



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 3, 2024 – 12:41 pm GMT

PDB ID : 5EL5
Title : Structure of *T. thermophilus* 70S ribosome complex with mRNA and tRNA^{Lys} in the A-site with a U-U mismatch in the second position
Authors : Rozov, A.; Demeshkina, N.; Khusainov, I.; Yusupov, M.; Yusupova, G.
Deposited on : 2015-11-04
Resolution : 3.15 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

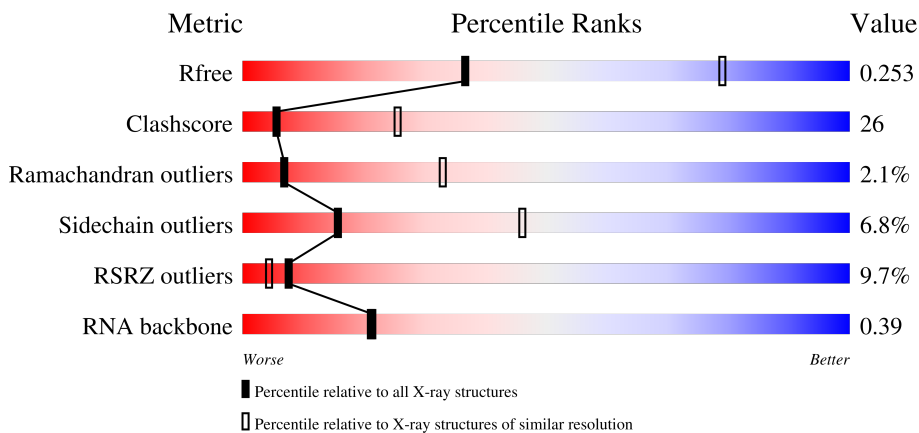
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.15 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.



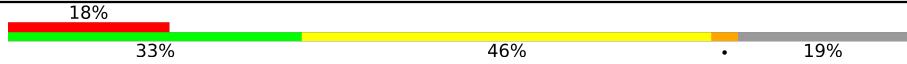

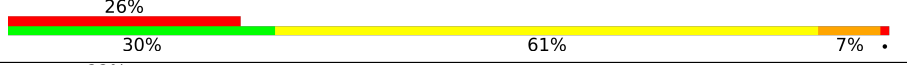
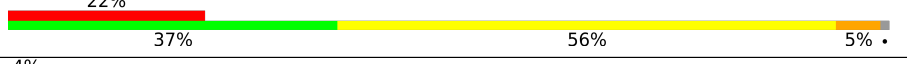
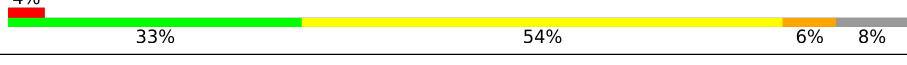
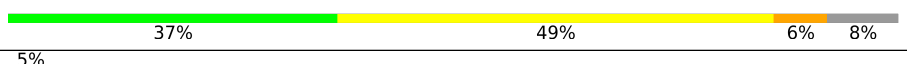
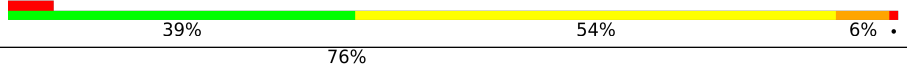

