	MG	1A	4017	1/1	0.96	0.06	51,51,51,51	0
57	MG	2E	304	1/1	0.96	0.08	57,57,57,57	0
57	MG	2A	3053	1/1	0.96	0.07	42,42,42,42	0
57	MG	2A	3055	1/1	0.96	0.10	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3633	1/1	0.96	0.05	39,39,39,39	0
57	MG	1A	3518	1/1	0.96	0.08	53,53,53,53	0
57	MG	1A	3635	1/1	0.96	0.06	20,20,20,20	0
57	MG	2A	3059	1/1	0.96	0.07	41,41,41,41	0
57	MG	1A	3799	1/1	0.96	0.09	43,43,43,43	0
57	MG	1A	4023	1/1	0.96	0.06	53,53,53,53	0
57	MG	2Q	202	1/1	0.96	0.24	55,55,55,55	0
57	MG	2A	3062	1/1	0.96	0.07	48,48,48,48	0
57	MG	1A	3303	1/1	0.96	0.05	31,31,31,31	0
57	MG	1A	3309	1/1	0.96	0.12	33,33,33,33	0
57	MG	1A	3310	1/1	0.96	0.14	34,34,34,34	0
57	MG	2T	202	1/1	0.96	0.09	65,65,65,65	0
57	MG	1A	4028	1/1	0.96	0.10	46,46,46,46	0
57	MG	2T	204	1/1	0.96	0.08	45,45,45,45	0
57	MG	1A	3084	1/1	0.96	0.10	41,41,41,41	0
57	MG	1A	3805	1/1	0.96	0.12	22,22,22,22	0
57	MG	2A	3417	1/1	0.96	0.06	33,33,33,33	0
57	MG	1a	1711	1/1	0.96	0.05	44,44,44,44	0
57	MG	2A	3071	1/1	0.96	0.12	56,56,56,56	0
57	MG	1A	3153	1/1	0.96	0.09	54,54,54,54	0
57	MG	1A	3021	1/1	0.96	0.13	36,36,36,36	0
57	MG	1A	3315	1/1	0.96	0.08	46,46,46,46	0
57	MG	2A	3077	1/1	0.96	0.09	47,47,47,47	0
57	MG	27	101	1/1	0.96	0.19	40,40,40,40	0
57	MG	1A	3316	1/1	0.96	0.10	33,33,33,33	0
57	MG	1a	1718	1/1	0.96	0.05	48,48,48,48	0
57	MG	2A	3080	1/1	0.96	0.07	50,50,50,50	0
57	MG	1a	1719	1/1	0.96	0.05	42,42,42,42	0
57	MG	2a	3004	1/1	0.96	0.16	60,60,60,60	0
57	MG	2a	3006	1/1	0.96	0.07	51,51,51,51	0
57	MG	1A	3158	1/1	0.96	0.19	34,34,34,34	0
57	MG	1B	209	1/1	0.96	0.07	48,48,48,48	0
57	MG	1A	3814	1/1	0.96	0.05	50,50,50,50	0
57	MG	2A	3085	1/1	0.96	0.15	49,49,49,49	0
57	MG	2A	3086	1/1	0.96	0.10	50,50,50,50	0
57	MG	1A	3213	1/1	0.96	0.07	36,36,36,36	0
57	MG	1a	1724	1/1	0.96	0.07	55,55,55,55	0
57	MG	1A	3819	1/1	0.96	0.14	46,46,46,46	0
57	MG	1A	3049	1/1	0.96	0.12	36,36,36,36	0
57	MG	1B	216	1/1	0.96	0.13	45,45,45,45	0
57	MG	1B	217	1/1	0.96	0.08	56,56,56,56	0
57	MG	1a	1730	1/1	0.96	0.08	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3653	1/1	0.96	0.11	28,28,28,28	0
57	MG	2a	3020	1/1	0.96	0.11	46,46,46,46	0
57	MG	2A	3443	1/1	0.96	0.07	39,39,39,39	0
57	MG	2a	3022	1/1	0.96	0.07	49,49,49,49	0
57	MG	1A	3654	1/1	0.96	0.06	28,28,28,28	0
57	MG	1B	220	1/1	0.96	0.07	37,37,37,37	0
57	MG	1A	3160	1/1	0.96	0.10	37,37,37,37	0
57	MG	2A	3448	1/1	0.96	0.06	51,51,51,51	0
57	MG	2A	3103	1/1	0.96	0.08	42,42,42,42	0
57	MG	1B	222	1/1	0.96	0.08	35,35,35,35	0
57	MG	1A	3219	1/1	0.96	0.14	25,25,25,25	0
57	MG	1B	224	1/1	0.96	0.06	44,44,44,44	0
57	MG	1A	3657	1/1	0.96	0.07	50,50,50,50	0
57	MG	1A	3220	1/1	0.96	0.05	43,43,43,43	0
57	MG	1A	3839	1/1	0.96	0.08	59,59,59,59	0
57	MG	2A	3457	1/1	0.96	0.09	48,48,48,48	0
57	MG	1A	3162	1/1	0.96	0.20	32,32,32,32	0
57	MG	1a	1745	1/1	0.96	0.10	59,59,59,59	0
57	MG	2A	3114	1/1	0.96	0.21	55,55,55,55	0
57	MG	2A	3462	1/1	0.96	0.10	62,62,62,62	0
57	MG	1A	3224	1/1	0.96	0.07	53,53,53,53	0
57	MG	1A	3662	1/1	0.96	0.06	34,34,34,34	0
57	MG	2a	3042	1/1	0.96	0.25	60,60,60,60	0
57	MG	1A	3844	1/1	0.96	0.06	43,43,43,43	0
57	MG	1D	304	1/1	0.96	0.09	49,49,49,49	0
57	MG	1D	306	1/1	0.96	0.07	38,38,38,38	0
57	MG	2A	3120	1/1	0.96	0.16	57,57,57,57	0
57	MG	1A	3663	1/1	0.96	0.07	44,44,44,44	0
57	MG	1A	3057	1/1	0.96	0.12	47,47,47,47	0
57	MG	1a	1755	1/1	0.96	0.10	64,64,64,64	0
57	MG	1A	3543	1/1	0.96	0.15	31,31,31,31	0
57	MG	2A	3125	1/1	0.96	0.07	53,53,53,53	0
57	MG	2A	3126	1/1	0.96	0.18	45,45,45,45	0
57	MG	1A	3848	1/1	0.96	0.04	32,32,32,32	0
57	MG	1A	3091	1/1	0.96	0.10	35,35,35,35	0
57	MG	1A	3547	1/1	0.96	0.08	47,47,47,47	0
57	MG	1A	3230	1/1	0.96	0.06	29,29,29,29	0
57	MG	1A	3231	1/1	0.96	0.19	40,40,40,40	0
57	MG	1E	307	1/1	0.96	0.11	25,25,25,25	0
57	MG	1A	3853	1/1	0.96	0.04	36,36,36,36	0
57	MG	2A	3486	1/1	0.96	0.08	53,53,53,53	0
57	MG	1E	309	1/1	0.96	0.09	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1E	310	1/1	0.96	0.07	40,40,40,40	0
57	MG	1A	3673	1/1	0.96	0.06	20,20,20,20	0
57	MG	1A	3674	1/1	0.96	0.20	55,55,55,55	0
57	MG	1A	3167	1/1	0.96	0.09	30,30,30,30	0
57	MG	1A	3858	1/1	0.96	0.07	49,49,49,49	0
57	MG	1A	3859	1/1	0.96	0.04	15,15,15,15	0
57	MG	1A	3442	1/1	0.96	0.06	21,21,21,21	0
57	MG	2A	3148	1/1	0.96	0.10	42,42,42,42	0
57	MG	2A	3497	1/1	0.96	0.05	41,41,41,41	0
57	MG	2A	3149	1/1	0.96	0.20	53,53,53,53	0
57	MG	2a	3073	1/1	0.96	0.05	44,44,44,44	0
57	MG	1A	3861	1/1	0.96	0.11	53,53,53,53	0
57	MG	2a	3075	1/1	0.96	0.20	48,48,48,48	0
57	MG	2a	3076	1/1	0.96	0.14	54,54,54,54	0
57	MG	1A	3443	1/1	0.96	0.05	28,28,28,28	0
57	MG	1A	3093	1/1	0.96	0.11	34,34,34,34	0
57	MG	2A	3155	1/1	0.96	0.05	37,37,37,37	0
57	MG	1A	3003	1/1	0.96	0.04	28,28,28,28	0
57	MG	2a	3081	1/1	0.96	0.09	54,54,54,54	0
57	MG	2A	3157	1/1	0.96	0.09	55,55,55,55	0
57	MG	1A	3558	1/1	0.96	0.06	20,20,20,20	0
57	MG	1A	3682	1/1	0.96	0.07	52,52,52,52	0
57	MG	2a	3085	1/1	0.96	0.26	53,53,53,53	0
57	MG	1a	1782	1/1	0.96	0.10	54,54,54,54	0
