



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 2, 2024 – 10:41 pm GMT

PDB ID : 4WZD
Title : Complex of 70S ribosome with cognate tRNA-Tyr in the P-site
Authors : Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2014-11-19
Resolution : 3.10 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 : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

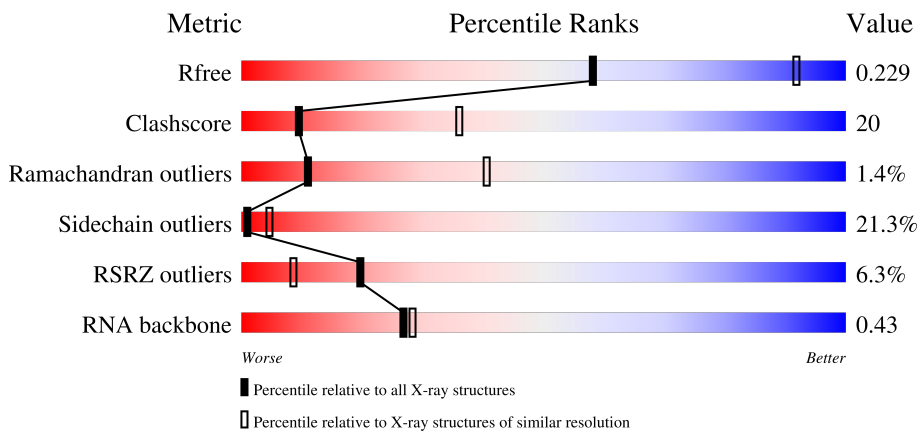
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)
RNA backbone	3102	1116 (3.40-2.80)

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	13	1522	
1	1G	1522	
2	12	256	
2	1E	256	





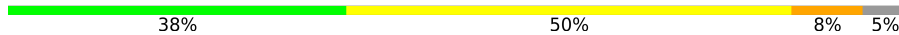


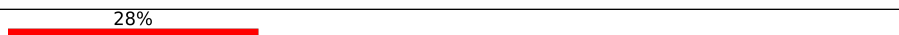
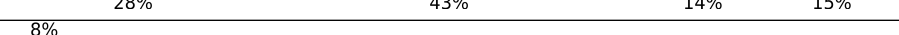

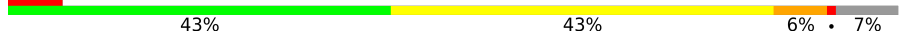
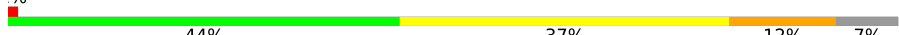

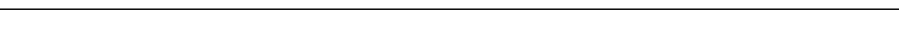


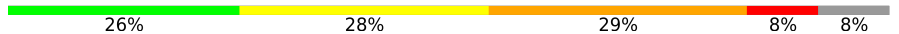
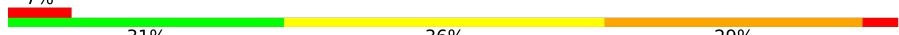

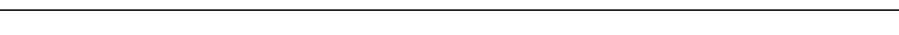


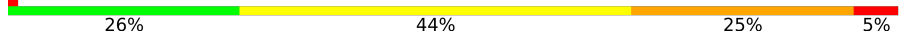
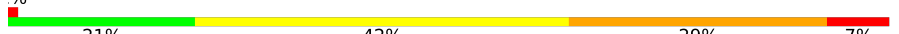

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Mol	Chain	Length	Quality of chain
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
11	2I	129	
12	3A	132	
12	3I	132	
13	4A	126	
13	4I	126	
14	5A	61	
14	5I	61	
15	6A	89	

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Mol	Chain	Length	Quality of chain
15	6I	89	
16	7A	88	
16	7I	88	
17	8A	105	
17	8I	105	
18	9A	88	
18	9I	88	
19	AA	93	
19	AI	93	
20	BA	106	
20	BI	106	
21	1B	27	
21	1F	27	
22	2K	85	
22	2L	85	
22	3K	85	
22	3L	85	
23	4K	30	
23	4L	30	
24	14	2917	
24	1H	2917	
25	16	122	
25	1J	122	
26	71	229	
26	79	229	

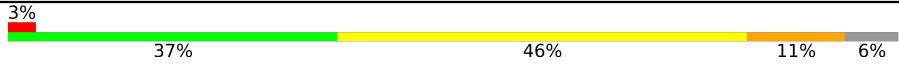
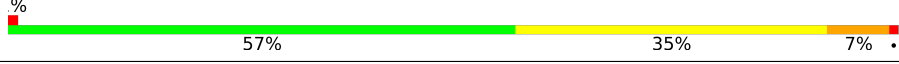

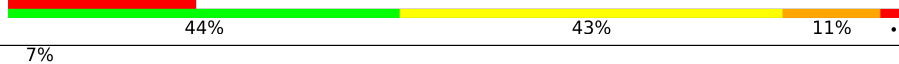




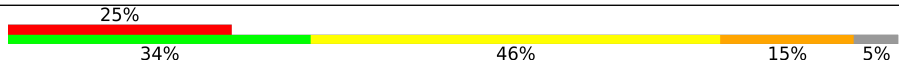
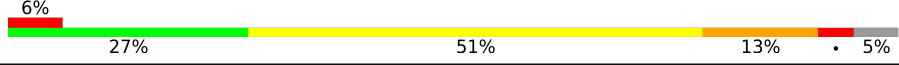
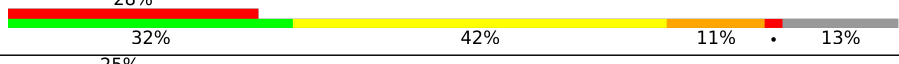
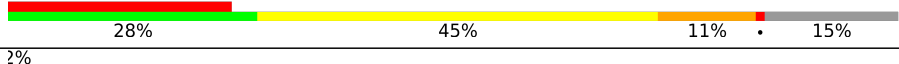


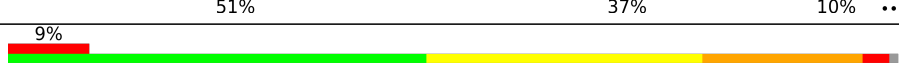
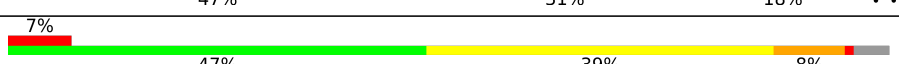
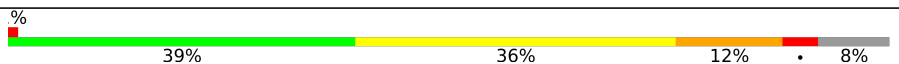

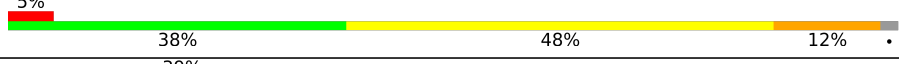
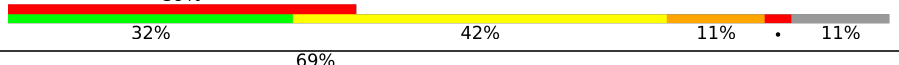





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Mol	Chain	Length	Quality of chain
27	11	276	49% 36% 12% ..
27	19	276	48% 40% 9% ..
28	21	206	7% 51% 36% 11% .
28	29	206	38% 42% 17% .
29	31	210	3% 51% 35% 10% .
29	39	210	12% 41% 41% 15% ..
30	41	182	45% 48% 42% 10% .
30	49	182	9% 40% 46% 14% ..
31	51	180	40% 45% 10% ..
31	59	180	29% 47% 39% 9% 5%
32	61	148	15% 42% 44% 13% .
32	69	148	44% 36% 19% .
33	15	140	3% 51% 37% 10% .
33	58	140	5% 47% 36% 14% ..
34	25	122	55% 36% 8% .
34	68	122	63% 32% .
35	35	150	12% 39% 38% 17% 5%
35	78	150	3% 47% 31% 19% .
36	45	141	5% 42% 48% 9% .
36	88	141	6% 43% 42% 13% .
37	55	118	41% 52% 5% ..
37	98	118	41% 48% 10% .
38	65	112	4% 39% 38% 21% ..
38	A8	112	41% 44% 44% 11% ..
39	75	146	35% 43% 14% . 6%

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Mol	Chain	Length	Quality of chain
39	B8	146	
40	85	118	
40	C8	118	
41	95	101	
41	D8	101	
42	A5	113	
42	E8	113	
43	B5	96	
43	F8	96	
44	C5	110	
44	G8	110	
45	D5	206	
45	H8	206	
46	E5	85	
46	I8	85	
47	F5	98	
47	J8	98	
48	G5	72	
48	K8	72	
49	H5	60	
49	L8	60	
50	I5	71	
50	M8	71	
51	J5	60	
51	N8	60	

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Mol	Chain	Length	Quality of chain
52	K5	54	
52	O8	54	
53	L5	49	
53	P8	49	
54	M5	65	
54	Q8	65	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	13	1643	-	-	-	X
55	MG	13	1644	-	-	-	X
55	MG	13	1645	-	-	-	X
55	MG	13	1649	-	-	-	X
55	MG	13	1666	-	-	-	X
55	MG	13	1668	-	-	-	X
55	MG	13	1688	-	-	-	X
55	MG	13	1689	-	-	-	X
55	MG	13	1699	-	-	-	X
55	MG	13	1706	-	-	-	X
55	MG	13	1708	-	-	-	X
55	MG	13	1711	-	-	-	X
55	MG	14	3128	-	-	-	X
55	MG	14	3261	-	-	-	X
55	MG	1G	1620	-	-	-	X
55	MG	1G	1638	-	-	-	X
55	MG	1G	1639	-	-	-	X
55	MG	1G	1699	-	-	-	X
55	MG	1G	1721	-	-	-	X
55	MG	1G	1726	-	-	-	X
55	MG	1H	3058	-	-	-	X
55	MG	1H	3096	-	-	-	X
55	MG	1H	3106	-	-	-	X
55	MG	1H	3116	-	-	-	X
55	MG	1H	3149	-	-	-	X
55	MG	1H	3152	-	-	-	X
55	MG	1H	3185	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	1H	3190	-	-	-	X
55	MG	1H	3196	-	-	-	X
55	MG	1H	3203	-	-	-	X
55	MG	1H	3209	-	-	-	X
55	MG	1H	3215	-	-	-	X
55	MG	1H	3216	-	-	-	X
55	MG	1H	3218	-	-	-	X
55	MG	1H	3231	-	-	-	X
55	MG	1H	3282	-	-	-	X
55	MG	1H	3283	-	-	-	X
55	MG	1H	3292	-	-	-	X
55	MG	1H	3294	-	-	-	X
55	MG	1H	3311	-	-	-	X
55	MG	1H	3330	-	-	-	X
55	MG	1H	3336	-	-	-	X
55	MG	1H	3339	-	-	-	X
55	MG	1H	3342	-	-	-	X
55	MG	1H	3350	-	-	-	X
55	MG	1H	3355	-	-	-	X
55	MG	1H	3356	-	-	-	X
55	MG	1H	3406	-	-	-	X
55	MG	29	304	-	-	-	X
55	MG	2K	104	-	-	-	X
55	MG	32	301	-	-	-	X

2 Entry composition [i](#)

There are 57 unique types of molecules in this entry. The entry contains 299705 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 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	13	1499	Total 32337	C 14392	N 5999	O 10442	P 1504	0	5	0
1	1G	1503	Total 32309	C 14381	N 5990	O 10436	P 1502	0	0	0

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	1E	237	Total 1924	C 1228	N 344	O 347	S 5	0	0	0
2	12	237	Total 1924	C 1228	N 344	O 347	S 5	0	0	0

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	2E	205	Total 1605	C 1011	N 313	O 280	S 1	0	0	0
3	22	206	Total 1612	C 1016	N 314	O 281	S 1	0	0	0

- Molecule 4 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	3E	208	Total 1702	C 1066	N 339	O 290	S 7	0	0	0
4	32	208	Total 1702	C 1066	N 339	O 290	S 7	0	0	0

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	4E	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
5	42	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	5E	101	Total	C	N	O	S	0	0	0
			842	531	155	153	3			
6	52	101	Total	C	N	O	S	0	0	0
			842	531	155	153	3			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	6E	155	Total	C	N	O	S	0	0	0
			1256	781	252	217	6			
7	62	155	Total	C	N	O	S	0	0	0
			1256	781	252	217	6			

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	7E	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			
8	72	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	8E	127	Total	C	N	O	0	0	0
			1009	639	197	173			
9	82	127	Total	C	N	O	0	0	0
			1009	639	197	173			

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	1A	99	801	504	157	139	1	0	0	0

- Molecule 11 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	2I	116	864	537	164	160	3	0	0	0
11	2A	116	864	537	164	160	3	0	0	0

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	3I	125	975	614	196	164	1	0	0	0
12	3A	125	975	614	196	164	1	0	0	0

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	4I	116	928	574	191	161	2	0	0	0
13	4A	117	933	577	192	162	2	0	0	0

- Molecule 14 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	5I	60	491	312	104	71	4	0	0	0
14	5A	60	491	312	104	71	4	0	0	0

- Molecule 15 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	6I	88	733	459	147	125	2	0	0	0
15	6A	88	733	459	147	125	2	0	0	0

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			
16	7A	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	8I	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	8A	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	9I	72	Total	C	N	O	0	0	0
			590	376	117	97			
18	9A	72	Total	C	N	O	0	0	0
			590	376	117	97			

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	83	Total	C	N	O	S	0	0	0
			665	424	124	115	2			
19	AA	79	Total	C	N	O	S	0	0	0
			633	404	117	110	2			

- Molecule 20 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			
20	BA	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			

- Molecule 21 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	1F	25	Total	C	N	O	0	0	0
			217	134	52	31			
21	1B	25	Total	C	N	O	0	0	0
			217	134	52	31			

- Molecule 22 is a RNA chain called tRNA-Tyr.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	2K	82	Total	C	N	O	P	S	0	0	0
			1765	795	315	571	82	2			
22	3K	85	Total	C	N	O	P	S	0	0	0
			1824	822	323	592	85	2			
22	2L	78	Total	C	N	O	P	S	0	0	0
			1678	756	297	545	78	2			
22	3L	85	Total	C	N	O	P	S	0	0	0
			1825	822	323	593	85	2			

- Molecule 23 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	4K	16	Total	C	N	O	P	0	0	0
			348	157	72	103	16			
23	4L	8	Total	C	N	O	P	0	0	0
			170	77	32	53	8			

- Molecule 24 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	1H	2912	Total	C	N	O	P	0	0	0
			62707	27911	11722	20163	2911			
24	14	2909	Total	C	N	O	P	0	0	0
			62647	27884	11716	20139	2908			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1H	161	U	-	insertion	GB 48268
1H	493	G	-	insertion	GB 48268
1H	1228	G	-	insertion	GB 48268
14	161	U	-	insertion	GB 48268
14	493	G	-	insertion	GB 48268
14	1228	G	-	insertion	GB 48268

- Molecule 25 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	16	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
25	1J	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

- Molecule 26 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	71	135	Total	C	N	O	S	0	0	0
			1049	662	197	189	1			
26	79	135	Total	C	N	O	S	0	0	0
			1049	662	197	189	1			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	11	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			
27	19	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	21	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
28	29	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	31	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			
29	39	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	41	181	Total	C	N	O	S	0	0	0
			1473	942	268	259	4			
30	49	181	Total	C	N	O	S	0	0	0
			1473	942	268	259	4			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	51	174	Total	C	N	O	S	0	0	0
			1336	848	251	236	1			
31	59	171	Total	C	N	O	S	0	0	0
			1312	832	246	233	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	61	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
32	69	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

- Molecule 33 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	58	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
33	15	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 34 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
34	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 35 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	78	150	Total	C	N	O	S	0	0	0
			1144	712	232	197	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	35	150	Total	C	N	O	S	0	0	0
			1144	712	232	197	3			

- Molecule 36 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	88	141	Total	C	N	O	S	0	0	0
			1121	715	212	187	7			
36	45	141	Total	C	N	O	S	0	0	0
			1121	715	212	187	7			

- Molecule 37 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
37	55	117	Total	C	N	O		0	0	0
			959	599	202	158				

- Molecule 38 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
38	65	111	Total	C	N	O	0	0	0
			881	556	176	149			

- Molecule 39 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	B8	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
39	75	137	Total	C	N	O		0	0	0
			1131	704	232	195				

- Molecule 40 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	C8	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			
40	85	117	Total	C	N	O	S	0	0	0
			963	610	202	150	1			

- Molecule 41 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	D8	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			
41	95	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			

- Molecule 42 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	E8	113	Total	C	N	O	S	0	0	0
			899	566	177	154	2			
42	A5	113	Total	C	N	O	S	0	0	0
			899	566	177	154	2			

- Molecule 43 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	F8	92	Total	C	N	O	0	0	0
			725	471	131	123			
43	B5	93	Total	C	N	O	0	0	0
			730	474	132	124			

- Molecule 44 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	G8	104	Total	C	N	O	S	0	0	0
			791	510	149	127	5			
44	C5	104	Total	C	N	O	S	0	0	0
			794	510	152	127	5			

- Molecule 45 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	H8	175	Total	C	N	O	S	0	0	0
			1397	892	251	251	3			
45	D5	179	Total	C	N	O	S	0	0	0
			1428	911	255	259	3			

- Molecule 46 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	I8	83	Total	C	N	O	S	0	0	0
			656	407	139	109	1			
46	E5	77	Total	C	N	O	S	0	0	0
			612	379	129	103	1			

- Molecule 47 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	J8	97	Total	C	N	O	S	0	0	0
			762	481	150	130	1			
47	F5	97	Total	C	N	O	S	0	0	0
			762	481	150	130	1			

- Molecule 48 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	K8	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			
48	G5	69	Total	C	N	O	S	0	0	0
			580	358	118	103	1			

- Molecule 49 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	L8	59	Total	C	N	O	0	0	0
			468	298	90	80			
49	H5	59	Total	C	N	O	0	0	0
			468	298	90	80			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M8	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			
50	I5	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	N8	59	Total	C	N	O	S	0	0	0
			458	288	90	75	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	J5	59	Total	C	N	O	S	0	0	0
			458	288	90	75	5			

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	O8	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			
52	K5	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	P8	47	Total	C	N	O	S	0	0	0
			409	251	102	54	2			
53	L5	49	Total	C	N	O	S	0	0	0
			429	263	108	56	2			

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	Q8	62	Total	C	N	O	S	0	0	0
			483	308	98	75	2			
54	M5	62	Total	C	N	O	S	0	0	0
			495	317	100	76	2			

- Molecule 55 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	13	139	Total	Mg	0	0
			139	139		
55	3E	1	Total	Mg	0	0
			1	1		
55	5E	1	Total	Mg	0	0
			1	1		
55	7E	1	Total	Mg	0	0
			1	1		
55	3I	1	Total	Mg	0	0
			1	1		
55	2K	5	Total	Mg	0	0
			5	5		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	4K	1	Total Mg 1 1	0	0
55	1H	523	Total Mg 523 523	0	0
55	16	15	Total Mg 15 15	0	0
55	11	2	Total Mg 2 2	0	0
55	21	2	Total Mg 2 2	0	0
55	88	1	Total Mg 1 1	0	0
55	98	1	Total Mg 1 1	0	0
55	G8	1	Total Mg 1 1	0	0
55	I8	3	Total Mg 3 3	0	0
55	Q8	2	Total Mg 2 2	0	0
55	1G	148	Total Mg 148 148	0	0
55	32	1	Total Mg 1 1	0	0
55	42	1	Total Mg 1 1	0	0
55	52	1	Total Mg 1 1	0	0
55	3A	1	Total Mg 1 1	0	0
55	4A	1	Total Mg 1 1	0	0
55	2L	4	Total Mg 4 4	0	0
55	3L	1	Total Mg 1 1	0	0
55	14	465	Total Mg 465 465	0	0
55	1J	10	Total Mg 10 10	0	0
55	19	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	29	4	Total Mg 4 4	0	0
55	39	1	Total Mg 1 1	0	0
55	15	1	Total Mg 1 1	0	0
55	25	1	Total Mg 1 1	0	0
55	45	1	Total Mg 1 1	0	0
55	55	1	Total Mg 1 1	0	0
55	C5	1	Total Mg 1 1	0	0
55	E5	1	Total Mg 1 1	0	0
55	F5	1	Total Mg 1 1	0	0

- Molecule 56 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	3E	1	Total Zn 1 1	0	0
56	5I	1	Total Zn 1 1	0	0
56	G8	1	Total Zn 1 1	0	0
56	32	1	Total Zn 1 1	0	0
56	5A	1	Total Zn 1 1	0	0
56	C5	1	Total Zn 1 1	0	0

- Molecule 57 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	13	125	Total O 125 125	0	0
57	5I	1	Total O 1 1	0	0

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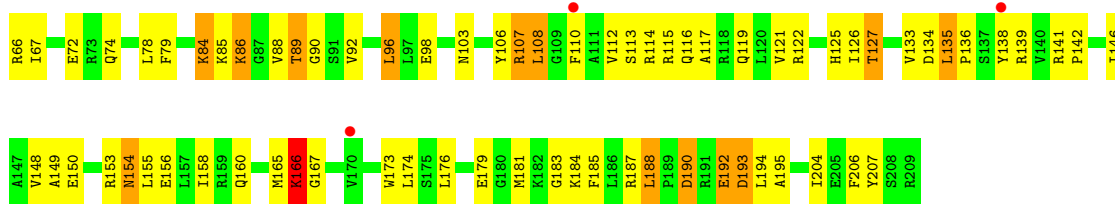
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	AI	3	Total O 3 3	0	0
57	2K	2	Total O 2 2	0	0
57	4K	3	Total O 3 3	0	0
57	1H	652	Total O 652 652	0	0
57	16	12	Total O 12 12	0	0
57	11	8	Total O 8 8	0	0
57	21	2	Total O 2 2	0	0
57	31	5	Total O 5 5	0	0
57	78	4	Total O 4 4	0	0
57	98	1	Total O 1 1	0	0
57	C8	2	Total O 2 2	0	0
57	E8	1	Total O 1 1	0	0
57	F8	2	Total O 2 2	0	0
57	G8	2	Total O 2 2	0	0
57	1G	96	Total O 96 96	0	0
57	32	1	Total O 1 1	0	0
57	5A	1	Total O 1 1	0	0
57	7A	2	Total O 2 2	0	0
57	BA	1	Total O 1 1	0	0
57	2L	6	Total O 6 6	0	0
57	14	523	Total O 523 523	0	0

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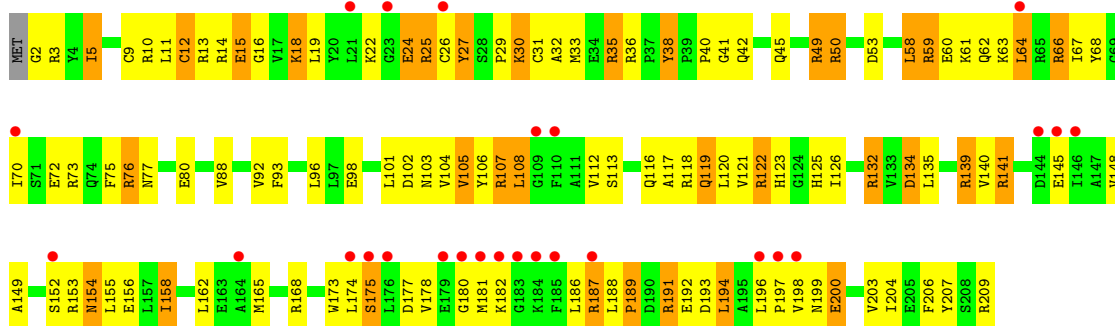
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	1J	22	Total O 22 22	0	0
57	19	11	Total O 11 11	0	0
57	39	3	Total O 3 3	0	0
57	25	6	Total O 6 6	0	0
57	35	1	Total O 1 1	0	0
57	75	1	Total O 1 1	0	0
57	85	4	Total O 4 4	0	0
57	F5	1	Total O 1 1	0	0
57	H5	2	Total O 2 2	0	0

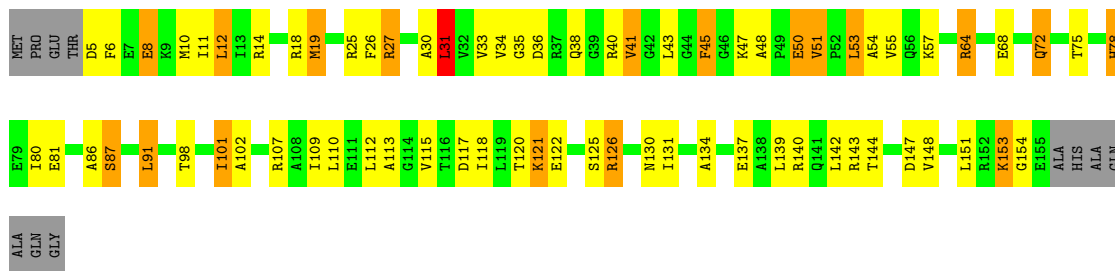
U1122	U1056	U992	G929	G861	A787	C719	C643	C569	G805	U427	A362	G289	C201	G138
A1123	G1057	G993	G932	C862	G791	C720	G644	G570	A509	G428	U365	C290	U208	G142
G1124	G1058	A994	G933	U863	A792	G721	C945	U571	A510	U429	U366	U209	U209	A143
U1125	C1059	C995	G934	A864	U793	C647	U646	A572	C511	A430	U367	U210	U210	G144
G1126	G1060	A996	A935	A865	A794	U723	C647	A573	C512	A431	U368	G216	G216	G145
C1128	U1062	G998	A938	C868	G724	U724	G650	A574	C513	A432	A298	G220	G220	G146
G1129	C1063	G999	G939	G869	G725	U725	C851	G575	C514	C433	C370	A300	C221	G147
G1131	G1064	G1000	G940	A872	G726	U726	U652	G576	G515	U434	G372	A300	U222	G148
C1132	U1065	G1001	G941	A873	G727	U727	A653	C578	U516	G438	A374	A149	U223	A149
G1133	C1066	G1002	G942	G878	U728	C728	U659	C579	C518	A439	U375	G305	G227	C150
C1134	A1067	G1003	G943	G879	A801	A729	G660	U580	C519	A440	U376	A152	A298	A151
G1135	G1068	A1004	G944	G880	A802	G730	G661	G581	A520	A441	G376	A152	G228	A152
C1136	C1006	G1005	G945	G881	G803	G731	G662	U582	A521	C442	G377	C153	U229	C153
G1137	G1071	C1006	A946	G882	U804	C732	A663	A583	G521	C443	G378	G309	G232	C154
C1138	G1072	G1007	G947	G883	C805	A733	A664	A584	G522	C444	C979	G310	C232	A160
G1139	U1073	G1008	G948	C884	C806	A734	G665	G585	A523	C445	G380	A313	C233	C233
C1140	G1074	A949	C948	A807	A807	C735	A665	C586	G524	G446	G381	A314	C234	C234
G1141	C1075	U950	U950	C808	C808	C736	G666	G587	C525	G447	A382	C314	C235	C163
C1142	G1076	G951	G951	G809	G809	A737	G667	G588	C526	A448	A383	A315	U166	U166
G1143	U1077	U952	C810	U869	C810	C738	U669	G589	G527	C449	G384	G316	A243	C165
C1144	G1078	G953	C811	G670	C811	C739	G670	C590	G530	G450	C385	G317	U244	G166
G1145	U1079	G954	G671	U671	U671	U740	G671	U591	G531	A451	C386	G318	C245	G167
A1146	G1080	U955	G672	G672	G672	G741	G673	G595	A532	A452	U387	G319	A246	C168
C1147	G1082	U956	A814	G674	G674	C747	G675	G596	A533	C457	A389	C320	G247	C169
U1148	A958	U957	G894	A875	A875	C748	G676	C596	A534	C458	A390	A321	U170	U170
C1149	U1085	A959	G895	A876	A876	C749	G677	C601	A535	C459	C391	A322	A250	A250
U1150	G1086	U960	C896	A877	A877	G750	U678	G602	A536	C460	G392	U323	G251	U173
A1151	U1087	A961	G897	A878	A878	G751	U679	U603	C536	A465	G393	G324	U252	C174
C1152	G1088	C962	C898	A879	A879	C752	G679	U604	C537	C466	A393	U253	U253	C175
G1153	G1089	G963	A900	C899	C899	G753	C679	U605	G538	G467	G394	A327	G254	C176
C1154	U1092	A964	A901	U820	U820	G754	G680	U606	A539	A468	C395	C328	G255	C177
G1155	G1093	G965	G902	C822	C822	G755	G681	G606	G540	G475	G396	A329	U256	C178
U1156	U1094	G966	G903	A823	A823	G756	G682	A607	G541	C476	A397	G331	G257	U182
A1157	G1095	A967	C904	C824	C824	G757	U685	G612	G542	C477	C398	G332	G258	G183
C1158	U1096	G968	U905	C825	C825	A759	U686	C613	G543	G481	C401	G333	U261	U261
U1159	C1096	A969	G906	C826	C826	G760	U687	A614	C544	A482	C402	G334	A262	C186
G1160	G1097	G970	U907	U827	U827	G761	G688	G615	C545	A483	C403	G335	A263	C186A
C1161	U1098	C971	A908	A828	A828	G762	G689	G616	A547	A484	C404	C337	U264	C186B
G1162	G1099	G972	C910	C832	C832	A766	U691	G617	C548	C485	U405	C339	G265	G186C
C1163	C1100	G973	U911	U833	U833	A767	G692	C620	C549	C486	G406	G341	G266	C186D
U1166	A1101	A974	C912	C834	C834	A768	G693	U626	C550	U487	G407	C342	C267	C186E
A1167	C1103	A975	A913	U835	U835	C770	A694	A621	C551	A488	C408	C342	C268	C186F
C1169	G1104	G976	G916	G836	G836	G771	U697	A622	C552	C489	G409	C342	C269	C187
A1170	A1105	A977	A917	G837	G837	U772	C701	C624	C553	C490	A411	C345	A270	U188
G1171	G1106	C979	G916	G838	G838	G773	A702	U626	C554	C491	A412	G347	A274	U189
C1172	C1107	C980	G917	U841	U841	G774	A702	U627	C555	G492	G413	G347	G275	G190
G1173	U1108	U981	A918	C842	C842	G775	A706	G627	C556	G493	A414	C342	G276	U194D
G1174	C1109	U982	A919	U843	U843	A777	A706	G628	C557	U494	C418	G350	C277	G191E
C1175	A1110	A983	U920	C848	C848	G778	G709	G629	C558	A495	C419	G351	G278	G191F
A1176	G1111	C984	U921	C849	C849	G779	G710	G630	C559	A496	U420	G352	C279	G191
G1177	C1112	G985	G922	U850	U850	A780	G711	G631	C560	U497	U421	G353	C280	C280
C1178	G1113	A986	A923	G851	G851	A781	G712	A632	C561	A498	U422	G354	G281	G281
A1179	U1114	G987	C924	U852	U852	A782	A712	G633	C562	G500	C422	U359	A195	A195
C1180	G1115	G988	G925	C857	C857	C783	G713	A640	C563	C501	G423	A360	G285	A197
G1181	C1116	C989	G926	U858	U858	C784	G714	A641	C564	C502	G424	G361	G286	G198
C1182	U1117	G990	G927	A859	A859	A785	G715	U641	C565	C503	G425	U362	U287	G199
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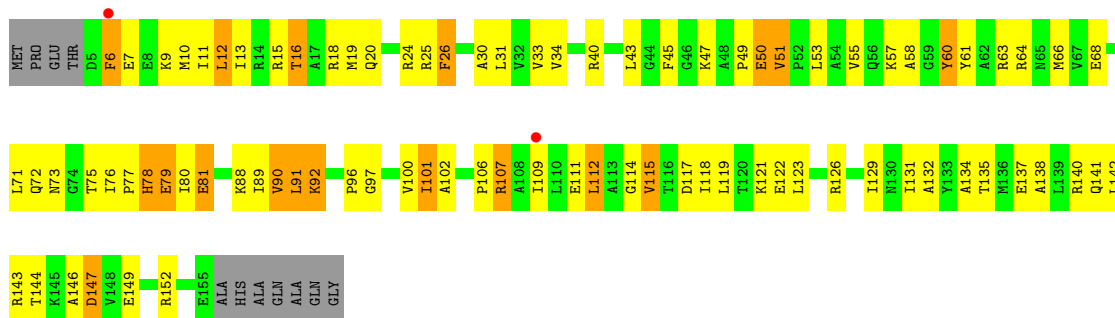
• Molecule 4: 30S ribosomal protein S4