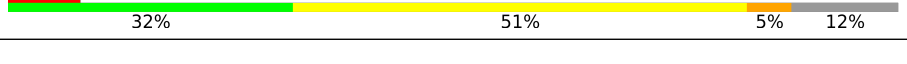


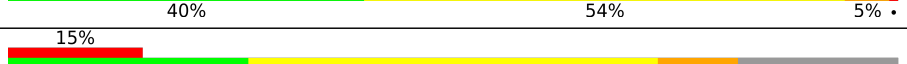
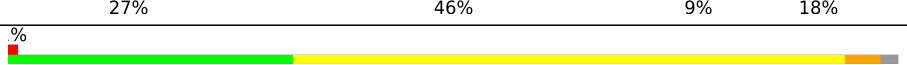
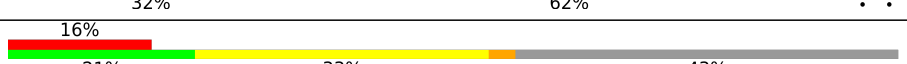
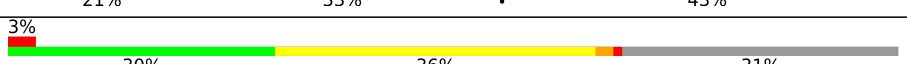
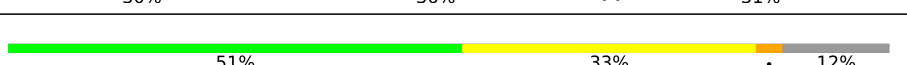
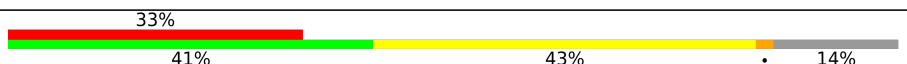
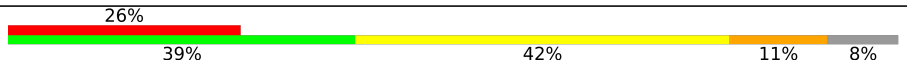
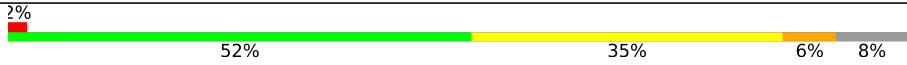


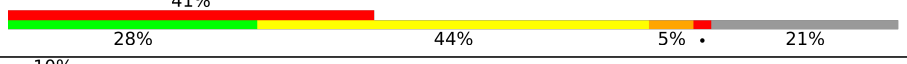

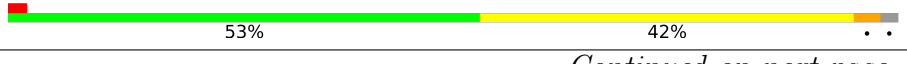

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1665 (3.20-3.12)
Clashscore	141614	1804 (3.20-3.12)
Ramachandran outliers	138981	1770 (3.20-3.12)
Sidechain outliers	138945	1769 (3.20-3.12)
RSRZ outliers	127900	1616 (3.20-3.12)
RNA backbone	3102	1073 (3.50-2.82)

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	

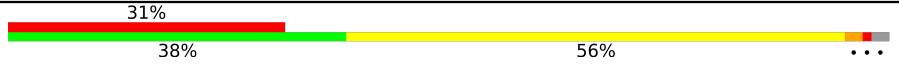




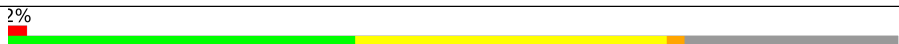
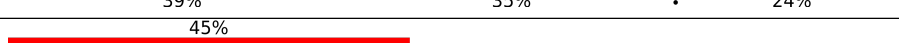


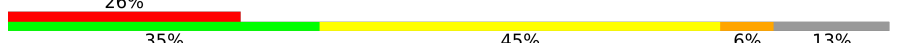
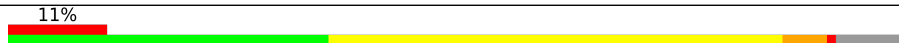
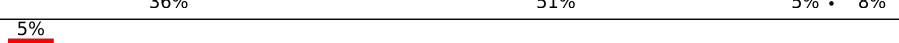