57	MG	1A	3171	1/1	0.96	0.12	24,24,24,24	0
57	MG	1A	3872	1/1	0.96	0.12	36,36,36,36	0
57	MG	2A	3164	1/1	0.96	0.12	39,39,39,39	0
57	MG	2A	3515	1/1	0.96	0.09	42,42,42,42	0
57	MG	1A	3684	1/1	0.96	0.06	34,34,34,34	0
57	MG	1Q	202	1/1	0.96	0.11	43,43,43,43	0
57	MG	1Q	203	1/1	0.96	0.07	27,27,27,27	0
57	MG	2a	3095	1/1	0.96	0.24	64,64,64,64	0
57	MG	2a	3096	1/1	0.96	0.27	48,48,48,48	0
57	MG	1A	3237	1/1	0.96	0.11	31,31,31,31	0
57	MG	1A	3686	1/1	0.96	0.11	36,36,36,36	0
57	MG	1R	201	1/1	0.96	0.14	32,32,32,32	0
57	MG	2a	3101	1/1	0.96	0.06	65,65,65,65	0
57	MG	1A	3878	1/1	0.96	0.09	31,31,31,31	0
57	MG	2A	3176	1/1	0.96	0.11	44,44,44,44	0
57	MG	1A	3879	1/1	0.96	0.08	37,37,37,37	0
57	MG	1A	3012	1/1	0.96	0.22	40,40,40,40	0
57	MG	2A	3180	1/1	0.96	0.05	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3451	1/1	0.96	0.07	57,57,57,57	0
57	MG	1T	203	1/1	0.96	0.05	43,43,43,43	0
57	MG	1A	3689	1/1	0.96	0.07	54,54,54,54	0
57	MG	2A	3184	1/1	0.96	0.05	41,41,41,41	0
57	MG	1A	3567	1/1	0.96	0.05	30,30,30,30	0
57	MG	1U	202	1/1	0.96	0.17	27,27,27,27	0
57	MG	2A	3537	1/1	0.96	0.16	52,52,52,52	0
57	MG	1A	3886	1/1	0.96	0.08	22,22,22,22	0
57	MG	1U	206	1/1	0.96	0.10	28,28,28,28	0
57	MG	2A	3191	1/1	0.96	0.08	55,55,55,55	0
57	MG	2a	3121	1/1	0.96	0.11	60,60,60,60	0
57	MG	2A	3542	1/1	0.96	0.10	54,54,54,54	0
57	MG	1A	3452	1/1	0.96	0.10	30,30,30,30	0
57	MG	1V	205	1/1	0.96	0.08	46,46,46,46	0
57	MG	1V	206	1/1	0.96	0.14	56,56,56,56	0
57	MG	1A	3693	1/1	0.96	0.16	57,57,57,57	0
57	MG	2A	3551	1/1	0.96	0.05	63,63,63,63	0
57	MG	1A	3030	1/1	0.96	0.06	21,21,21,21	0
57	MG	2A	3553	1/1	0.96	0.06	63,63,63,63	0
57	MG	1A	3696	1/1	0.96	0.05	55,55,55,55	0
57	MG	1A	3353	1/1	0.96	0.08	37,37,37,37	0
57	MG	2A	3202	1/1	0.96	0.21	56,56,56,56	0
57	MG	1A	3893	1/1	0.96	0.08	35,35,35,35	0
57	MG	1a	1811	1/1	0.96	0.06	68,68,68,68	0
57	MG	10	101	1/1	0.96	0.11	31,31,31,31	0
57	MG	10	103	1/1	0.96	0.07	36,36,36,36	0
57	MG	1A	3174	1/1	0.96	0.13	38,38,38,38	0
57	MG	2a	3142	1/1	0.96	0.06	55,55,55,55	0
57	MG	2A	3567	1/1	0.96	0.06	55,55,55,55	0
57	MG	1a	1815	1/1	0.96	0.14	55,55,55,55	0
57	MG	1A	3895	1/1	0.96	0.05	43,43,43,43	0
57	MG	1A	3356	1/1	0.96	0.06	29,29,29,29	0
57	MG	1a	1818	1/1	0.96	0.08	45,45,45,45	0
57	MG	2a	3150	1/1	0.96	0.12	60,60,60,60	0
57	MG	2A	3215	1/1	0.96	0.07	53,53,53,53	0
57	MG	1A	3574	1/1	0.96	0.08	47,47,47,47	0
57	MG	1a	1821	1/1	0.96	0.06	73,73,73,73	0
57	MG	2a	3155	1/1	0.96	0.09	60,60,60,60	0
57	MG	11	104	1/1	0.96	0.09	47,47,47,47	0
57	MG	1a	1823	1/1	0.96	0.13	64,64,64,64	0
57	MG	2A	3220	1/1	0.96	0.07	47,47,47,47	0
57	MG	2a	3159	1/1	0.96	0.10	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	15	102	1/1	0.96	0.10	27,27,27,27	0
57	MG	1A	3459	1/1	0.96	0.09	50,50,50,50	0
57	MG	1A	3064	1/1	0.96	0.06	35,35,35,35	0
57	MG	1A	3113	1/1	0.96	0.09	26,26,26,26	0
57	MG	2A	3586	1/1	0.96	0.06	48,48,48,48	0
57	MG	1A	3251	1/1	0.96	0.17	38,38,38,38	0
57	MG	17	105	1/1	0.96	0.06	34,34,34,34	0
57	MG	18	101	1/1	0.96	0.09	31,31,31,31	0
57	MG	2a	3169	1/1	0.96	0.06	65,65,65,65	0
57	MG	1A	3252	1/1	0.96	0.08	44,44,44,44	0
57	MG	1A	3909	1/1	0.96	0.07	39,39,39,39	0
57	MG	2A	3593	1/1	0.96	0.08	48,48,48,48	0
57	MG	2A	3231	1/1	0.96	0.15	53,53,53,53	0
57	MG	1A	3465	1/1	0.96	0.04	36,36,36,36	0
57	MG	2a	3176	1/1	0.96	0.09	51,51,51,51	0
57	MG	19	102	1/1	0.96	0.18	46,46,46,46	0
57	MG	2A	3599	1/1	0.96	0.07	49,49,49,49	0
57	MG	2A	3600	1/1	0.96	0.06	41,41,41,41	0
57	MG	19	103	1/1	0.96	0.06	55,55,55,55	0
57	MG	2A	3236	1/1	0.96	0.08	39,39,39,39	0
57	MG	1a	1602	1/1	0.96	0.09	41,41,41,41	0
57	MG	1a	1603	1/1	0.96	0.07	66,66,66,66	0
57	MG	1A	3466	1/1	0.96	0.07	39,39,39,39	0
57	MG	1A	3065	1/1	0.96	0.06	53,53,53,53	0
57	MG	2a	3188	1/1	0.96	0.10	58,58,58,58	0
57	MG	1A	3918	1/1	0.96	0.09	21,21,21,21	0
57	MG	2A	3243	1/1	0.96	0.08	49,49,49,49	0
57	MG	1A	3368	1/1	0.96	0.05	32,32,32,32	0
57	MG	1a	1844	1/1	0.96	0.06	64,64,64,64	0
57	MG	1A	3254	1/1	0.96	0.14	33,33,33,33	0
57	MG	1A	3370	1/1	0.96	0.07	27,27,27,27	0
57	MG	1A	3372	1/1	0.96	0.05	28,28,28,28	0
57	MG	1A	3722	1/1	0.96	0.05	38,38,38,38	0
57	MG	2p	101	1/1	0.96	0.06	37,37,37,37	0
57	MG	2A	3250	1/1	0.96	0.20	55,55,55,55	0
57	MG	1A	3928	1/1	0.96	0.08	45,45,45,45	0
57	MG	1A	3931	1/1	0.96	0.13	33,33,33,33	0
57	MG	1A	3723	1/1	0.96	0.06	39,39,39,39	0
57	MG	2A	3256	1/1	0.96	0.10	54,54,54,54	0
57	MG	1A	3182	1/1	0.96	0.26	36,36,36,36	0
57	MG	1A	3183	1/1	0.96	0.07	31,31,31,31	0
57	MG	1A	3260	1/1	0.96	0.13	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3121	1/1	0.96	0.05	25,25,25,25	0
57	MG	2A	3262	1/1	0.96	0.29	49,49,49,49	0
57	MG	1A	3939	1/1	0.96	0.05	47,47,47,47	0
57	MG	1A	3940	1/1	0.96	0.08	50,50,50,50	0
57	MG	1a	1624	1/1	0.96	0.07	41,41,41,41	0
57	MG	2A	3390	1/1	0.97	0.06	52,52,52,52	0
57	MG	1A	3755	1/1	0.97	0.10	38,38,38,38	0
57	MG	2A	3111	1/1	0.97	0.09	63,63,63,63	0
57	MG	1A	3305	1/1	0.97	0.07	39,39,39,39	0