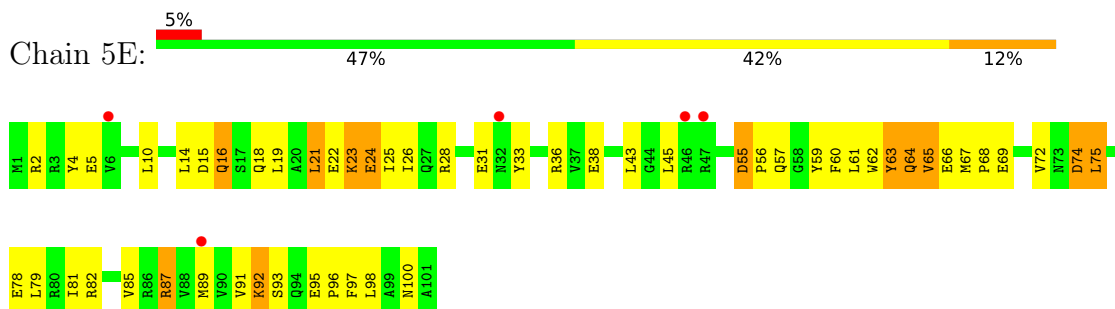
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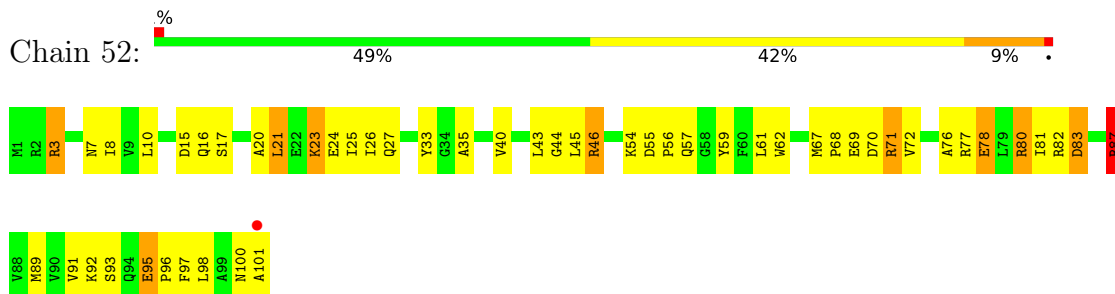
• Molecule 5: 30S ribosomal protein S5



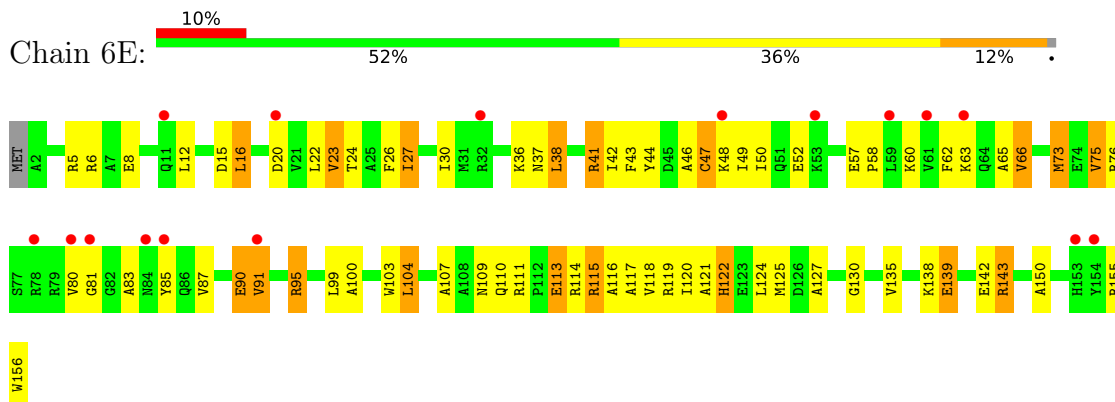
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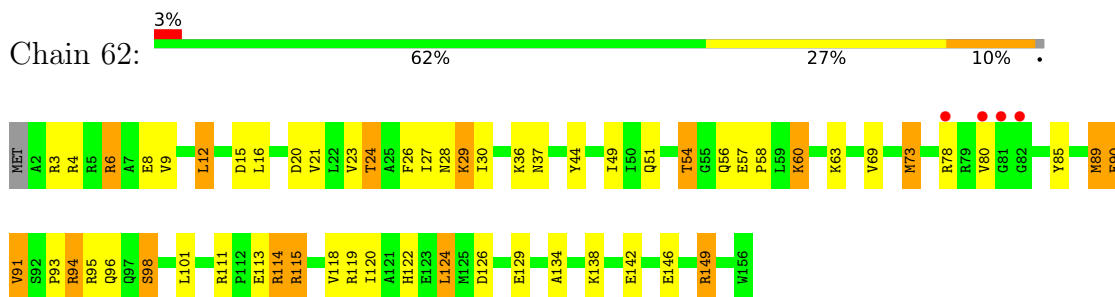
- Molecule 6: 30S ribosomal protein S6



- Molecule 7: 30S ribosomal protein S7



- Molecule 7: 30S ribosomal protein S7

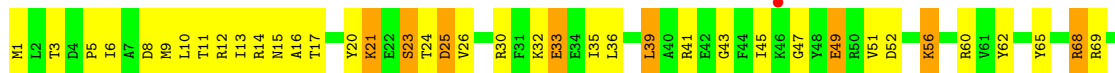


- Molecule 8: 30S ribosomal protein S8

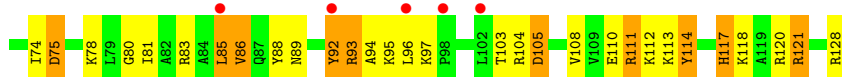
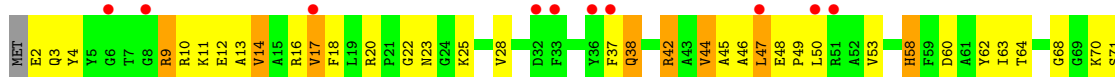




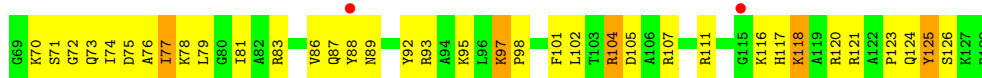
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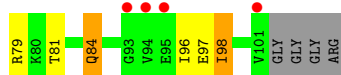
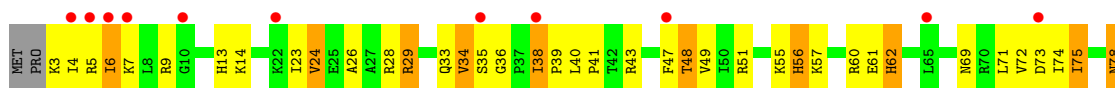
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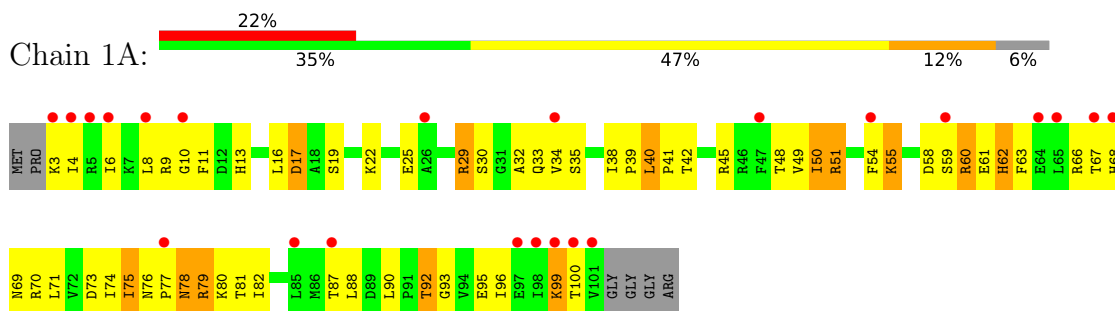
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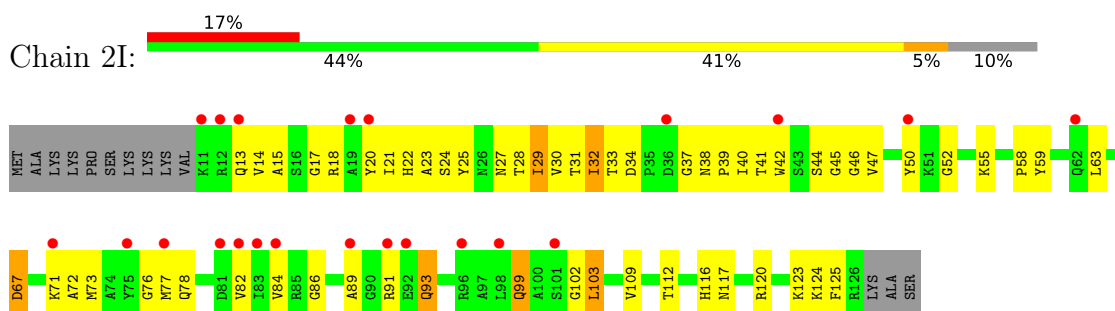
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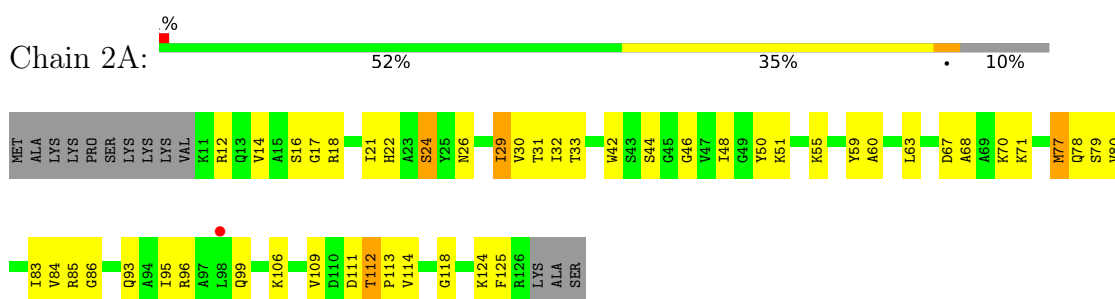
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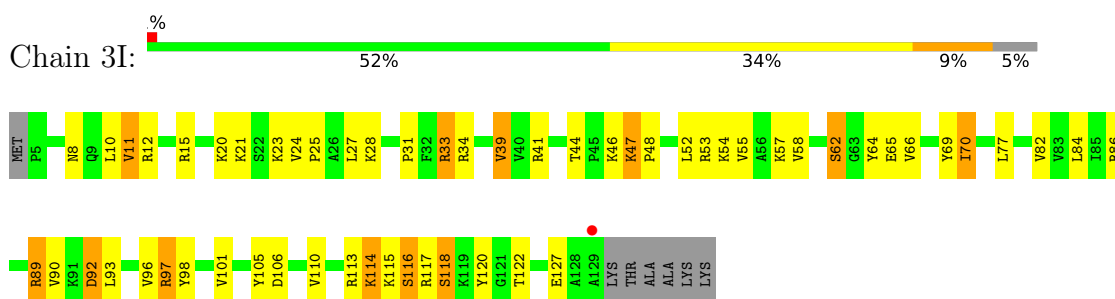
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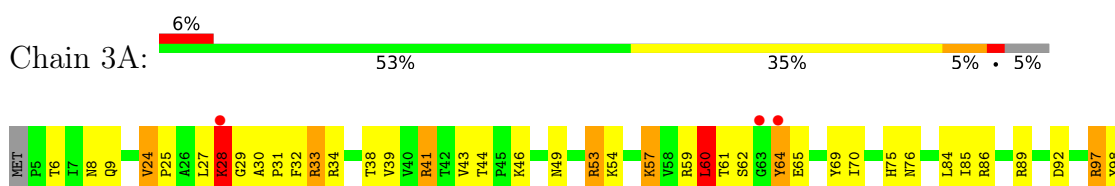
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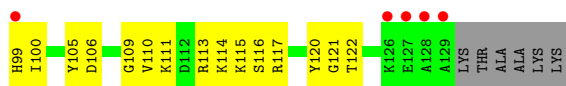


- Molecule 12: 30S ribosomal protein S12



- Molecule 12: 30S ribosomal protein S12

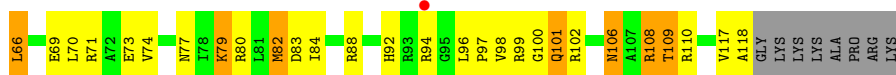
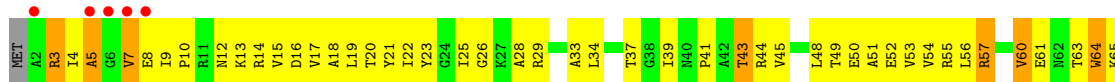




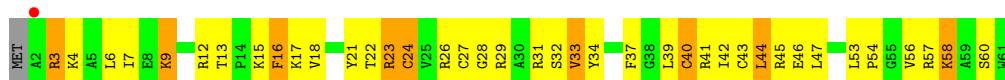
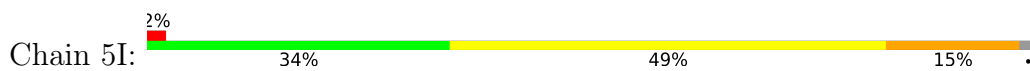
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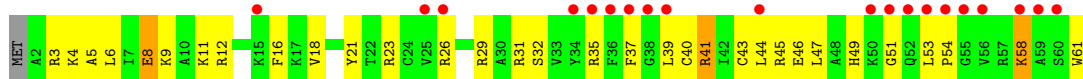
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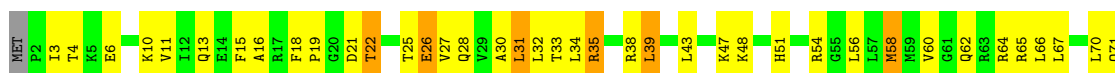
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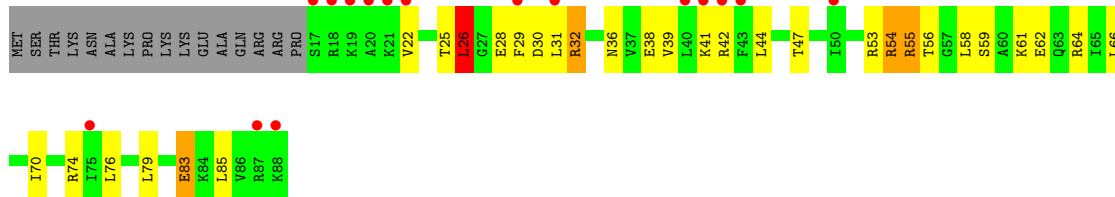


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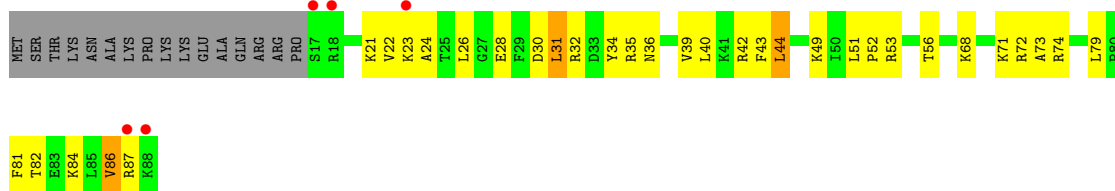


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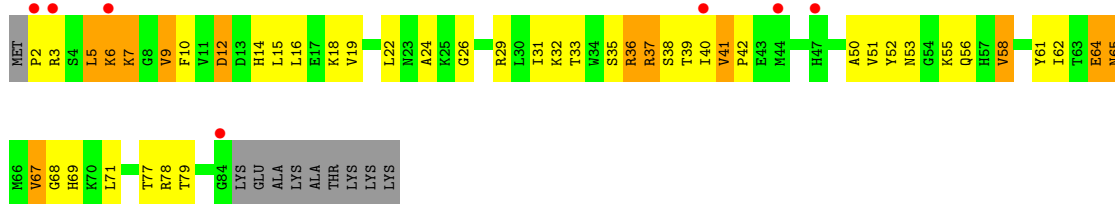




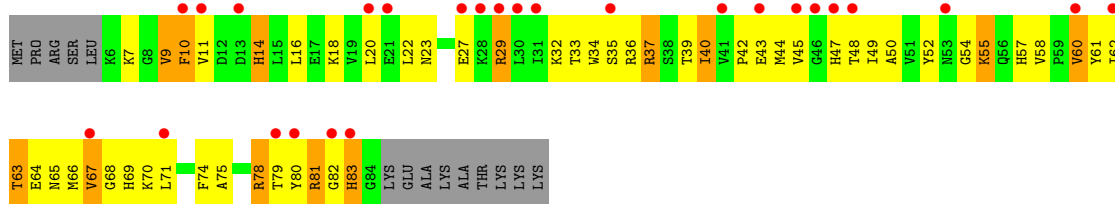
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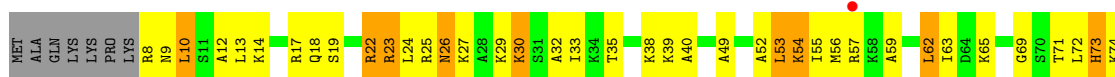
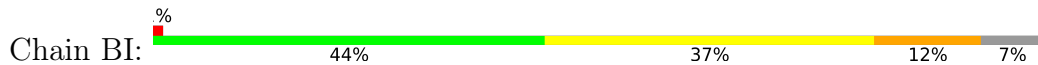
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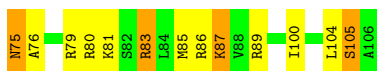


• Molecule 19: 30S ribosomal protein S19



• Molecule 20: 30S ribosomal protein S20





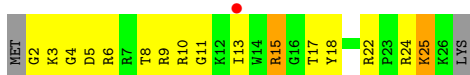
- Molecule 20: 30S ribosomal protein S20



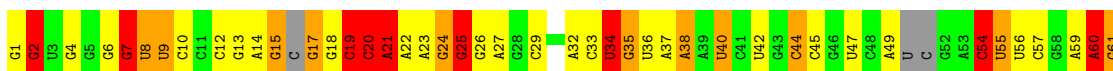
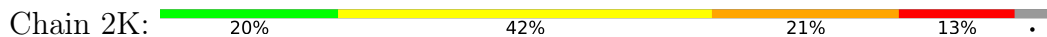
- Molecule 21: 30S ribosomal protein Thx



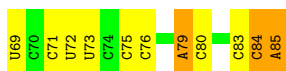
- Molecule 21: 30S ribosomal protein Thx



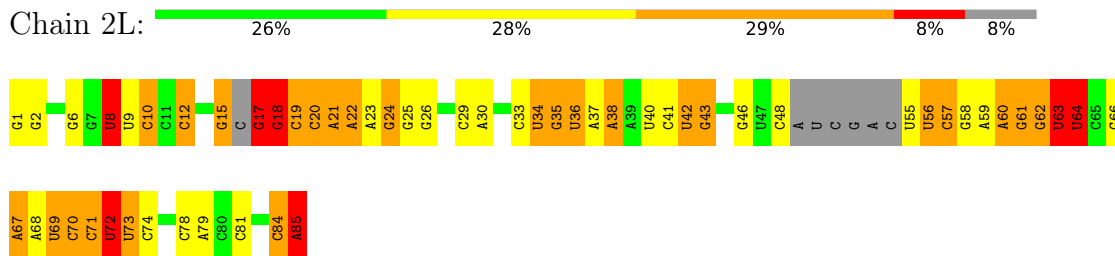
- Molecule 22: tRNA-Tyr



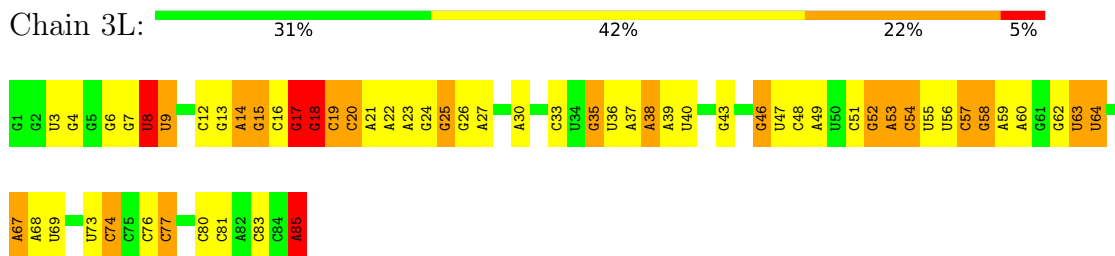
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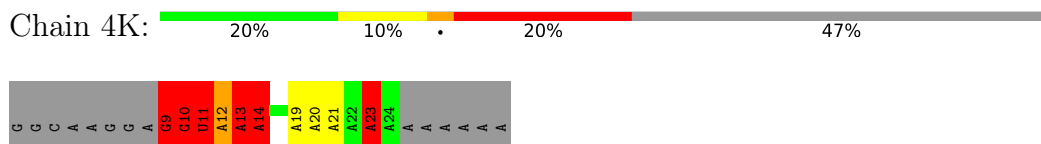
- Molecule 22: tRNA-Tyr



• Molecule 22: tRNA-Tyr



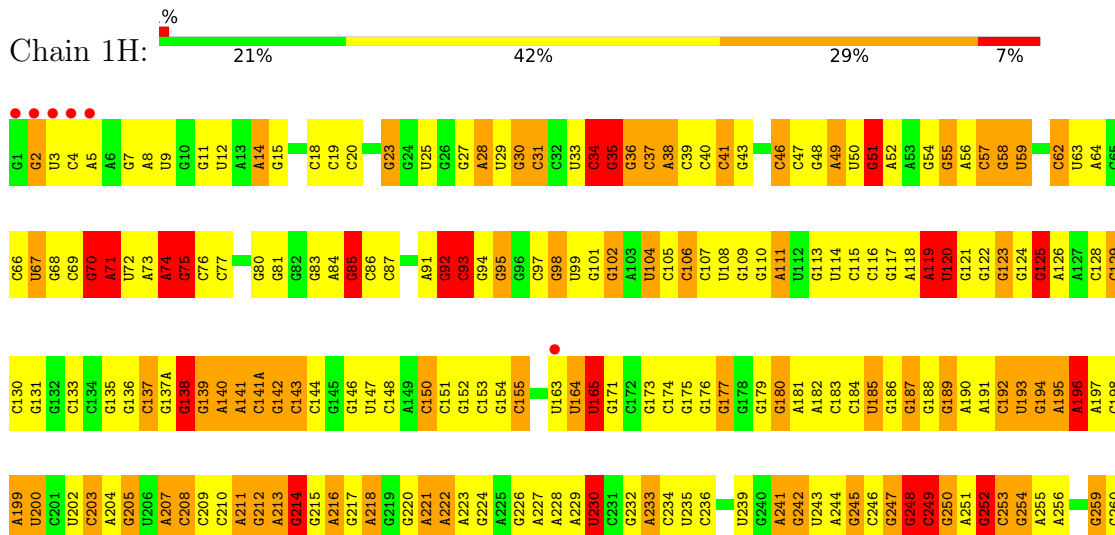
• Molecule 23: mRNA

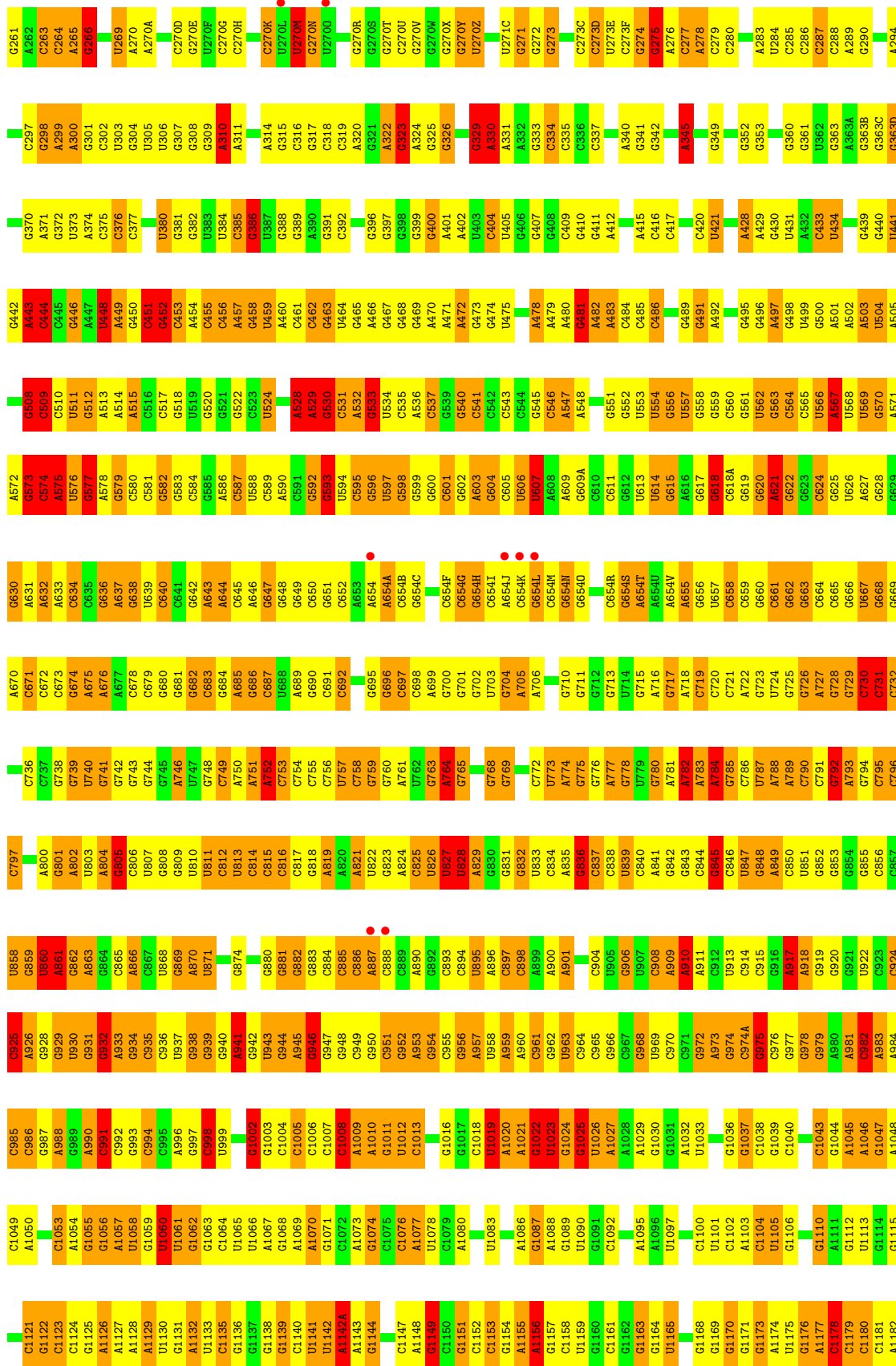


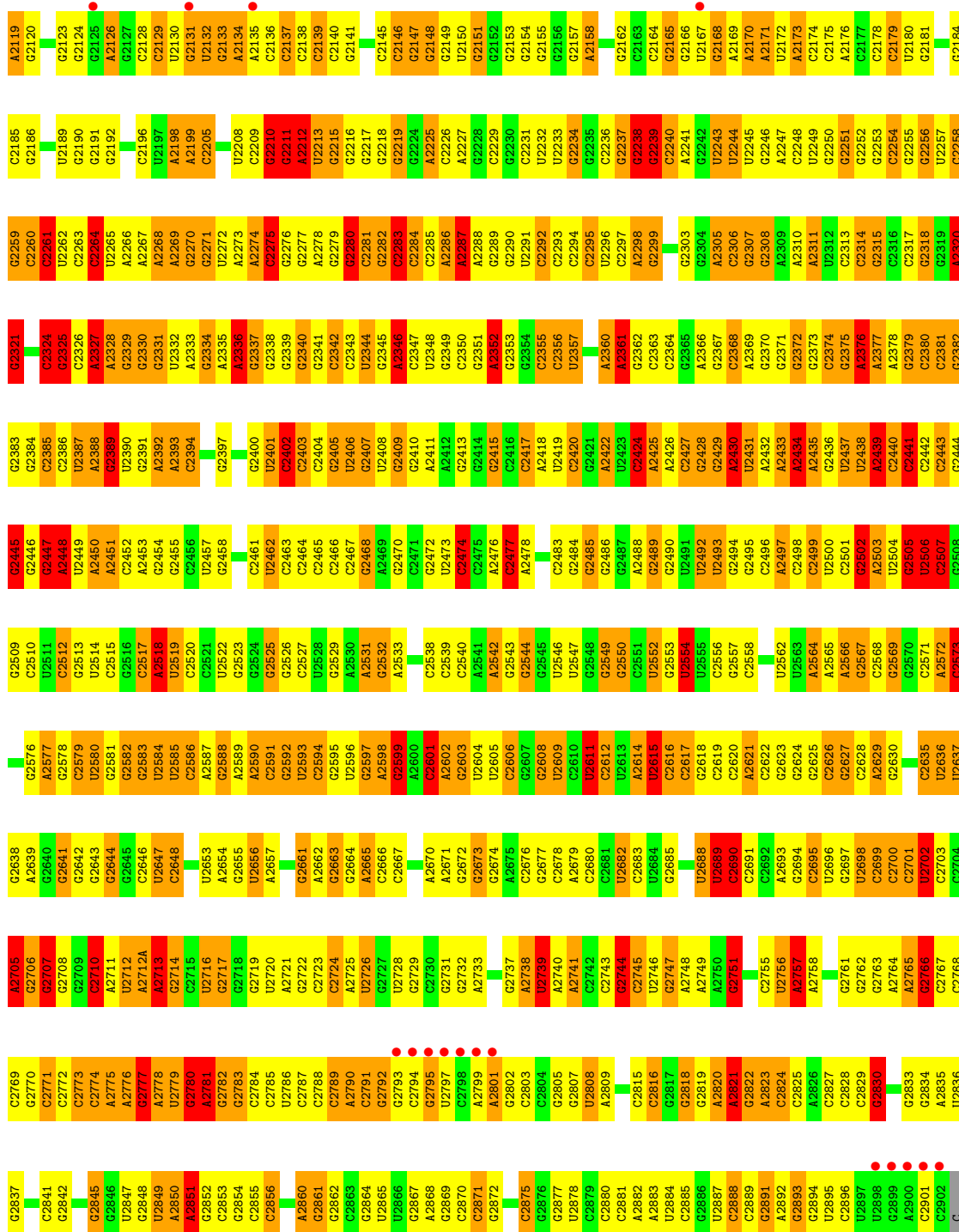
• Molecule 23: mRNA



• Molecule 24: 23S ribosomal RNA







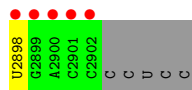
C U C

● Molecule 24: 23S ribosomal RNA

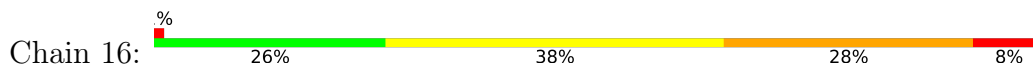


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U72	A73	C137	G137A	G138	G139	A140	A141	C141A	C142	C143	C144	G145	C150	C151	G152	C153	G154	C155	U	U	U161	U162	G171	C174	C175	G176	G177	G178	G179	G180	A181	C184	C185	G186	G187	G188	G189	A190	A191	C192	C193	G194	G259	G260	G261	A196	A197	C198	C199	A199	U200	C201	U202	C203	A204	G205	C208	G212	G213	G214	G215	A126	A127	C128	C129	C130	G131	G132	C133																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
A213	G214	G215	A216	A217	A218	A219	A220	A221	A222	A223	G224	A225	G226	A227	A228	A229	U230	C231	G232	A233	C234	U235	C236	C237	G240	A241	G242	U243	A244	G245	G246	A247	A248	C249	G250	A251	G252	C253	G254	A255	A256	A257	G258	G259	G260	G261	A262	C263	C264	A265	G266	C270D	G270E	U270F	G270G	C270H	C270K																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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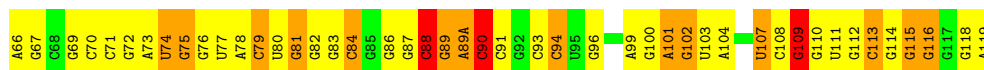
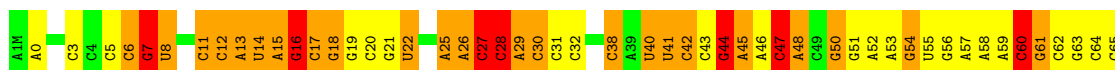
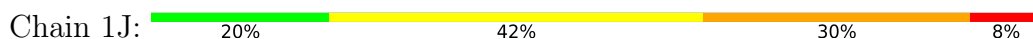
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G1042	G1108	G1167	G1238	C1299	A1366	G1430	A1495	A1566	C1631	U1693	U1778	C1838	C1914
G1044	U1109	U1170	G1239	U1300	A1367	U1431	A1496	A1567	A1632	G1694	A1779	G1839	U1915
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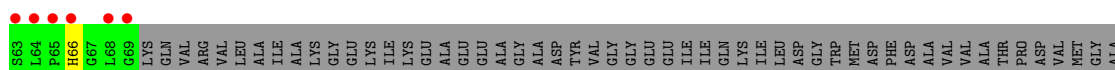
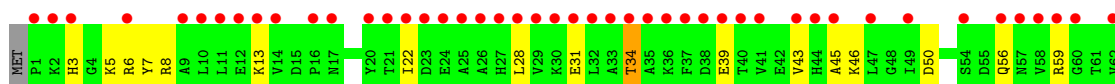
• Molecule 25: 5S ribosomal RNA