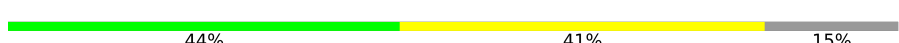

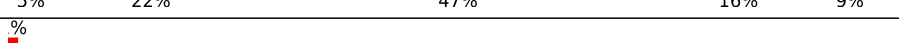








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Mol	Chain	Length	Quality of chain
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
11	2I	129	
12	3A	132	
12	3I	132	
13	4A	126	
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	1K	76	
23	2K	77	
23	2L	77	
24	3K	76	
25	4K	27	
25	4L	27	
26	14	2912	
26	1H	2912	
27	16	122	
27	1J	122	
28	7I	229	
29	11	276	

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Mol	Chain	Length	Quality of chain
29	19	276	16% 47% 42% 8% ..
30	21	206	9% 44% 46% 6% ..
30	29	206	23% 35% 51% 11% ..
31	31	210	4% 39% 48% 9% .
31	39	210	36% 51% 10% .
32	41	182	11% 32% 54% 12% .
32	49	182	13% 31% 57% 8% ..
33	51	180	13% 43% 42% 7% . 5%
33	59	180	7% 14% 19% 5% 62%
34	61	148	28% 37% 54% 7% .
34	69	148	25% 34% 55% 5% ..
35	15	140	31% 44% 49% . . .
35	58	140	% 41% 49% 7% ..
36	25	122	3% 45% 50% . .
36	68	122	57% 39% 5%
37	35	150	27% 31% 61% 5% ..
37	78	150	15% 35% 47% 13% ..
38	45	141	7% 39% 44% 13% ..
38	88	141	46% 49% 39% 11% .
39	55	118	8% 47% 43% 8% .
39	98	118	63% 42% 55% .
40	65	112	10% 37% 52% 9% ..
40	A8	112	51% 36% 53% 8% ..
41	75	146	3% 41% 44% 7% . 7%
41	B8	146	% 30% 48% 13% . 8%

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Mol	Chain	Length	Quality of chain
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51	L8	60	
52	M8	71	
53	J5	60	
53	N8	60	
54	L5	49	
54	P8	49	

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Mol	Chain	Length	Quality of chain
55	M5	65	
55	Q8	65	
56	1L	76	
57	3L	76	