57	MG	1A	3115	1/1	0.97	0.13	41,41,41,41	0
57	MG	1A	3935	1/1	0.97	0.10	30,30,30,30	0
57	MG	1A	3226	1/1	0.97	0.14	31,31,31,31	0
57	MG	1A	3116	1/1	0.97	0.12	32,32,32,32	0
57	MG	1A	3411	1/1	0.97	0.14	25,25,25,25	0
57	MG	1A	3079	1/1	0.97	0.14	41,41,41,41	0
57	MG	11	101	1/1	0.97	0.12	37,37,37,37	0
57	MG	1A	3764	1/1	0.97	0.07	64,64,64,64	0
57	MG	11	103	1/1	0.97	0.08	37,37,37,37	0
57	MG	1A	3943	1/1	0.97	0.05	29,29,29,29	0
57	MG	11	105	1/1	0.97	0.07	28,28,28,28	0
57	MG	13	102	1/1	0.97	0.08	58,58,58,58	0
57	MG	15	101	1/1	0.97	0.07	29,29,29,29	0
57	MG	1A	3765	1/1	0.97	0.08	21,21,21,21	0
57	MG	1a	1801	1/1	0.97	0.06	52,52,52,52	0
57	MG	1A	3119	1/1	0.97	0.06	28,28,28,28	0
57	MG	2A	3413	1/1	0.97	0.04	42,42,42,42	0
57	MG	1A	3414	1/1	0.97	0.06	17,17,17,17	0
57	MG	1A	3314	1/1	0.97	0.24	33,33,33,33	0
57	MG	17	101	1/1	0.97	0.10	38,38,38,38	0
57	MG	17	103	1/1	0.97	0.15	33,33,33,33	0
57	MG	1A	3040	1/1	0.97	0.08	33,33,33,33	0
57	MG	1A	3519	1/1	0.97	0.06	39,39,39,39	0
57	MG	1A	3771	1/1	0.97	0.10	36,36,36,36	0
57	MG	2A	3140	1/1	0.97	0.19	47,47,47,47	0
57	MG	1A	3175	1/1	0.97	0.10	19,19,19,19	0
57	MG	1A	3773	1/1	0.97	0.05	32,32,32,32	0
57	MG	1A	3317	1/1	0.97	0.09	31,31,31,31	0
57	MG	1A	3954	1/1	0.97	0.05	47,47,47,47	0
57	MG	1A	3775	1/1	0.97	0.04	42,42,42,42	0
57	MG	1a	1601	1/1	0.97	0.06	46,46,46,46	0
57	MG	1A	3124	1/1	0.97	0.08	36,36,36,36	0
57	MG	1A	3081	1/1	0.97	0.10	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3958	1/1	0.97	0.05	48,48,48,48	0
57	MG	2A	3152	1/1	0.97	0.16	46,46,46,46	0
57	MG	1A	3004	1/1	0.97	0.10	45,45,45,45	0
57	MG	1a	1820	1/1	0.97	0.12	62,62,62,62	0
57	MG	2A	3436	1/1	0.97	0.12	58,58,58,58	0
57	MG	1A	3424	1/1	0.97	0.08	55,55,55,55	0
57	MG	1a	1607	1/1	0.97	0.08	50,50,50,50	0
57	MG	1A	3326	1/1	0.97	0.06	35,35,35,35	0
57	MG	1A	3328	1/1	0.97	0.10	34,34,34,34	0
57	MG	2A	3159	1/1	0.97	0.07	33,33,33,33	0
57	MG	1A	3964	1/1	0.97	0.05	50,50,50,50	0
57	MG	1A	3329	1/1	0.97	0.06	43,43,43,43	0
57	MG	2A	3445	1/1	0.97	0.04	48,48,48,48	0
57	MG	1A	3966	1/1	0.97	0.12	47,47,47,47	0
57	MG	2D	306	1/1	0.97	0.11	38,38,38,38	0
57	MG	2D	307	1/1	0.97	0.12	42,42,42,42	0
57	MG	1a	1613	1/1	0.97	0.14	37,37,37,37	0
57	MG	1A	3530	1/1	0.97	0.07	37,37,37,37	0
57	MG	1A	3784	1/1	0.97	0.08	40,40,40,40	0
57	MG	2A	3167	1/1	0.97	0.25	43,43,43,43	0
57	MG	1A	3236	1/1	0.97	0.20	27,27,27,27	0
57	MG	1A	3786	1/1	0.97	0.04	24,24,24,24	0
57	MG	2E	303	1/1	0.97	0.06	45,45,45,45	0
57	MG	1A	3971	1/1	0.97	0.07	65,65,65,65	0
57	MG	1A	3044	1/1	0.97	0.07	22,22,22,22	0
57	MG	2F	302	1/1	0.97	0.06	43,43,43,43	0
57	MG	1a	1620	1/1	0.97	0.06	56,56,56,56	0
57	MG	2F	304	1/1	0.97	0.18	49,49,49,49	0
57	MG	1A	3062	1/1	0.97	0.06	33,33,33,33	0
57	MG	1A	3649	1/1	0.97	0.10	41,41,41,41	0
57	MG	2I	201	1/1	0.97	0.09	52,52,52,52	0
57	MG	1A	3976	1/1	0.97	0.10	32,32,32,32	0
57	MG	2O	201	1/1	0.97	0.08	47,47,47,47	0
57	MG	1A	3650	1/1	0.97	0.10	37,37,37,37	0
57	MG	2A	3179	1/1	0.97	0.07	49,49,49,49	0
57	MG	2A	3463	1/1	0.97	0.05	32,32,32,32	0
57	MG	2Q	201	1/1	0.97	0.05	46,46,46,46	0
57	MG	1A	3534	1/1	0.97	0.04	44,44,44,44	0
57	MG	1A	3979	1/1	0.97	0.20	41,41,41,41	0
57	MG	1A	3240	1/1	0.97	0.19	36,36,36,36	0
57	MG	1A	3793	1/1	0.97	0.09	44,44,44,44	0
57	MG	2R	203	1/1	0.97	0.13	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3468	1/1	0.97	0.06	61,61,61,61	0
57	MG	1A	3794	1/1	0.97	0.09	35,35,35,35	0
57	MG	2A	3185	1/1	0.97	0.18	53,53,53,53	0
57	MG	1a	1847	1/1	0.97	0.07	64,64,64,64	0
57	MG	1A	3241	1/1	0.97	0.09	31,31,31,31	0
57	MG	1A	3984	1/1	0.97	0.07	25,25,25,25	0
57	MG	2V	203	1/1	0.97	0.08	53,53,53,53	0
57	MG	1A	3796	1/1	0.97	0.07	43,43,43,43	0
57	MG	1A	3340	1/1	0.97	0.04	32,32,32,32	0
57	MG	2Y	201	1/1	0.97	0.11	45,45,45,45	0
57	MG	20	101	1/1	0.97	0.06	46,46,46,46	0
57	MG	2A	3192	1/1	0.97	0.07	45,45,45,45	0
57	MG	1A	3539	1/1	0.97	0.05	19,19,19,19	0
57	MG	1A	3013	1/1	0.97	0.09	18,18,18,18	0
57	MG	25	102	1/1	0.97	0.11	41,41,41,41	0
57	MG	1A	3036	1/1	0.97	0.07	28,28,28,28	0
57	MG	1A	3658	1/1	0.97	0.05	46,46,46,46	0
57	MG	1A	3991	1/1	0.97	0.07	52,52,52,52	0
57	MG	1A	3802	1/1	0.97	0.04	25,25,25,25	0
57	MG	1A	3542	1/1	0.97	0.05	24,24,24,24	0
57	MG	1A	3187	1/1	0.97	0.06	31,31,31,31	0
57	MG	1a	1862	1/1	0.97	0.07	46,46,46,46	0
57	MG	1A	3996	1/1	0.97	0.07	38,38,38,38	0
57	MG	2a	3005	1/1	0.97	0.07	52,52,52,52	0
57	MG	1A	3048	1/1	0.97	0.03	23,23,23,23	0
57	MG	1A	3998	1/1	0.97	0.04	38,38,38,38	0
57	MG	1A	3545	1/1	0.97	0.14	45,45,45,45	0
57	MG	1a	1868	1/1	0.97	0.08	46,46,46,46	0
57	MG	1A	3808	1/1	0.97	0.10	48,48,48,48	0
57	MG	1A	3250	1/1	0.97	0.21	35,35,35,35	0
57	MG	2A	3212	1/1	0.97	0.10	47,47,47,47	0
57	MG	2A	3213	1/1	0.97	0.05	38,38,38,38	0
57	MG	1A	3137	1/1	0.97	0.15	30,30,30,30	0
57	MG	1A	3665	1/1	0.97	0.06	28,28,28,28	0
57	MG	2A	3500	1/1	0.97	0.06	31,31,31,31	0
57	MG	1A	3089	1/1	0.97	0.06	34,34,34,34	0
57	MG	1a	1656	1/1	0.97	0.06	45,45,45,45	0
57	MG	1A	4005	1/1	0.97	0.05	45,45,45,45	0