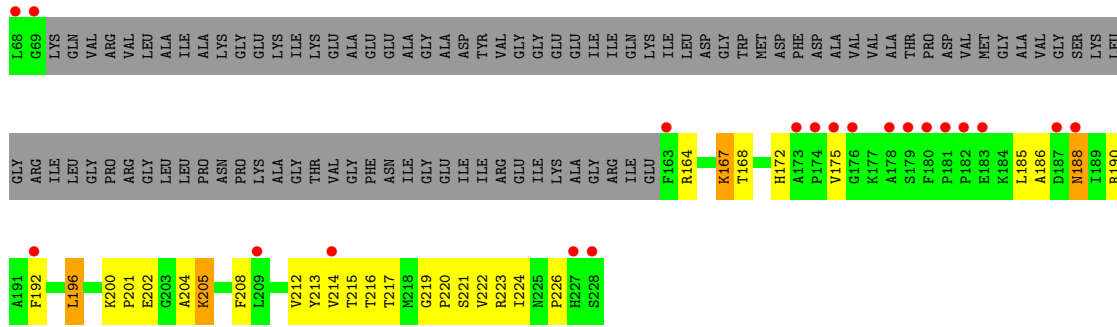


• Molecule 25: 5S ribosomal RNA

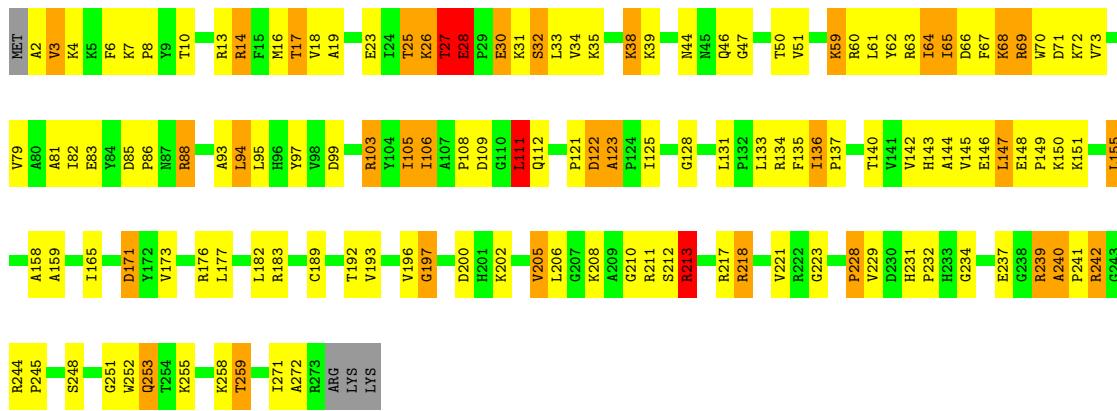


• Molecule 26: 50S ribosomal protein L1

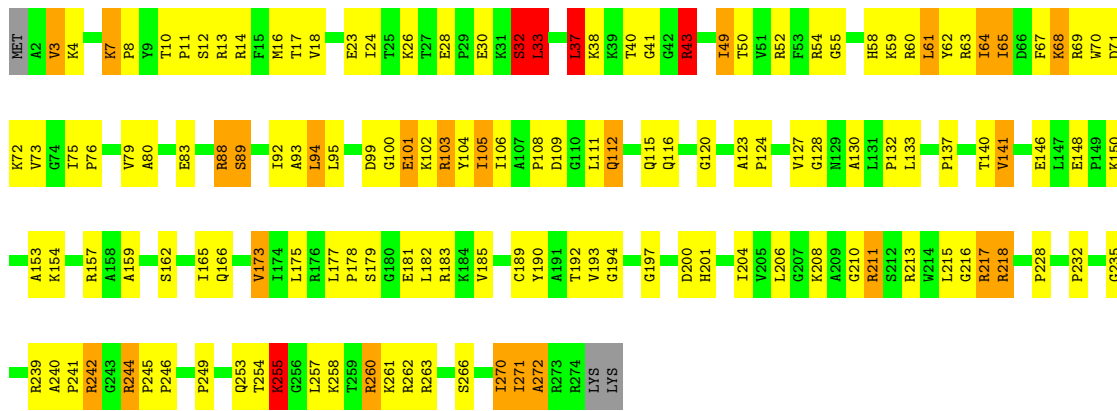




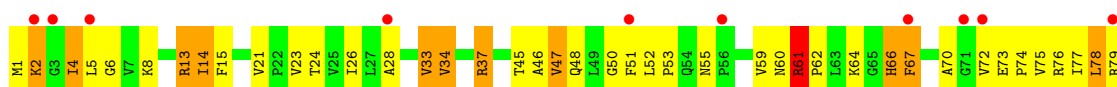
• Molecule 27: 50S ribosomal protein L2

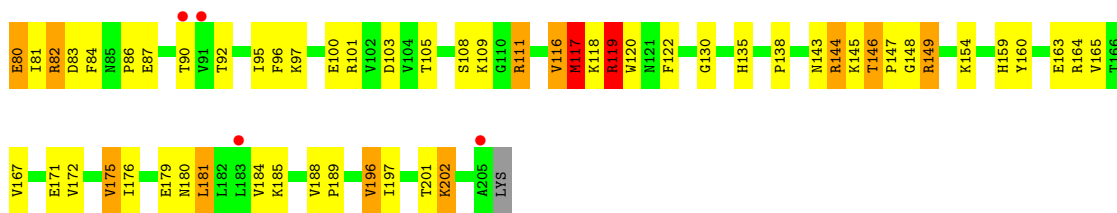


• Molecule 27: 50S ribosomal protein L2

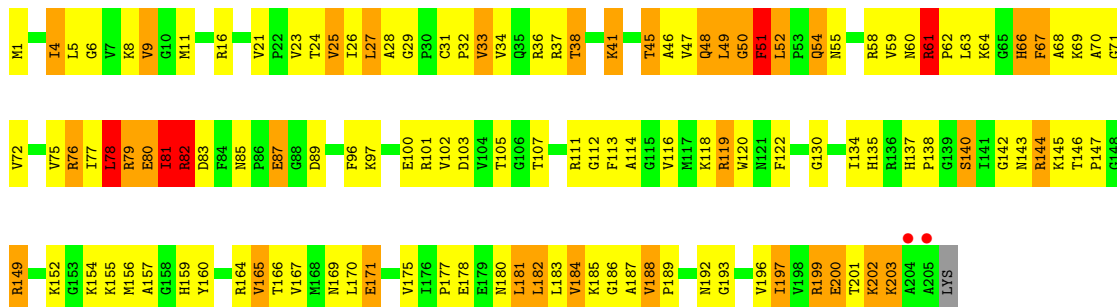


• Molecule 28: 50S ribosomal protein L3

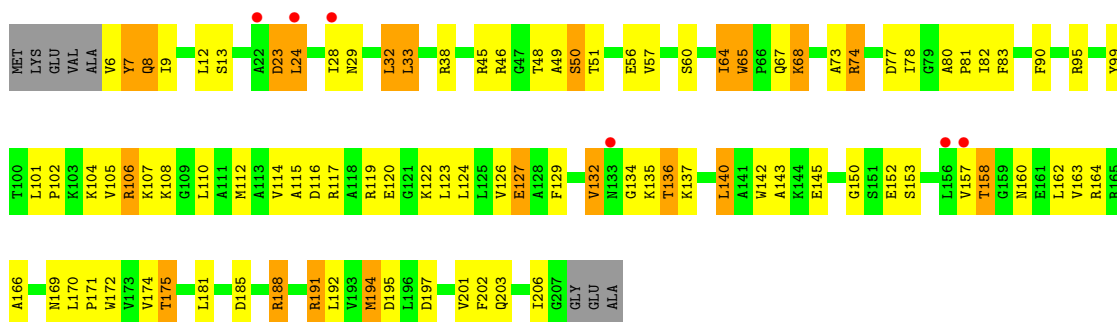




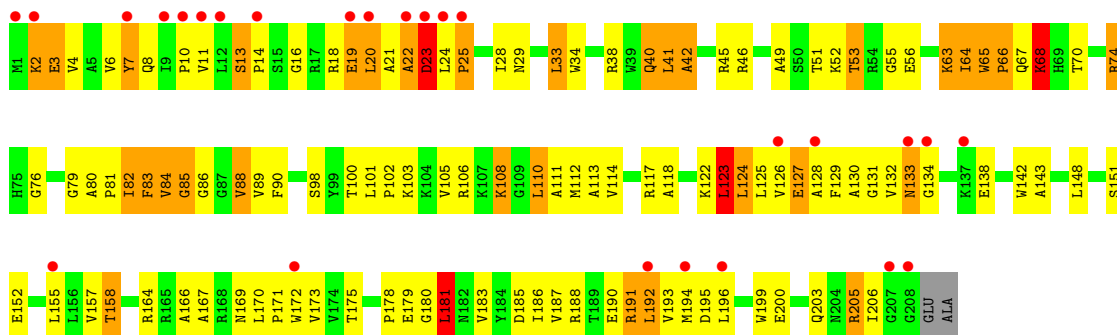
• Molecule 28: 50S ribosomal protein L3



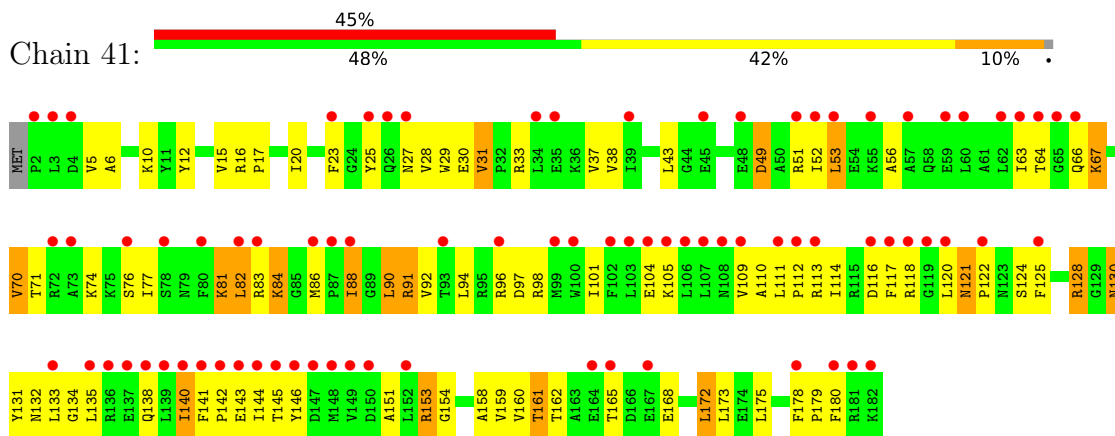
• Molecule 29: 50S ribosomal protein L4



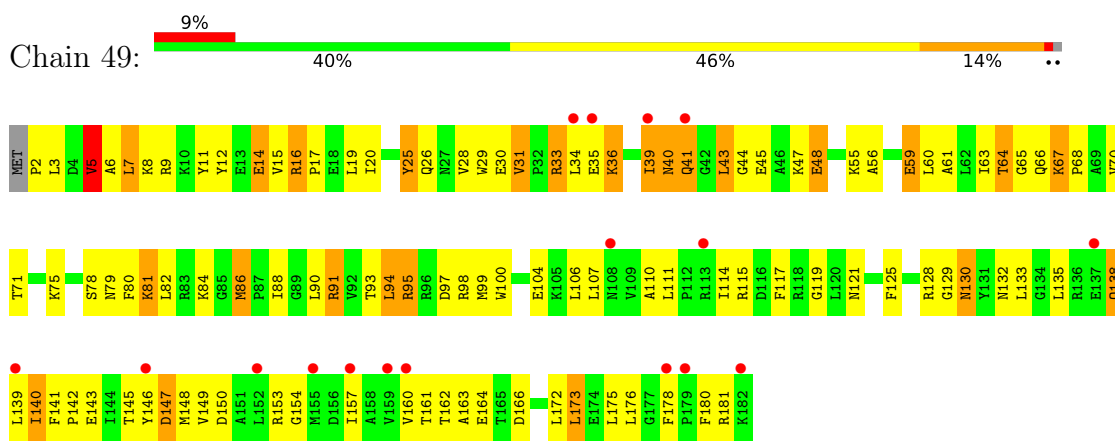
• Molecule 29: 50S ribosomal protein L4



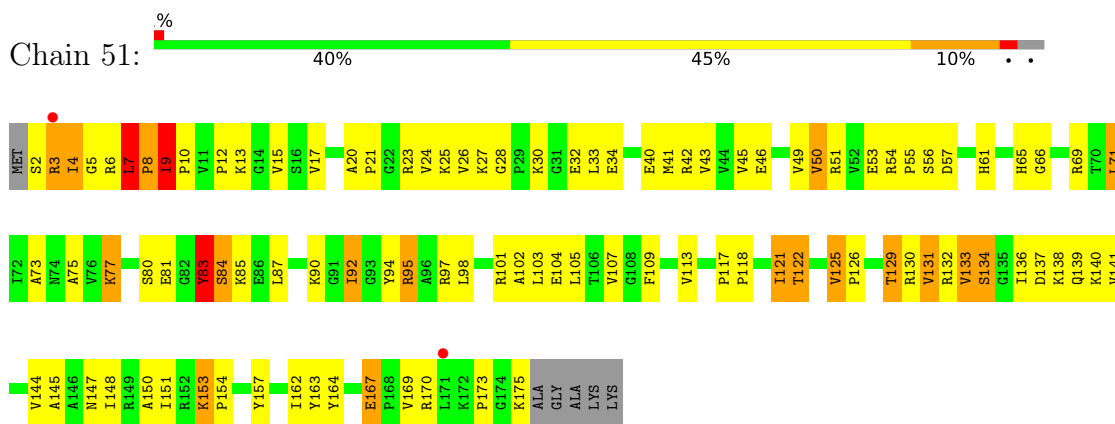
• Molecule 30: 50S ribosomal protein L5



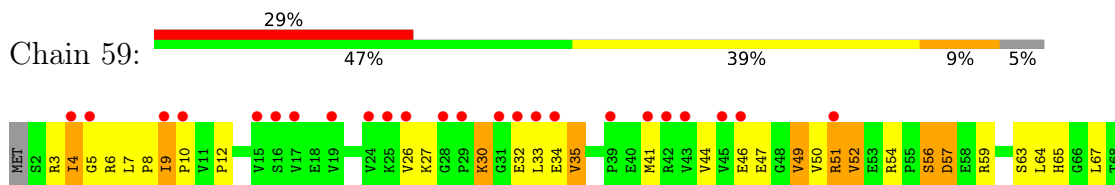
• Molecule 30: 50S ribosomal protein L5

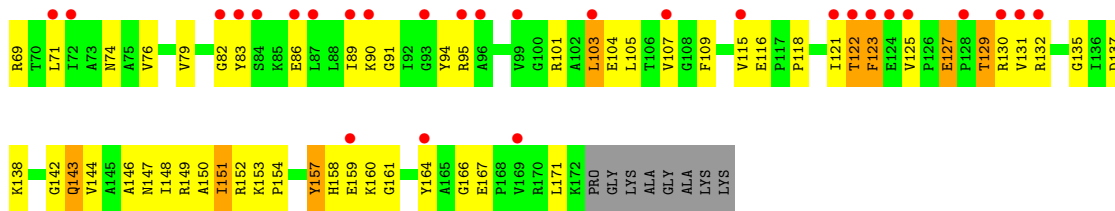


• Molecule 31: 50S ribosomal protein L6

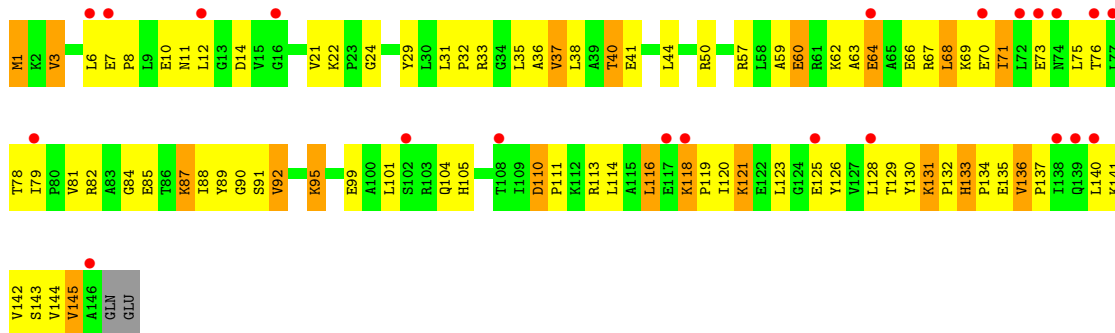


• Molecule 31: 50S ribosomal protein L6

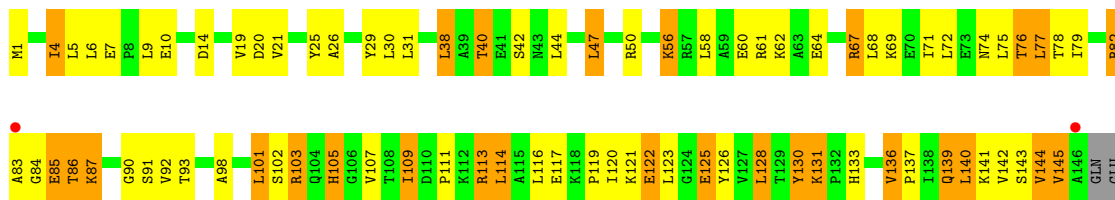
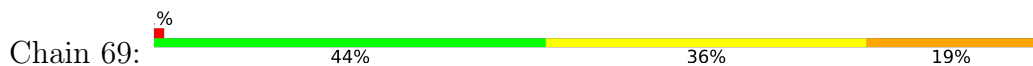




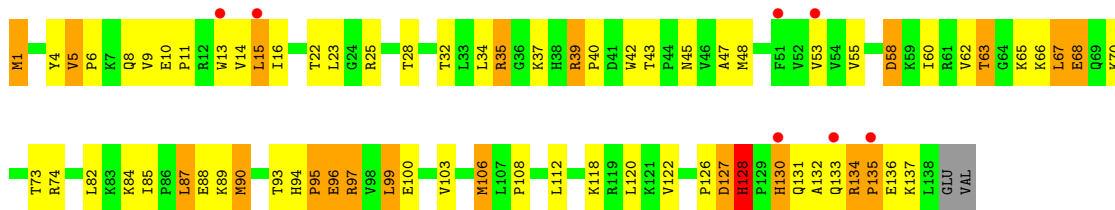
• Molecule 32: 50S ribosomal protein L9



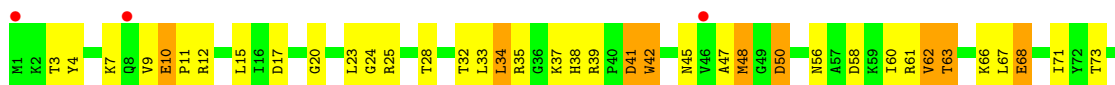
• Molecule 32: 50S ribosomal protein L9

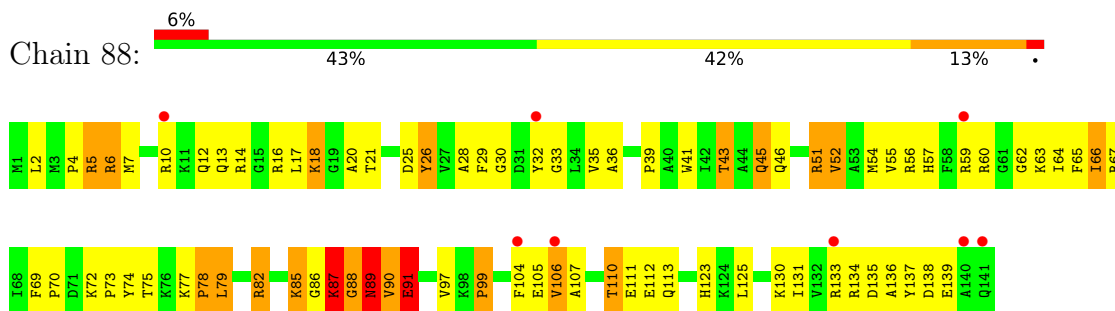


• Molecule 33: 50S ribosomal protein L13

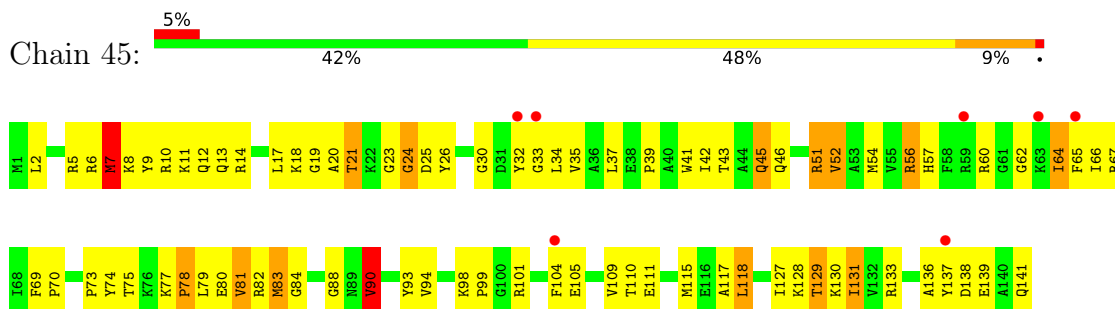


• Molecule 33: 50S ribosomal protein L13

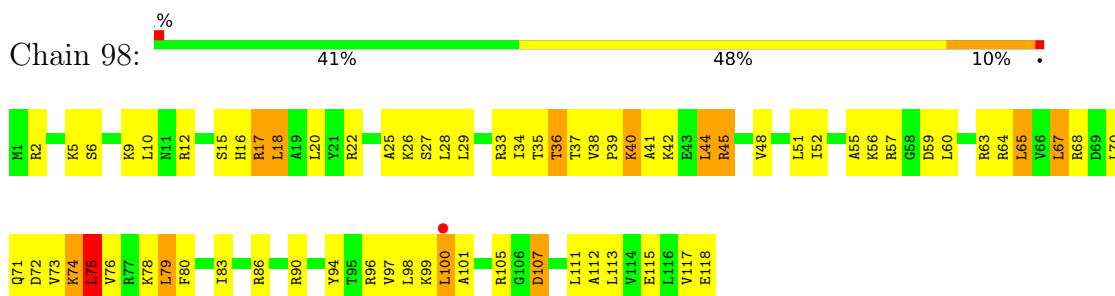




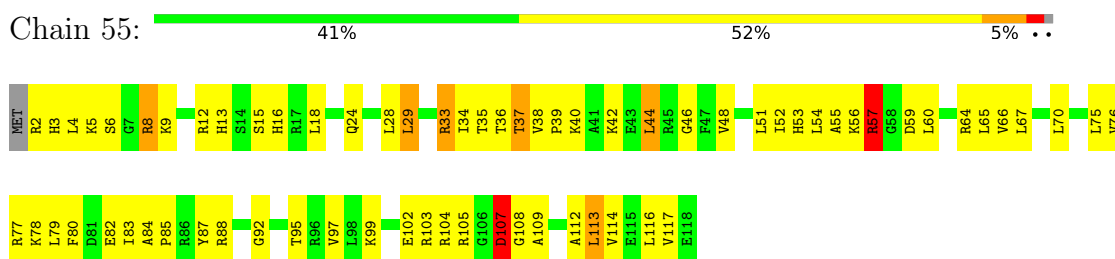
• Molecule 36: 50S ribosomal protein L16



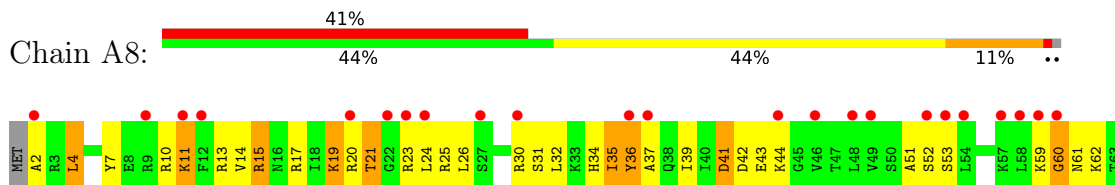
• Molecule 37: 50S ribosomal protein L17



• Molecule 37: 50S ribosomal protein L17

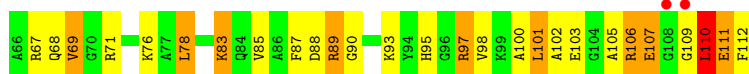
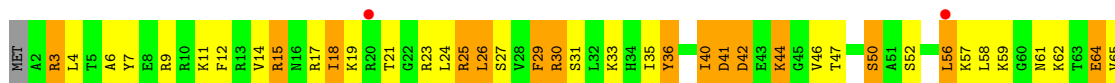


• Molecule 38: 50S ribosomal protein L18





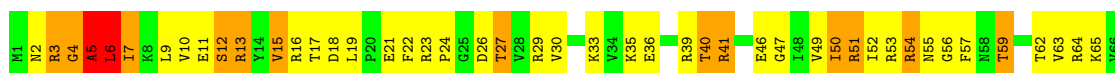
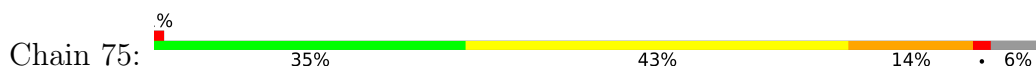
- Molecule 38: 50S ribosomal protein L18



- Molecule 39: 50S ribosomal protein L19



- Molecule 39: 50S ribosomal protein L19

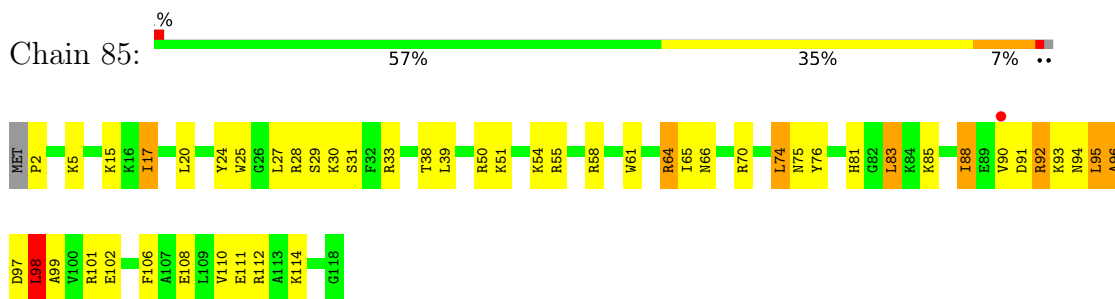


ALA
SER
GLN
GLU

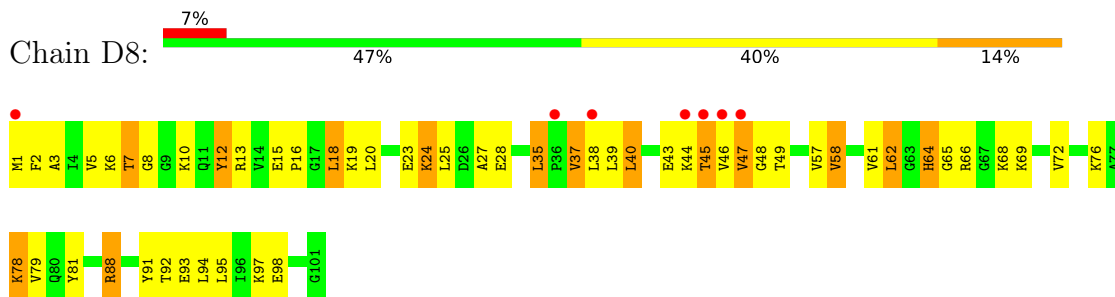
- Molecule 40: 50S ribosomal protein L20



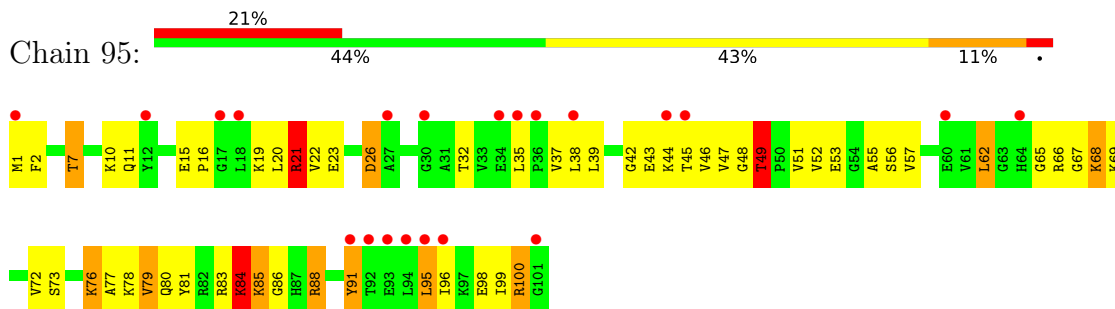
- Molecule 40: 50S ribosomal protein L20



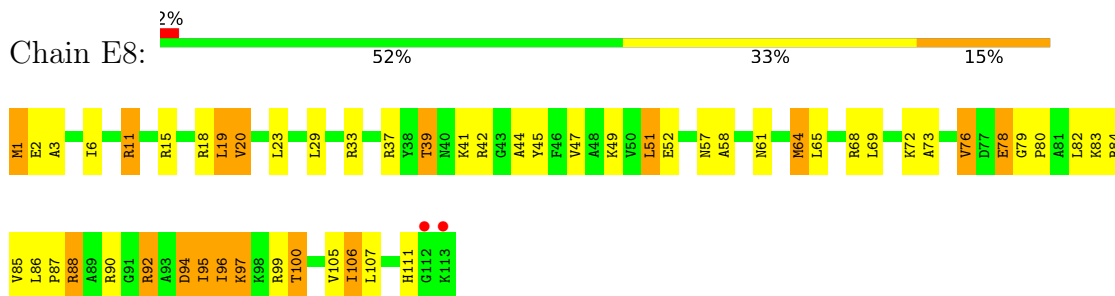
- Molecule 41: 50S ribosomal protein L21



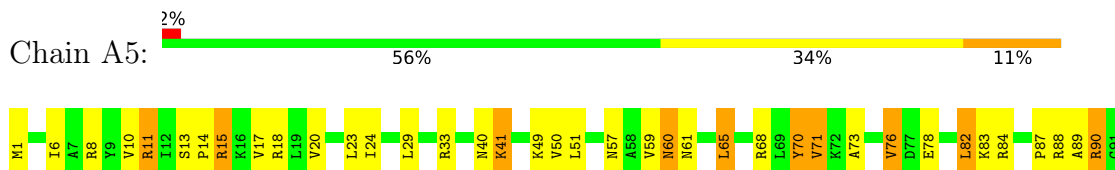
- Molecule 41: 50S ribosomal protein L21

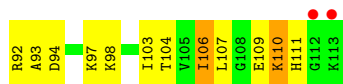


- Molecule 42: 50S ribosomal protein L22

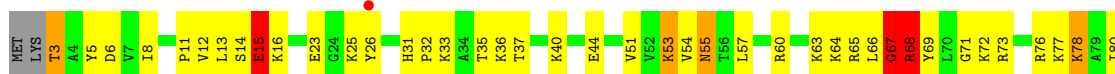


- Molecule 42: 50S ribosomal protein L22





• Molecule 43: 50S ribosomal protein L23



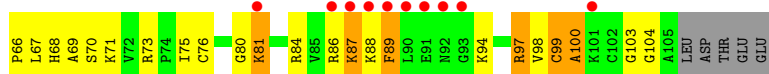
• Molecule 43: 50S ribosomal protein L23



• Molecule 44: 50S ribosomal protein L24

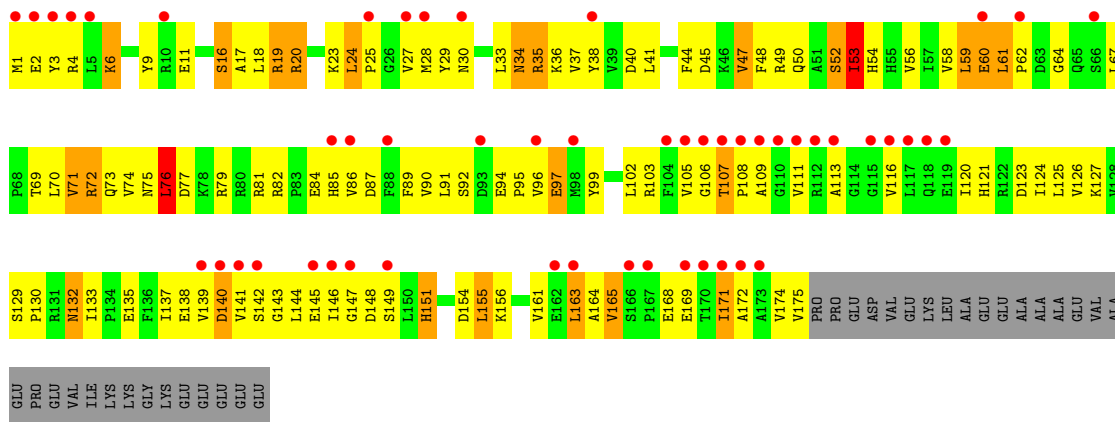


• Molecule 44: 50S ribosomal protein L24

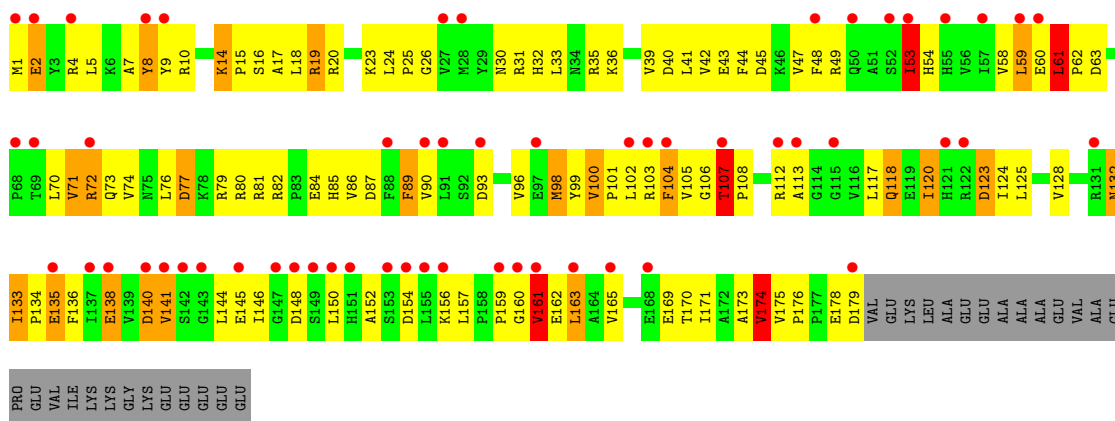


• Molecule 45: 50S ribosomal protein L25

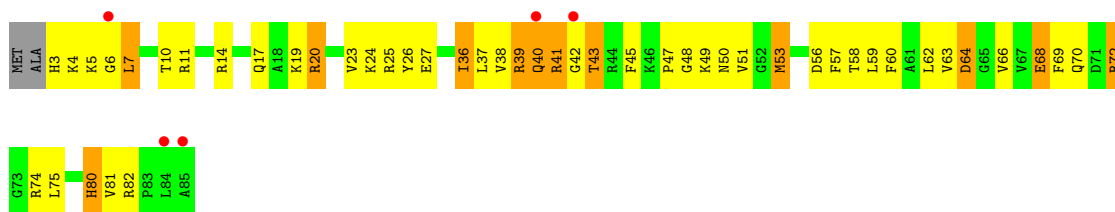




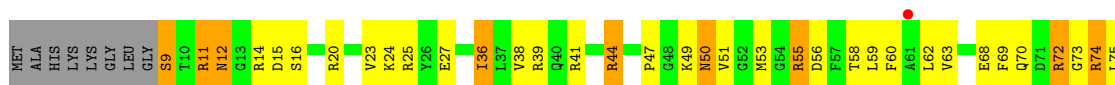
• Molecule 45: 50S ribosomal protein L25