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
58	MG	13	1606	-	-	-	X
58	MG	13	1623	-	-	-	X
58	MG	13	1625	-	-	-	X
58	MG	13	1627	-	-	-	X
58	MG	13	1628	-	-	-	X
58	MG	13	1634	-	-	-	X
58	MG	13	1661	-	-	-	X
58	MG	13	1680	-	-	-	X
58	MG	13	1687	-	-	-	X
58	MG	13	1688	-	-	-	X
58	MG	13	1692	-	-	-	X
58	MG	13	1699	-	-	-	X
58	MG	13	1702	-	-	-	X
58	MG	13	1707	-	-	-	X
58	MG	13	1708	-	-	-	X
58	MG	14	3023	-	-	-	X
58	MG	14	3024	-	-	-	X
58	MG	14	3028	-	-	-	X
58	MG	14	3031	-	-	-	X
58	MG	14	3062	-	-	-	X
58	MG	14	3089	-	-	-	X
58	MG	14	3109	-	-	-	X
58	MG	14	3132	-	-	-	X
58	MG	14	3149	-	-	-	X
58	MG	14	3150	-	-	-	X
58	MG	14	3159	-	-	-	X
58	MG	14	3171	-	-	-	X
58	MG	14	3179	-	-	-	X
58	MG	14	3192	-	-	-	X
58	MG	14	3195	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	14	3199	-	-	-	X
58	MG	14	3201	-	-	-	X
58	MG	14	3217	-	-	-	X
58	MG	14	3227	-	-	-	X
58	MG	14	3231	-	-	-	X
58	MG	14	3233	-	-	-	X
58	MG	14	3234	-	-	-	X
58	MG	14	3259	-	-	-	X
58	MG	14	3260	-	-	-	X
58	MG	14	3261	-	-	-	X
58	MG	14	3263	-	-	-	X
58	MG	14	3267	-	-	-	X
58	MG	14	3270	-	-	-	X
58	MG	14	3272	-	-	-	X
58	MG	14	3275	-	-	-	X
58	MG	14	3277	-	-	-	X
58	MG	14	3278	-	-	-	X
58	MG	14	3279	-	-	-	X
58	MG	14	3280	-	-	-	X
58	MG	14	3284	-	-	-	X
58	MG	14	3286	-	-	-	X
58	MG	14	3288	-	-	-	X
58	MG	14	3295	-	-	-	X
58	MG	14	3302	-	-	-	X
58	MG	14	3303	-	-	-	X
58	MG	14	3308	-	-	-	X
58	MG	14	3315	-	-	-	X
58	MG	14	3321	-	-	-	X
58	MG	14	3325	-	-	-	X
58	MG	14	3328	-	-	-	X
58	MG	14	3331	-	-	-	X
58	MG	16	208	-	-	-	X
58	MG	1G	1602	-	-	-	X
58	MG	1G	1621	-	-	-	X
58	MG	1G	1627	-	-	-	X
58	MG	1G	1635	-	-	-	X
58	MG	1G	1637	-	-	-	X
58	MG	1G	1638	-	-	-	X
58	MG	1G	1639	-	-	-	X
58	MG	1G	1640	-	-	-	X
58	MG	1G	1643	-	-	-	X
58	MG	1G	1644	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	1G	1645	-	-	-	X
58	MG	1G	1648	-	-	-	X
58	MG	1G	1660	-	-	-	X
58	MG	1G	1666	-	-	-	X
58	MG	1H	3029	-	-	-	X
58	MG	1H	3030	-	-	-	X
58	MG	1H	3031	-	-	-	X
58	MG	1H	3033	-	-	-	X
58	MG	1H	3077	-	-	-	X
58	MG	1H	3095	-	-	-	X
58	MG	1H	3105	-	-	-	X
58	MG	1H	3128	-	-	-	X
58	MG	1H	3141	-	-	-	X
58	MG	1H	3145	-	-	-	X
58	MG	1H	3146	-	-	-	X
58	MG	1H	3163	-	-	-	X
58	MG	1H	3166	-	-	-	X
58	MG	1H	3187	-	-	-	X
58	MG	1H	3192	-	-	-	X
58	MG	1H	3196	-	-	-	X
58	MG	1H	3199	-	-	-	X
58	MG	1H	3206	-	-	-	X
58	MG	1H	3209	-	-	-	X
58	MG	1H	3235	-	-	-	X
58	MG	1H	3247	-	-	-	X
58	MG	1H	3257	-	-	-	X
58	MG	1H	3263	-	-	-	X
58	MG	1H	3269	-	-	-	X
58	MG	1H	3272	-	-	-	X
58	MG	1H	3286	-	-	-	X
58	MG	1H	3289	-	-	-	X
58	MG	1H	3304	-	-	-	X
58	MG	1H	3309	-	-	-	X
58	MG	1H	3313	-	-	-	X
58	MG	1H	3317	-	-	-	X
58	MG	1H	3319	-	-	-	X
58	MG	1H	3327	-	-	-	X
58	MG	1H	3332	-	-	-	X
58	MG	1H	3337	-	-	-	X
58	MG	1H	3340	-	-	-	X
58	MG	1H	3341	-	-	-	X
58	MG	1H	3342	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	1H	3350	-	-	-	X
58	MG	2K	102	-	-	-	X
58	MG	32	301	-	-	-	X
58	MG	45	203	-	-	-	X
58	MG	5E	201	-	-	-	X
58	MG	85	202	-	-	-	X
58	MG	E5	101	-	-	-	X
59	SF4	32	302	-	-	X	-