57	MG	1A	3813	1/1	0.97	0.05	61,61,61,61	0
57	MG	1A	3090	1/1	0.97	0.07	42,42,42,42	0
57	MG	1A	3815	1/1	0.97	0.05	32,32,32,32	0
57	MG	1A	3349	1/1	0.97	0.05	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3192	1/1	0.97	0.12	32,32,32,32	0
57	MG	1A	4013	1/1	0.97	0.12	44,44,44,44	0
57	MG	2A	3512	1/1	0.97	0.07	47,47,47,47	0
57	MG	1A	3820	1/1	0.97	0.05	52,52,52,52	0
57	MG	1A	4015	1/1	0.97	0.04	29,29,29,29	0
57	MG	1A	3447	1/1	0.97	0.07	49,49,49,49	0
57	MG	2A	3228	1/1	0.97	0.07	54,54,54,54	0
57	MG	1A	3825	1/1	0.97	0.11	24,24,24,24	0
57	MG	2A	3519	1/1	0.97	0.06	46,46,46,46	0
57	MG	1A	3193	1/1	0.97	0.09	30,30,30,30	0
57	MG	1A	3829	1/1	0.97	0.12	37,37,37,37	0
57	MG	1A	3556	1/1	0.97	0.06	17,17,17,17	0
57	MG	1A	3557	1/1	0.97	0.04	31,31,31,31	0
57	MG	2A	3234	1/1	0.97	0.20	50,50,50,50	0
57	MG	1A	3258	1/1	0.97	0.10	42,42,42,42	0
57	MG	1A	3038	1/1	0.97	0.08	34,34,34,34	0
57	MG	2A	3237	1/1	0.97	0.16	48,48,48,48	0
57	MG	1A	3678	1/1	0.97	0.04	40,40,40,40	0
57	MG	1A	3836	1/1	0.97	0.05	33,33,33,33	0
57	MG	1A	3354	1/1	0.97	0.06	25,25,25,25	0
57	MG	2A	3531	1/1	0.97	0.07	48,48,48,48	0
57	MG	1A	3092	1/1	0.97	0.16	28,28,28,28	0
57	MG	1A	3050	1/1	0.97	0.06	38,38,38,38	0
57	MG	1A	3566	1/1	0.97	0.11	18,18,18,18	0
57	MG	1a	1681	1/1	0.97	0.07	48,48,48,48	0
57	MG	1A	3262	1/1	0.97	0.15	28,28,28,28	0
57	MG	1A	3455	1/1	0.97	0.04	14,14,14,14	0
57	MG	1A	3263	1/1	0.97	0.05	33,33,33,33	0
57	MG	1A	3457	1/1	0.97	0.08	34,34,34,34	0
57	MG	1B	208	1/1	0.97	0.05	41,41,41,41	0
57	MG	1A	3571	1/1	0.97	0.09	41,41,41,41	0
57	MG	2A	3544	1/1	0.97	0.11	43,43,43,43	0
57	MG	2A	3545	1/1	0.97	0.08	34,34,34,34	0
57	MG	1A	3265	1/1	0.97	0.05	54,54,54,54	0
57	MG	1y	202	1/1	0.97	0.07	51,51,51,51	0
57	MG	1B	211	1/1	0.97	0.09	42,42,42,42	0
57	MG	1A	3362	1/1	0.97	0.06	41,41,41,41	0
57	MG	2A	3257	1/1	0.97	0.08	41,41,41,41	0
57	MG	1A	3690	1/1	0.97	0.06	42,42,42,42	0
57	MG	1A	3364	1/1	0.97	0.06	20,20,20,20	0
57	MG	1A	3266	1/1	0.97	0.14	34,34,34,34	0
57	MG	1A	3145	1/1	0.97	0.05	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3557	1/1	0.97	0.08	41,41,41,41	0
57	MG	1A	3147	1/1	0.97	0.12	49,49,49,49	0
57	MG	2A	3264	1/1	0.97	0.07	48,48,48,48	0
57	MG	1A	3094	1/1	0.97	0.05	25,25,25,25	0
57	MG	2A	3563	1/1	0.97	0.06	49,49,49,49	0
57	MG	2A	3006	1/1	0.97	0.06	43,43,43,43	0
57	MG	1A	3096	1/1	0.97	0.08	46,46,46,46	0
57	MG	1A	3051	1/1	0.97	0.16	35,35,35,35	0
57	MG	2A	3010	1/1	0.97	0.07	52,52,52,52	0
57	MG	1A	3154	1/1	0.97	0.20	28,28,28,28	0
57	MG	2A	3013	1/1	0.97	0.05	27,27,27,27	0
57	MG	1A	3701	1/1	0.97	0.05	37,37,37,37	0
57	MG	2A	3015	1/1	0.97	0.09	34,34,34,34	0
57	MG	1A	3204	1/1	0.97	0.06	40,40,40,40	0
57	MG	1A	3472	1/1	0.97	0.05	42,42,42,42	0
57	MG	1A	3473	1/1	0.97	0.06	51,51,51,51	0
57	MG	2A	3578	1/1	0.97	0.05	55,55,55,55	0
57	MG	2A	3020	1/1	0.97	0.10	45,45,45,45	0
57	MG	1A	3375	1/1	0.97	0.04	16,16,16,16	0
57	MG	1A	3707	1/1	0.97	0.06	45,45,45,45	0
57	MG	1A	3274	1/1	0.97	0.15	26,26,26,26	0
57	MG	1A	3709	1/1	0.97	0.11	42,42,42,42	0
57	MG	1A	3155	1/1	0.97	0.07	31,31,31,31	0
57	MG	1a	1712	1/1	0.97	0.10	44,44,44,44	0
57	MG	2a	3092	1/1	0.97	0.09	53,53,53,53	0
57	MG	1A	3589	1/1	0.97	0.15	30,30,30,30	0
57	MG	2A	3030	1/1	0.97	0.06	38,38,38,38	0
57	MG	2A	3589	1/1	0.97	0.04	48,48,48,48	0
57	MG	2A	3291	1/1	0.97	0.06	37,37,37,37	0
57	MG	1A	3876	1/1	0.97	0.06	45,45,45,45	0
57	MG	1D	312	1/1	0.97	0.14	23,23,23,23	0
57	MG	1A	3072	1/1	0.97	0.05	30,30,30,30	0
57	MG	1A	3380	1/1	0.97	0.05	22,22,22,22	0
57	MG	2A	3036	1/1	0.97	0.12	41,41,41,41	0
57	MG	1A	3715	1/1	0.97	0.12	47,47,47,47	0
57	MG	2a	3104	1/1	0.97	0.05	55,55,55,55	0
57	MG	2A	3598	1/1	0.97	0.04	48,48,48,48	0
57	MG	1A	3278	1/1	0.97	0.10	42,42,42,42	0
57	MG	2A	3300	1/1	0.97	0.05	40,40,40,40	0
57	MG	1D	317	1/1	0.97	0.04	38,38,38,38	0
57	MG	1A	3717	1/1	0.97	0.12	38,38,38,38	0
57	MG	2A	3041	1/1	0.97	0.14	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3604	1/1	0.97	0.06	41,41,41,41	0
57	MG	1A	3883	1/1	0.97	0.07	39,39,39,39	0
57	MG	2a	3115	1/1	0.97	0.07	51,51,51,51	0
57	MG	1A	3207	1/1	0.97	0.13	39,39,39,39	0
57	MG	1A	3281	1/1	0.97	0.08	48,48,48,48	0
57	MG	1A	3102	1/1	0.97	0.06	46,46,46,46	0
57	MG	1A	3386	1/1	0.97	0.04	24,24,24,24	0
57	MG	1A	3105	1/1	0.97	0.05	29,29,29,29	0
57	MG	2A	3311	1/1	0.97	0.14	52,52,52,52	0
57	MG	1A	3486	1/1	0.97	0.05	19,19,19,19	0
57	MG	2A	3614	1/1	0.97	0.06	26,26,26,26	0
57	MG	2A	3050	1/1	0.97	0.04	43,43,43,43	0
57	MG	1F	301	1/1	0.97	0.05	26,26,26,26	0
57	MG	2A	3052	1/1	0.97	0.10	51,51,51,51	0
57	MG	1A	3106	1/1	0.97	0.06	30,30,30,30	0
57	MG	2A	3054	1/1	0.97	0.04	38,38,38,38	0
57	MG	1F	309	1/1	0.97	0.06	35,35,35,35	0
57	MG	1a	1734	1/1	0.97	0.15	47,47,47,47	0
57	MG	2A	3321	1/1	0.97	0.08	47,47,47,47	0
57	MG	1a	1735	1/1	0.97	0.04	49,49,49,49	0
57	MG	2a	3134	1/1	0.97	0.10	66,66,66,66	0
57	MG	1A	3056	1/1	0.97	0.07	41,41,41,41	0
57	MG	1A	3727	1/1	0.97	0.07	39,39,39,39	0
57	MG	1A	3490	1/1	0.97	0.12	45,45,45,45	0