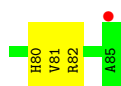


• Molecule 46: 50S ribosomal protein L27

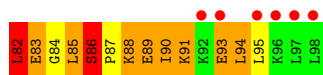
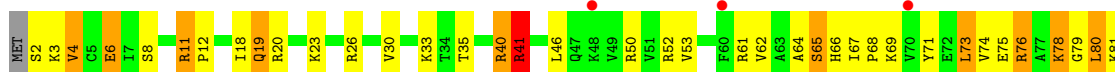


• Molecule 46: 50S ribosomal protein L27

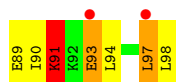
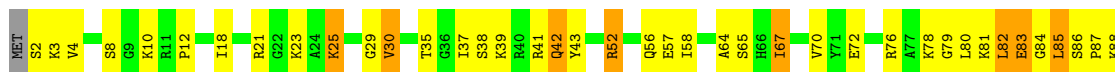




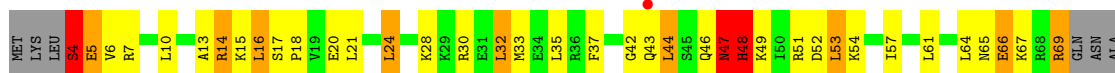
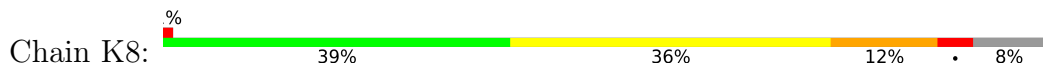
- Molecule 47: 50S ribosomal protein L28



- Molecule 47: 50S ribosomal protein L28



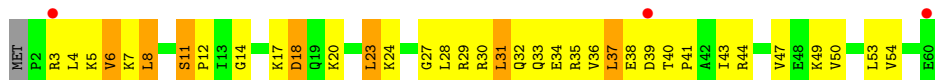
- Molecule 48: 50S ribosomal protein L29



- Molecule 48: 50S ribosomal protein L29

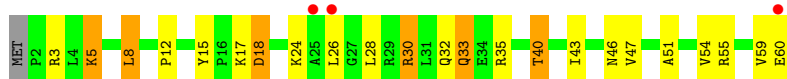


- Molecule 49: 50S ribosomal protein L30

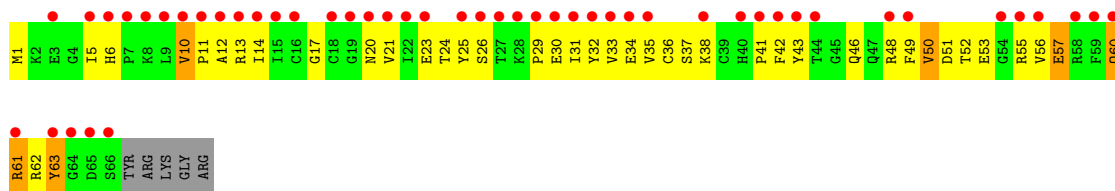


- Molecule 49: 50S ribosomal protein L30

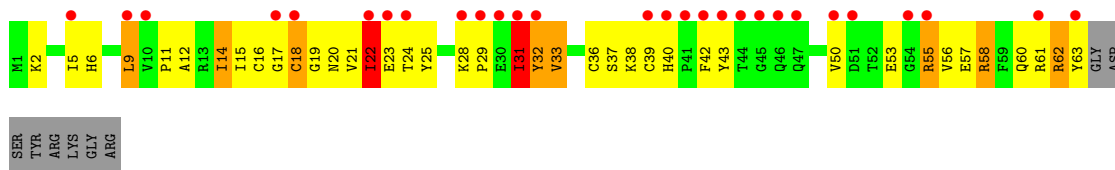




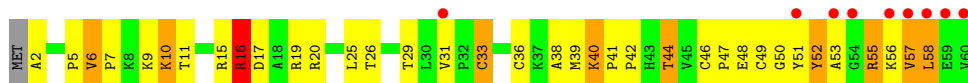
- Molecule 50: 50S ribosomal protein L31



- Molecule 50: 50S ribosomal protein L31



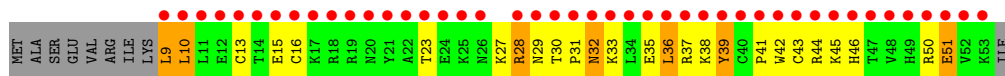
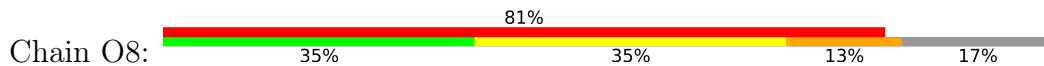
- Molecule 51: 50S ribosomal protein L32



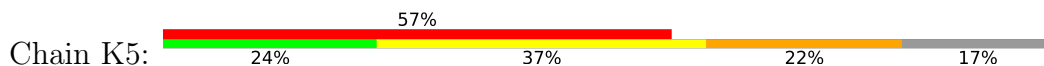
- Molecule 51: 50S ribosomal protein L32

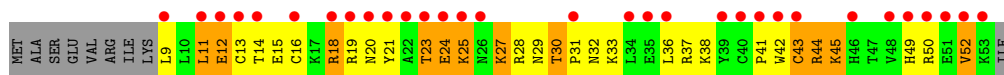


- Molecule 52: 50S ribosomal protein L33



- Molecule 52: 50S ribosomal protein L33

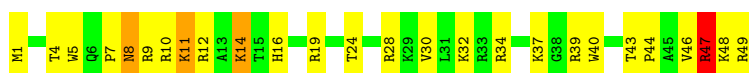




- Molecule 53: 50S ribosomal protein L34



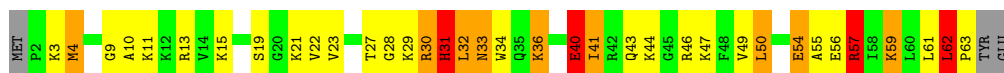
- Molecule 53: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L35



- Molecule 54: 50S ribosomal protein L35



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.70Å 448.40Å 616.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	153.54 – 3.10 253.96 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.8 (153.54-3.10) 91.1 (253.96-3.10)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.83 (at 3.07Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.227 , 0.193 0.193 , 0.229	Depositor DCC
R_{free} test set	2000 reflections (0.19%)	wwPDB-VP
Wilson B-factor (Å ²)	84.3	Xtrriage
Anisotropy	0.119	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 81.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	299705	wwPDB-VP
Average B, all atoms (Å ²)	114.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.48% 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 i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: MG, PSU, MIA, 4SU, 5MU, OMG, ZN, QUO

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	13	0.81	9/36199 (0.0%)	1.50	567/56498 (1.0%)
1	1G	0.81	7/36167 (0.0%)	1.49	517/56448 (0.9%)
2	12	0.39	0/1959	0.65	0/2642
2	1E	0.43	0/1959	0.67	1/2642 (0.0%)
3	22	0.47	0/1636	0.68	0/2205
3	2E	0.47	0/1629	0.63	0/2195
4	32	0.57	0/1732	0.80	1/2318 (0.0%)
4	3E	0.65	2/1732 (0.1%)	0.78	4/2318 (0.2%)
5	42	0.60	0/1171	0.78	0/1576
5	4E	0.59	0/1171	0.77	1/1576 (0.1%)
6	52	0.61	0/855	0.76	2/1154 (0.2%)
6	5E	0.57	0/855	0.72	0/1154
7	62	0.48	0/1275	0.65	0/1709
7	6E	0.47	0/1275	0.62	0/1709
8	72	0.52	0/1135	0.70	0/1527
8	7E	0.52	0/1135	0.78	1/1527 (0.1%)
9	82	0.46	0/1028	0.67	0/1379
9	8E	0.45	0/1028	0.65	1/1379 (0.1%)
10	1A	0.43	0/814	0.66	0/1095
10	1I	0.44	0/814	0.62	0/1095
11	2A	0.57	0/879	0.75	0/1187
11	2I	0.57	0/879	0.74	0/1187
12	3A	0.65	0/991	0.82	0/1327
12	3I	0.68	0/991	0.87	1/1327 (0.1%)
13	4A	0.40	0/943	0.62	0/1265
13	4I	0.40	0/938	0.70	0/1258
14	5A	0.53	0/500	0.74	0/664
14	5I	0.56	0/500	0.77	1/664 (0.2%)
15	6A	0.61	0/744	0.72	0/992
15	6I	0.59	0/744	0.78	0/992
16	7A	0.59	0/721	0.76	0/970
16	7I	0.51	0/721	0.80	1/970 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.62	0/847	0.76	0/1131
17	8I	0.55	0/847	0.74	0/1131
18	9A	0.58	0/595	0.79	2/790 (0.3%)
18	9I	0.52	0/595	0.73	1/790 (0.1%)
19	AA	0.43	0/647	0.71	0/871
19	AI	0.41	0/680	0.70	0/915
20	BA	0.57	0/764	0.80	1/1007 (0.1%)
20	BI	0.44	0/764	0.72	0/1007
21	1B	0.44	0/221	0.69	0/288
21	1F	0.43	0/221	0.65	0/288
22	2K	0.82	0/1784	1.60	34/2771 (1.2%)
22	2L	0.83	0/1686	1.53	26/2618 (1.0%)
22	3K	0.45	0/1850	1.08	5/2875 (0.2%)
22	3L	0.50	0/1851	1.15	10/2877 (0.3%)
23	4K	1.22	0/392	1.69	14/609 (2.3%)
23	4L	0.96	0/190	1.70	5/293 (1.7%)
24	14	1.10	158/70167 (0.2%)	1.83	2510/109541 (2.3%)
24	1H	1.18	231/70233 (0.3%)	1.95	3196/109643 (2.9%)
25	16	0.89	0/2928	1.59	63/4568 (1.4%)
25	1J	0.85	0/2928	1.68	64/4568 (1.4%)
26	71	0.29	0/1072	0.51	0/1447
26	79	0.29	0/1072	0.48	0/1447
27	11	0.97	2/2165 (0.1%)	1.12	8/2919 (0.3%)
27	19	0.88	1/2170 (0.0%)	1.05	8/2926 (0.3%)
28	21	0.73	0/1601	0.97	4/2160 (0.2%)
28	29	0.80	0/1601	1.01	5/2160 (0.2%)
29	31	0.86	0/1620	0.99	2/2194 (0.1%)
29	39	0.73	1/1662 (0.1%)	0.94	3/2249 (0.1%)
30	41	0.44	0/1498	0.65	0/2016
30	49	0.45	0/1498	0.67	0/2016
31	51	0.63	0/1362	0.89	1/1841 (0.1%)
31	59	0.37	0/1337	0.69	0/1809
32	61	0.56	0/1151	0.83	3/1558 (0.2%)
32	69	0.54	0/1151	0.76	1/1558 (0.1%)
33	15	0.61	0/1131	0.81	0/1525
33	58	0.67	0/1131	0.83	0/1525
34	25	0.82	0/942	0.89	1/1269 (0.1%)
34	68	0.76	0/942	0.84	0/1269
35	35	0.76	1/1161 (0.1%)	1.10	5/1544 (0.3%)
35	78	0.83	0/1161	1.19	8/1544 (0.5%)
36	45	0.71	0/1142	0.97	3/1527 (0.2%)
36	88	0.82	2/1142 (0.2%)	0.99	3/1527 (0.2%)
37	55	0.77	0/973	1.03	3/1302 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	98	0.70	0/981	0.96	1/1312 (0.1%)
38	65	0.61	0/891	0.88	1/1187 (0.1%)
38	A8	0.62	0/891	0.88	2/1187 (0.2%)
39	75	0.76	0/1145	0.95	2/1531 (0.1%)
39	B8	0.71	0/1155	0.88	1/1542 (0.1%)
40	85	0.69	0/981	0.84	2/1306 (0.2%)
40	C8	0.78	0/981	0.84	0/1306
41	95	4.12	8/789 (1.0%)	1.45	6/1057 (0.6%)
41	D8	0.73	0/789	0.89	2/1057 (0.2%)
42	A5	0.75	0/910	0.89	1/1220 (0.1%)
42	E8	0.79	0/910	0.93	3/1220 (0.2%)
43	B5	0.88	1/744 (0.1%)	0.85	0/1000
43	F8	0.95	1/739 (0.1%)	0.89	0/993
44	C5	0.69	0/807	0.93	1/1076 (0.1%)
44	G8	0.90	1/804 (0.1%)	1.06	3/1073 (0.3%)
45	D5	0.47	0/1460	0.71	0/1982
45	H8	0.45	0/1427	0.73	2/1935 (0.1%)
46	E5	0.72	0/620	0.93	0/827
46	I8	0.83	0/665	1.01	3/885 (0.3%)
47	F5	0.74	0/769	0.92	1/1022 (0.1%)
47	J8	0.78	0/769	1.09	6/1022 (0.6%)
48	G5	0.68	2/582 (0.3%)	0.89	1/771 (0.1%)
48	K8	1.01	2/560 (0.4%)	0.97	0/741
49	H5	0.61	0/473	0.81	0/635
49	L8	0.70	0/473	0.91	0/635
50	I5	0.44	0/527	0.68	0/709
50	M8	0.36	0/545	0.59	0/733
51	J5	0.65	0/472	0.84	0/639
51	N8	0.80	0/472	0.98	2/639 (0.3%)
52	K5	0.57	0/396	0.77	0/529
52	O8	0.51	0/396	0.72	0/529
53	L5	0.84	0/437	1.05	3/575 (0.5%)
53	P8	1.01	0/417	1.18	3/550 (0.5%)
54	M5	0.97	1/502 (0.2%)	1.27	5/661 (0.8%)
54	Q8	1.08	1/488 (0.2%)	1.19	2/641 (0.3%)
All	All	0.95	431/321962 (0.1%)	1.56	7140/481589 (1.5%)

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
2	12	0	2
2	1E	0	1
3	22	0	1
4	3E	0	3
9	82	0	2
12	3A	0	4
14	5I	0	1
19	AA	0	1
19	AI	0	3
20	BA	0	2
27	11	0	4
27	19	0	5
28	29	0	7
29	31	0	1
29	39	0	1
30	49	0	1
31	59	0	1
32	61	0	1
33	15	0	1
34	25	0	1
35	35	0	7
35	78	0	7
36	45	0	1
36	88	0	3
38	65	0	1
38	A8	0	2
39	75	0	3
39	B8	0	1
40	85	0	1
41	95	0	2
43	F8	0	1
44	C5	0	3
44	G8	0	5
45	D5	0	3
47	F5	0	2
47	J8	0	2
48	K8	0	2
49	L8	0	1
51	J5	0	1
52	K5	0	1
53	P8	0	2
54	M5	0	2
54	Q8	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
All	All	0	100

The worst 5 of 431 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	95	91	TYR	CD1-CE1	59.58	2.28	1.39
41	95	91	TYR	CD2-CE2	57.56	2.25	1.39
41	95	91	TYR	CE2-CZ	41.48	1.92	1.38
41	95	91	TYR	CE1-CZ	39.94	1.90	1.38
41	95	91	TYR	CG-CD2	31.31	1.79	1.39

The worst 5 of 7140 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	1H	1332	G	N3-C4-N9	-24.58	111.25	126.00
24	1H	1332	G	N3-C4-C5	23.29	140.25	128.60
41	95	21	ARG	CD-NE-CZ	23.04	155.86	123.60
24	1H	1899	G	N3-C4-N9	-22.45	112.53	126.00
41	95	21	ARG	NE-CZ-NH1	22.42	131.51	120.30

There are no chirality outliers.

5 of 100 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	71	VAL	Peptide
4	3E	166	LYS	Peptide
4	3E	193	ASP	Peptide
4	3E	29	PRO	Peptide
14	5I	13	THR	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	13	32337	0	16321	890	0
1	1G	32309	0	16307	834	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	12	1924	0	1975	95	0
2	1E	1924	0	1975	120	0
3	22	1612	0	1677	92	0
3	2E	1605	0	1668	72	0
4	32	1702	0	1763	112	1
4	3E	1702	0	1763	83	0
5	42	1155	0	1213	70	0
5	4E	1155	0	1213	52	0
6	52	842	0	857	38	0
6	5E	842	0	857	43	1
7	62	1256	0	1296	41	0
7	6E	1256	0	1296	55	0
8	72	1115	0	1177	50	0
8	7E	1115	0	1177	71	0
9	82	1009	0	1037	72	0
9	8E	1009	0	1037	67	0
10	1A	801	0	849	55	0
10	1I	801	0	849	44	0
11	2A	864	0	881	27	0
11	2I	864	0	881	39	0
12	3A	975	0	1062	39	0
12	3I	975	0	1062	43	0
13	4A	933	0	992	57	0
13	4I	928	0	987	50	0
14	5A	491	0	529	36	0
14	5I	491	0	529	45	0
15	6A	733	0	771	28	0
15	6I	733	0	771	36	0
16	7A	705	0	725	34	0
16	7I	705	0	725	47	0
17	8A	834	0	904	44	0
17	8I	834	0	904	47	0
18	9A	590	0	662	26	0
18	9I	590	0	662	20	0
19	AA	633	0	649	46	0
19	AI	665	0	686	36	0
20	BA	762	0	861	37	0
20	BI	762	0	861	54	0
21	1B	217	0	234	17	0
21	1F	217	0	234	12	0
22	2K	1765	0	916	65	0
22	2L	1678	0	872	64	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	3K	1824	0	945	58	0
22	3L	1825	0	946	52	0
23	4K	348	0	175	9	0
23	4L	170	0	87	3	0
24	14	62647	0	31572	1458	0
24	1H	62707	0	31606	1603	0
25	16	2617	0	1328	87	0
25	1J	2617	0	1328	93	0
26	71	1049	0	1071	31	0
26	79	1049	0	1071	42	0
27	11	2115	0	2195	134	0
27	19	2120	0	2197	114	0
28	21	1568	0	1634	95	0
28	29	1568	0	1634	121	0
29	31	1585	0	1632	79	0
29	39	1627	0	1680	103	0
30	41	1473	0	1535	72	0
30	49	1473	0	1535	89	0
31	51	1336	0	1418	89	0
31	59	1312	0	1384	64	0
32	61	1136	0	1223	55	0
32	69	1136	0	1223	65	0
33	15	1104	0	1180	47	0
33	58	1104	0	1180	51	0
34	25	932	0	996	39	0
34	68	932	0	996	32	0
35	35	1144	0	1228	81	0
35	78	1144	0	1228	90	0
36	45	1121	0	1179	71	0
36	88	1121	0	1179	84	0
37	55	959	0	1021	54	0
37	98	967	0	1033	68	0
38	65	881	0	943	77	0
38	A8	881	0	943	49	0
39	75	1131	0	1180	86	0
39	B8	1141	0	1202	58	0
40	85	963	0	1022	54	0
40	C8	963	0	1022	60	0
41	95	778	0	852	86	0
41	D8	778	0	852	32	0
42	A5	899	0	964	34	0
42	E8	899	0	964	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	B5	730	0	780	39	0
43	F8	725	0	778	46	0
44	C5	794	0	884	58	0
44	G8	791	0	880	67	0
45	D5	1428	0	1454	89	0
45	H8	1397	0	1430	86	0
46	E5	612	0	633	39	0
46	I8	656	0	683	55	0
47	F5	762	0	848	35	0
47	J8	762	0	848	47	0
48	G5	580	0	629	29	0
48	K8	558	0	610	30	0
49	H5	468	0	518	14	0
49	L8	468	0	518	36	0
50	I5	515	0	514	43	0
50	M8	533	0	526	40	0
51	J5	458	0	480	20	0
51	N8	458	0	480	36	0
52	K5	389	0	404	24	0
52	O8	389	0	404	27	0
53	L5	429	0	480	33	0
53	P8	409	0	454	20	0
54	M5	495	0	567	37	0
54	Q8	483	0	555	42	0
55	11	2	0	0	0	0
55	13	139	0	0	0	0
55	14	465	0	0	0	0
55	15	1	0	0	0	0
55	16	15	0	0	0	0
55	19	1	0	0	0	0
55	1G	148	0	0	0	0
55	1H	523	0	0	0	0
55	1J	10	0	0	0	0
55	21	2	0	0	0	0
55	25	1	0	0	0	0
55	29	4	0	0	0	0
55	2K	5	0	0	0	0
55	2L	4	0	0	0	0
55	32	1	0	0	0	0
55	39	1	0	0	0	0
55	3A	1	0	0	0	0
55	3E	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	3I	1	0	0	0	0
55	3L	1	0	0	0	0
55	42	1	0	0	0	0
55	45	1	0	0	0	0
55	4A	1	0	0	0	0
55	4K	1	0	0	0	0
55	52	1	0	0	0	0
55	55	1	0	0	0	0
55	5E	1	0	0	0	0
55	7E	1	0	0	0	0
55	88	1	0	0	0	0
55	98	1	0	0	0	0
55	C5	1	0	0	0	0
55	E5	1	0	0	0	0
55	F5	1	0	0	0	0
55	G8	1	0	0	0	0
55	I8	3	0	0	0	0
55	Q8	2	0	0	0	0
56	32	1	0	0	0	0
56	3E	1	0	0	0	0
56	5A	1	0	0	0	0
56	5I	1	0	0	0	0
56	C5	1	0	0	0	0
56	G8	1	0	0	0	0
57	11	8	0	0	2	0
57	13	125	0	0	23	0
57	14	523	0	0	116	0
57	16	12	0	0	3	0
57	19	11	0	0	3	0
57	1G	96	0	0	18	0
57	1H	652	0	0	172	0
57	1J	22	0	0	2	0
57	21	2	0	0	2	0
57	25	6	0	0	0	0
57	2K	2	0	0	0	0
57	2L	6	0	0	0	0
57	31	5	0	0	0	0
57	32	1	0	0	0	0
57	35	1	0	0	0	0
57	39	3	0	0	0	0
57	4K	3	0	0	0	0
57	5A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	5I	1	0	0	0	0
57	75	1	0	0	0	0
57	78	4	0	0	2	0
57	7A	2	0	0	0	0
57	85	4	0	0	0	0
57	98	1	0	0	2	0
57	AI	3	0	0	0	0
57	BA	1	0	0	0	0
57	C8	2	0	0	0	0
57	E8	1	0	0	0	0
57	F5	1	0	0	0	0
57	F8	2	0	0	0	0
57	G8	2	0	0	1	0
57	H5	2	0	0	0	0
All	All	299705	0	201607	9341	1

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 20.

The worst 5 of 9341 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)
41:95:91:TYR:CG	41:95:91:TYR:CD1	1.79	1.67
41:95:91:TYR:CG	41:95:91:TYR:CD2	1.79	1.65
41:95:91:TYR:CE1	41:95:91:TYR:CZ	1.90	1.56
41:95:91:TYR:CZ	41:95:91:TYR:CE2	1.92	1.55
22:2K:35:QUO:C4	22:2K:35:QUO:N3	1.68	1.55

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:15:ASP:OD1	4:32:27:TYR:OH[4_555]	2.04	0.16

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	
2	12	235/256 (92%)	196 (83%)	35 (15%)	4 (2%)	9	36
2	1E	235/256 (92%)	199 (85%)	32 (14%)	4 (2%)	9	36
3	22	204/239 (85%)	175 (86%)	29 (14%)	0	100	100
3	2E	203/239 (85%)	185 (91%)	18 (9%)	0	100	100
4	32	206/209 (99%)	176 (85%)	26 (13%)	4 (2%)	8	33
4	3E	206/209 (99%)	191 (93%)	15 (7%)	0	100	100
5	42	149/162 (92%)	142 (95%)	7 (5%)	0	100	100
5	4E	149/162 (92%)	141 (95%)	7 (5%)	1 (1%)	22	57
6	52	99/101 (98%)	95 (96%)	4 (4%)	0	100	100
6	5E	99/101 (98%)	93 (94%)	6 (6%)	0	100	100
7	62	153/156 (98%)	145 (95%)	8 (5%)	0	100	100
7	6E	153/156 (98%)	142 (93%)	11 (7%)	0	100	100
8	72	136/138 (99%)	127 (93%)	7 (5%)	2 (2%)	10	39
8	7E	136/138 (99%)	125 (92%)	11 (8%)	0	100	100
9	82	125/128 (98%)	112 (90%)	12 (10%)	1 (1%)	19	54
9	8E	125/128 (98%)	114 (91%)	11 (9%)	0	100	100
10	1A	97/105 (92%)	85 (88%)	12 (12%)	0	100	100
10	1I	97/105 (92%)	84 (87%)	13 (13%)	0	100	100
11	2A	114/129 (88%)	102 (90%)	12 (10%)	0	100	100
11	2I	114/129 (88%)	102 (90%)	11 (10%)	1 (1%)	17	52
12	3A	123/132 (93%)	111 (90%)	12 (10%)	0	100	100
12	3I	123/132 (93%)	112 (91%)	11 (9%)	0	100	100
13	4A	115/126 (91%)	98 (85%)	12 (10%)	5 (4%)	2	16
13	4I	114/126 (90%)	98 (86%)	16 (14%)	0	100	100
14	5A	58/61 (95%)	48 (83%)	10 (17%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	5I	58/61 (95%)	52 (90%)	5 (9%)	1 (2%)	9	36
15	6A	86/89 (97%)	80 (93%)	6 (7%)	0	100	100
15	6I	86/89 (97%)	77 (90%)	9 (10%)	0	100	100
16	7A	82/88 (93%)	76 (93%)	5 (6%)	1 (1%)	13	44
16	7I	82/88 (93%)	79 (96%)	3 (4%)	0	100	100
17	8A	98/105 (93%)	92 (94%)	6 (6%)	0	100	100
17	8I	98/105 (93%)	90 (92%)	7 (7%)	1 (1%)	15	49
18	9A	70/88 (80%)	65 (93%)	5 (7%)	0	100	100
18	9I	70/88 (80%)	63 (90%)	6 (9%)	1 (1%)	11	40
19	AA	77/93 (83%)	57 (74%)	17 (22%)	3 (4%)	3	18
19	AI	81/93 (87%)	66 (82%)	13 (16%)	2 (2%)	5	27
20	BA	97/106 (92%)	83 (86%)	14 (14%)	0	100	100
20	BI	97/106 (92%)	84 (87%)	13 (13%)	0	100	100
21	1B	23/27 (85%)	22 (96%)	1 (4%)	0	100	100
21	1F	23/27 (85%)	21 (91%)	2 (9%)	0	100	100
26	7I	131/229 (57%)	130 (99%)	1 (1%)	0	100	100
26	79	131/229 (57%)	129 (98%)	2 (2%)	0	100	100
27	11	270/276 (98%)	254 (94%)	12 (4%)	4 (2%)	10	39
27	19	271/276 (98%)	253 (93%)	15 (6%)	3 (1%)	14	46
28	21	203/206 (98%)	174 (86%)	28 (14%)	1 (0%)	29	64
28	29	203/206 (98%)	160 (79%)	34 (17%)	9 (4%)	2	15
29	31	200/210 (95%)	189 (94%)	10 (5%)	1 (0%)	29	64
29	39	206/210 (98%)	176 (85%)	21 (10%)	9 (4%)	2	15
30	41	179/182 (98%)	154 (86%)	24 (13%)	1 (1%)	25	59
30	49	179/182 (98%)	151 (84%)	25 (14%)	3 (2%)	9	36
31	51	172/180 (96%)	146 (85%)	20 (12%)	6 (4%)	3	20
31	59	169/180 (94%)	133 (79%)	35 (21%)	1 (1%)	25	59
32	61	144/148 (97%)	120 (83%)	21 (15%)	3 (2%)	7	30
32	69	144/148 (97%)	122 (85%)	19 (13%)	3 (2%)	7	30
33	15	136/140 (97%)	128 (94%)	7 (5%)	1 (1%)	22	57
33	58	136/140 (97%)	116 (85%)	13 (10%)	7 (5%)	2	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	25	120/122 (98%)	111 (92%)	9 (8%)	0	100	100
34	68	120/122 (98%)	115 (96%)	4 (3%)	1 (1%)	19	54
35	35	148/150 (99%)	118 (80%)	24 (16%)	6 (4%)	3	16
35	78	148/150 (99%)	117 (79%)	28 (19%)	3 (2%)	7	31
36	45	139/141 (99%)	114 (82%)	20 (14%)	5 (4%)	3	20
36	88	139/141 (99%)	111 (80%)	23 (16%)	5 (4%)	3	20
37	55	115/118 (98%)	103 (90%)	11 (10%)	1 (1%)	17	52
37	98	116/118 (98%)	104 (90%)	10 (9%)	2 (2%)	9	36
38	65	109/112 (97%)	93 (85%)	14 (13%)	2 (2%)	8	34
38	A8	109/112 (97%)	94 (86%)	13 (12%)	2 (2%)	8	34
39	75	135/146 (92%)	113 (84%)	19 (14%)	3 (2%)	6	29
39	B8	135/146 (92%)	117 (87%)	18 (13%)	0	100	100
40	85	115/118 (98%)	106 (92%)	9 (8%)	0	100	100
40	C8	115/118 (98%)	109 (95%)	6 (5%)	0	100	100
41	95	99/101 (98%)	82 (83%)	12 (12%)	5 (5%)	2	13
41	D8	99/101 (98%)	89 (90%)	9 (9%)	1 (1%)	15	49
42	A5	111/113 (98%)	104 (94%)	7 (6%)	0	100	100
42	E8	111/113 (98%)	103 (93%)	8 (7%)	0	100	100
43	B5	91/96 (95%)	86 (94%)	4 (4%)	1 (1%)	14	46
43	F8	90/96 (94%)	84 (93%)	4 (4%)	2 (2%)	6	29
44	C5	102/110 (93%)	72 (71%)	27 (26%)	3 (3%)	4	24
44	G8	102/110 (93%)	84 (82%)	12 (12%)	6 (6%)	1	10
45	D5	177/206 (86%)	145 (82%)	25 (14%)	7 (4%)	3	17
45	H8	173/206 (84%)	134 (78%)	32 (18%)	7 (4%)	3	17
46	E5	75/85 (88%)	73 (97%)	2 (3%)	0	100	100
46	I8	81/85 (95%)	70 (86%)	11 (14%)	0	100	100
47	F5	95/98 (97%)	87 (92%)	7 (7%)	1 (1%)	14	46
47	J8	95/98 (97%)	83 (87%)	10 (10%)	2 (2%)	7	30
48	G5	67/72 (93%)	56 (84%)	11 (16%)	0	100	100
48	K8	64/72 (89%)	61 (95%)	0	3 (5%)	2	14
49	H5	57/60 (95%)	55 (96%)	2 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
49	L8	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
50	I5	61/71 (86%)	33 (54%)	24 (39%)	4 (7%)	1	7
50	M8	64/71 (90%)	45 (70%)	17 (27%)	2 (3%)	4	23
51	J5	57/60 (95%)	48 (84%)	8 (14%)	1 (2%)	8	34
51	N8	57/60 (95%)	49 (86%)	6 (10%)	2 (4%)	3	20
52	K5	43/54 (80%)	28 (65%)	15 (35%)	0	100	100
52	O8	43/54 (80%)	32 (74%)	11 (26%)	0	100	100
53	L5	47/49 (96%)	47 (100%)	0	0	100	100
53	P8	45/49 (92%)	39 (87%)	4 (9%)	2 (4%)	2	15
54	M5	60/65 (92%)	51 (85%)	6 (10%)	3 (5%)	2	13
54	Q8	60/65 (92%)	51 (85%)	7 (12%)	2 (3%)	4	21
All	All	11616/12512 (93%)	10210 (88%)	1239 (11%)	167 (1%)	11	40