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 292607 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	1493	Total 32097	C 14286	N 5951	O 10367	P 1493	0	0	0
1	1G	1496	Total 32152	C 14311	N 5953	O 10392	P 1496	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	231	Total 1874	C 1199	N 334	O 336	S 5	0	0	0
2	12	206	Total 1695	C 1082	N 305	O 304	S 4	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	194	Total 1529	C 967	N 296	O 265	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	207	Total 1696	C 1062	N 338	O 289	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	149	Total	C	N	O	S	0	0	0
			1142	722	216	200	4			
5	42	149	Total	C	N	O	S	0	0	0
			1136	716	216	200	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	5E	100	Total	C	N	O	S	0	0	0
			837	528	154	152	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	151	Total	C	N	O	S	0	0	0
			1229	763	247	213	6			
7	62	138	Total	C	N	O	S	0	0	0
			1110	689	221	194	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	137	Total	C	N	O	S	0	0	0
			1107	700	214	191	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	8E	126	Total	C	N	O		0	0	0
			1000	634	196	170				
9	82	105	Total	C	N	O		0	0	0
			820	523	158	139				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	72	Total	C	N	O	S	0	0	0
			593	373	115	104	1			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	1A	60	Total	C	N	O	0	0	0
			474	298	91	85			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	2I	111	Total	C	N	O	S	0	0	0
			823	512	154	154	3			
11	2A	113	Total	C	N	O	S	0	0	0
			835	520	156	156	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	3I	122	Total	C	N	O	S	0	0	0
			956	603	193	159	1			
12	3A	121	Total	C	N	O	S	0	0	0
			947	597	191	158	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	119	Total	C	N	O	S	0	0	0
			942	582	194	164	2			
13	4A	111	Total	C	N	O	S	0	0	0
			893	552	183	156	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	60	Total	C	N	O	S	0	0	0
			491	312	104	71	4			
14	5A	48	Total	C	N	O	S	0	0	0
			388	245	82	57	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	6I	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			
15	6A	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	80	Total	C	N	O	S	0	0	0
			671	427	132	111	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	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	9I	67	Total	C	N	O	0	0	0
			544	349	104	91			
18	9A	67	Total	C	N	O	0	0	0
			544	349	104	91			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	81	Total	C	N	O	S	0	0	0
			654	417	122	113	2			
19	AA	36	Total	C	N	O	S	0	0	0
			283	182	49	51	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	97	Total	C	N	O	S	0	0	0
			746	461	157	126	2			
20	BA	98	Total	C	N	O	S	0	0	0
			757	467	161	127	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	1F	23	Total	C	N	O	0	0	0
			199	122	48	29			
21	1B	23	Total	C	N	O	0	0	0
			204	126	49	29			

- Molecule 22 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
22	1K	69	Total	C	N	O	P	S	0	0	0
			1477	662	257	488	69	1			

- Molecule 23 is a RNA chain called tRNA^{Met}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
23	2K	77	Total	C	N	O	P	S	0	0	0
			1646	735	298	535	77	1			
23	2L	77	Total	C	N	O	P	S	0	0	0
			1646	735	298	535	77	1			

- Molecule 24 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
24	3K	76	Total	C	N	O	P	0	0	0
			1611	721	281	534	75			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
25	4K	20	Total	C	N	O	P	0	0	0
			439	197	91	131	20			
25	4L	17	Total	C	N	O	P	0	0	0
			373	167	76	113	17			

- Molecule 26 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2830	Total	C	N	O	P	0	0	0
			60960	27129	11403	19598	2830			
26	14	2861	Total	C	N	O	P	0	0	0
			61630	27429	11535	19806	2860			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1H	161	U	UNK	conflict	GB 55771382
1H	654A	A	G	conflict	GB 55771382
1H	654E	C	G	conflict	GB 55771382
1H	654P	G	C	conflict	GB 55771382
1H	654T	A	C	conflict	GB 55771382
1H	1058	U	G	conflict	GB 55771382
1H	1080	A	C	conflict	GB 55771382
14	158	U	UNK	conflict	GB 55771382
14	654A	A	G	conflict	GB 55771382
14	654E	C	G	conflict	GB 55771382
14	654P	G	C	conflict	GB 55771382
14	654T	A	C	conflict	GB 55771382
14	1058	U	G	conflict	GB 55771382
14	1080	A	C	conflict	GB 55771382