57	MG	2A	3327	1/1	0.97	0.08	56,56,56,56	0
57	MG	1F	313	1/1	0.97	0.07	31,31,31,31	0
57	MG	2A	3329	1/1	0.97	0.10	53,53,53,53	0
57	MG	1A	3291	1/1	0.97	0.08	49,49,49,49	0
57	MG	1F	315	1/1	0.97	0.09	46,46,46,46	0
57	MG	1A	3732	1/1	0.97	0.18	28,28,28,28	0
57	MG	1A	3897	1/1	0.97	0.05	47,47,47,47	0
57	MG	2A	3636	1/1	0.97	0.08	64,64,64,64	0
57	MG	1A	3604	1/1	0.97	0.07	44,44,44,44	0
57	MG	2a	3151	1/1	0.97	0.06	68,68,68,68	0
57	MG	1G	204	1/1	0.97	0.07	45,45,45,45	0
57	MG	2A	3338	1/1	0.97	0.08	46,46,46,46	0
57	MG	1A	3899	1/1	0.97	0.09	37,37,37,37	0
57	MG	2A	3340	1/1	0.97	0.07	59,59,59,59	0
57	MG	1A	3605	1/1	0.97	0.06	44,44,44,44	0
57	MG	1A	3391	1/1	0.97	0.05	37,37,37,37	0
57	MG	2A	3649	1/1	0.97	0.16	49,49,49,49	0
57	MG	2A	3344	1/1	0.97	0.09	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3345	1/1	0.97	0.06	35,35,35,35	0
57	MG	2A	3072	1/1	0.97	0.10	32,32,32,32	0
57	MG	1A	3163	1/1	0.97	0.11	36,36,36,36	0
57	MG	2A	3657	1/1	0.97	0.07	51,51,51,51	0
57	MG	1A	3903	1/1	0.97	0.06	45,45,45,45	0
57	MG	1P	202	1/1	0.97	0.07	25,25,25,25	0
57	MG	1A	3904	1/1	0.97	0.12	33,33,33,33	0
57	MG	1A	3164	1/1	0.97	0.08	29,29,29,29	0
57	MG	1a	1757	1/1	0.97	0.07	57,57,57,57	0
57	MG	2A	3663	1/1	0.97	0.07	38,38,38,38	0
57	MG	2A	3664	1/1	0.97	0.08	38,38,38,38	0
57	MG	1Q	201	1/1	0.97	0.05	29,29,29,29	0
57	MG	2a	3173	1/1	0.97	0.06	63,63,63,63	0
57	MG	2A	3356	1/1	0.97	0.07	46,46,46,46	0
57	MG	1A	3215	1/1	0.97	0.06	27,27,27,27	0
57	MG	2A	3668	1/1	0.97	0.06	63,63,63,63	0
57	MG	2A	3670	1/1	0.97	0.05	41,41,41,41	0
57	MG	1A	3908	1/1	0.97	0.04	41,41,41,41	0
57	MG	1A	3740	1/1	0.97	0.06	38,38,38,38	0
57	MG	1A	3217	1/1	0.97	0.18	30,30,30,30	0
57	MG	2A	3674	1/1	0.97	0.05	44,44,44,44	0
57	MG	2A	3675	1/1	0.97	0.05	42,42,42,42	0
57	MG	1A	3077	1/1	0.97	0.14	28,28,28,28	0
57	MG	1A	3300	1/1	0.97	0.11	32,32,32,32	0
57	MG	2A	3087	1/1	0.97	0.10	41,41,41,41	0
57	MG	2A	3089	1/1	0.97	0.14	48,48,48,48	0
57	MG	1R	203	1/1	0.97	0.09	45,45,45,45	0
57	MG	1A	3917	1/1	0.97	0.05	39,39,39,39	0
57	MG	1A	3744	1/1	0.97	0.06	41,41,41,41	0
57	MG	1A	3110	1/1	0.97	0.09	25,25,25,25	0
57	MG	1a	1770	1/1	0.97	0.08	51,51,51,51	0
57	MG	1A	3023	1/1	0.97	0.10	33,33,33,33	0
57	MG	1A	3400	1/1	0.97	0.07	27,27,27,27	0
57	MG	1A	3922	1/1	0.97	0.06	37,37,37,37	0
57	MG	2k	202	1/1	0.97	0.06	58,58,58,58	0
57	MG	1A	3402	1/1	0.97	0.06	18,18,18,18	0
57	MG	1A	3924	1/1	0.97	0.05	28,28,28,28	0
57	MG	2A	3379	1/1	0.97	0.08	40,40,40,40	0
57	MG	2A	3380	1/1	0.97	0.14	60,60,60,60	0
57	MG	1A	3750	1/1	0.97	0.05	49,49,49,49	0
57	MG	1U	208	1/1	0.97	0.10	30,30,30,30	0
57	MG	1A	3926	1/1	0.97	0.07	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3927	1/1	0.97	0.11	22,22,22,22	0
57	MG	1A	3114	1/1	0.97	0.07	30,30,30,30	0
57	MG	2A	3386	1/1	0.97	0.06	35,35,35,35	0
57	MG	1A	3930	1/1	0.97	0.12	38,38,38,38	0
57	MG	2A	3702	1/1	0.97	0.07	53,53,53,53	0
60	ZN	14	501	1/1	0.97	0.12	101,101,101,101	0
57	MG	2A	3388	1/1	0.97	0.09	46,46,46,46	0
57	MG	1A	3619	1/1	0.97	0.13	52,52,52,52	0
57	MG	2A	3265	1/1	0.98	0.12	27,27,27,27	0
57	MG	1A	3136	1/1	0.98	0.04	33,33,33,33	0
57	MG	1A	3243	1/1	0.98	0.06	24,24,24,24	0
57	MG	1A	3608	1/1	0.98	0.04	21,21,21,21	0
57	MG	1A	3095	1/1	0.98	0.03	14,14,14,14	0
57	MG	2A	3503	1/1	0.98	0.08	52,52,52,52	0
57	MG	2A	3270	1/1	0.98	0.17	44,44,44,44	0
57	MG	2A	3271	1/1	0.98	0.05	26,26,26,26	0
57	MG	1A	4008	1/1	0.98	0.05	55,55,55,55	0
57	MG	1A	4009	1/1	0.98	0.06	43,43,43,43	0
57	MG	1A	3033	1/1	0.98	0.07	29,29,29,29	0
57	MG	1A	3406	1/1	0.98	0.07	52,52,52,52	0
57	MG	1A	3865	1/1	0.98	0.07	28,28,28,28	0
57	MG	1A	3730	1/1	0.98	0.20	26,26,26,26	0
57	MG	1A	3867	1/1	0.98	0.07	40,40,40,40	0
57	MG	1A	3318	1/1	0.98	0.03	16,16,16,16	0
57	MG	2A	3069	1/1	0.98	0.05	38,38,38,38	0
57	MG	1A	3869	1/1	0.98	0.05	34,34,34,34	0
57	MG	1A	3319	1/1	0.98	0.26	29,29,29,29	0
57	MG	1A	3409	1/1	0.98	0.06	20,20,20,20	0
57	MG	1A	3410	1/1	0.98	0.07	26,26,26,26	0
57	MG	2A	3074	1/1	0.98	0.07	30,30,30,30	0
57	MG	1A	4020	1/1	0.98	0.04	54,54,54,54	0
57	MG	2A	3288	1/1	0.98	0.11	52,52,52,52	0
57	MG	1A	3509	1/1	0.98	0.04	29,29,29,29	0
57	MG	1A	3017	1/1	0.98	0.12	28,28,28,28	0
57	MG	1a	1796	1/1	0.98	0.05	45,45,45,45	0
57	MG	1A	3737	1/1	0.98	0.04	27,27,27,27	0
57	MG	1A	3247	1/1	0.98	0.11	25,25,25,25	0
57	MG	2A	3294	1/1	0.98	0.05	34,34,34,34	0
57	MG	2R	201	1/1	0.98	0.09	46,46,46,46	0
57	MG	1A	3322	1/1	0.98	0.05	27,27,27,27	0
57	MG	1A	3513	1/1	0.98	0.10	20,20,20,20	0
57	MG	1A	4027	1/1	0.98	0.15	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3248	1/1	0.98	0.11	39,39,39,39	0
57	MG	1A	3415	1/1	0.98	0.05	26,26,26,26	0
57	MG	1A	3099	1/1	0.98	0.05	43,43,43,43	0
57	MG	2U	201	1/1	0.98	0.22	48,48,48,48	0
57	MG	2A	3535	1/1	0.98	0.07	55,55,55,55	0
57	MG	1A	3624	1/1	0.98	0.08	55,55,55,55	0
57	MG	2A	3302	1/1	0.98	0.05	50,50,50,50	0
57	MG	1A	3327	1/1	0.98	0.10	42,42,42,42	0
57	MG	1a	1627	1/1	0.98	0.06	50,50,50,50	0