5 of 167 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
18	9I	22	VAL
27	11	240	ALA
36	88	87	LYS
43	F8	68	ARG
44	G8	53	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	12	205/220 (93%)	165 (80%)	40 (20%)	1	6
2	1E	205/220 (93%)	150 (73%)	55 (27%)	0	1
3	22	160/188 (85%)	123 (77%)	37 (23%)	1	3
3	2E	159/188 (85%)	135 (85%)	24 (15%)	3	12
4	32	180/181 (99%)	142 (79%)	38 (21%)	1	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	3E	180/181 (99%)	146 (81%)	34 (19%)	1	6
5	42	116/123 (94%)	89 (77%)	27 (23%)	1	3
5	4E	116/123 (94%)	89 (77%)	27 (23%)	1	3
6	52	90/90 (100%)	75 (83%)	15 (17%)	2	9
6	5E	90/90 (100%)	75 (83%)	15 (17%)	2	9
7	62	126/127 (99%)	100 (79%)	26 (21%)	1	5
7	6E	126/127 (99%)	98 (78%)	28 (22%)	1	4
8	72	119/119 (100%)	99 (83%)	20 (17%)	2	9
8	7E	119/119 (100%)	97 (82%)	22 (18%)	1	7
9	82	98/99 (99%)	77 (79%)	21 (21%)	1	4
9	8E	98/99 (99%)	78 (80%)	20 (20%)	1	5
10	1A	89/92 (97%)	68 (76%)	21 (24%)	1	2
10	1I	89/92 (97%)	74 (83%)	15 (17%)	2	9
11	2A	88/99 (89%)	73 (83%)	15 (17%)	2	9
11	2I	88/99 (89%)	74 (84%)	14 (16%)	2	11
12	3A	104/109 (95%)	89 (86%)	15 (14%)	3	14
12	3I	104/109 (95%)	87 (84%)	17 (16%)	2	10
13	4A	94/101 (93%)	75 (80%)	19 (20%)	1	5
13	4I	94/101 (93%)	76 (81%)	18 (19%)	1	6
14	5A	49/50 (98%)	42 (86%)	7 (14%)	3	14
14	5I	49/50 (98%)	36 (74%)	13 (26%)	0	1
15	6A	79/80 (99%)	68 (86%)	11 (14%)	3	15
15	6I	79/80 (99%)	66 (84%)	13 (16%)	2	10
16	7A	72/74 (97%)	58 (81%)	14 (19%)	1	6
16	7I	72/74 (97%)	53 (74%)	19 (26%)	0	1
17	8A	95/97 (98%)	79 (83%)	16 (17%)	2	9
17	8I	95/97 (98%)	77 (81%)	18 (19%)	1	6
18	9A	63/77 (82%)	54 (86%)	9 (14%)	3	14
18	9I	63/77 (82%)	54 (86%)	9 (14%)	3	14
19	AA	68/80 (85%)	53 (78%)	15 (22%)	1	4
19	AI	72/80 (90%)	59 (82%)	13 (18%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	BA	76/82 (93%)	64 (84%)	12 (16%)	2	11
20	BI	76/82 (93%)	60 (79%)	16 (21%)	1	5
21	1B	20/22 (91%)	16 (80%)	4 (20%)	1	5
21	1F	20/22 (91%)	19 (95%)	1 (5%)	24	57
26	71	111/181 (61%)	103 (93%)	8 (7%)	14	44
26	79	111/181 (61%)	99 (89%)	12 (11%)	6	25
27	11	214/218 (98%)	172 (80%)	42 (20%)	1	6
27	19	214/218 (98%)	176 (82%)	38 (18%)	2	8
28	21	165/166 (99%)	130 (79%)	35 (21%)	1	5
28	29	165/166 (99%)	132 (80%)	33 (20%)	1	5
29	31	161/166 (97%)	123 (76%)	38 (24%)	1	2
29	39	165/166 (99%)	126 (76%)	39 (24%)	1	2
30	41	155/156 (99%)	128 (83%)	27 (17%)	2	9
30	49	155/156 (99%)	116 (75%)	39 (25%)	0	1
31	51	145/148 (98%)	112 (77%)	33 (23%)	1	3
31	59	142/148 (96%)	112 (79%)	30 (21%)	1	5
32	61	122/124 (98%)	97 (80%)	25 (20%)	1	5
32	69	122/124 (98%)	85 (70%)	37 (30%)	0	0
33	15	117/119 (98%)	88 (75%)	29 (25%)	0	2
33	58	117/119 (98%)	84 (72%)	33 (28%)	0	1
34	25	100/100 (100%)	82 (82%)	18 (18%)	1	7
34	68	100/100 (100%)	85 (85%)	15 (15%)	3	12
35	35	116/116 (100%)	78 (67%)	38 (33%)	0	0
35	78	116/116 (100%)	75 (65%)	41 (35%)	0	0
36	45	111/111 (100%)	92 (83%)	19 (17%)	2	9
36	88	111/111 (100%)	88 (79%)	23 (21%)	1	5
37	55	100/101 (99%)	81 (81%)	19 (19%)	1	6
37	98	101/101 (100%)	84 (83%)	17 (17%)	2	9
38	65	87/88 (99%)	57 (66%)	30 (34%)	0	0
38	A8	87/88 (99%)	71 (82%)	16 (18%)	1	7
39	75	117/127 (92%)	89 (76%)	28 (24%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	B8	120/127 (94%)	83 (69%)	37 (31%)	0	0
40	85	93/94 (99%)	76 (82%)	17 (18%)	1	7
40	C8	93/94 (99%)	75 (81%)	18 (19%)	1	6
41	95	82/82 (100%)	65 (79%)	17 (21%)	1	5
41	D8	82/82 (100%)	57 (70%)	25 (30%)	0	0
42	A5	92/92 (100%)	71 (77%)	21 (23%)	1	3
42	E8	92/92 (100%)	68 (74%)	24 (26%)	0	1
43	B5	74/78 (95%)	59 (80%)	15 (20%)	1	5
43	F8	74/78 (95%)	57 (77%)	17 (23%)	1	3
44	C5	85/91 (93%)	64 (75%)	21 (25%)	0	2
44	G8	85/91 (93%)	66 (78%)	19 (22%)	1	3
45	D5	158/179 (88%)	122 (77%)	36 (23%)	1	3
45	H8	154/179 (86%)	116 (75%)	38 (25%)	0	2
46	E5	62/67 (92%)	51 (82%)	11 (18%)	2	8
46	I8	66/67 (98%)	52 (79%)	14 (21%)	1	5
47	F5	82/83 (99%)	62 (76%)	20 (24%)	0	2
47	J8	82/83 (99%)	58 (71%)	24 (29%)	0	1
48	G5	64/67 (96%)	51 (80%)	13 (20%)	1	5
48	K8	62/67 (92%)	47 (76%)	15 (24%)	0	2
49	H5	51/52 (98%)	42 (82%)	9 (18%)	2	8
49	L8	51/52 (98%)	41 (80%)	10 (20%)	1	6
50	I5	57/63 (90%)	44 (77%)	13 (23%)	1	3
50	M8	59/63 (94%)	51 (86%)	8 (14%)	3	16
51	J5	51/52 (98%)	39 (76%)	12 (24%)	1	3
51	N8	51/52 (98%)	35 (69%)	16 (31%)	0	0
52	K5	44/52 (85%)	27 (61%)	17 (39%)	0	0
52	O8	44/52 (85%)	33 (75%)	11 (25%)	0	2
53	L5	42/42 (100%)	32 (76%)	10 (24%)	0	2
53	P8	40/42 (95%)	32 (80%)	8 (20%)	1	5
54	M5	52/55 (94%)	39 (75%)	13 (25%)	0	2
54	Q8	50/55 (91%)	30 (60%)	20 (40%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	9806/10360 (95%)	7722 (79%)	2084 (21%)	1 4

5 of 2084 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
40	85	97	ASP
43	B5	80	ILE
40	85	88	ILE
54	M5	50	LEU
39	B8	125	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 21 such sidechains are listed below:

Mol	Chain	Res	Type
19	AA	57	HIS
29	39	203	GLN
45	D5	118	GLN
40	85	81	HIS
27	19	58	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1492/1522 (98%)	352 (23%)	26 (1%)
1	1G	1502/1522 (98%)	370 (24%)	39 (2%)
22	2K	77/85 (90%)	33 (42%)	5 (6%)
22	2L	74/85 (87%)	25 (33%)	8 (10%)
22	3K	81/85 (95%)	23 (28%)	3 (3%)
22	3L	82/85 (96%)	21 (25%)	3 (3%)
23	4K	16/30 (53%)	7 (43%)	3 (18%)
23	4L	7/30 (23%)	4 (57%)	1 (14%)
24	14	2908/2917 (99%)	685 (23%)	48 (1%)
24	1H	2911/2917 (99%)	698 (23%)	56 (1%)
25	16	121/122 (99%)	38 (31%)	0
25	1J	121/122 (99%)	34 (28%)	0
All	All	9392/9522 (98%)	2290 (24%)	192 (2%)

5 of 2290 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	5	U
1	13	6	G
1	13	7	G
1	13	9	G
1	13	32	A

5 of 192 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	974	A
23	4L	12	A
1	1G	1094	G
1	1G	1453	G
24	14	310	A

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

28 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$
22	PSU	3L	64	22	18,21,22	1.30	1 (5%)	22,30,33	1.54	2 (9%)
22	PSU	3K	64	22	18,21,22	1.20	1 (5%)	22,30,33	1.77	2 (9%)
22	5MU	2L	63	22	19,22,23	3.84	5 (26%)	28,32,35	3.52	10 (35%)
22	OMG	3L	17	22	18,26,27	5.43	9 (50%)	19,38,41	3.67	7 (36%)
22	5MU	3L	63	22	19,22,23	3.89	5 (26%)	28,32,35	3.30	9 (32%)
22	PSU	2K	64	55,22	18,21,22	1.28	2 (11%)	22,30,33	2.00	6 (27%)
22	4SU	2K	8	22	18,21,22	2.02	3 (16%)	26,30,33	2.89	7 (26%)
22	OMG	3K	17	22	18,26,27	5.47	9 (50%)	19,38,41	3.59	7 (36%)
22	4SU	2L	8	22	18,21,22	1.74	4 (22%)	26,30,33	2.11	7 (26%)
22	MIA	3L	38	22	24,31,32	2.43	3 (12%)	26,44,47	3.06	10 (38%)
22	QUO	3K	35	22	29,35,36	5.32	11 (37%)	31,52,55	4.25	9 (29%)
22	PSU	2L	64	22	18,21,22	1.29	2 (11%)	22,30,33	1.57	4 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	PSU	3K	40	22	18,21,22	1.11	1 (5%)	22,30,33	1.56	2 (9%)
22	PSU	3L	40	22	18,21,22	1.23	1 (5%)	22,30,33	1.67	3 (13%)
22	4SU	3L	8	55,22	18,21,22	1.98	5 (27%)	26,30,33	1.99	4 (15%)
22	OMG	2L	17	22	18,26,27	5.25	8 (44%)	19,38,41	3.70	8 (42%)
22	PSU	2K	40	22	18,21,22	1.02	1 (5%)	22,30,33	1.78	4 (18%)
22	QUO	2K	35	23,22	29,35,36	5.23	12 (41%)	31,52,55	3.72	9 (29%)
22	PSU	2L	40	22	18,21,22	1.32	1 (5%)	22,30,33	1.58	4 (18%)
22	QUO	2L	35	23,22	29,35,36	5.19	11 (37%)	31,52,55	3.87	12 (38%)
22	5MU	3K	63	22	19,22,23	3.83	5 (26%)	28,32,35	3.07	10 (35%)
22	MIA	3K	38	22	24,31,32	2.44	4 (16%)	26,44,47	3.04	11 (42%)
22	MIA	2L	38	22	24,31,32	2.27	2 (8%)	26,44,47	2.36	7 (26%)
22	4SU	3K	8	22	18,21,22	1.77	3 (16%)	26,30,33	2.60	4 (15%)
22	5MU	2K	63	22	19,22,23	4.07	5 (26%)	28,32,35	3.58	9 (32%)
22	QUO	3L	35	22	29,35,36	5.17	11 (37%)	31,52,55	3.57	12 (38%)
22	OMG	2K	17	22	18,26,27	5.26	9 (50%)	19,38,41	3.65	8 (42%)
22	MIA	2K	38	22	24,31,32	2.39	3 (12%)	26,44,47	3.78	8 (30%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	PSU	3L	64	22	-	4/7/25/26	0/2/2/2
22	PSU	3K	64	22	-	0/7/25/26	0/2/2/2
22	5MU	2L	63	22	-	3/7/25/26	0/2/2/2
22	OMG	3L	17	22	-	3/5/27/28	0/3/3/3
22	5MU	3L	63	22	-	0/7/25/26	0/2/2/2
22	PSU	2K	64	55,22	-	1/7/25/26	0/2/2/2
22	4SU	2K	8	22	-	0/7/25/26	0/2/2/2
22	OMG	3K	17	22	-	2/5/27/28	0/3/3/3
22	4SU	2L	8	22	-	0/7/25/26	0/2/2/2
22	MIA	3L	38	22	-	7/11/33/34	0/3/3/3
22	QUO	3K	35	22	-	3/6/43/44	0/4/4/4
22	PSU	2L	64	22	-	0/7/25/26	0/2/2/2
22	PSU	3K	40	22	-	0/7/25/26	0/2/2/2
22	PSU	3L	40	22	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	4SU	3L	8	55,22	-	0/7/25/26	0/2/2/2
22	OMG	2L	17	22	-	2/5/27/28	0/3/3/3
22	PSU	2K	40	22	-	0/7/25/26	0/2/2/2
22	QUO	2K	35	23,22	-	2/6/43/44	0/4/4/4
22	PSU	2L	40	22	-	0/7/25/26	0/2/2/2
22	QUO	2L	35	23,22	-	1/6/43/44	0/4/4/4
22	5MU	3K	63	22	-	0/7/25/26	0/2/2/2
22	MIA	3K	38	22	-	8/11/33/34	0/3/3/3
22	MIA	2L	38	22	-	3/11/33/34	0/3/3/3
22	4SU	3K	8	22	-	0/7/25/26	0/2/2/2
22	5MU	2K	63	22	-	5/7/25/26	0/2/2/2
22	QUO	3L	35	22	-	3/6/43/44	0/4/4/4
22	OMG	2K	17	22	-	3/5/27/28	0/3/3/3
22	MIA	2K	38	22	-	5/11/33/34	0/3/3/3

The worst 5 of 137 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	3K	17	OMG	C8-N7	-15.91	1.07	1.35
22	2L	17	OMG	C8-N7	-15.83	1.08	1.35
22	2K	35	QUO	C6-N1	-15.54	1.14	1.37
22	3L	17	OMG	C8-N7	-15.51	1.08	1.35
22	2K	17	OMG	C8-N7	-15.38	1.08	1.35

The worst 5 of 195 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	3K	35	QUO	C8-N9-C1'	-15.96	111.35	125.48
22	2K	38	MIA	C11-S10-C2	15.19	113.61	102.27
22	3L	35	QUO	C5-C6-N1	14.91	127.99	115.36
22	2K	35	QUO	C5-C6-N1	14.29	127.46	115.36
22	3K	35	QUO	C5-C6-N1	14.09	127.29	115.36

There are no chirality outliers.

5 of 55 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	2K	35	QUO	O4'-C4'-C5'-O5'
22	2K	35	QUO	C3'-C4'-C5'-O5'
22	2K	38	MIA	N1-C2-S10-C11

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Mol	Chain	Res	Type	Atoms
22	2K	38	MIA	N3-C2-S10-C11
22	2K	38	MIA	N6-C12-C13-C14

There are no ring outliers.

22 monomers are involved in 45 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	3L	64	PSU	1	0
22	3K	64	PSU	1	0
22	2L	63	5MU	4	0
22	3L	17	OMG	2	0
22	3L	63	5MU	1	0
22	2K	64	PSU	4	0
22	3K	17	OMG	1	0
22	2L	8	4SU	3	0
22	3L	38	MIA	1	0
22	3K	35	QUO	2	0
22	2L	64	PSU	1	0
22	3L	8	4SU	1	0
22	2L	17	OMG	2	0
22	2K	35	QUO	2	0
22	2L	35	QUO	5	0
22	3K	63	5MU	1	0
22	3K	38	MIA	5	0
22	2L	38	MIA	1	0
22	3K	8	4SU	2	0
22	3L	35	QUO	3	0
22	2K	17	OMG	6	0
22	2K	38	MIA	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1351 ligands modelled in this entry, 1351 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	13	1499/1522 (98%)	-0.56	1 (0%) 95 92	63, 117, 206, 445	0
1	1G	1503/1522 (98%)	-0.53	5 (0%) 94 88	68, 115, 190, 453	0
2	12	237/256 (92%)	0.90	41 (17%) 1 0	127, 170, 220, 245	0
2	1E	237/256 (92%)	0.72	29 (12%) 4 1	120, 163, 212, 246	0
3	22	206/239 (86%)	1.18	44 (21%) 0 0	120, 147, 179, 189	0
3	2E	205/239 (85%)	0.50	16 (7%) 13 5	111, 138, 196, 212	0
4	32	208/209 (99%)	0.84	26 (12%) 3 1	94, 119, 152, 172	0
4	3E	208/209 (99%)	-0.09	3 (1%) 75 56	87, 119, 147, 176	0
5	42	151/162 (93%)	0.21	2 (1%) 77 59	94, 113, 140, 210	0
5	4E	151/162 (93%)	0.02	0 100 100	87, 114, 139, 206	0
6	52	101/101 (100%)	-0.22	1 (0%) 82 67	85, 106, 127, 146	0
6	5E	101/101 (100%)	0.73	5 (4%) 28 13	95, 122, 138, 154	0
7	62	155/156 (99%)	-0.07	4 (2%) 56 33	111, 129, 145, 152	0
7	6E	155/156 (99%)	0.61	16 (10%) 6 2	106, 137, 161, 172	0
8	72	138/138 (100%)	0.32	3 (2%) 62 41	98, 117, 133, 158	0
8	7E	138/138 (100%)	0.07	1 (0%) 87 75	101, 121, 136, 150	0
9	82	127/128 (99%)	0.15	4 (3%) 49 26	111, 160, 187, 206	0
9	8E	127/128 (99%)	0.59	15 (11%) 4 2	104, 155, 177, 184	0
10	1A	99/105 (94%)	1.21	23 (23%) 0 0	121, 161, 193, 210	0
10	1I	99/105 (94%)	0.90	15 (15%) 2 1	105, 164, 206, 215	0
11	2A	116/129 (89%)	-0.05	1 (0%) 84 69	81, 110, 134, 164	0
11	2I	116/129 (89%)	1.12	22 (18%) 1 0	79, 114, 153, 224	0
12	3A	125/132 (94%)	0.45	8 (6%) 19 8	86, 102, 141, 189	0
12	3I	125/132 (94%)	-0.29	1 (0%) 86 72	79, 92, 125, 247	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	117/126 (92%)	0.09	6 (5%) 28 13	122, 164, 193, 228	0
13	4I	116/126 (92%)	0.81	17 (14%) 2 1	117, 165, 186, 205	0
14	5A	60/61 (98%)	1.29	20 (33%) 0 0	131, 150, 178, 185	0
14	5I	60/61 (98%)	-0.07	1 (1%) 70 49	112, 128, 148, 170	0
15	6A	88/89 (98%)	0.11	0 100 100	84, 115, 134, 141	0
15	6I	88/89 (98%)	-0.11	0 100 100	92, 112, 133, 151	0
16	7A	84/88 (95%)	0.44	5 (5%) 21 10	94, 108, 132, 195	0
16	7I	84/88 (95%)	-0.43	0 100 100	107, 127, 154, 194	0
17	8A	100/105 (95%)	0.13	3 (3%) 50 27	91, 108, 126, 176	0
17	8I	100/105 (95%)	-0.46	0 100 100	97, 119, 133, 142	0
18	9A	72/88 (81%)	0.45	5 (6%) 16 7	91, 112, 166, 208	0
18	9I	72/88 (81%)	1.46	16 (22%) 0 0	100, 121, 150, 227	0
19	AA	79/93 (84%)	1.43	26 (32%) 0 0	144, 187, 220, 228	0
19	AI	83/93 (89%)	0.28	7 (8%) 11 4	142, 168, 204, 221	0
20	BA	99/106 (93%)	0.54	6 (6%) 21 9	86, 114, 153, 193	0
20	BI	99/106 (93%)	-0.23	1 (1%) 82 67	112, 138, 188, 193	0
21	1B	25/27 (92%)	0.20	1 (4%) 38 19	117, 140, 171, 190	0
21	1F	25/27 (92%)	0.37	0 100 100	125, 139, 170, 187	0
22	2K	75/85 (88%)	-0.39	0 100 100	74, 113, 195, 247	0
22	2L	71/85 (83%)	-0.59	0 100 100	73, 115, 176, 193	0
22	3K	78/85 (91%)	-0.03	6 (7%) 13 5	85, 189, 296, 344	0
22	3L	78/85 (91%)	-0.80	0 100 100	79, 195, 286, 321	0
23	4K	16/30 (53%)	-0.18	0 100 100	82, 126, 168, 170	0
23	4L	8/30 (26%)	-0.37	0 100 100	93, 107, 190, 231	0
24	14	2909/2917 (99%)	-0.38	39 (1%) 77 59	53, 84, 260, 407	0
24	1H	2912/2917 (99%)	-0.24	32 (1%) 80 64	48, 80, 247, 440	0
25	16	122/122 (100%)	-0.32	1 (0%) 86 72	85, 118, 144, 247	0
25	1J	122/122 (100%)	-0.70	0 100 100	86, 123, 143, 217	0
26	71	135/229 (58%)	3.72	103 (76%) 0 0	156, 219, 251, 258	0
26	79	135/229 (58%)	1.35	41 (30%) 0 0	152, 228, 253, 265	0
27	11	272/276 (98%)	0.06	0 100 100	48, 69, 90, 122	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	19	273/276 (98%)	-0.40	0 100 100	50, 73, 91, 122	0
28	21	205/206 (99%)	0.32	14 (6%) 17 7	54, 94, 152, 211	0
28	29	205/206 (99%)	-0.16	2 (0%) 82 67	57, 88, 164, 238	0
29	31	202/210 (96%)	0.23	6 (2%) 50 27	47, 81, 123, 148	0
29	39	208/210 (99%)	0.84	26 (12%) 3 1	60, 98, 174, 203	0
30	41	181/182 (99%)	2.25	81 (44%) 0 0	123, 154, 197, 210	0
30	49	181/182 (99%)	0.44	17 (9%) 8 3	120, 146, 190, 208	0
31	51	174/180 (96%)	0.09	2 (1%) 80 64	90, 117, 139, 161	0
31	59	171/180 (95%)	1.55	52 (30%) 0 0	141, 208, 248, 354	0
32	61	146/148 (98%)	1.05	22 (15%) 2 1	84, 128, 153, 169	0
32	69	146/148 (98%)	-0.23	2 (1%) 75 56	81, 137, 164, 177	0
33	15	138/140 (98%)	0.21	4 (2%) 51 28	72, 101, 142, 174	0
33	58	138/140 (98%)	0.36	7 (5%) 28 13	73, 98, 154, 181	0
34	25	122/122 (100%)	0.04	0 100 100	64, 82, 100, 110	0
34	68	122/122 (100%)	-0.18	0 100 100	58, 85, 103, 114	0
35	35	150/150 (100%)	0.68	18 (12%) 4 2	61, 105, 144, 203	0
35	78	150/150 (100%)	0.33	5 (3%) 46 24	55, 91, 117, 251	0
36	45	141/141 (100%)	0.13	7 (4%) 28 13	67, 104, 131, 154	0
36	88	141/141 (100%)	0.36	8 (5%) 23 11	64, 99, 134, 181	0
37	55	117/118 (99%)	-0.21	0 100 100	62, 82, 99, 121	0
37	98	118/118 (100%)	0.01	1 (0%) 86 72	68, 88, 107, 125	0
38	65	111/112 (99%)	0.17	4 (3%) 42 22	93, 118, 148, 171	0
38	A8	111/112 (99%)	1.79	46 (41%) 0 0	97, 119, 163, 218	0
39	75	137/146 (93%)	-0.22	2 (1%) 73 54	75, 91, 161, 227	0
39	B8	137/146 (93%)	-0.24	4 (2%) 51 28	84, 102, 165, 218	0
40	85	117/118 (99%)	0.08	1 (0%) 84 69	65, 95, 135, 167	0
40	C8	117/118 (99%)	0.10	2 (1%) 70 49	57, 83, 130, 183	0
41	95	101/101 (100%)	1.18	21 (20%) 1 0	67, 124, 148, 194	0
41	D8	101/101 (100%)	0.58	7 (6%) 16 7	58, 106, 160, 237	0
42	A5	113/113 (100%)	0.15	2 (1%) 68 47	63, 77, 110, 206	0
42	E8	113/113 (100%)	0.14	2 (1%) 68 47	61, 77, 109, 231	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	B5	93/96 (96%)	0.28	4 (4%) 35 17	73, 86, 119, 127	0
43	F8	92/96 (95%)	0.47	6 (6%) 18 8	64, 74, 98, 112	0
44	C5	104/110 (94%)	1.56	27 (25%) 0 0	89, 130, 221, 252	0
44	G8	104/110 (94%)	0.46	7 (6%) 17 7	71, 96, 149, 186	0
45	D5	179/206 (86%)	1.68	57 (31%) 0 0	111, 160, 262, 335	0
45	H8	175/206 (84%)	1.47	52 (29%) 0 0	105, 160, 274, 301	0
46	E5	77/85 (90%)	0.15	2 (2%) 56 33	74, 89, 109, 178	0
46	I8	83/85 (97%)	0.52	5 (6%) 21 10	70, 90, 112, 158	0
47	F5	97/98 (98%)	-0.19	2 (2%) 63 43	60, 83, 157, 204	0
47	J8	97/98 (98%)	0.82	9 (9%) 8 3	57, 82, 168, 218	0
48	G5	69/72 (95%)	0.68	5 (7%) 15 6	84, 109, 145, 187	0
48	K8	66/72 (91%)	0.32	1 (1%) 73 54	63, 82, 115, 177	0
49	H5	59/60 (98%)	0.49	3 (5%) 28 13	79, 97, 156, 188	0
49	L8	59/60 (98%)	0.35	3 (5%) 28 13	73, 91, 138, 151	0
50	I5	63/71 (88%)	2.56	28 (44%) 0 0	161, 233, 263, 283	0
50	M8	66/71 (92%)	4.31	49 (74%) 0 0	152, 233, 267, 285	0
51	J5	59/60 (98%)	0.14	5 (8%) 10 4	58, 87, 207, 244	0
51	N8	59/60 (98%)	0.84	9 (15%) 2 1	52, 92, 216, 240	0
52	K5	45/54 (83%)	3.25	31 (68%) 0 0	161, 210, 253, 272	0
52	O8	45/54 (83%)	6.27	44 (97%) 0 0	164, 213, 245, 256	0
53	L5	49/49 (100%)	-0.30	0 100 100	56, 61, 106, 147	0
53	P8	47/49 (95%)	-0.32	0 100 100	48, 54, 72, 121	0
54	M5	62/65 (95%)	-0.09	0 100 100	67, 77, 100, 127	0
54	Q8	62/65 (95%)	-0.06	0 100 100	62, 80, 108, 129	0
All	All	21209/22034 (96%)	0.13	1336 (6%) 20 8	47, 108, 216, 453	0

The worst 5 of 1336 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
31	59	96	ALA	26.6
26	71	1	PRO	21.7
24	14	654(K)	C	21.5
50	I5	42	PHE	18.1
24	14	654(L)	G	14.6

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
22	PSU	3L	64	20/21	0.67	0.15	180,200,211,213	0
22	PSU	3K	64	20/21	0.72	0.26	182,190,202,202	0
22	4SU	3L	8	20/21	0.73	0.14	184,194,207,207	0
22	PSU	2L	64	20/21	0.74	0.13	138,148,163,166	0
22	OMG	3K	17	24/25	0.75	0.18	194,212,234,239	0
22	4SU	3K	8	20/21	0.83	0.12	186,202,212,214	0
22	OMG	2L	17	24/25	0.84	0.15	136,152,154,155	0
22	OMG	3L	17	24/25	0.85	0.12	200,216,227,230	0
22	5MU	3L	63	21/22	0.85	0.13	174,186,190,192	0
22	PSU	2K	64	20/21	0.85	0.15	133,144,150,155	0
22	5MU	3K	63	21/22	0.86	0.19	176,183,187,190	0
22	OMG	2K	17	24/25	0.87	0.14	142,148,151,151	0
22	PSU	3K	40	20/21	0.91	0.13	118,124,129,130	0
22	5MU	2K	63	21/22	0.91	0.12	135,139,149,156	0
22	4SU	2K	8	20/21	0.91	0.13	106,112,119,121	0
22	5MU	2L	63	21/22	0.92	0.10	141,149,156,167	0
22	4SU	2L	8	20/21	0.92	0.11	112,122,128,139	0
22	QUO	3L	35	32/33	0.93	0.15	105,114,128,132	0
22	PSU	2L	40	20/21	0.94	0.15	89,100,105,105	0
22	MIA	3K	38	29/30	0.94	0.18	114,122,132,135	0
22	PSU	3L	40	20/21	0.94	0.12	107,122,124,127	0
22	QUO	3K	35	32/33	0.94	0.18	108,114,124,127	0
22	QUO	2L	35	32/33	0.94	0.18	91,112,118,124	0
22	QUO	2K	35	32/33	0.95	0.18	84,96,115,117	6
22	MIA	2L	38	29/30	0.95	0.18	92,101,113,119	0
22	MIA	3L	38	29/30	0.95	0.17	118,123,131,133	0
22	PSU	2K	40	20/21	0.96	0.17	83,91,99,105	0
22	MIA	2K	38	29/30	0.96	0.19	82,94,106,112	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	1H	3220	1/1	0.20	0.27	92,92,92,92	0
55	MG	16	208	1/1	0.20	0.34	113,113,113,113	0
55	MG	1H	3240	1/1	0.21	0.32	92,92,92,92	0
55	MG	1H	3301	1/1	0.24	0.37	79,79,79,79	0
55	MG	1H	3364	1/1	0.28	0.34	103,103,103,103	0
55	MG	1H	3360	1/1	0.30	0.34	167,167,167,167	0
55	MG	1G	1685	1/1	0.30	0.26	116,116,116,116	0
55	MG	1H	3379	1/1	0.33	0.13	245,245,245,245	0
55	MG	42	201	1/1	0.34	0.35	101,101,101,101	0
55	MG	14	3335	1/1	0.34	0.24	90,90,90,90	0
56	ZN	G8	202	1/1	0.36	0.32	203,203,203,203	0
55	MG	13	1689	1/1	0.37	0.45	116,116,116,116	0
55	MG	14	3329	1/1	0.39	0.27	101,101,101,101	0
55	MG	13	1700	1/1	0.40	0.34	97,97,97,97	0
55	MG	14	3287	1/1	0.41	0.32	98,98,98,98	0
55	MG	14	3258	1/1	0.41	0.32	70,70,70,70	0
55	MG	14	3132	1/1	0.42	0.29	120,120,120,120	0
55	MG	14	3331	1/1	0.42	0.33	138,138,138,138	0
55	MG	14	3367	1/1	0.44	0.17	72,72,72,72	0
55	MG	13	1656	1/1	0.44	0.25	120,120,120,120	0
55	MG	1H	3346	1/1	0.45	0.24	113,113,113,113	0
55	MG	14	3159	1/1	0.47	0.38	85,85,85,85	0
55	MG	1G	1702	1/1	0.47	0.21	95,95,95,95	0
55	MG	13	1699	1/1	0.49	0.46	109,109,109,109	0
55	MG	1H	3186	1/1	0.49	0.23	70,70,70,70	0
55	MG	1H	3312	1/1	0.50	0.28	81,81,81,81	0
55	MG	1G	1613	1/1	0.50	0.08	92,92,92,92	0
55	MG	13	1684	1/1	0.51	0.30	94,94,94,94	0
55	MG	1H	3396	1/1	0.51	0.25	104,104,104,104	0
55	MG	1H	3405	1/1	0.52	0.14	74,74,74,74	0
55	MG	1H	3209	1/1	0.54	0.49	99,99,99,99	0
55	MG	14	3190	1/1	0.54	0.36	95,95,95,95	0
55	MG	14	3113	1/1	0.54	0.35	97,97,97,97	0
55	MG	1G	1721	1/1	0.54	0.55	129,129,129,129	0
55	MG	14	3301	1/1	0.54	0.40	82,82,82,82	0
55	MG	1H	3407	1/1	0.55	0.37	89,89,89,89	0
55	MG	14	3300	1/1	0.55	0.17	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	1H	3190	1/1	0.55	0.58	101,101,101,101	0
55	MG	13	1621	1/1	0.55	0.27	87,87,87,87	0
55	MG	14	3318	1/1	0.56	0.13	80,80,80,80	0
55	MG	1H	3377	1/1	0.56	0.35	81,81,81,81	0
55	MG	1H	3386	1/1	0.57	0.30	66,66,66,66	0
55	MG	14	3373	1/1	0.57	0.23	98,98,98,98	0
55	MG	1H	3286	1/1	0.57	0.33	82,82,82,82	0
55	MG	1G	1669	1/1	0.58	0.25	86,86,86,86	0
55	MG	14	3082	1/1	0.58	0.15	64,64,64,64	0
55	MG	16	204	1/1	0.58	0.19	99,99,99,99	0
55	MG	14	3127	1/1	0.58	0.39	84,84,84,84	0
55	MG	13	1706	1/1	0.58	0.44	93,93,93,93	0
55	MG	13	1688	1/1	0.58	0.49	91,91,91,91	0
55	MG	16	203	1/1	0.59	0.24	92,92,92,92	0
55	MG	1G	1620	1/1	0.60	0.41	96,96,96,96	0
55	MG	14	3174	1/1	0.60	0.36	107,107,107,107	0
55	MG	3E	301	1/1	0.60	0.11	156,156,156,156	0
55	MG	1H	3282	1/1	0.60	0.44	90,90,90,90	0
55	MG	1G	1691	1/1	0.60	0.27	132,132,132,132	0
55	MG	1G	1701	1/1	0.60	0.13	93,93,93,93	0
55	MG	1H	3162	1/1	0.60	0.21	94,94,94,94	0
55	MG	4K	101	1/1	0.61	0.29	111,111,111,111	0
55	MG	14	3038	1/1	0.61	0.25	86,86,86,86	0
55	MG	1H	3121	1/1	0.61	0.25	98,98,98,98	0
55	MG	1G	1739	1/1	0.61	0.09	154,154,154,154	0
55	MG	1H	3518	1/1	0.62	0.17	135,135,135,135	0
55	MG	1H	3387	1/1	0.62	0.31	75,75,75,75	0
55	MG	13	1738	1/1	0.62	0.08	138,138,138,138	0
55	MG	16	211	1/1	0.63	0.23	98,98,98,98	0
55	MG	1H	3315	1/1	0.63	0.24	88,88,88,88	0
55	MG	1H	3398	1/1	0.63	0.17	106,106,106,106	0
55	MG	1G	1703	1/1	0.64	0.28	99,99,99,99	0
55	MG	1G	1718	1/1	0.64	0.34	118,118,118,118	0
55	MG	13	1693	1/1	0.64	0.38	100,100,100,100	0
55	MG	1G	1726	1/1	0.64	0.44	124,124,124,124	0
55	MG	1H	3203	1/1	0.64	0.46	99,99,99,99	0
55	MG	1H	3511	1/1	0.64	0.07	119,119,119,119	0
55	MG	13	1610	1/1	0.64	0.33	115,115,115,115	0
55	MG	14	3368	1/1	0.64	0.23	76,76,76,76	0
55	MG	1H	3218	1/1	0.64	0.51	82,82,82,82	0
55	MG	14	3292	1/1	0.64	0.27	90,90,90,90	0
55	MG	14	3291	1/1	0.65	0.21	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3234	1/1	0.65	0.31	88,88,88,88	0
55	MG	1H	3370	1/1	0.65	0.33	73,73,73,73	0
55	MG	29	303	1/1	0.65	0.15	74,74,74,74	0
55	MG	1G	1653	1/1	0.65	0.36	103,103,103,103	0
55	MG	1H	3027	1/1	0.66	0.34	86,86,86,86	0
55	MG	1H	3342	1/1	0.66	0.40	89,89,89,89	0
55	MG	14	3303	1/1	0.66	0.39	99,99,99,99	0
55	MG	1H	3375	1/1	0.67	0.36	85,85,85,85	0
55	MG	1G	1699	1/1	0.67	0.46	101,101,101,101	0
55	MG	1H	3307	1/1	0.67	0.24	83,83,83,83	0
55	MG	2K	104	1/1	0.67	0.47	101,101,101,101	0
55	MG	1H	3043	1/1	0.67	0.26	92,92,92,92	0
55	MG	13	1695	1/1	0.67	0.26	90,90,90,90	0
55	MG	1G	1719	1/1	0.67	0.20	104,104,104,104	0
55	MG	14	3309	1/1	0.68	0.34	84,84,84,84	0
55	MG	13	1644	1/1	0.68	0.44	116,116,116,116	0
55	MG	14	3282	1/1	0.68	0.23	87,87,87,87	0
55	MG	1H	3336	1/1	0.68	0.43	83,83,83,83	0
55	MG	1H	3355	1/1	0.68	0.58	107,107,107,107	0
55	MG	1H	3330	1/1	0.69	0.51	90,90,90,90	0
55	MG	14	3255	1/1	0.69	0.36	92,92,92,92	0
55	MG	14	3128	1/1	0.69	0.43	76,76,76,76	0
55	MG	1H	3350	1/1	0.69	0.51	89,89,89,89	0
55	MG	14	3286	1/1	0.69	0.20	100,100,100,100	0
55	MG	13	1647	1/1	0.69	0.15	110,110,110,110	0
55	MG	1H	3168	1/1	0.69	0.35	85,85,85,85	0
55	MG	14	3289	1/1	0.70	0.16	175,175,175,175	0
55	MG	13	1668	1/1	0.70	0.42	102,102,102,102	0
55	MG	13	1712	1/1	0.70	0.35	123,123,123,123	0
55	MG	14	3345	1/1	0.70	0.28	78,78,78,78	0
55	MG	1G	1663	1/1	0.70	0.29	81,81,81,81	0
55	MG	14	3281	1/1	0.70	0.38	82,82,82,82	0
55	MG	1H	3185	1/1	0.70	0.53	91,91,91,91	0
55	MG	13	1608	1/1	0.70	0.32	101,101,101,101	0
55	MG	1H	3283	1/1	0.70	0.41	104,104,104,104	0
56	ZN	C5	202	1/1	0.70	0.31	219,219,219,219	0
55	MG	1G	1692	1/1	0.71	0.33	120,120,120,120	0
55	MG	3L	101	1/1	0.71	0.18	180,180,180,180	0
55	MG	1H	3259	1/1	0.71	0.33	93,93,93,93	0
55	MG	1H	3352	1/1	0.71	0.35	97,97,97,97	0
55	MG	1G	1638	1/1	0.71	0.43	88,88,88,88	0
55	MG	1G	1639	1/1	0.71	0.46	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	1H	3215	1/1	0.71	0.52	91,91,91,91	0
55	MG	13	1611	1/1	0.71	0.26	83,83,83,83	0
55	MG	1H	3120	1/1	0.71	0.23	69,69,69,69	0
55	MG	1H	3178	1/1	0.71	0.25	77,77,77,77	0
55	MG	13	1635	1/1	0.71	0.31	95,95,95,95	0
55	MG	14	3252	1/1	0.71	0.21	81,81,81,81	0
55	MG	1H	3167	1/1	0.72	0.25	66,66,66,66	0
55	MG	14	3191	1/1	0.72	0.33	92,92,92,92	0
55	MG	13	1698	1/1	0.72	0.35	78,78,78,78	0
55	MG	1H	3385	1/1	0.72	0.21	97,97,97,97	0
55	MG	1H	3232	1/1	0.72	0.24	103,103,103,103	0
55	MG	14	3261	1/1	0.72	0.54	105,105,105,105	0
55	MG	1G	1722	1/1	0.72	0.15	91,91,91,91	0
55	MG	1H	3039	1/1	0.72	0.22	68,68,68,68	0
55	MG	1H	3180	1/1	0.72	0.19	86,86,86,86	0
55	MG	14	3154	1/1	0.72	0.33	87,87,87,87	0
55	MG	1G	1741	1/1	0.72	0.09	112,112,112,112	0
55	MG	14	3161	1/1	0.72	0.37	89,89,89,89	0
55	MG	14	3169	1/1	0.72	0.31	100,100,100,100	0
55	MG	5E	201	1/1	0.72	0.20	106,106,106,106	0
55	MG	1H	3465	1/1	0.73	0.08	87,87,87,87	0
55	MG	1G	1705	1/1	0.73	0.15	96,96,96,96	0
55	MG	1G	1636	1/1	0.73	0.32	80,80,80,80	0
55	MG	1G	1686	1/1	0.73	0.11	95,95,95,95	0
55	MG	14	3312	1/1	0.73	0.35	81,81,81,81	0
55	MG	1H	3221	1/1	0.73	0.27	108,108,108,108	0
55	MG	29	304	1/1	0.73	0.45	89,89,89,89	0
55	MG	39	301	1/1	0.73	0.17	83,83,83,83	0
55	MG	2L	102	1/1	0.73	0.32	102,102,102,102	0
55	MG	14	3269	1/1	0.73	0.20	68,68,68,68	0
55	MG	52	201	1/1	0.74	0.17	84,84,84,84	0
55	MG	1H	3231	1/1	0.74	0.53	88,88,88,88	0
55	MG	16	209	1/1	0.74	0.25	80,80,80,80	0
55	MG	1H	3366	1/1	0.74	0.29	84,84,84,84	0
55	MG	14	3353	1/1	0.74	0.28	84,84,84,84	0
55	MG	14	3263	1/1	0.74	0.13	72,72,72,72	0
55	MG	13	1737	1/1	0.74	0.07	111,111,111,111	0
55	MG	1H	3196	1/1	0.74	0.41	80,80,80,80	0
55	MG	14	3436	1/1	0.74	0.14	107,107,107,107	0
55	MG	14	3306	1/1	0.74	0.14	74,74,74,74	0
55	MG	13	1645	1/1	0.74	0.49	98,98,98,98	0
55	MG	14	3311	1/1	0.74	0.27	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	14	3283	1/1	0.74	0.32	87,87,87,87	0
55	MG	13	1643	1/1	0.74	0.51	86,86,86,86	0
55	MG	1H	3340	1/1	0.75	0.34	77,77,77,77	0
55	MG	13	1617	1/1	0.75	0.32	122,122,122,122	0
55	MG	1H	3253	1/1	0.75	0.30	71,71,71,71	0
55	MG	14	3119	1/1	0.75	0.33	70,70,70,70	0
55	MG	4A	201	1/1	0.75	0.34	115,115,115,115	0
55	MG	14	3325	1/1	0.75	0.36	78,78,78,78	0
55	MG	14	3186	1/1	0.75	0.33	113,113,113,113	0
55	MG	14	3277	1/1	0.75	0.31	78,78,78,78	0
55	MG	1H	3119	1/1	0.75	0.35	77,77,77,77	0
55	MG	1G	1683	1/1	0.75	0.31	103,103,103,103	0
55	MG	14	3307	1/1	0.76	0.27	89,89,89,89	0
55	MG	11	302	1/1	0.76	0.23	85,85,85,85	0
55	MG	1H	3298	1/1	0.76	0.37	87,87,87,87	0
55	MG	1H	3327	1/1	0.76	0.31	63,63,63,63	0
55	MG	1G	1629	1/1	0.76	0.36	86,86,86,86	0
55	MG	13	1671	1/1	0.76	0.15	70,70,70,70	0
55	MG	14	3273	1/1	0.76	0.18	87,87,87,87	0
55	MG	14	3330	1/1	0.76	0.24	81,81,81,81	0
55	MG	1G	1694	1/1	0.76	0.18	118,118,118,118	0
55	MG	1H	3394	1/1	0.76	0.16	69,69,69,69	0
55	MG	1H	3351	1/1	0.76	0.25	90,90,90,90	0
55	MG	14	3166	1/1	0.76	0.15	71,71,71,71	0
55	MG	14	3354	1/1	0.76	0.31	134,134,134,134	0
55	MG	1H	3193	1/1	0.76	0.39	77,77,77,77	0
55	MG	1H	3353	1/1	0.76	0.32	83,83,83,83	0
55	MG	14	3182	1/1	0.76	0.17	77,77,77,77	0
55	MG	13	1711	1/1	0.76	0.62	90,90,90,90	0
55	MG	1G	1708	1/1	0.76	0.22	133,133,133,133	0
55	MG	1G	1679	1/1	0.76	0.30	97,97,97,97	0
55	MG	14	3235	1/1	0.76	0.14	63,63,63,63	0
55	MG	14	3239	1/1	0.76	0.36	87,87,87,87	0
55	MG	14	3096	1/1	0.76	0.36	94,94,94,94	0
55	MG	1H	3265	1/1	0.77	0.17	83,83,83,83	0
55	MG	1G	1677	1/1	0.77	0.29	89,89,89,89	0
55	MG	1G	1610	1/1	0.77	0.32	99,99,99,99	0
55	MG	1H	3469	1/1	0.77	0.15	115,115,115,115	0
55	MG	1G	1709	1/1	0.77	0.21	96,96,96,96	0
55	MG	14	3079	1/1	0.77	0.30	82,82,82,82	0
55	MG	14	3336	1/1	0.77	0.20	73,73,73,73	0
55	MG	13	1734	1/1	0.77	0.06	178,178,178,178	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3140	1/1	0.77	0.20	52,52,52,52	0
55	MG	14	3218	1/1	0.77	0.39	88,88,88,88	0
55	MG	14	3357	1/1	0.77	0.19	76,76,76,76	0
55	MG	1G	1688	1/1	0.77	0.23	102,102,102,102	0
55	MG	13	1638	1/1	0.77	0.23	85,85,85,85	0
55	MG	1H	3096	1/1	0.77	0.43	71,71,71,71	0
55	MG	13	1640	1/1	0.77	0.23	89,89,89,89	0
55	MG	1G	1740	1/1	0.77	0.05	140,140,140,140	0
55	MG	14	3135	1/1	0.77	0.23	64,64,64,64	0
55	MG	14	3262	1/1	0.77	0.37	86,86,86,86	0
55	MG	1H	3406	1/1	0.77	0.53	91,91,91,91	0
55	MG	13	1731	1/1	0.77	0.14	153,153,153,153	0
55	MG	1H	3106	1/1	0.78	0.40	85,85,85,85	0
55	MG	1H	3116	1/1	0.78	0.50	74,74,74,74	0
55	MG	14	3314	1/1	0.78	0.28	105,105,105,105	0
55	MG	13	1657	1/1	0.78	0.31	74,74,74,74	0
55	MG	1H	3293	1/1	0.78	0.34	95,95,95,95	0
55	MG	1H	3349	1/1	0.78	0.15	77,77,77,77	0
55	MG	14	3272	1/1	0.78	0.39	94,94,94,94	0
55	MG	32	301	1/1	0.78	0.42	113,113,113,113	0
55	MG	1H	3294	1/1	0.78	0.54	85,85,85,85	0
55	MG	14	3168	1/1	0.78	0.35	76,76,76,76	0
55	MG	1H	3297	1/1	0.78	0.33	81,81,81,81	0
55	MG	13	1709	1/1	0.78	0.27	78,78,78,78	0
55	MG	13	1666	1/1	0.78	0.47	104,104,104,104	0
55	MG	13	1649	1/1	0.78	0.45	84,84,84,84	0
55	MG	1H	3356	1/1	0.78	0.53	91,91,91,91	0
55	MG	1H	3311	1/1	0.78	0.55	83,83,83,83	0
55	MG	14	3206	1/1	0.78	0.23	76,76,76,76	0
55	MG	1H	3152	1/1	0.78	0.48	80,80,80,80	0
55	MG	1J	206	1/1	0.78	0.36	96,96,96,96	0
55	MG	14	3228	1/1	0.78	0.25	84,84,84,84	0
55	MG	1H	3501	1/1	0.78	0.09	99,99,99,99	0
55	MG	13	1624	1/1	0.78	0.36	107,107,107,107	0
55	MG	2K	103	1/1	0.78	0.32	94,94,94,94	0
55	MG	1H	3105	1/1	0.78	0.36	90,90,90,90	0
55	MG	1H	3292	1/1	0.79	0.44	82,82,82,82	0
55	MG	1H	3495	1/1	0.79	0.11	79,79,79,79	0
55	MG	1H	3172	1/1	0.79	0.20	69,69,69,69	0
55	MG	14	3150	1/1	0.79	0.38	107,107,107,107	0
55	MG	1H	3134	1/1	0.79	0.33	65,65,65,65	0
55	MG	13	1680	1/1	0.79	0.40	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	1G	1654	1/1	0.79	0.38	91,91,91,91	0
55	MG	1H	3339	1/1	0.79	0.45	91,91,91,91	0
55	MG	1H	3388	1/1	0.79	0.34	74,74,74,74	0
55	MG	1H	3357	1/1	0.79	0.35	92,92,92,92	0
55	MG	1H	3149	1/1	0.79	0.46	82,82,82,82	0
55	MG	14	3175	1/1	0.79	0.39	85,85,85,85	0
55	MG	14	3449	1/1	0.79	0.08	108,108,108,108	0
55	MG	1H	3363	1/1	0.79	0.39	104,104,104,104	0
55	MG	1J	210	1/1	0.79	0.12	144,144,144,144	0
55	MG	1H	3058	1/1	0.79	0.47	60,60,60,60	0
55	MG	1H	3088	1/1	0.79	0.21	52,52,52,52	0
55	MG	14	3321	1/1	0.79	0.37	89,89,89,89	0
55	MG	1H	3033	1/1	0.79	0.20	83,83,83,83	0
55	MG	13	1708	1/1	0.79	0.54	127,127,127,127	0
55	MG	1H	3523	1/1	0.80	0.10	78,78,78,78	0
55	MG	1H	3397	1/1	0.80	0.12	94,94,94,94	0
55	MG	1H	3323	1/1	0.80	0.41	80,80,80,80	0
55	MG	1G	1656	1/1	0.80	0.31	94,94,94,94	0
55	MG	1H	3207	1/1	0.80	0.18	67,67,67,67	0
55	MG	1H	3146	1/1	0.80	0.23	48,48,48,48	0
55	MG	1H	3276	1/1	0.80	0.23	88,88,88,88	0
55	MG	1H	3135	1/1	0.80	0.19	72,72,72,72	0
55	MG	14	3349	1/1	0.80	0.20	100,100,100,100	0
55	MG	I8	101	1/1	0.80	0.32	83,83,83,83	0
55	MG	1H	3303	1/1	0.80	0.24	63,63,63,63	0
55	MG	1H	3216	1/1	0.80	0.48	90,90,90,90	0
55	MG	14	3361	1/1	0.80	0.30	90,90,90,90	0
55	MG	14	3123	1/1	0.80	0.23	50,50,50,50	0
55	MG	1H	3497	1/1	0.80	0.16	105,105,105,105	0
55	MG	14	3220	1/1	0.80	0.17	89,89,89,89	0
55	MG	1H	3076	1/1	0.80	0.23	77,77,77,77	0
55	MG	14	3230	1/1	0.80	0.28	75,75,75,75	0
55	MG	1H	3244	1/1	0.80	0.28	55,55,55,55	0
55	MG	1G	1693	1/1	0.80	0.35	95,95,95,95	0
55	MG	14	3143	1/1	0.80	0.42	87,87,87,87	0
55	MG	14	3147	1/1	0.80	0.39	83,83,83,83	0
55	MG	1G	1748	1/1	0.80	0.25	90,90,90,90	0
55	MG	E5	101	1/1	0.80	0.39	88,88,88,88	0
55	MG	1H	3205	1/1	0.80	0.59	103,103,103,103	0
55	MG	14	3156	1/1	0.80	0.17	75,75,75,75	0
55	MG	1G	1738	1/1	0.81	0.10	140,140,140,140	0
55	MG	1H	3159	1/1	0.81	0.34	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3313	1/1	0.81	0.22	91,91,91,91	0
55	MG	1H	3044	1/1	0.81	0.29	98,98,98,98	0
55	MG	13	1697	1/1	0.81	0.41	84,84,84,84	0
55	MG	14	3134	1/1	0.81	0.30	80,80,80,80	0
55	MG	14	3200	1/1	0.81	0.42	100,100,100,100	0
55	MG	1H	3325	1/1	0.81	0.39	97,97,97,97	0
55	MG	14	3141	1/1	0.81	0.41	85,85,85,85	0
55	MG	14	3219	1/1	0.81	0.20	67,67,67,67	0
55	MG	13	1715	1/1	0.81	0.23	70,70,70,70	0
55	MG	1H	3452	1/1	0.81	0.13	58,58,58,58	0
55	MG	14	3148	1/1	0.81	0.46	86,86,86,86	0
55	MG	14	3431	1/1	0.81	0.10	102,102,102,102	0
55	MG	1H	3457	1/1	0.81	0.07	102,102,102,102	0
55	MG	1H	3086	1/1	0.81	0.19	59,59,59,59	0
55	MG	14	3459	1/1	0.81	0.05	130,130,130,130	0
55	MG	14	3155	1/1	0.81	0.33	77,77,77,77	0
55	MG	1H	3197	1/1	0.81	0.62	85,85,85,85	0
55	MG	1H	3488	1/1	0.81	0.11	66,66,66,66	0
55	MG	1H	3173	1/1	0.81	0.49	90,90,90,90	0
55	MG	1G	1618	1/1	0.81	0.26	79,79,79,79	0
55	MG	45	201	1/1	0.81	0.33	76,76,76,76	0
55	MG	13	1694	1/1	0.81	0.30	92,92,92,92	0
55	MG	13	1733	1/1	0.81	0.08	141,141,141,141	0
55	MG	14	3171	1/1	0.81	0.37	86,86,86,86	0
55	MG	14	3236	1/1	0.82	0.44	94,94,94,94	0
55	MG	1H	3139	1/1	0.82	0.58	69,69,69,69	0
55	MG	14	3296	1/1	0.82	0.28	97,97,97,97	0
55	MG	14	3297	1/1	0.82	0.26	78,78,78,78	0
55	MG	14	3244	1/1	0.82	0.33	86,86,86,86	0
55	MG	1H	3519	1/1	0.82	0.09	103,103,103,103	0
55	MG	1G	1725	1/1	0.82	0.20	93,93,93,93	0
55	MG	14	3305	1/1	0.82	0.36	89,89,89,89	0
55	MG	14	3034	1/1	0.82	0.31	73,73,73,73	0
55	MG	14	3142	1/1	0.82	0.30	72,72,72,72	0
55	MG	1H	3341	1/1	0.82	0.30	76,76,76,76	0
55	MG	1H	3174	1/1	0.82	0.27	89,89,89,89	0
55	MG	1H	3188	1/1	0.82	0.42	81,81,81,81	0
55	MG	1J	204	1/1	0.82	0.23	101,101,101,101	0
55	MG	14	3087	1/1	0.82	0.27	65,65,65,65	0
55	MG	1J	208	1/1	0.82	0.07	97,97,97,97	0
55	MG	1H	3030	1/1	0.82	0.29	91,91,91,91	0
55	MG	1H	3333	1/1	0.82	0.34	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3150	1/1	0.82	0.39	78,78,78,78	0
55	MG	14	3157	1/1	0.82	0.40	80,80,80,80	0
55	MG	14	3158	1/1	0.82	0.27	97,97,97,97	0
55	MG	1G	1646	1/1	0.82	0.23	93,93,93,93	0
55	MG	1H	3322	1/1	0.82	0.26	92,92,92,92	0
55	MG	1H	3514	1/1	0.82	0.10	109,109,109,109	0
55	MG	13	1713	1/1	0.83	0.33	100,100,100,100	0
55	MG	1H	3284	1/1	0.83	0.42	73,73,73,73	0
55	MG	1H	3075	1/1	0.83	0.53	87,87,87,87	0
55	MG	1H	3118	1/1	0.83	0.37	83,83,83,83	0
55	MG	14	3302	1/1	0.83	0.26	91,91,91,91	0
55	MG	13	1677	1/1	0.83	0.16	83,83,83,83	0
55	MG	13	1646	1/1	0.83	0.39	90,90,90,90	0
55	MG	13	1655	1/1	0.83	0.31	92,92,92,92	0
55	MG	1G	1660	1/1	0.83	0.10	87,87,87,87	0
55	MG	14	3308	1/1	0.83	0.20	80,80,80,80	0
55	MG	1H	3493	1/1	0.83	0.08	103,103,103,103	0
55	MG	1G	1664	1/1	0.83	0.28	104,104,104,104	0
55	MG	1H	3132	1/1	0.83	0.36	76,76,76,76	0
55	MG	1G	1676	1/1	0.83	0.39	98,98,98,98	0
55	MG	14	3317	1/1	0.83	0.36	83,83,83,83	0
55	MG	1H	3260	1/1	0.83	0.22	70,70,70,70	0
55	MG	1H	3263	1/1	0.83	0.46	84,84,84,84	0
55	MG	14	3323	1/1	0.83	0.25	87,87,87,87	0
55	MG	13	1660	1/1	0.83	0.38	80,80,80,80	0
55	MG	1H	3103	1/1	0.83	0.41	71,71,71,71	0
55	MG	1G	1624	1/1	0.83	0.33	78,78,78,78	0
55	MG	C5	201	1/1	0.83	0.26	86,86,86,86	0
55	MG	1G	1727	1/1	0.83	0.24	104,104,104,104	0
55	MG	13	1702	1/1	0.83	0.24	147,147,147,147	0
55	MG	14	3295	1/1	0.83	0.18	72,72,72,72	0
55	MG	1H	3157	1/1	0.84	0.28	79,79,79,79	0
55	MG	1G	1671	1/1	0.84	0.15	92,92,92,92	0
55	MG	1G	1674	1/1	0.84	0.34	111,111,111,111	0
55	MG	14	3188	1/1	0.84	0.37	76,76,76,76	0
55	MG	13	1613	1/1	0.84	0.29	99,99,99,99	0
55	MG	14	3338	1/1	0.84	0.17	78,78,78,78	0
55	MG	1H	3508	1/1	0.84	0.06	119,119,119,119	0
55	MG	1H	3510	1/1	0.84	0.05	111,111,111,111	0
55	MG	1H	3376	1/1	0.84	0.46	94,94,94,94	0
55	MG	14	3210	1/1	0.84	0.15	68,68,68,68	0
55	MG	1H	3182	1/1	0.84	0.12	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1G	1627	1/1	0.84	0.46	93,93,93,93	0
55	MG	14	3298	1/1	0.84	0.32	69,69,69,69	0
55	MG	1H	3517	1/1	0.84	0.06	113,113,113,113	0
55	MG	1G	1689	1/1	0.84	0.26	90,90,90,90	0
55	MG	1H	3268	1/1	0.84	0.39	100,100,100,100	0
55	MG	13	1618	1/1	0.84	0.29	96,96,96,96	0
55	MG	1H	3520	1/1	0.84	0.06	103,103,103,103	0
55	MG	1G	1642	1/1	0.84	0.26	87,87,87,87	0
55	MG	1J	203	1/1	0.84	0.10	92,92,92,92	0
55	MG	1H	3281	1/1	0.84	0.52	80,80,80,80	0
55	MG	1H	3344	1/1	0.84	0.32	84,84,84,84	0
55	MG	1H	3200	1/1	0.84	0.29	99,99,99,99	0
55	MG	1H	3482	1/1	0.84	0.10	70,70,70,70	0
55	MG	1H	3391	1/1	0.84	0.37	92,92,92,92	0
55	MG	1H	3032	1/1	0.84	0.35	95,95,95,95	0
55	MG	1H	3175	1/1	0.84	0.54	74,74,74,74	0
55	MG	14	3088	1/1	0.84	0.35	70,70,70,70	0
55	MG	1G	1667	1/1	0.84	0.31	103,103,103,103	0
55	MG	14	3103	1/1	0.84	0.25	58,58,58,58	0
55	MG	14	3324	1/1	0.84	0.36	101,101,101,101	0
55	MG	14	3105	1/1	0.84	0.38	72,72,72,72	0
55	MG	1H	3477	1/1	0.85	0.12	74,74,74,74	0
55	MG	7E	201	1/1	0.85	0.33	83,83,83,83	0
55	MG	14	3163	1/1	0.85	0.23	80,80,80,80	0
55	MG	13	1637	1/1	0.85	0.50	90,90,90,90	0
55	MG	14	3093	1/1	0.85	0.24	84,84,84,84	0
55	MG	14	3326	1/1	0.85	0.16	90,90,90,90	0
55	MG	1H	3318	1/1	0.85	0.16	75,75,75,75	0
55	MG	14	3274	1/1	0.85	0.11	69,69,69,69	0
55	MG	1H	3065	1/1	0.85	0.34	64,64,64,64	0
55	MG	14	3279	1/1	0.85	0.44	84,84,84,84	0
55	MG	1G	1672	1/1	0.85	0.28	79,79,79,79	0
55	MG	14	3106	1/1	0.85	0.44	75,75,75,75	0
55	MG	14	3181	1/1	0.85	0.29	70,70,70,70	0
55	MG	14	3285	1/1	0.85	0.31	93,93,93,93	0
55	MG	1H	3213	1/1	0.85	0.24	84,84,84,84	0
55	MG	14	3185	1/1	0.85	0.34	90,90,90,90	0
55	MG	14	3356	1/1	0.85	0.23	195,195,195,195	0
55	MG	14	3288	1/1	0.85	0.07	171,171,171,171	0
55	MG	14	3360	1/1	0.85	0.19	74,74,74,74	0
55	MG	1H	3499	1/1	0.85	0.09	111,111,111,111	0
55	MG	14	3121	1/1	0.85	0.20	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3291	1/1	0.85	0.19	68,68,68,68	0
55	MG	1H	3256	1/1	0.85	0.19	78,78,78,78	0
55	MG	14	3376	1/1	0.85	0.10	66,66,66,66	0
55	MG	14	3420	1/1	0.85	0.07	89,89,89,89	0
55	MG	1H	3124	1/1	0.85	0.33	59,59,59,59	0
55	MG	1G	1684	1/1	0.85	0.41	99,99,99,99	0
55	MG	1H	3359	1/1	0.85	0.14	77,77,77,77	0
55	MG	1G	1632	1/1	0.85	0.30	79,79,79,79	0
55	MG	14	3461	1/1	0.85	0.09	82,82,82,82	0
55	MG	1H	3066	1/1	0.85	0.41	70,70,70,70	0
55	MG	1H	3399	1/1	0.85	0.22	77,77,77,77	0