57	MG	1A	3141	1/1	0.98	0.17	35,35,35,35	0
57	MG	1A	3887	1/1	0.98	0.03	38,38,38,38	0
57	MG	1A	3747	1/1	0.98	0.05	34,34,34,34	0
57	MG	1A	3073	1/1	0.98	0.04	32,32,32,32	0
57	MG	2A	3095	1/1	0.98	0.06	51,51,51,51	0
57	MG	1a	1632	1/1	0.98	0.13	47,47,47,47	0
57	MG	2A	3548	1/1	0.98	0.05	44,44,44,44	0
57	MG	1A	3420	1/1	0.98	0.04	32,32,32,32	0
57	MG	1A	3143	1/1	0.98	0.05	18,18,18,18	0
57	MG	1A	3751	1/1	0.98	0.05	30,30,30,30	0
57	MG	1A	3074	1/1	0.98	0.04	32,32,32,32	0
57	MG	2A	3315	1/1	0.98	0.05	36,36,36,36	0
57	MG	1A	3332	1/1	0.98	0.04	37,37,37,37	0
57	MG	2A	3102	1/1	0.98	0.14	50,50,50,50	0
57	MG	1B	214	1/1	0.98	0.06	37,37,37,37	0
57	MG	1A	3333	1/1	0.98	0.07	19,19,19,19	0
57	MG	1A	3035	1/1	0.98	0.11	44,44,44,44	0
57	MG	1A	3335	1/1	0.98	0.06	23,23,23,23	0
57	MG	2A	3560	1/1	0.98	0.04	60,60,60,60	0
57	MG	2A	3561	1/1	0.98	0.04	26,26,26,26	0
57	MG	2A	3322	1/1	0.98	0.06	36,36,36,36	0
57	MG	1A	3076	1/1	0.98	0.10	29,29,29,29	0
57	MG	1A	3760	1/1	0.98	0.10	42,42,42,42	0
57	MG	1A	3428	1/1	0.98	0.04	26,26,26,26	0
57	MG	2A	3566	1/1	0.98	0.07	66,66,66,66	0
57	MG	1A	3256	1/1	0.98	0.12	35,35,35,35	0
57	MG	1A	3339	1/1	0.98	0.10	23,23,23,23	0
57	MG	1A	3641	1/1	0.98	0.06	42,42,42,42	0
57	MG	1a	1650	1/1	0.98	0.13	53,53,53,53	0
57	MG	2A	3330	1/1	0.98	0.12	51,51,51,51	0
57	MG	1A	3257	1/1	0.98	0.08	40,40,40,40	0
57	MG	1a	1830	1/1	0.98	0.08	57,57,57,57	0
57	MG	2A	3575	1/1	0.98	0.10	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3643	1/1	0.98	0.07	32,32,32,32	0
57	MG	1A	3149	1/1	0.98	0.09	33,33,33,33	0
57	MG	1A	3052	1/1	0.98	0.07	26,26,26,26	0
57	MG	2A	3579	1/1	0.98	0.06	44,44,44,44	0
57	MG	1A	3151	1/1	0.98	0.05	33,33,33,33	0
57	MG	1A	3536	1/1	0.98	0.05	23,23,23,23	0
57	MG	1a	1657	1/1	0.98	0.07	51,51,51,51	0
57	MG	1A	3911	1/1	0.98	0.06	44,44,44,44	0
57	MG	1D	302	1/1	0.98	0.06	32,32,32,32	0
57	MG	1A	3912	1/1	0.98	0.04	31,31,31,31	0
57	MG	2A	3343	1/1	0.98	0.11	37,37,37,37	0
57	MG	1A	3108	1/1	0.98	0.08	29,29,29,29	0
57	MG	2a	3036	1/1	0.98	0.08	46,46,46,46	0
57	MG	2A	3127	1/1	0.98	0.07	42,42,42,42	0
57	MG	1a	1841	1/1	0.98	0.05	54,54,54,54	0
57	MG	1D	305	1/1	0.98	0.10	28,28,28,28	0
57	MG	1A	3053	1/1	0.98	0.12	29,29,29,29	0
57	MG	1D	307	1/1	0.98	0.10	41,41,41,41	0
57	MG	1D	309	1/1	0.98	0.05	36,36,36,36	0
57	MG	1D	310	1/1	0.98	0.10	31,31,31,31	0
57	MG	1D	311	1/1	0.98	0.13	42,42,42,42	0
57	MG	1A	3916	1/1	0.98	0.06	54,54,54,54	0
57	MG	1A	3054	1/1	0.98	0.12	33,33,33,33	0
57	MG	2A	3139	1/1	0.98	0.10	53,53,53,53	0
57	MG	2A	3358	1/1	0.98	0.05	38,38,38,38	0
57	MG	1A	3264	1/1	0.98	0.08	32,32,32,32	0
57	MG	1A	3439	1/1	0.98	0.07	37,37,37,37	0
57	MG	2A	3142	1/1	0.98	0.05	40,40,40,40	0
57	MG	1A	3112	1/1	0.98	0.10	29,29,29,29	0
57	MG	1A	3024	1/1	0.98	0.03	14,14,14,14	0
57	MG	1a	1854	1/1	0.98	0.06	49,49,49,49	0
57	MG	1A	3157	1/1	0.98	0.15	37,37,37,37	0
57	MG	1E	301	1/1	0.98	0.05	42,42,42,42	0
57	MG	2a	3057	1/1	0.98	0.08	57,57,57,57	0
57	MG	1E	302	1/1	0.98	0.11	36,36,36,36	0
57	MG	1E	303	1/1	0.98	0.05	32,32,32,32	0
57	MG	2A	3150	1/1	0.98	0.04	52,52,52,52	0
57	MG	1A	3037	1/1	0.98	0.04	34,34,34,34	0
57	MG	2A	3613	1/1	0.98	0.08	50,50,50,50	0
57	MG	1A	3546	1/1	0.98	0.04	25,25,25,25	0
57	MG	1A	3025	1/1	0.98	0.10	35,35,35,35	0
57	MG	2A	3373	1/1	0.98	0.04	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3445	1/1	0.98	0.04	12,12,12,12	0
57	MG	2A	3618	1/1	0.98	0.06	60,60,60,60	0
57	MG	1A	3209	1/1	0.98	0.11	44,44,44,44	0
57	MG	2A	3620	1/1	0.98	0.06	46,46,46,46	0
57	MG	2A	3376	1/1	0.98	0.05	47,47,47,47	0
57	MG	1A	3026	1/1	0.98	0.18	25,25,25,25	0
57	MG	1a	1684	1/1	0.98	0.05	48,48,48,48	0
57	MG	1A	3161	1/1	0.98	0.09	22,22,22,22	0
57	MG	1A	3019	1/1	0.98	0.10	20,20,20,20	0
57	MG	1F	304	1/1	0.98	0.07	36,36,36,36	0
57	MG	1F	306	1/1	0.98	0.10	24,24,24,24	0
57	MG	1A	3357	1/1	0.98	0.06	37,37,37,37	0
57	MG	1A	3554	1/1	0.98	0.21	21,21,21,21	0
57	MG	1A	3358	1/1	0.98	0.04	23,23,23,23	0
57	MG	1A	3667	1/1	0.98	0.12	42,42,42,42	0
57	MG	1A	3118	1/1	0.98	0.14	21,21,21,21	0
57	MG	2A	3168	1/1	0.98	0.15	36,36,36,36	0
57	MG	1A	3937	1/1	0.98	0.10	53,53,53,53	0
57	MG	1A	3275	1/1	0.98	0.16	25,25,25,25	0
57	MG	1A	3085	1/1	0.98	0.17	29,29,29,29	0
57	MG	1a	1697	1/1	0.98	0.10	55,55,55,55	0
57	MG	1A	3671	1/1	0.98	0.08	29,29,29,29	0
57	MG	1A	3560	1/1	0.98	0.03	32,32,32,32	0
57	MG	2A	3175	1/1	0.98	0.09	43,43,43,43	0
57	MG	1A	3120	1/1	0.98	0.08	17,17,17,17	0
57	MG	2A	3642	1/1	0.98	0.04	49,49,49,49	0
57	MG	1G	203	1/1	0.98	0.06	58,58,58,58	0
57	MG	2A	3644	1/1	0.98	0.06	54,54,54,54	0
57	MG	1a	1702	1/1	0.98	0.10	48,48,48,48	0
57	MG	2A	3648	1/1	0.98	0.05	51,51,51,51	0
57	MG	1A	3363	1/1	0.98	0.07	38,38,38,38	0
57	MG	1H	201	1/1	0.98	0.06	34,34,34,34	0
57	MG	2A	3651	1/1	0.98	0.06	50,50,50,50	0
57	MG	1A	3216	1/1	0.98	0.10	38,38,38,38	0
57	MG	2A	3653	1/1	0.98	0.04	44,44,44,44	0
57	MG	1A	3365	1/1	0.98	0.04	33,33,33,33	0
57	MG	2A	3655	1/1	0.98	0.05	49,49,49,49	0
57	MG	1A	3565	1/1	0.98	0.08	41,41,41,41	0