55	MG	14	3221	1/1	0.85	0.12	76,76,76,76	0
55	MG	14	3304	1/1	0.85	0.45	99,99,99,99	0
55	MG	13	1692	1/1	0.85	0.44	132,132,132,132	0
55	MG	13	1658	1/1	0.85	0.37	108,108,108,108	0
55	MG	1H	3266	1/1	0.85	0.33	101,101,101,101	0
55	MG	1G	1650	1/1	0.85	0.26	90,90,90,90	0
55	MG	1H	3199	1/1	0.85	0.19	72,72,72,72	0
55	MG	1H	3269	1/1	0.85	0.33	82,82,82,82	0
55	MG	14	3036	1/1	0.85	0.29	91,91,91,91	0
55	MG	13	1667	1/1	0.85	0.43	94,94,94,94	0
55	MG	1H	3164	1/1	0.85	0.46	90,90,90,90	0
55	MG	1G	1658	1/1	0.86	0.14	99,99,99,99	0
55	MG	1H	3239	1/1	0.86	0.32	74,74,74,74	0
55	MG	1H	3069	1/1	0.86	0.28	51,51,51,51	0
55	MG	14	3343	1/1	0.86	0.30	86,86,86,86	0
55	MG	13	1661	1/1	0.86	0.42	95,95,95,95	0
55	MG	14	3293	1/1	0.86	0.15	75,75,75,75	0
55	MG	14	3037	1/1	0.86	0.34	71,71,71,71	0
55	MG	1G	1704	1/1	0.86	0.23	117,117,117,117	0
55	MG	14	3054	1/1	0.86	0.35	81,81,81,81	0
55	MG	1H	3509	1/1	0.86	0.07	85,85,85,85	0
55	MG	1G	1707	1/1	0.86	0.42	90,90,90,90	0
55	MG	1H	3369	1/1	0.86	0.14	94,94,94,94	0
55	MG	13	1682	1/1	0.86	0.43	85,85,85,85	0
55	MG	1H	3314	1/1	0.86	0.38	97,97,97,97	0
55	MG	1H	3148	1/1	0.86	0.18	86,86,86,86	0
55	MG	13	1605	1/1	0.86	0.17	84,84,84,84	0
55	MG	14	3378	1/1	0.86	0.14	78,78,78,78	0
55	MG	13	1705	1/1	0.86	0.30	76,76,76,76	0
55	MG	1G	1678	1/1	0.86	0.35	102,102,102,102	0
55	MG	14	3265	1/1	0.86	0.38	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	14	3442	1/1	0.86	0.04	107,107,107,107	0
55	MG	14	3267	1/1	0.86	0.12	90,90,90,90	0
55	MG	14	3310	1/1	0.86	0.49	75,75,75,75	0
55	MG	1G	1635	1/1	0.86	0.48	70,70,70,70	0
55	MG	14	3464	1/1	0.86	0.06	101,101,101,101	0
55	MG	13	1686	1/1	0.86	0.39	85,85,85,85	0
55	MG	14	3313	1/1	0.86	0.14	86,86,86,86	0
55	MG	1H	3064	1/1	0.86	0.35	70,70,70,70	0
55	MG	13	1714	1/1	0.86	0.57	117,117,117,117	0
55	MG	1J	209	1/1	0.86	0.09	128,128,128,128	0
55	MG	1G	1640	1/1	0.86	0.45	107,107,107,107	0
55	MG	19	301	1/1	0.86	0.21	67,67,67,67	0
55	MG	1H	3181	1/1	0.86	0.33	62,62,62,62	0
55	MG	14	3280	1/1	0.86	0.24	75,75,75,75	0
55	MG	1H	3300	1/1	0.86	0.30	77,77,77,77	0
55	MG	13	1707	1/1	0.86	0.26	100,100,100,100	0
55	MG	16	210	1/1	0.86	0.15	96,96,96,96	0
55	MG	14	3140	1/1	0.86	0.38	77,77,77,77	0
55	MG	1H	3235	1/1	0.86	0.52	88,88,88,88	0
55	MG	11	301	1/1	0.86	0.21	54,54,54,54	0
55	MG	14	3117	1/1	0.87	0.33	93,93,93,93	0
55	MG	1G	1700	1/1	0.87	0.35	94,94,94,94	0
55	MG	1H	3068	1/1	0.87	0.25	61,61,61,61	0
55	MG	1H	3204	1/1	0.87	0.44	83,83,83,83	0
55	MG	14	3126	1/1	0.87	0.32	83,83,83,83	0
55	MG	14	3179	1/1	0.87	0.33	88,88,88,88	0
55	MG	1H	3227	1/1	0.87	0.28	76,76,76,76	0
55	MG	14	3268	1/1	0.87	0.38	85,85,85,85	0
55	MG	13	1607	1/1	0.87	0.34	86,86,86,86	0
55	MG	14	3271	1/1	0.87	0.20	82,82,82,82	0
55	MG	14	3184	1/1	0.87	0.23	71,71,71,71	0
55	MG	2K	105	1/1	0.87	0.21	76,76,76,76	0
55	MG	14	3438	1/1	0.87	0.08	83,83,83,83	0
55	MG	2L	104	1/1	0.87	0.07	93,93,93,93	0
55	MG	1H	3194	1/1	0.87	0.32	68,68,68,68	0
55	MG	1H	3211	1/1	0.87	0.37	79,79,79,79	0
55	MG	1H	3374	1/1	0.87	0.31	67,67,67,67	0
55	MG	14	3462	1/1	0.87	0.04	130,130,130,130	0
55	MG	14	3199	1/1	0.87	0.23	60,60,60,60	0
55	MG	1G	1710	1/1	0.87	0.23	101,101,101,101	0
55	MG	1H	3238	1/1	0.87	0.56	82,82,82,82	0
55	MG	14	3208	1/1	0.87	0.23	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	13	1678	1/1	0.87	0.35	104,104,104,104	0
55	MG	1G	1720	1/1	0.87	0.31	95,95,95,95	0
55	MG	1G	1652	1/1	0.87	0.33	82,82,82,82	0
55	MG	14	3085	1/1	0.87	0.31	72,72,72,72	0
55	MG	I8	103	1/1	0.87	0.39	92,92,92,92	0
55	MG	1G	1609	1/1	0.87	0.37	99,99,99,99	0
55	MG	1H	3410	1/1	0.87	0.10	52,52,52,52	0
55	MG	1H	3038	1/1	0.87	0.20	59,59,59,59	0
55	MG	1H	3329	1/1	0.87	0.40	85,85,85,85	0
55	MG	13	1614	1/1	0.87	0.24	95,95,95,95	0
55	MG	1H	3041	1/1	0.87	0.22	63,63,63,63	0
55	MG	1H	3309	1/1	0.87	0.24	85,85,85,85	0
55	MG	13	1625	1/1	0.88	0.46	95,95,95,95	0
55	MG	1G	1673	1/1	0.88	0.22	88,88,88,88	0
55	MG	1H	3262	1/1	0.88	0.09	71,71,71,71	0
55	MG	14	3224	1/1	0.88	0.16	112,112,112,112	0
55	MG	13	1710	1/1	0.88	0.13	103,103,103,103	0
55	MG	1H	3092	1/1	0.88	0.43	62,62,62,62	0
55	MG	14	3358	1/1	0.88	0.17	85,85,85,85	0
55	MG	14	3234	1/1	0.88	0.16	51,51,51,51	0
55	MG	1H	3170	1/1	0.88	0.42	89,89,89,89	0
55	MG	14	3362	1/1	0.88	0.29	111,111,111,111	0
55	MG	13	1632	1/1	0.88	0.49	74,74,74,74	0
55	MG	14	3099	1/1	0.88	0.22	67,67,67,67	0
55	MG	14	3100	1/1	0.88	0.21	79,79,79,79	0
55	MG	13	1615	1/1	0.88	0.37	98,98,98,98	0
55	MG	1H	3104	1/1	0.88	0.18	85,85,85,85	0
55	MG	16	207	1/1	0.88	0.46	85,85,85,85	0
55	MG	14	3260	1/1	0.88	0.31	99,99,99,99	0
55	MG	14	3433	1/1	0.88	0.07	87,87,87,87	0
55	MG	1H	3491	1/1	0.88	0.14	52,52,52,52	0
55	MG	1G	1687	1/1	0.88	0.25	79,79,79,79	0
55	MG	1H	3305	1/1	0.88	0.17	104,104,104,104	0
55	MG	1H	3277	1/1	0.88	0.33	74,74,74,74	0
55	MG	14	3457	1/1	0.88	0.06	125,125,125,125	0
55	MG	13	1685	1/1	0.88	0.12	89,89,89,89	0
55	MG	1H	3176	1/1	0.88	0.38	73,73,73,73	0
55	MG	1H	3177	1/1	0.88	0.21	69,69,69,69	0
55	MG	1H	3502	1/1	0.88	0.06	148,148,148,148	0
55	MG	1G	1655	1/1	0.88	0.33	74,74,74,74	0
55	MG	1H	3504	1/1	0.88	0.07	80,80,80,80	0
55	MG	1G	1607	1/1	0.88	0.28	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3401	1/1	0.88	0.26	67,67,67,67	0
55	MG	14	3196	1/1	0.88	0.10	60,60,60,60	0
55	MG	14	3197	1/1	0.88	0.26	81,81,81,81	0
55	MG	13	1652	1/1	0.88	0.30	88,88,88,88	0
55	MG	1H	3258	1/1	0.88	0.50	91,91,91,91	0
55	MG	14	3205	1/1	0.88	0.40	70,70,70,70	0
55	MG	14	3284	1/1	0.88	0.23	95,95,95,95	0
55	MG	15	201	1/1	0.88	0.16	99,99,99,99	0
55	MG	25	201	1/1	0.88	0.08	111,111,111,111	0
55	MG	1G	1614	1/1	0.88	0.28	92,92,92,92	0
55	MG	1G	1615	1/1	0.88	0.19	78,78,78,78	0
55	MG	1H	3078	1/1	0.88	0.30	71,71,71,71	0
55	MG	14	3342	1/1	0.88	0.45	94,94,94,94	0
55	MG	14	3149	1/1	0.88	0.18	66,66,66,66	0
55	MG	1H	3316	1/1	0.89	0.23	61,61,61,61	0
55	MG	1G	1723	1/1	0.89	0.24	98,98,98,98	0
55	MG	14	3241	1/1	0.89	0.30	89,89,89,89	0
55	MG	14	3136	1/1	0.89	0.39	75,75,75,75	0
55	MG	1G	1724	1/1	0.89	0.21	99,99,99,99	0
55	MG	13	1653	1/1	0.89	0.35	104,104,104,104	0
55	MG	1G	1662	1/1	0.89	0.41	84,84,84,84	0
55	MG	1H	3443	1/1	0.89	0.09	75,75,75,75	0
55	MG	14	3144	1/1	0.89	0.47	98,98,98,98	0
55	MG	13	1662	1/1	0.89	0.26	86,86,86,86	0
55	MG	1H	3201	1/1	0.89	0.41	66,66,66,66	0
55	MG	1G	1668	1/1	0.89	0.27	82,82,82,82	0
55	MG	16	212	1/1	0.89	0.13	85,85,85,85	0
55	MG	14	3152	1/1	0.89	0.31	72,72,72,72	0
55	MG	14	3350	1/1	0.89	0.29	77,77,77,77	0
55	MG	16	213	1/1	0.89	0.15	113,113,113,113	0
55	MG	1H	3037	1/1	0.89	0.33	60,60,60,60	0
55	MG	13	1722	1/1	0.89	0.18	101,101,101,101	0
55	MG	1H	3179	1/1	0.89	0.17	60,60,60,60	0
55	MG	I8	102	1/1	0.89	0.38	65,65,65,65	0
55	MG	1H	3372	1/1	0.89	0.38	94,94,94,94	0
55	MG	Q8	102	1/1	0.89	0.31	81,81,81,81	0
55	MG	1H	3486	1/1	0.89	0.07	79,79,79,79	0
55	MG	14	3001	1/1	0.89	0.24	70,70,70,70	0
55	MG	14	3167	1/1	0.89	0.20	83,83,83,83	0
55	MG	14	3369	1/1	0.89	0.21	78,78,78,78	0
55	MG	14	3370	1/1	0.89	0.27	75,75,75,75	0
55	MG	14	3019	1/1	0.89	0.34	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	14	3020	1/1	0.89	0.33	72,72,72,72	0
55	MG	1H	3154	1/1	0.89	0.45	79,79,79,79	0
55	MG	14	3414	1/1	0.89	0.10	56,56,56,56	0
55	MG	1H	3332	1/1	0.89	0.47	87,87,87,87	0
55	MG	14	3425	1/1	0.89	0.08	96,96,96,96	0
55	MG	13	1674	1/1	0.89	0.36	106,106,106,106	0
55	MG	13	1701	1/1	0.89	0.33	100,100,100,100	0
55	MG	1H	3212	1/1	0.89	0.22	78,78,78,78	0
55	MG	14	3074	1/1	0.89	0.16	47,47,47,47	0
55	MG	1H	3381	1/1	0.89	0.61	62,62,62,62	0
55	MG	14	3080	1/1	0.89	0.52	81,81,81,81	0
55	MG	14	3455	1/1	0.89	0.11	108,108,108,108	0
55	MG	14	3081	1/1	0.89	0.32	70,70,70,70	0
55	MG	14	3187	1/1	0.89	0.41	94,94,94,94	0
55	MG	1H	3500	1/1	0.89	0.06	65,65,65,65	0
55	MG	1H	3184	1/1	0.89	0.47	85,85,85,85	0
55	MG	14	3463	1/1	0.89	0.11	130,130,130,130	0
55	MG	1G	1626	1/1	0.89	0.26	107,107,107,107	0
55	MG	1J	202	1/1	0.89	0.45	90,90,90,90	0
55	MG	13	1676	1/1	0.89	0.37	84,84,84,84	0
55	MG	1H	3131	1/1	0.89	0.33	75,75,75,75	0
55	MG	13	1736	1/1	0.89	0.08	132,132,132,132	0
55	MG	1H	3390	1/1	0.89	0.36	88,88,88,88	0
55	MG	1H	3093	1/1	0.89	0.48	82,82,82,82	0
55	MG	1H	3393	1/1	0.89	0.14	62,62,62,62	0
55	MG	1H	3512	1/1	0.89	0.08	115,115,115,115	0
55	MG	1H	3513	1/1	0.89	0.08	116,116,116,116	0
55	MG	1H	3008	1/1	0.89	0.30	44,44,44,44	0
55	MG	13	1651	1/1	0.89	0.31	73,73,73,73	0
55	MG	1H	3310	1/1	0.89	0.41	72,72,72,72	0
55	MG	1G	1651	1/1	0.89	0.39	96,96,96,96	0
55	MG	1H	3273	1/1	0.89	0.39	103,103,103,103	0
55	MG	1H	3029	1/1	0.89	0.24	71,71,71,71	0
55	MG	13	1650	1/1	0.89	0.40	88,88,88,88	0
55	MG	1H	3278	1/1	0.89	0.45	76,76,76,76	0
55	MG	1H	3280	1/1	0.89	0.18	70,70,70,70	0
55	MG	1H	3254	1/1	0.90	0.20	69,69,69,69	0
55	MG	14	3227	1/1	0.90	0.23	80,80,80,80	0
55	MG	1G	1733	1/1	0.90	0.09	93,93,93,93	0
55	MG	14	3294	1/1	0.90	0.11	81,81,81,81	0
55	MG	1G	1734	1/1	0.90	0.07	81,81,81,81	0
55	MG	1H	3522	1/1	0.90	0.15	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3063	1/1	0.90	0.32	63,63,63,63	0
55	MG	14	3364	1/1	0.90	0.09	68,68,68,68	0
55	MG	1H	3034	1/1	0.90	0.14	54,54,54,54	0
55	MG	14	3299	1/1	0.90	0.42	100,100,100,100	0
55	MG	1H	3108	1/1	0.90	0.38	77,77,77,77	0
55	MG	1G	1744	1/1	0.90	0.08	128,128,128,128	0
55	MG	14	3242	1/1	0.90	0.33	86,86,86,86	0
55	MG	16	205	1/1	0.90	0.09	109,109,109,109	0
55	MG	14	3246	1/1	0.90	0.21	83,83,83,83	0
55	MG	14	3385	1/1	0.90	0.13	73,73,73,73	0
55	MG	1G	1696	1/1	0.90	0.11	92,92,92,92	0
55	MG	14	3172	1/1	0.90	0.19	85,85,85,85	0
55	MG	14	3424	1/1	0.90	0.08	81,81,81,81	0
55	MG	1H	3163	1/1	0.90	0.29	82,82,82,82	0
55	MG	1H	3324	1/1	0.90	0.26	66,66,66,66	0
55	MG	1H	3304	1/1	0.90	0.36	82,82,82,82	0
55	MG	13	1681	1/1	0.90	0.39	104,104,104,104	0
55	MG	1H	3165	1/1	0.90	0.40	74,74,74,74	0
55	MG	14	3439	1/1	0.90	0.07	101,101,101,101	0
55	MG	1G	1630	1/1	0.90	0.42	81,81,81,81	0
55	MG	13	1696	1/1	0.90	0.19	86,86,86,86	0
55	MG	14	3017	1/1	0.90	0.25	83,83,83,83	0
55	MG	14	3315	1/1	0.90	0.38	85,85,85,85	0
55	MG	1G	1706	1/1	0.90	0.35	86,86,86,86	0
55	MG	14	3270	1/1	0.90	0.39	76,76,76,76	0
55	MG	14	3319	1/1	0.90	0.09	89,89,89,89	0
55	MG	1G	1633	1/1	0.90	0.48	80,80,80,80	0
55	MG	14	3138	1/1	0.90	0.29	58,58,58,58	0
55	MG	1H	3084	1/1	0.90	0.32	62,62,62,62	0
55	MG	13	1665	1/1	0.90	0.10	90,90,90,90	0
55	MG	1G	1675	1/1	0.90	0.26	99,99,99,99	0
55	MG	14	3328	1/1	0.90	0.42	115,115,115,115	0
55	MG	1H	3334	1/1	0.90	0.23	108,108,108,108	0
55	MG	88	201	1/1	0.90	0.25	98,98,98,98	0
55	MG	14	3056	1/1	0.90	0.29	75,75,75,75	0
55	MG	14	3333	1/1	0.90	0.15	89,89,89,89	0
55	MG	98	201	1/1	0.90	0.34	89,89,89,89	0
55	MG	1H	3335	1/1	0.90	0.41	70,70,70,70	0
55	MG	1G	1643	1/1	0.90	0.31	106,106,106,106	0
55	MG	14	3341	1/1	0.90	0.18	95,95,95,95	0
55	MG	14	3217	1/1	0.90	0.26	55,55,55,55	0
55	MG	1H	3362	1/1	0.90	0.41	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3245	1/1	0.90	0.34	86,86,86,86	0
55	MG	1H	3272	1/1	0.90	0.31	76,76,76,76	0
55	MG	1H	3226	1/1	0.90	0.30	114,114,114,114	0
55	MG	14	3290	1/1	0.90	0.33	77,77,77,77	0
55	MG	1H	3094	1/1	0.91	0.32	60,60,60,60	0
55	MG	14	3094	1/1	0.91	0.34	81,81,81,81	0
55	MG	1H	3400	1/1	0.91	0.34	84,84,84,84	0
55	MG	1H	3337	1/1	0.91	0.28	94,94,94,94	0
55	MG	14	3363	1/1	0.91	0.14	61,61,61,61	0
55	MG	1H	3368	1/1	0.91	0.45	72,72,72,72	0
55	MG	14	3366	1/1	0.91	0.43	99,99,99,99	0
55	MG	1H	3073	1/1	0.91	0.26	77,77,77,77	0
55	MG	1H	3285	1/1	0.91	0.09	89,89,89,89	0
55	MG	1H	3408	1/1	0.91	0.12	54,54,54,54	0
55	MG	14	3253	1/1	0.91	0.24	105,105,105,105	0
55	MG	14	3372	1/1	0.91	0.37	96,96,96,96	0
55	MG	14	3109	1/1	0.91	0.36	85,85,85,85	0
55	MG	14	3374	1/1	0.91	0.17	52,52,52,52	0
55	MG	14	3257	1/1	0.91	0.22	75,75,75,75	0
55	MG	1G	1659	1/1	0.91	0.20	107,107,107,107	0
55	MG	14	3115	1/1	0.91	0.16	58,58,58,58	0
55	MG	14	3402	1/1	0.91	0.07	82,82,82,82	0
55	MG	14	3409	1/1	0.91	0.07	64,64,64,64	0
55	MG	14	3413	1/1	0.91	0.12	70,70,70,70	0
55	MG	1H	3056	1/1	0.91	0.47	68,68,68,68	0
55	MG	14	3177	1/1	0.91	0.38	76,76,76,76	0
55	MG	1H	3290	1/1	0.91	0.41	80,80,80,80	0
55	MG	13	1727	1/1	0.91	0.12	108,108,108,108	0
55	MG	14	3428	1/1	0.91	0.09	69,69,69,69	0
55	MG	1H	3345	1/1	0.91	0.29	67,67,67,67	0
55	MG	14	3124	1/1	0.91	0.19	56,56,56,56	0
55	MG	14	3125	1/1	0.91	0.42	88,88,88,88	0
55	MG	1G	1665	1/1	0.91	0.15	69,69,69,69	0
55	MG	1G	1622	1/1	0.91	0.29	86,86,86,86	0
55	MG	14	3320	1/1	0.91	0.40	88,88,88,88	0
55	MG	14	3446	1/1	0.91	0.07	87,87,87,87	0
55	MG	13	1628	1/1	0.91	0.35	71,71,71,71	0
55	MG	14	3450	1/1	0.91	0.14	105,105,105,105	0
55	MG	14	3131	1/1	0.91	0.18	66,66,66,66	0
55	MG	13	1664	1/1	0.91	0.59	93,93,93,93	0
55	MG	1G	1670	1/1	0.91	0.32	92,92,92,92	0
55	MG	14	3278	1/1	0.91	0.27	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	14	3327	1/1	0.91	0.43	110,110,110,110	0
55	MG	14	3023	1/1	0.91	0.13	72,72,72,72	0
55	MG	14	3026	1/1	0.91	0.19	78,78,78,78	0
55	MG	1J	201	1/1	0.91	0.24	100,100,100,100	0
55	MG	13	1616	1/1	0.91	0.22	141,141,141,141	0
55	MG	1H	3384	1/1	0.91	0.60	108,108,108,108	0
55	MG	1H	3296	1/1	0.91	0.33	84,84,84,84	0
55	MG	14	3334	1/1	0.91	0.24	84,84,84,84	0
55	MG	1H	3109	1/1	0.91	0.29	76,76,76,76	0
55	MG	13	1704	1/1	0.91	0.20	87,87,87,87	0
55	MG	14	3212	1/1	0.91	0.14	66,66,66,66	0
55	MG	1H	3247	1/1	0.91	0.28	51,51,51,51	0
55	MG	1H	3389	1/1	0.91	0.40	101,101,101,101	0
55	MG	14	3078	1/1	0.91	0.26	60,60,60,60	0
55	MG	1H	3252	1/1	0.91	0.34	98,98,98,98	0
55	MG	1H	3141	1/1	0.91	0.24	65,65,65,65	0
55	MG	1H	3022	1/1	0.91	0.14	60,60,60,60	0
55	MG	1H	3255	1/1	0.91	0.21	92,92,92,92	0
55	MG	1H	3361	1/1	0.91	0.22	155,155,155,155	0
55	MG	14	3355	1/1	0.91	0.24	73,73,73,73	0
55	MG	1H	3049	1/1	0.91	0.33	71,71,71,71	0
55	MG	1H	3169	1/1	0.91	0.46	83,83,83,83	0
55	MG	14	3021	1/1	0.92	0.12	63,63,63,63	0
55	MG	1H	3156	1/1	0.92	0.31	72,72,72,72	0
55	MG	1H	3358	1/1	0.92	0.12	98,98,98,98	0
55	MG	1H	3130	1/1	0.92	0.28	69,69,69,69	0
55	MG	1H	3048	1/1	0.92	0.23	58,58,58,58	0
55	MG	14	3346	1/1	0.92	0.29	84,84,84,84	0
55	MG	14	3160	1/1	0.92	0.21	74,74,74,74	0
55	MG	1G	1698	1/1	0.92	0.26	96,96,96,96	0
55	MG	14	3352	1/1	0.92	0.45	93,93,93,93	0
55	MG	1H	3246	1/1	0.92	0.13	48,48,48,48	0
55	MG	1G	1641	1/1	0.92	0.41	83,83,83,83	0
55	MG	1H	3208	1/1	0.92	0.45	69,69,69,69	0
55	MG	14	3071	1/1	0.92	0.21	62,62,62,62	0
55	MG	14	3275	1/1	0.92	0.38	90,90,90,90	0
55	MG	14	3276	1/1	0.92	0.18	73,73,73,73	0
55	MG	1H	3288	1/1	0.92	0.25	72,72,72,72	0
55	MG	1G	1644	1/1	0.92	0.25	115,115,115,115	0
55	MG	1H	3160	1/1	0.92	0.43	68,68,68,68	0
55	MG	16	206	1/1	0.92	0.09	101,101,101,101	0
55	MG	1H	3434	1/1	0.92	0.11	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	14	3176	1/1	0.92	0.26	63,63,63,63	0
55	MG	1H	3365	1/1	0.92	0.28	86,86,86,86	0
55	MG	14	3178	1/1	0.92	0.27	81,81,81,81	0
55	MG	1H	3448	1/1	0.92	0.11	63,63,63,63	0
55	MG	1H	3449	1/1	0.92	0.22	94,94,94,94	0
55	MG	1H	3210	1/1	0.92	0.41	79,79,79,79	0
55	MG	14	3092	1/1	0.92	0.48	70,70,70,70	0
55	MG	1G	1712	1/1	0.92	0.17	109,109,109,109	0
55	MG	14	3375	1/1	0.92	0.17	51,51,51,51	0
55	MG	1G	1714	1/1	0.92	0.24	98,98,98,98	0
55	MG	13	1663	1/1	0.92	0.29	105,105,105,105	0
55	MG	1H	3183	1/1	0.92	0.31	63,63,63,63	0
55	MG	14	3401	1/1	0.92	0.06	82,82,82,82	0
55	MG	13	1633	1/1	0.92	0.31	79,79,79,79	0
55	MG	1H	3476	1/1	0.92	0.15	59,59,59,59	0
55	MG	21	301	1/1	0.92	0.31	58,58,58,58	0
55	MG	1H	3257	1/1	0.92	0.43	83,83,83,83	0
55	MG	1H	3373	1/1	0.92	0.47	79,79,79,79	0
55	MG	13	1721	1/1	0.92	0.11	88,88,88,88	0
55	MG	1H	3138	1/1	0.92	0.50	87,87,87,87	0
55	MG	1H	3338	1/1	0.92	0.10	78,78,78,78	0
55	MG	1G	1731	1/1	0.92	0.13	110,110,110,110	0
55	MG	14	3432	1/1	0.92	0.12	100,100,100,100	0
55	MG	14	3120	1/1	0.92	0.43	54,54,54,54	0
55	MG	14	3434	1/1	0.92	0.11	98,98,98,98	0
55	MG	Q8	101	1/1	0.92	0.30	99,99,99,99	0
55	MG	14	3437	1/1	0.92	0.06	85,85,85,85	0
55	MG	1H	3005	1/1	0.92	0.26	44,44,44,44	0
55	MG	1H	3219	1/1	0.92	0.32	72,72,72,72	0
55	MG	1G	1608	1/1	0.92	0.23	85,85,85,85	0
55	MG	1H	3189	1/1	0.92	0.12	83,83,83,83	0
55	MG	13	1673	1/1	0.92	0.26	109,109,109,109	0
55	MG	14	3222	1/1	0.92	0.28	79,79,79,79	0
55	MG	14	3453	1/1	0.92	0.07	76,76,76,76	0
55	MG	1G	1742	1/1	0.92	0.05	112,112,112,112	0
55	MG	14	3225	1/1	0.92	0.21	75,75,75,75	0
55	MG	14	3226	1/1	0.92	0.12	55,55,55,55	0
55	MG	1H	3343	1/1	0.92	0.16	90,90,90,90	0
55	MG	1G	1745	1/1	0.92	0.15	93,93,93,93	0
55	MG	1G	1746	1/1	0.92	0.13	134,134,134,134	0
55	MG	14	3233	1/1	0.92	0.26	67,67,67,67	0
55	MG	1H	3224	1/1	0.92	0.50	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3117	1/1	0.92	0.35	75,75,75,75	0
55	MG	1H	3143	1/1	0.92	0.28	73,73,73,73	0
55	MG	14	3139	1/1	0.92	0.39	69,69,69,69	0
55	MG	1J	205	1/1	0.92	0.36	122,122,122,122	0
55	MG	14	3322	1/1	0.92	0.09	70,70,70,70	0
55	MG	1H	3348	1/1	0.92	0.24	88,88,88,88	0
55	MG	13	1726	1/1	0.92	0.13	89,89,89,89	0
55	MG	13	1620	1/1	0.92	0.36	66,66,66,66	0
55	MG	2L	103	1/1	0.92	0.09	130,130,130,130	0
55	MG	14	3248	1/1	0.92	0.34	78,78,78,78	0
55	MG	13	1642	1/1	0.92	0.46	66,66,66,66	0
55	MG	13	1603	1/1	0.92	0.20	96,96,96,96	0
55	MG	14	3254	1/1	0.92	0.37	85,85,85,85	0
55	MG	1H	3236	1/1	0.92	0.47	89,89,89,89	0
55	MG	14	3014	1/1	0.92	0.29	84,84,84,84	0
55	MG	1H	3122	1/1	0.92	0.12	82,82,82,82	0
55	MG	1H	3515	1/1	0.92	0.07	106,106,106,106	0
55	MG	1H	3046	1/1	0.92	0.34	71,71,71,71	0
55	MG	14	3337	1/1	0.92	0.25	105,105,105,105	0
55	MG	1H	3442	1/1	0.93	0.16	43,43,43,43	0
55	MG	1H	3250	1/1	0.93	0.09	73,73,73,73	0
55	MG	14	3151	1/1	0.93	0.48	78,78,78,78	0
55	MG	1H	3110	1/1	0.93	0.24	47,47,47,47	0
55	MG	1H	3114	1/1	0.93	0.08	56,56,56,56	0
55	MG	13	1732	1/1	0.93	0.13	128,128,128,128	0
55	MG	1H	3347	1/1	0.93	0.32	72,72,72,72	0
55	MG	13	1703	1/1	0.93	0.62	147,147,147,147	0
55	MG	13	1687	1/1	0.93	0.25	77,77,77,77	0
55	MG	1H	3229	1/1	0.93	0.12	54,54,54,54	0
55	MG	1G	1680	1/1	0.93	0.39	88,88,88,88	0
55	MG	14	3089	1/1	0.93	0.39	71,71,71,71	0
55	MG	14	3394	1/1	0.93	0.06	89,89,89,89	0
55	MG	14	3162	1/1	0.93	0.42	71,71,71,71	0
55	MG	1G	1737	1/1	0.93	0.07	114,114,114,114	0
55	MG	1H	3320	1/1	0.93	0.61	109,109,109,109	0
55	MG	1H	3230	1/1	0.93	0.40	71,71,71,71	0
55	MG	13	1622	1/1	0.93	0.42	74,74,74,74	0
55	MG	14	3416	1/1	0.93	0.12	52,52,52,52	0
55	MG	1H	3144	1/1	0.93	0.40	69,69,69,69	0
55	MG	14	3421	1/1	0.93	0.05	82,82,82,82	0
55	MG	1H	3233	1/1	0.93	0.16	72,72,72,72	0
55	MG	14	3256	1/1	0.93	0.35	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3326	1/1	0.93	0.11	78,78,78,78	0
55	MG	14	3430	1/1	0.93	0.10	67,67,67,67	0
55	MG	14	3173	1/1	0.93	0.30	70,70,70,70	0
55	MG	13	1634	1/1	0.93	0.35	73,73,73,73	0
55	MG	1G	1690	1/1	0.93	0.32	98,98,98,98	0
55	MG	1H	3042	1/1	0.93	0.12	95,95,95,95	0
55	MG	14	3435	1/1	0.93	0.07	95,95,95,95	0
55	MG	13	1690	1/1	0.93	0.13	118,118,118,118	0
55	MG	1G	1645	1/1	0.93	0.12	79,79,79,79	0
55	MG	21	302	1/1	0.93	0.22	68,68,68,68	0
55	MG	1G	1648	1/1	0.93	0.25	89,89,89,89	0
55	MG	14	3441	1/1	0.93	0.09	86,86,86,86	0
55	MG	13	1691	1/1	0.93	0.49	83,83,83,83	0
55	MG	14	3443	1/1	0.93	0.05	103,103,103,103	0
55	MG	13	1623	1/1	0.93	0.21	107,107,107,107	0
55	MG	1H	3271	1/1	0.93	0.09	90,90,90,90	0
55	MG	1H	3302	1/1	0.93	0.66	74,74,74,74	0
55	MG	1H	3506	1/1	0.93	0.09	110,110,110,110	0
55	MG	1H	3153	1/1	0.93	0.38	86,86,86,86	0
55	MG	14	3456	1/1	0.93	0.06	102,102,102,102	0
55	MG	1H	3243	1/1	0.93	0.17	52,52,52,52	0
55	MG	1G	1604	1/1	0.93	0.15	78,78,78,78	0
55	MG	14	3195	1/1	0.93	0.25	65,65,65,65	0
55	MG	14	3129	1/1	0.93	0.39	70,70,70,70	0
55	MG	14	3130	1/1	0.93	0.20	72,72,72,72	0
55	MG	14	3198	1/1	0.93	0.23	70,70,70,70	0
55	MG	1G	1605	1/1	0.93	0.21	92,92,92,92	0
55	MG	13	1672	1/1	0.93	0.23	119,119,119,119	0
55	MG	1H	3306	1/1	0.93	0.15	83,83,83,83	0
55	MG	1H	3195	1/1	0.93	0.19	79,79,79,79	0
55	MG	3I	201	1/1	0.93	0.20	80,80,80,80	0
55	MG	14	3351	1/1	0.93	0.24	87,87,87,87	0
55	MG	1H	3414	1/1	0.93	0.15	59,59,59,59	0
55	MG	14	3211	1/1	0.93	0.30	77,77,77,77	0
55	MG	1H	3431	1/1	0.93	0.14	70,70,70,70	0
55	MG	14	3213	1/1	0.93	0.32	68,68,68,68	0
55	MG	14	3214	1/1	0.93	0.24	66,66,66,66	0
55	MG	13	1604	1/1	0.93	0.10	86,86,86,86	0
55	MG	14	3042	1/1	0.93	0.29	67,67,67,67	0
55	MG	14	3359	1/1	0.93	0.10	89,89,89,89	0
55	MG	14	3051	1/1	0.93	0.27	62,62,62,62	0
55	MG	1G	1617	1/1	0.93	0.38	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	55	201	1/1	0.93	0.26	68,68,68,68	0
55	MG	1H	3438	1/1	0.93	0.09	60,60,60,60	0
55	MG	14	3059	1/1	0.93	0.30	60,60,60,60	0
55	MG	14	3069	1/1	0.93	0.43	96,96,96,96	0
55	MG	14	3365	1/1	0.93	0.19	78,78,78,78	0
55	MG	1H	3331	1/1	0.94	0.23	84,84,84,84	0
55	MG	13	1717	1/1	0.94	0.12	66,66,66,66	0
55	MG	1H	3016	1/1	0.94	0.29	56,56,56,56	0
55	MG	1H	3402	1/1	0.94	0.17	77,77,77,77	0
55	MG	1H	3126	1/1	0.94	0.42	61,61,61,61	0
55	MG	1H	3127	1/1	0.94	0.41	60,60,60,60	0