57	MG	1A	3279	1/1	0.98	0.09	38,38,38,38	0
57	MG	2a	3106	1/1	0.98	0.06	53,53,53,53	0
57	MG	2A	3406	1/1	0.98	0.09	39,39,39,39	0
57	MG	2A	3407	1/1	0.98	0.06	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2a	3109	1/1	0.98	0.07	52,52,52,52	0
57	MG	1A	3460	1/1	0.98	0.03	23,23,23,23	0
57	MG	2A	3409	1/1	0.98	0.16	53,53,53,53	0
57	MG	1P	201	1/1	0.98	0.14	29,29,29,29	0
57	MG	1A	3028	1/1	0.98	0.18	22,22,22,22	0
57	MG	1A	3122	1/1	0.98	0.10	27,27,27,27	0
57	MG	2A	3189	1/1	0.98	0.04	49,49,49,49	0
57	MG	2A	3414	1/1	0.98	0.05	52,52,52,52	0
57	MG	1A	3123	1/1	0.98	0.10	36,36,36,36	0
57	MG	2A	3416	1/1	0.98	0.12	50,50,50,50	0
57	MG	2A	3669	1/1	0.98	0.04	52,52,52,52	0
57	MG	1A	3283	1/1	0.98	0.11	38,38,38,38	0
57	MG	1A	3807	1/1	0.98	0.05	29,29,29,29	0
57	MG	1a	1716	1/1	0.98	0.07	41,41,41,41	0
57	MG	2A	3194	1/1	0.98	0.07	40,40,40,40	0
57	MG	2A	3195	1/1	0.98	0.07	48,48,48,48	0
57	MG	1A	3169	1/1	0.98	0.04	25,25,25,25	0
57	MG	2a	3126	1/1	0.98	0.06	60,60,60,60	0
57	MG	1A	3285	1/1	0.98	0.13	39,39,39,39	0
57	MG	1A	3467	1/1	0.98	0.07	24,24,24,24	0
57	MG	1A	3286	1/1	0.98	0.05	25,25,25,25	0
57	MG	1A	3576	1/1	0.98	0.07	43,43,43,43	0
57	MG	1A	3287	1/1	0.98	0.15	27,27,27,27	0
57	MG	1A	3221	1/1	0.98	0.08	29,29,29,29	0
57	MG	1A	3289	1/1	0.98	0.14	33,33,33,33	0
57	MG	1A	3063	1/1	0.98	0.11	44,44,44,44	0
57	MG	1A	3818	1/1	0.98	0.04	36,36,36,36	0
57	MG	2a	3136	1/1	0.98	0.07	50,50,50,50	0
57	MG	1A	3043	1/1	0.98	0.04	13,13,13,13	0
57	MG	1a	1728	1/1	0.98	0.05	39,39,39,39	0
57	MG	2a	3139	1/1	0.98	0.09	59,59,59,59	0
57	MG	1A	3225	1/1	0.98	0.04	20,20,20,20	0
57	MG	1A	3822	1/1	0.98	0.04	32,32,32,32	0
57	MG	2A	3210	1/1	0.98	0.10	52,52,52,52	0
57	MG	2a	3143	1/1	0.98	0.07	47,47,47,47	0
57	MG	1A	3823	1/1	0.98	0.05	43,43,43,43	0
57	MG	1A	3695	1/1	0.98	0.04	57,57,57,57	0
57	MG	2A	3693	1/1	0.98	0.03	35,35,35,35	0
57	MG	1U	207	1/1	0.98	0.07	32,32,32,32	0
57	MG	2A	3440	1/1	0.98	0.04	34,34,34,34	0
57	MG	2A	3696	1/1	0.98	0.05	53,53,53,53	0
57	MG	1A	3126	1/1	0.98	0.05	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3009	1/1	0.98	0.12	41,41,41,41	0
57	MG	1V	201	1/1	0.98	0.14	28,28,28,28	0
57	MG	1A	3029	1/1	0.98	0.06	30,30,30,30	0
57	MG	1A	3128	1/1	0.98	0.09	62,62,62,62	0
57	MG	1A	3830	1/1	0.98	0.05	26,26,26,26	0
57	MG	1A	3298	1/1	0.98	0.03	14,14,14,14	0
57	MG	1a	1740	1/1	0.98	0.03	55,55,55,55	0
57	MG	2A	3449	1/1	0.98	0.05	49,49,49,49	0
57	MG	1A	3229	1/1	0.98	0.08	27,27,27,27	0
57	MG	1A	3702	1/1	0.98	0.03	41,41,41,41	0
57	MG	2A	3019	1/1	0.98	0.06	40,40,40,40	0
57	MG	1A	3129	1/1	0.98	0.07	31,31,31,31	0
57	MG	1A	3005	1/1	0.98	0.10	21,21,21,21	0
57	MG	2A	3022	1/1	0.98	0.11	42,42,42,42	0
57	MG	1A	3178	1/1	0.98	0.12	19,19,19,19	0
57	MG	10	102	1/1	0.98	0.04	34,34,34,34	0
57	MG	1A	3837	1/1	0.98	0.23	34,34,34,34	0
57	MG	2A	3716	1/1	0.98	0.05	55,55,55,55	0
57	MG	2A	3459	1/1	0.98	0.07	48,48,48,48	0
57	MG	10	104	1/1	0.98	0.08	39,39,39,39	0
57	MG	2A	3027	1/1	0.98	0.06	50,50,50,50	0
57	MG	1a	1749	1/1	0.98	0.05	68,68,68,68	0
57	MG	1A	3838	1/1	0.98	0.15	26,26,26,26	0
57	MG	1A	3008	1/1	0.98	0.06	29,29,29,29	0
57	MG	2A	3031	1/1	0.98	0.09	36,36,36,36	0
57	MG	1A	3485	1/1	0.98	0.05	44,44,44,44	0
57	MG	10	108	1/1	0.98	0.15	32,32,32,32	0
57	MG	2a	3180	1/1	0.98	0.04	63,63,63,63	0
57	MG	1A	3304	1/1	0.98	0.04	37,37,37,37	0
57	MG	1A	3487	1/1	0.98	0.04	25,25,25,25	0
57	MG	1A	3843	1/1	0.98	0.06	21,21,21,21	0
57	MG	2a	3184	1/1	0.98	0.04	47,47,47,47	0
57	MG	1A	3595	1/1	0.98	0.06	29,29,29,29	0
57	MG	1A	3180	1/1	0.98	0.12	28,28,28,28	0
57	MG	2A	3473	1/1	0.98	0.09	54,54,54,54	0
57	MG	1A	3712	1/1	0.98	0.17	31,31,31,31	0
57	MG	1A	3992	1/1	0.98	0.04	45,45,45,45	0
57	MG	1A	3306	1/1	0.98	0.18	40,40,40,40	0
57	MG	15	104	1/1	0.98	0.05	33,33,33,33	0
57	MG	2A	3043	1/1	0.98	0.04	24,24,24,24	0
57	MG	1a	1764	1/1	0.98	0.03	41,41,41,41	0
57	MG	2f	201	1/1	0.98	0.05	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3307	1/1	0.98	0.11	34,34,34,34	0
57	MG	2A	3251	1/1	0.98	0.06	41,41,41,41	0
57	MG	1A	3068	1/1	0.98	0.10	33,33,33,33	0
57	MG	1A	3133	1/1	0.98	0.08	28,28,28,28	0
57	MG	1A	3069	1/1	0.98	0.19	32,32,32,32	0
57	MG	2A	3255	1/1	0.98	0.11	39,39,39,39	0
57	MG	17	102	1/1	0.98	0.04	28,28,28,28	0
57	MG	1A	3495	1/1	0.98	0.04	24,24,24,24	0
57	MG	1A	3184	1/1	0.98	0.08	28,28,28,28	0
57	MG	1A	3720	1/1	0.98	0.04	38,38,38,38	0
57	MG	2A	3491	1/1	0.98	0.04	56,56,56,56	0
57	MG	1a	1773	1/1	0.98	0.06	63,63,63,63	0
57	MG	1A	3001	1/1	0.98	0.04	25,25,25,25	0
57	MG	1A	3856	1/1	0.98	0.06	41,41,41,41	0
57	MG	2B	216	1/1	0.98	0.09	54,54,54,54	0
57	MG	2A	3263	1/1	0.98	0.04	38,38,38,38	0
57	MG	1A	3401	1/1	0.98	0.04	31,31,31,31	0
60	ZN	2Y	202	1/1	0.98	0.04	75,75,75,75	0
57	MG	2B	219	1/1	0.98	0.06	59,59,59,59	0
60	ZN	2n	501	1/1	0.98	0.05	85,85,85,85	0
61	SF4	2d	501	8/8	0.98	0.06	65,72,77,83	0
57	MG	2B	220	1/1	0.98	0.09	43,43,43,43	0
57	MG	1a	1855	1/1	0.99	0.04	51,51,51,51	0
57	MG	1D	301	1/1	0.99	0.14	27,27,27,27	0
57	MG	2A	3088	1/1	0.99	0.19	38,38,38,38	0
57	MG	1A	3325	1/1	0.99	0.04	32,32,32,32	0
57	MG	1A	3101	1/1	0.99	0.17	26,26,26,26	0
57	MG	2A	3166	1/1	0.99	0.12	42,42,42,42	0
57	MG	1A	3754	1/1	0.99	0.04	31,31,31,31	0
57	MG	1A	3200	1/1	0.99	0.06	27,27,27,27	0
57	MG	1A	3873	1/1	0.99	0.04	36,36,36,36	0
57	MG	1A	3756	1/1	0.99	0.04	17,17,17,17	0
57	MG	1D	308	1/1	0.99	0.05	14,14,14,14	0
57	MG	1A	3146	1/1	0.99	0.05	35,35,35,35	0
57	MG	1A	3045	1/1	0.99	0.08	34,34,34,34	0
57	MG	1a	1866	1/1	0.99	0.08	46,46,46,46	0
57	MG	1A	3308	1/1	0.99	0.08	29,29,29,29	0
57	MG	1A	3148	1/1	0.99	0.05	28,28,28,28	0
57	MG	1A	3103	1/1	0.99	0.07	32,32,32,32	0
57	MG	1A	3880	1/1	0.99	0.04	28,28,28,28	0
57	MG	1A	3381	1/1	0.99	0.06	13,13,13,13	0
57	MG	2D	304	1/1	0.99	0.11	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	2A	3333	1/1	0.99	0.04	42,42,42,42	0
57	MG	1A	3104	1/1	0.99	0.22	29,29,29,29	0
57	MG	1A	3728	1/1	0.99	0.04	28,28,28,28	0
57	MG	1A	3929	1/1	0.99	0.02	12,12,12,12	0
57	MG	1A	3177	1/1	0.99	0.12	18,18,18,18	0
57	MG	1A	3238	1/1	0.99	0.11	35,35,35,35	0
57	MG	2A	3502	1/1	0.99	0.03	39,39,39,39	0
57	MG	1U	204	1/1	0.99	0.14	32,32,32,32	0
57	MG	2A	3110	1/1	0.99	0.03	31,31,31,31	0
57	MG	1U	205	1/1	0.99	0.09	35,35,35,35	0
57	MG	2a	3149	1/1	0.99	0.09	52,52,52,52	0
57	MG	1A	3222	1/1	0.99	0.07	22,22,22,22	0
57	MG	2E	305	1/1	0.99	0.06	36,36,36,36	0
57	MG	2E	306	1/1	0.99	0.11	44,44,44,44	0
57	MG	1A	3337	1/1	0.99	0.07	22,22,22,22	0
57	MG	2A	3594	1/1	0.99	0.05	34,34,34,34	0
57	MG	1A	3699	1/1	0.99	0.03	37,37,37,37	0
57	MG	1A	3294	1/1	0.99	0.03	31,31,31,31	0
57	MG	1V	202	1/1	0.99	0.06	29,29,29,29	0
57	MG	2A	3686	1/1	0.99	0.03	41,41,41,41	0
57	MG	2A	3347	1/1	0.99	0.07	37,37,37,37	0
57	MG	1V	203	1/1	0.99	0.03	35,35,35,35	0
57	MG	1A	3636	1/1	0.99	0.09	38,38,38,38	0
57	MG	1a	1752	1/1	0.99	0.04	47,47,47,47	0
57	MG	1A	3042	1/1	0.99	0.05	29,29,29,29	0
57	MG	2A	3273	1/1	0.99	0.03	31,31,31,31	0
57	MG	1A	3638	1/1	0.99	0.06	33,33,33,33	0
57	MG	2A	3518	1/1	0.99	0.04	49,49,49,49	0
57	MG	2a	3167	1/1	0.99	0.05	63,63,63,63	0
57	MG	1A	3060	1/1	0.99	0.07	36,36,36,36	0
57	MG	2A	3355	1/1	0.99	0.03	35,35,35,35	0
57	MG	1A	3242	1/1	0.99	0.05	26,26,26,26	0
57	MG	1F	302	1/1	0.99	0.04	23,23,23,23	0
57	MG	1F	303	1/1	0.99	0.20	27,27,27,27	0
57	MG	1A	3941	1/1	0.99	0.03	46,46,46,46	0
57	MG	1F	305	1/1	0.99	0.05	29,29,29,29	0
57	MG	1A	3492	1/1	0.99	0.06	45,45,45,45	0
57	MG	1F	307	1/1	0.99	0.03	25,25,25,25	0
57	MG	1A	3055	1/1	0.99	0.07	27,27,27,27	0
57	MG	2A	3131	1/1	0.99	0.06	45,45,45,45	0
57	MG	1a	1633	1/1	0.99	0.03	32,32,32,32	0
57	MG	1A	3098	1/1	0.99	0.05	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3468	1/1	0.99	0.06	18,18,18,18	0
57	MG	2A	3709	1/1	0.99	0.03	49,49,49,49	0
57	MG	1A	3816	1/1	0.99	0.10	36,36,36,36	0
57	MG	1A	3018	1/1	0.99	0.05	23,23,23,23	0
57	MG	1A	3009	1/1	0.99	0.03	22,22,22,22	0
57	MG	2A	3138	1/1	0.99	0.05	29,29,29,29	0
57	MG	23	101	1/1	0.99	0.07	48,48,48,48	0
57	MG	1t	201	1/1	0.99	0.04	56,56,56,56	0
57	MG	1A	3323	1/1	0.99	0.06	16,16,16,16	0
57	MG	1A	3527	1/1	0.99	0.10	22,22,22,22	0
57	MG	1A	3821	1/1	0.99	0.04	41,41,41,41	0
57	MG	2A	3541	1/1	0.99	0.03	49,49,49,49	0
57	MG	1A	3862	1/1	0.99	0.04	40,40,40,40	0
57	MG	2A	3377	1/1	0.99	0.03	36,36,36,36	0
57	MG	13	101	1/1	0.99	0.10	26,26,26,26	0
57	MG	1A	3111	1/1	0.99	0.14	26,26,26,26	0
57	MG	2a	3099	1/1	0.99	0.02	63,63,63,63	0
57	MG	13	103	1/1	0.99	0.04	41,41,41,41	0
57	MG	2A	3547	1/1	0.99	0.07	44,44,44,44	0
57	MG	1A	3907	1/1	0.99	0.03	34,34,34,34	0
57	MG	1A	3371	1/1	0.99	0.08	27,27,27,27	0
57	MG	15	103	1/1	0.99	0.05	29,29,29,29	0
57	MG	2A	3004	1/1	0.99	0.05	38,38,38,38	0
57	MG	2A	3729	1/1	0.99	0.08	38,38,38,38	0
57	MG	1a	1649	1/1	0.99	0.06	35,35,35,35	0
57	MG	1A	3559	1/1	0.99	0.03	29,29,29,29	0
57	MG	15	105	1/1	0.99	0.14	28,28,28,28	0
57	MG	1A	3501	1/1	0.99	0.03	23,23,23,23	0
57	MG	1N	201	1/1	0.99	0.03	43,43,43,43	0
57	MG	1A	3826	1/1	0.99	0.04	32,32,32,32	0
60	ZN	1Y	501	1/1	0.99	0.03	55,55,55,55	0
57	MG	2A	3645	1/1	0.99	0.02	34,34,34,34	0
60	ZN	15	109	1/1	0.99	0.02	38,38,38,38	0
60	ZN	16	501	1/1	0.99	0.04	39,39,39,39	0
60	ZN	1n	102	1/1	0.99	0.03	68,68,68,68	0
57	MG	2A	3646	1/1	0.99	0.06	35,35,35,35	0
57	MG	1A	3827	1/1	0.99	0.06	23,23,23,23	0
60	ZN	25	104	1/1	0.99	0.03	51,51,51,51	0
60	ZN	29	501	1/1	0.99	0.03	57,57,57,57	0
57	MG	2A	3012	1/1	0.99	0.07	55,55,55,55	0
61	SF4	1d	307	8/8	0.99	0.05	58,62,71,72	0
57	MG	1A	3913	1/1	0.99	0.03	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
57	MG	1A	3961	1/1	0.99	0.05	22,22,22,22	0
57	MG	1A	3378	1/1	1.00	0.01	11,11,11,11	0
60	ZN	26	102	1/1	1.00	0.02	52,52,52,52	0
57	MG	2A	3485	1/1	1.00	0.04	33,33,33,33	0
60	ZN	19	104	1/1	1.00	0.02	38,38,38,38	0
57	MG	2A	3574	1/1	1.00	0.03	58,58,58,58	0
57	MG	1A	3975	1/1	1.00	0.02	39,39,39,39	0
57	MG	1A	3297	1/1	1.00	0.06	23,23,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.