55	MG	13	1720	1/1	0.94	0.09	129,129,129,129	0
55	MG	13	1669	1/1	0.94	0.46	77,77,77,77	0
55	MG	1H	3100	1/1	0.94	0.43	61,61,61,61	0
55	MG	1H	3102	1/1	0.94	0.33	49,49,49,49	0
55	MG	1H	3416	1/1	0.94	0.17	71,71,71,71	0
55	MG	1H	3427	1/1	0.94	0.08	107,107,107,107	0
55	MG	1H	3429	1/1	0.94	0.11	71,71,71,71	0
55	MG	1H	3371	1/1	0.94	0.16	62,62,62,62	0
55	MG	1G	1637	1/1	0.94	0.35	71,71,71,71	0
55	MG	14	3396	1/1	0.94	0.11	67,67,67,67	0
55	MG	14	3400	1/1	0.94	0.13	65,65,65,65	0
55	MG	1H	3067	1/1	0.94	0.18	47,47,47,47	0
55	MG	1H	3437	1/1	0.94	0.12	66,66,66,66	0
55	MG	1G	1695	1/1	0.94	0.10	86,86,86,86	0
55	MG	14	3018	1/1	0.94	0.08	64,64,64,64	0
55	MG	1H	3136	1/1	0.94	0.56	85,85,85,85	0
55	MG	1G	1697	1/1	0.94	0.41	85,85,85,85	0
55	MG	13	1735	1/1	0.94	0.04	106,106,106,106	0
55	MG	13	1639	1/1	0.94	0.29	66,66,66,66	0
55	MG	13	1629	1/1	0.94	0.35	60,60,60,60	0
55	MG	14	3029	1/1	0.94	0.33	51,51,51,51	0
55	MG	14	3426	1/1	0.94	0.07	91,91,91,91	0
55	MG	14	3030	1/1	0.94	0.32	60,60,60,60	0
55	MG	14	3231	1/1	0.94	0.28	76,76,76,76	0
55	MG	14	3145	1/1	0.94	0.28	78,78,78,78	0
55	MG	1H	3107	1/1	0.94	0.46	81,81,81,81	0
55	MG	1H	3378	1/1	0.94	0.09	91,91,91,91	0
55	MG	13	1641	1/1	0.94	0.29	67,67,67,67	0
55	MG	14	3238	1/1	0.94	0.41	81,81,81,81	0
55	MG	1H	3461	1/1	0.94	0.12	54,54,54,54	0
55	MG	14	3039	1/1	0.94	0.15	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1G	1649	1/1	0.94	0.37	93,93,93,93	0
55	MG	14	3153	1/1	0.94	0.44	82,82,82,82	0
55	MG	14	3045	1/1	0.94	0.22	41,41,41,41	0
55	MG	1H	3380	1/1	0.94	0.45	88,88,88,88	0
55	MG	14	3249	1/1	0.94	0.24	87,87,87,87	0
55	MG	14	3052	1/1	0.94	0.37	65,65,65,65	0
55	MG	1H	3001	1/1	0.94	0.40	50,50,50,50	0
55	MG	16	215	1/1	0.94	0.09	93,93,93,93	0
55	MG	14	3451	1/1	0.94	0.13	74,74,74,74	0
55	MG	1H	3145	1/1	0.94	0.26	46,46,46,46	0
55	MG	14	3066	1/1	0.94	0.17	63,63,63,63	0
55	MG	1H	3035	1/1	0.94	0.26	75,75,75,75	0
55	MG	14	3332	1/1	0.94	0.27	83,83,83,83	0
55	MG	14	3458	1/1	0.94	0.10	108,108,108,108	0
55	MG	1H	3478	1/1	0.94	0.08	82,82,82,82	0
55	MG	14	3460	1/1	0.94	0.06	112,112,112,112	0
55	MG	1H	3079	1/1	0.94	0.38	66,66,66,66	0
55	MG	14	3075	1/1	0.94	0.27	52,52,52,52	0
55	MG	1G	1717	1/1	0.94	0.16	107,107,107,107	0
55	MG	1H	3483	1/1	0.94	0.05	84,84,84,84	0
55	MG	1H	3484	1/1	0.94	0.06	118,118,118,118	0
55	MG	14	3266	1/1	0.94	0.43	88,88,88,88	0
55	MG	14	3170	1/1	0.94	0.19	79,79,79,79	0
55	MG	1H	3248	1/1	0.94	0.33	61,61,61,61	0
55	MG	1H	3115	1/1	0.94	0.27	51,51,51,51	0
55	MG	14	3083	1/1	0.94	0.41	68,68,68,68	0
55	MG	1H	3490	1/1	0.94	0.06	89,89,89,89	0
55	MG	1H	3080	1/1	0.94	0.26	62,62,62,62	0
55	MG	1H	3354	1/1	0.94	0.43	88,88,88,88	0
55	MG	13	1679	1/1	0.94	0.34	80,80,80,80	0
55	MG	14	3090	1/1	0.94	0.37	70,70,70,70	0
55	MG	1H	3496	1/1	0.94	0.11	78,78,78,78	0
55	MG	1H	3392	1/1	0.94	0.29	73,73,73,73	0
55	MG	1G	1729	1/1	0.94	0.05	93,93,93,93	0
55	MG	1H	3059	1/1	0.94	0.26	83,83,83,83	0
55	MG	1H	3087	1/1	0.94	0.22	49,49,49,49	0
55	MG	1H	3060	1/1	0.94	0.26	80,80,80,80	0
55	MG	1G	1735	1/1	0.94	0.08	96,96,96,96	0
55	MG	1G	1611	1/1	0.94	0.15	132,132,132,132	0
55	MG	F5	101	1/1	0.94	0.33	77,77,77,77	0
55	MG	1H	3090	1/1	0.94	0.26	47,47,47,47	0
55	MG	1H	3223	1/1	0.94	0.34	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1G	1747	1/1	0.95	0.26	86,86,86,86	0
55	MG	14	3098	1/1	0.95	0.33	46,46,46,46	0
55	MG	14	3180	1/1	0.95	0.41	82,82,82,82	0
55	MG	1H	3112	1/1	0.95	0.47	73,73,73,73	0
55	MG	1H	3466	1/1	0.95	0.15	59,59,59,59	0
55	MG	14	3101	1/1	0.95	0.24	65,65,65,65	0
55	MG	2K	101	1/1	0.95	0.25	118,118,118,118	0
55	MG	1H	3471	1/1	0.95	0.08	71,71,71,71	0
55	MG	1H	3472	1/1	0.95	0.07	82,82,82,82	0
55	MG	14	3371	1/1	0.95	0.24	84,84,84,84	0
55	MG	14	3108	1/1	0.95	0.36	85,85,85,85	0
55	MG	2L	101	1/1	0.95	0.21	77,77,77,77	0
55	MG	14	3110	1/1	0.95	0.34	63,63,63,63	0
55	MG	14	3192	1/1	0.95	0.09	56,56,56,56	0
55	MG	1H	3475	1/1	0.95	0.09	70,70,70,70	0
55	MG	1H	3395	1/1	0.95	0.41	76,76,76,76	0
55	MG	14	3379	1/1	0.95	0.11	53,53,53,53	0
55	MG	14	3380	1/1	0.95	0.12	79,79,79,79	0
55	MG	13	1659	1/1	0.95	0.33	102,102,102,102	0
55	MG	14	3118	1/1	0.95	0.22	84,84,84,84	0
55	MG	14	3395	1/1	0.95	0.11	65,65,65,65	0
55	MG	1H	3274	1/1	0.95	0.44	71,71,71,71	0
55	MG	1H	3028	1/1	0.95	0.17	53,53,53,53	0
55	MG	14	3204	1/1	0.95	0.36	70,70,70,70	0
55	MG	13	1724	1/1	0.95	0.14	107,107,107,107	0
55	MG	13	1670	1/1	0.95	0.11	106,106,106,106	0
55	MG	13	1612	1/1	0.95	0.32	102,102,102,102	0
55	MG	1H	3251	1/1	0.95	0.32	56,56,56,56	0
55	MG	1H	3404	1/1	0.95	0.30	80,80,80,80	0
55	MG	1H	3098	1/1	0.95	0.21	42,42,42,42	0
55	MG	13	1627	1/1	0.95	0.48	65,65,65,65	0
55	MG	14	3025	1/1	0.95	0.35	86,86,86,86	0
55	MG	14	3215	1/1	0.95	0.28	76,76,76,76	0
55	MG	1H	3054	1/1	0.95	0.39	51,51,51,51	0
55	MG	14	3028	1/1	0.95	0.25	77,77,77,77	0
55	MG	14	3429	1/1	0.95	0.10	77,77,77,77	0
55	MG	1H	3055	1/1	0.95	0.47	77,77,77,77	0
55	MG	14	3133	1/1	0.95	0.35	71,71,71,71	0
55	MG	1H	3409	1/1	0.95	0.12	62,62,62,62	0
55	MG	14	3033	1/1	0.95	0.30	71,71,71,71	0
55	MG	1H	3125	1/1	0.95	0.36	73,73,73,73	0
55	MG	14	3137	1/1	0.95	0.30	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1G	1657	1/1	0.95	0.29	87,87,87,87	0
55	MG	1H	3287	1/1	0.95	0.38	78,78,78,78	0
55	MG	1G	1711	1/1	0.95	0.30	73,73,73,73	0
55	MG	14	3229	1/1	0.95	0.21	64,64,64,64	0
55	MG	1G	1603	1/1	0.95	0.35	76,76,76,76	0
55	MG	14	3041	1/1	0.95	0.32	58,58,58,58	0
55	MG	1H	3202	1/1	0.95	0.13	94,94,94,94	0
55	MG	14	3044	1/1	0.95	0.16	43,43,43,43	0
55	MG	1G	1661	1/1	0.95	0.38	76,76,76,76	0
55	MG	14	3146	1/1	0.95	0.39	64,64,64,64	0
55	MG	14	3046	1/1	0.95	0.27	75,75,75,75	0
55	MG	1H	3425	1/1	0.95	0.13	61,61,61,61	0
55	MG	14	3454	1/1	0.95	0.14	106,106,106,106	0
55	MG	1H	3321	1/1	0.95	0.48	79,79,79,79	0
55	MG	1H	3428	1/1	0.95	0.10	74,74,74,74	0
55	MG	1H	3289	1/1	0.95	0.16	78,78,78,78	0
55	MG	14	3245	1/1	0.95	0.40	64,64,64,64	0
55	MG	1H	3077	1/1	0.95	0.28	59,59,59,59	0
55	MG	14	3247	1/1	0.95	0.07	79,79,79,79	0
55	MG	14	3061	1/1	0.95	0.32	70,70,70,70	0
55	MG	1H	3383	1/1	0.95	0.12	60,60,60,60	0
55	MG	14	3068	1/1	0.95	0.33	66,66,66,66	0
55	MG	1G	1612	1/1	0.95	0.06	84,84,84,84	0
55	MG	14	3070	1/1	0.95	0.34	66,66,66,66	0
55	MG	13	1718	1/1	0.95	0.12	85,85,85,85	0
55	MG	1H	3129	1/1	0.95	0.14	63,63,63,63	0
55	MG	1H	3439	1/1	0.95	0.09	92,92,92,92	0
55	MG	1H	3155	1/1	0.95	0.28	38,38,38,38	0
55	MG	1H	3057	1/1	0.95	0.26	84,84,84,84	0
55	MG	1G	1619	1/1	0.95	0.34	73,73,73,73	0
55	MG	14	3165	1/1	0.95	0.18	74,74,74,74	0
55	MG	14	3348	1/1	0.95	0.18	65,65,65,65	0
55	MG	1H	3006	1/1	0.95	0.27	67,67,67,67	0
55	MG	14	3264	1/1	0.95	0.28	84,84,84,84	0
55	MG	1G	1621	1/1	0.95	0.20	91,91,91,91	0
55	MG	1H	3007	1/1	0.95	0.33	62,62,62,62	0
55	MG	1H	3267	1/1	0.95	0.27	57,57,57,57	0
55	MG	13	1601	1/1	0.95	0.21	103,103,103,103	0
55	MG	1G	1681	1/1	0.95	0.36	88,88,88,88	0
55	MG	1H	3459	1/1	0.95	0.08	75,75,75,75	0
55	MG	1H	3460	1/1	0.95	0.06	87,87,87,87	0
55	MG	14	3091	1/1	0.95	0.35	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	16	201	1/1	0.95	0.15	110,110,110,110	0
55	MG	16	202	1/1	0.95	0.26	84,84,84,84	0
56	ZN	32	302	1/1	0.95	0.33	111,111,111,111	0
56	ZN	5A	101	1/1	0.95	0.11	133,133,133,133	0
55	MG	13	1654	1/1	0.95	0.39	72,72,72,72	0
55	MG	1H	3191	1/1	0.96	0.51	64,64,64,64	0
55	MG	13	1719	1/1	0.96	0.07	94,94,94,94	0
55	MG	14	3383	1/1	0.96	0.08	81,81,81,81	0
55	MG	13	1606	1/1	0.96	0.27	92,92,92,92	0
55	MG	14	3393	1/1	0.96	0.12	53,53,53,53	0
55	MG	13	1729	1/1	0.96	0.07	112,112,112,112	0
55	MG	1G	1634	1/1	0.96	0.37	80,80,80,80	0
55	MG	1H	3275	1/1	0.96	0.26	69,69,69,69	0
55	MG	14	3399	1/1	0.96	0.07	82,82,82,82	0
55	MG	13	1730	1/1	0.96	0.10	115,115,115,115	0
55	MG	3A	201	1/1	0.96	0.17	81,81,81,81	0
55	MG	1H	3074	1/1	0.96	0.34	82,82,82,82	0
55	MG	14	3407	1/1	0.96	0.09	83,83,83,83	0
55	MG	14	3408	1/1	0.96	0.11	56,56,56,56	0
55	MG	1H	3403	1/1	0.96	0.07	111,111,111,111	0
55	MG	1H	3222	1/1	0.96	0.37	65,65,65,65	0
55	MG	1H	3308	1/1	0.96	0.23	106,106,106,106	0
55	MG	1H	3279	1/1	0.96	0.37	96,96,96,96	0
55	MG	14	3316	1/1	0.96	0.14	70,70,70,70	0
55	MG	1H	3479	1/1	0.96	0.17	58,58,58,58	0
55	MG	13	1683	1/1	0.96	0.12	122,122,122,122	0
55	MG	13	1648	1/1	0.96	0.37	105,105,105,105	0
55	MG	16	214	1/1	0.96	0.07	86,86,86,86	0
55	MG	14	3427	1/1	0.96	0.07	75,75,75,75	0
55	MG	1H	3225	1/1	0.96	0.46	77,77,77,77	0
55	MG	14	3250	1/1	0.96	0.26	70,70,70,70	0
55	MG	14	3251	1/1	0.96	0.26	67,67,67,67	0
55	MG	1H	3161	1/1	0.96	0.28	69,69,69,69	0
55	MG	1H	3045	1/1	0.96	0.34	88,88,88,88	0
55	MG	1H	3489	1/1	0.96	0.13	67,67,67,67	0
55	MG	14	3022	1/1	0.96	0.26	60,60,60,60	0
55	MG	1H	3128	1/1	0.96	0.42	63,63,63,63	0
55	MG	14	3111	1/1	0.96	0.10	54,54,54,54	0
55	MG	14	3024	1/1	0.96	0.23	49,49,49,49	0
55	MG	1H	3420	1/1	0.96	0.12	52,52,52,52	0
55	MG	1H	3097	1/1	0.96	0.39	70,70,70,70	0
55	MG	14	3440	1/1	0.96	0.05	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	14	3027	1/1	0.96	0.17	71,71,71,71	0
55	MG	1H	3494	1/1	0.96	0.10	81,81,81,81	0
55	MG	1H	3317	1/1	0.96	0.33	63,63,63,63	0
55	MG	1H	3382	1/1	0.96	0.20	79,79,79,79	0
55	MG	14	3447	1/1	0.96	0.04	102,102,102,102	0
55	MG	14	3031	1/1	0.96	0.30	73,73,73,73	0
55	MG	1H	3147	1/1	0.96	0.45	60,60,60,60	0
55	MG	14	3340	1/1	0.96	0.22	79,79,79,79	0
55	MG	14	3189	1/1	0.96	0.32	63,63,63,63	0
55	MG	1H	3498	1/1	0.96	0.07	77,77,77,77	0
55	MG	1G	1713	1/1	0.96	0.23	107,107,107,107	0
55	MG	14	3344	1/1	0.96	0.14	95,95,95,95	0
55	MG	1H	3166	1/1	0.96	0.24	67,67,67,67	0
55	MG	14	3193	1/1	0.96	0.21	56,56,56,56	0
55	MG	14	3194	1/1	0.96	0.13	46,46,46,46	0
55	MG	1H	3432	1/1	0.96	0.14	68,68,68,68	0
55	MG	1H	3433	1/1	0.96	0.12	54,54,54,54	0
55	MG	14	3040	1/1	0.96	0.34	69,69,69,69	0
55	MG	1G	1606	1/1	0.96	0.20	80,80,80,80	0
55	MG	1H	3020	1/1	0.96	0.30	52,52,52,52	0
55	MG	1H	3435	1/1	0.96	0.12	76,76,76,76	0
55	MG	14	3201	1/1	0.96	0.21	61,61,61,61	0
55	MG	14	3202	1/1	0.96	0.48	74,74,74,74	0
55	MG	1H	3436	1/1	0.96	0.09	94,94,94,94	0
55	MG	1H	3507	1/1	0.96	0.19	62,62,62,62	0
55	MG	14	3047	1/1	0.96	0.27	57,57,57,57	0
55	MG	1H	3261	1/1	0.96	0.41	72,72,72,72	0
55	MG	14	3209	1/1	0.96	0.29	88,88,88,88	0
55	MG	1H	3021	1/1	0.96	0.29	51,51,51,51	0
55	MG	1H	3187	1/1	0.96	0.36	83,83,83,83	0
55	MG	29	301	1/1	0.96	0.25	72,72,72,72	0
55	MG	14	3055	1/1	0.96	0.32	61,61,61,61	0
55	MG	1H	3441	1/1	0.96	0.08	63,63,63,63	0
55	MG	13	1675	1/1	0.96	0.42	85,85,85,85	0
55	MG	1G	1616	1/1	0.96	0.12	62,62,62,62	0
55	MG	1H	3052	1/1	0.96	0.33	73,73,73,73	0
55	MG	1H	3444	1/1	0.96	0.14	59,59,59,59	0
55	MG	1H	3171	1/1	0.96	0.46	82,82,82,82	0
55	MG	1H	3516	1/1	0.96	0.07	88,88,88,88	0
55	MG	1H	3328	1/1	0.96	0.45	85,85,85,85	0
55	MG	1H	3214	1/1	0.96	0.31	64,64,64,64	0
55	MG	1H	3455	1/1	0.96	0.13	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1G	1625	1/1	0.96	0.30	85,85,85,85	0
55	MG	1H	3242	1/1	0.96	0.20	45,45,45,45	0
55	MG	1H	3299	1/1	0.96	0.22	57,57,57,57	0
55	MG	1H	3047	1/1	0.97	0.27	76,76,76,76	0
55	MG	1H	3367	1/1	0.97	0.10	67,67,67,67	0
55	MG	14	3207	1/1	0.97	0.30	77,77,77,77	0
55	MG	1H	3453	1/1	0.97	0.12	42,42,42,42	0
55	MG	14	3382	1/1	0.97	0.12	55,55,55,55	0
55	MG	1G	1666	1/1	0.97	0.38	72,72,72,72	0
55	MG	1H	3454	1/1	0.97	0.09	49,49,49,49	0
55	MG	14	3387	1/1	0.97	0.12	58,58,58,58	0
55	MG	14	3388	1/1	0.97	0.13	61,61,61,61	0
55	MG	14	3391	1/1	0.97	0.12	62,62,62,62	0
55	MG	1H	3270	1/1	0.97	0.15	84,84,84,84	0
55	MG	1H	3456	1/1	0.97	0.15	51,51,51,51	0
55	MG	13	1723	1/1	0.97	0.08	86,86,86,86	0
55	MG	1H	3241	1/1	0.97	0.23	69,69,69,69	0
55	MG	14	3397	1/1	0.97	0.15	70,70,70,70	0
55	MG	14	3043	1/1	0.97	0.36	62,62,62,62	0
55	MG	13	1631	1/1	0.97	0.16	60,60,60,60	0
55	MG	1H	3036	1/1	0.97	0.27	70,70,70,70	0
55	MG	1H	3463	1/1	0.97	0.15	52,52,52,52	0
55	MG	14	3403	1/1	0.97	0.11	69,69,69,69	0
55	MG	14	3405	1/1	0.97	0.08	64,64,64,64	0
55	MG	1G	1730	1/1	0.97	0.14	82,82,82,82	0
55	MG	1H	3142	1/1	0.97	0.25	74,74,74,74	0
55	MG	1G	1732	1/1	0.97	0.05	113,113,113,113	0
55	MG	1H	3053	1/1	0.97	0.20	61,61,61,61	0
55	MG	1H	3467	1/1	0.97	0.18	72,72,72,72	0
55	MG	14	3415	1/1	0.97	0.06	62,62,62,62	0
55	MG	1H	3217	1/1	0.97	0.65	92,92,92,92	0
55	MG	14	3418	1/1	0.97	0.13	72,72,72,72	0
55	MG	14	3419	1/1	0.97	0.06	94,94,94,94	0
55	MG	1G	1736	1/1	0.97	0.11	94,94,94,94	0
55	MG	14	3060	1/1	0.97	0.35	64,64,64,64	0
55	MG	1H	3470	1/1	0.97	0.08	74,74,74,74	0
55	MG	14	3062	1/1	0.97	0.32	72,72,72,72	0
55	MG	1G	1628	1/1	0.97	0.20	90,90,90,90	0
55	MG	14	3232	1/1	0.97	0.28	98,98,98,98	0
55	MG	14	3067	1/1	0.97	0.29	71,71,71,71	0
55	MG	1H	3023	1/1	0.97	0.35	55,55,55,55	0
55	MG	1G	1682	1/1	0.97	0.15	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3192	1/1	0.97	0.29	87,87,87,87	0
55	MG	14	3237	1/1	0.97	0.34	74,74,74,74	0
55	MG	1G	1631	1/1	0.97	0.27	90,90,90,90	0
55	MG	1G	1743	1/1	0.97	0.18	105,105,105,105	0
55	MG	14	3240	1/1	0.97	0.16	95,95,95,95	0
55	MG	1H	3412	1/1	0.97	0.14	69,69,69,69	0
55	MG	1H	3413	1/1	0.97	0.10	44,44,44,44	0
55	MG	14	3243	1/1	0.97	0.22	78,78,78,78	0
55	MG	1H	3249	1/1	0.97	0.53	66,66,66,66	0
55	MG	1H	3026	1/1	0.97	0.31	66,66,66,66	0
55	MG	1H	3418	1/1	0.97	0.10	63,63,63,63	0
55	MG	13	1626	1/1	0.97	0.39	65,65,65,65	0
55	MG	1H	3423	1/1	0.97	0.11	61,61,61,61	0
55	MG	14	3444	1/1	0.97	0.04	90,90,90,90	0
55	MG	14	3084	1/1	0.97	0.10	73,73,73,73	0
55	MG	1H	3424	1/1	0.97	0.11	58,58,58,58	0
55	MG	14	3448	1/1	0.97	0.06	87,87,87,87	0
55	MG	14	3086	1/1	0.97	0.28	51,51,51,51	0
55	MG	1H	3123	1/1	0.97	0.14	78,78,78,78	0
55	MG	1H	3487	1/1	0.97	0.04	81,81,81,81	0
55	MG	14	3452	1/1	0.97	0.07	100,100,100,100	0
55	MG	1H	3040	1/1	0.97	0.34	71,71,71,71	0
55	MG	14	3339	1/1	0.97	0.28	74,74,74,74	0
55	MG	1H	3011	1/1	0.97	0.35	54,54,54,54	0
55	MG	1H	3198	1/1	0.97	0.42	77,77,77,77	0
55	MG	1H	3430	1/1	0.97	0.10	76,76,76,76	0
55	MG	1H	3012	1/1	0.97	0.37	57,57,57,57	0
55	MG	1H	3151	1/1	0.97	0.44	76,76,76,76	0
55	MG	14	3003	1/1	0.97	0.26	47,47,47,47	0
55	MG	14	3097	1/1	0.97	0.32	54,54,54,54	0
55	MG	14	3004	1/1	0.97	0.25	57,57,57,57	0
55	MG	14	3005	1/1	0.97	0.29	52,52,52,52	0
55	MG	14	3007	1/1	0.97	0.29	58,58,58,58	0
55	MG	14	3008	1/1	0.97	0.31	53,53,53,53	0
55	MG	14	3010	1/1	0.97	0.21	47,47,47,47	0
55	MG	14	3104	1/1	0.97	0.31	59,59,59,59	0
55	MG	14	3183	1/1	0.97	0.40	56,56,56,56	0
55	MG	1H	3015	1/1	0.97	0.38	46,46,46,46	0
55	MG	1H	3081	1/1	0.97	0.37	73,73,73,73	0
55	MG	1J	207	1/1	0.97	0.07	88,88,88,88	0
55	MG	14	3107	1/1	0.97	0.43	80,80,80,80	0
55	MG	1H	3082	1/1	0.97	0.38	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3083	1/1	0.97	0.33	58,58,58,58	0
55	MG	1H	3061	1/1	0.97	0.43	71,71,71,71	0
55	MG	1G	1601	1/1	0.97	0.25	76,76,76,76	0
55	MG	29	302	1/1	0.97	0.26	51,51,51,51	0
55	MG	1H	3031	1/1	0.97	0.31	82,82,82,82	0
55	MG	14	3114	1/1	0.97	0.23	56,56,56,56	0
55	MG	1H	3295	1/1	0.97	0.31	87,87,87,87	0
55	MG	14	3116	1/1	0.97	0.36	49,49,49,49	0
55	MG	1H	3264	1/1	0.97	0.40	100,100,100,100	0
55	MG	1H	3111	1/1	0.97	0.34	71,71,71,71	0
55	MG	13	1636	1/1	0.97	0.31	88,88,88,88	0
55	MG	1H	3237	1/1	0.97	0.38	67,67,67,67	0
55	MG	1H	3445	1/1	0.97	0.13	59,59,59,59	0
55	MG	14	3122	1/1	0.97	0.25	61,61,61,61	0
56	ZN	5I	101	1/1	0.97	0.14	116,116,116,116	0
55	MG	13	1619	1/1	0.97	0.40	74,74,74,74	0
55	MG	1G	1715	1/1	0.97	0.21	106,106,106,106	0
55	MG	14	3203	1/1	0.97	0.27	55,55,55,55	0
55	MG	1G	1716	1/1	0.97	0.08	110,110,110,110	0
55	MG	14	3411	1/1	0.98	0.10	63,63,63,63	0
55	MG	14	3412	1/1	0.98	0.16	49,49,49,49	0
55	MG	1H	3019	1/1	0.98	0.34	61,61,61,61	0
55	MG	1H	3072	1/1	0.98	0.33	75,75,75,75	0
55	MG	13	1725	1/1	0.98	0.11	99,99,99,99	0
55	MG	14	3063	1/1	0.98	0.35	51,51,51,51	0
55	MG	14	3417	1/1	0.98	0.12	51,51,51,51	0
55	MG	14	3065	1/1	0.98	0.32	50,50,50,50	0
55	MG	1H	3095	1/1	0.98	0.38	46,46,46,46	0
55	MG	1H	3473	1/1	0.98	0.06	64,64,64,64	0
55	MG	1H	3474	1/1	0.98	0.10	79,79,79,79	0
55	MG	14	3422	1/1	0.98	0.10	53,53,53,53	0
55	MG	14	3423	1/1	0.98	0.09	84,84,84,84	0
55	MG	1H	3521	1/1	0.98	0.09	47,47,47,47	0
55	MG	2K	102	1/1	0.98	0.44	93,93,93,93	0
55	MG	14	3006	1/1	0.98	0.33	56,56,56,56	0
55	MG	14	3072	1/1	0.98	0.35	54,54,54,54	0
55	MG	13	1609	1/1	0.98	0.23	83,83,83,83	0
55	MG	13	1630	1/1	0.98	0.18	61,61,61,61	0
55	MG	14	3009	1/1	0.98	0.28	58,58,58,58	0
55	MG	14	3347	1/1	0.98	0.17	83,83,83,83	0
55	MG	1H	3228	1/1	0.98	0.32	63,63,63,63	0
55	MG	14	3011	1/1	0.98	0.33	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	14	3012	1/1	0.98	0.30	53,53,53,53	0
55	MG	1G	1623	1/1	0.98	0.28	87,87,87,87	0
55	MG	14	3015	1/1	0.98	0.17	64,64,64,64	0
55	MG	14	3216	1/1	0.98	0.29	72,72,72,72	0
55	MG	14	3016	1/1	0.98	0.17	63,63,63,63	0
55	MG	1H	3099	1/1	0.98	0.47	52,52,52,52	0
55	MG	1H	3481	1/1	0.98	0.12	64,64,64,64	0
55	MG	1H	3025	1/1	0.98	0.40	80,80,80,80	0
55	MG	1H	3101	1/1	0.98	0.14	50,50,50,50	0
55	MG	1H	3009	1/1	0.98	0.38	44,44,44,44	0
55	MG	1H	3485	1/1	0.98	0.15	75,75,75,75	0
55	MG	1H	3440	1/1	0.98	0.07	91,91,91,91	0
55	MG	1H	3010	1/1	0.98	0.40	66,66,66,66	0
55	MG	1H	3206	1/1	0.98	0.44	72,72,72,72	0
55	MG	1H	3319	1/1	0.98	0.21	60,60,60,60	0
55	MG	14	3095	1/1	0.98	0.20	65,65,65,65	0
55	MG	13	1728	1/1	0.98	0.07	76,76,76,76	0
55	MG	13	1602	1/1	0.98	0.21	78,78,78,78	0
55	MG	14	3164	1/1	0.98	0.26	60,60,60,60	0
55	MG	1H	3492	1/1	0.98	0.11	83,83,83,83	0
55	MG	1H	3446	1/1	0.98	0.10	52,52,52,52	0
55	MG	1H	3447	1/1	0.98	0.09	62,62,62,62	0
55	MG	14	3032	1/1	0.98	0.24	64,64,64,64	0
55	MG	1H	3062	1/1	0.98	0.18	48,48,48,48	0
55	MG	1H	3014	1/1	0.98	0.31	51,51,51,51	0
55	MG	14	3035	1/1	0.98	0.37	57,57,57,57	0
55	MG	1H	3451	1/1	0.98	0.09	54,54,54,54	0
55	MG	1H	3411	1/1	0.98	0.14	67,67,67,67	0
55	MG	1H	3158	1/1	0.98	0.21	71,71,71,71	0
55	MG	13	1716	1/1	0.98	0.17	74,74,74,74	0
55	MG	14	3465	1/1	0.98	0.32	64,64,64,64	0
55	MG	14	3381	1/1	0.98	0.13	52,52,52,52	0
55	MG	1H	3133	1/1	0.98	0.15	49,49,49,49	0
55	MG	1H	3002	1/1	0.98	0.33	53,53,53,53	0
55	MG	14	3112	1/1	0.98	0.33	68,68,68,68	0
55	MG	14	3386	1/1	0.98	0.12	56,56,56,56	0
55	MG	1H	3017	1/1	0.98	0.33	47,47,47,47	0
55	MG	1H	3505	1/1	0.98	0.07	69,69,69,69	0
55	MG	14	3390	1/1	0.98	0.10	52,52,52,52	0
55	MG	1G	1602	1/1	0.98	0.41	75,75,75,75	0
55	MG	14	3392	1/1	0.98	0.10	54,54,54,54	0
55	MG	1H	3419	1/1	0.98	0.14	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	1H	3018	1/1	0.98	0.21	50,50,50,50	0
55	MG	1H	3421	1/1	0.98	0.14	52,52,52,52	0
55	MG	14	3048	1/1	0.98	0.20	55,55,55,55	0
55	MG	14	3049	1/1	0.98	0.12	55,55,55,55	0
55	MG	14	3398	1/1	0.98	0.13	83,83,83,83	0
55	MG	14	3050	1/1	0.98	0.15	65,65,65,65	0
55	MG	1H	3089	1/1	0.98	0.34	38,38,38,38	0
55	MG	1H	3464	1/1	0.98	0.14	52,52,52,52	0
55	MG	1H	3113	1/1	0.98	0.27	40,40,40,40	0
55	MG	1H	3050	1/1	0.98	0.40	47,47,47,47	0
55	MG	14	3404	1/1	0.98	0.05	79,79,79,79	0
55	MG	1H	3091	1/1	0.98	0.41	59,59,59,59	0
56	ZN	3E	302	1/1	0.98	0.35	102,102,102,102	0
55	MG	14	3406	1/1	0.98	0.11	61,61,61,61	0
55	MG	14	3057	1/1	0.98	0.42	54,54,54,54	0
55	MG	14	3058	1/1	0.98	0.20	63,63,63,63	0
55	MG	1H	3468	1/1	0.98	0.12	59,59,59,59	0
55	MG	14	3410	1/1	0.98	0.16	58,58,58,58	0
55	MG	1G	1647	1/1	0.99	0.25	80,80,80,80	0
55	MG	14	3013	1/1	0.99	0.23	56,56,56,56	0
55	MG	1G	1728	1/1	0.99	0.13	73,73,73,73	0
55	MG	1H	3450	1/1	0.99	0.22	53,53,53,53	0
55	MG	1H	3422	1/1	0.99	0.07	56,56,56,56	0
55	MG	14	3064	1/1	0.99	0.34	52,52,52,52	0
55	MG	1H	3085	1/1	0.99	0.20	63,63,63,63	0
55	MG	1H	3051	1/1	0.99	0.24	47,47,47,47	0
55	MG	1H	3070	1/1	0.99	0.27	60,60,60,60	0
55	MG	G8	201	1/1	0.99	0.14	77,77,77,77	0
55	MG	1H	3426	1/1	0.99	0.10	67,67,67,67	0
55	MG	1H	3071	1/1	0.99	0.36	51,51,51,51	0
55	MG	1H	3013	1/1	0.99	0.30	47,47,47,47	0
55	MG	1H	3458	1/1	0.99	0.15	70,70,70,70	0
55	MG	14	3073	1/1	0.99	0.26	58,58,58,58	0
55	MG	14	3102	1/1	0.99	0.21	61,61,61,61	0
55	MG	14	3002	1/1	0.99	0.23	67,67,67,67	0
55	MG	1H	3415	1/1	0.99	0.13	50,50,50,50	0
55	MG	14	3076	1/1	0.99	0.32	47,47,47,47	0
55	MG	14	3077	1/1	0.99	0.30	61,61,61,61	0
55	MG	14	3445	1/1	0.99	0.10	58,58,58,58	0
55	MG	14	3377	1/1	0.99	0.10	57,57,57,57	0
55	MG	14	3223	1/1	0.99	0.20	64,64,64,64	0
55	MG	1H	3004	1/1	0.99	0.39	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	1H	3417	1/1	0.99	0.11	40,40,40,40	0
55	MG	1H	3462	1/1	0.99	0.14	49,49,49,49	0
55	MG	14	3053	1/1	0.99	0.33	59,59,59,59	0
55	MG	1H	3480	1/1	0.99	0.12	47,47,47,47	0
55	MG	14	3384	1/1	0.99	0.09	54,54,54,54	0
55	MG	14	3259	1/1	0.99	0.29	82,82,82,82	0
55	MG	13	1739	1/1	0.99	0.22	90,90,90,90	0
55	MG	1H	3137	1/1	0.99	0.26	60,60,60,60	0
55	MG	1H	3024	1/1	0.99	0.15	61,61,61,61	0
55	MG	14	3389	1/1	0.99	0.17	53,53,53,53	0
55	MG	1H	3003	1/1	0.99	0.34	54,54,54,54	0
55	MG	1H	3503	1/1	1.00	0.10	57,57,57,57	0

6.5 Other polymers [i](#)

There are no such residues in this entry.