- Molecule 27 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	16	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
27	1J	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

- Molecule 28 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	71	135	Total	C	N	O	S	0	0	0
			1050	662	197	190	1			

- Molecule 29 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	11	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			
29	19	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			

- Molecule 30 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	21	203	Total	C	N	O	S	0	0	0
			1558	985	298	269	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
30	29	203	1558	985	298	269	6	0	0	0

- Molecule 31 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
31	31	202	1585	1011	297	275	2	0	0	0
31	39	204	1602	1022	299	279	2	0	0	0

- Molecule 32 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
32	41	179	1457	931	265	257	4	0	0	0
32	49	179	1457	931	265	257	4	0	0	0

- Molecule 33 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
33	51	171	1312	832	246	233	1	0	0	0
33	59	69	539	339	109	91		0	0	0

- Molecule 34 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
34	61	145	1131	723	200	207	1	0	0	0
34	69	145	1131	723	200	207	1	0	0	0

- Molecule 35 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
35	58	138	1104	712	206	182	4	0	0	0
35	15	137	1096	707	205	181	3	0	0	0

- Molecule 36 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
36	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 37 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	78	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			
37	35	148	Total	C	N	O	S	0	0	0
			1130	704	230	193	3			

- Molecule 38 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	141	Total	C	N	O	S	0	0	0
			1113	709	210	187	7			
38	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

- Molecule 39 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
39	55	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			

- Molecule 40 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
40	65	110	Total	C	N	O	0	0	0
			876	553	175	148			

- Molecule 41 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	B8	135	Total	C	N	O	S	0	0	0
			1123	699	230	193	1			
41	75	136	Total	C	N	O		0	0	0
			1133	705	233	195				

- Molecule 42 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	C8	115	Total	C	N	O	S	0	0	0
			950	603	199	147	1			
42	85	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 43 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	D8	101	Total	C	N	O	S	0	0	0
			778	501	142	134	1			
43	95	99	Total	C	N	O		0	0	0
			766	494	140	132				

- Molecule 44 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	E8	110	Total	C	N	O	S	0	0	0
			876	552	171	151	2			
44	A5	110	Total	C	N	O	S	0	0	0
			876	552	171	151	2			

- Molecule 45 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	F8	95	Total	C	N	O	0	0	0
			740	480	134	126			
45	B5	94	Total	C	N	O	0	0	0
			735	477	133	125			

- Molecule 46 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	G8	104	Total	C	N	O	S	0	0	0
			788	507	149	127	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
46	C5	105	799	513	153	128	5	0	0	0

- Molecule 47 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
47	H8	148	1218	779	220	217	2	0	0	0
47	D5	130	1064	685	191	186	2	0	0	0

- Molecule 48 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
48	I8	76	606	376	128	101	1	0	0	0
48	E5	78	616	381	130	104	1	0	0	0

- Molecule 49 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
49	J8	94	737	463	146	127	1	0	0	0
49	F5	94	737	463	146	127	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
50	K8	68	568	352	115	100	1	0	0	0
50	G5	67	563	349	114	99	1	0	0	0

- Molecule 51 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
51	L8	58	459	293	89	77	0	0	0
51	H5	58	459	293	89	77	0	0	0

- Molecule 52 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
52	M8	47	366	234	61	66	5	0	0	0

- Molecule 53 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
53	N8	48	369	229	75	60	5	0	0	0
53	J5	56	434	272	87	70	5	0	0	0

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
54	P8	47	401	246	99	54	2	0	0	0
54	L5	45	391	240	97	52	2	0	0	0

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
55	Q8	64	516	331	102	81	2	0	0	0
55	M5	64	516	331	102	81	2	0	0	0

- Molecule 56 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
56	1L	74	1570	702	271	523	74	0	0	0

- Molecule 57 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
57	3L	76	1611	721	281	534	75	0	0	0

- Molecule 58 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

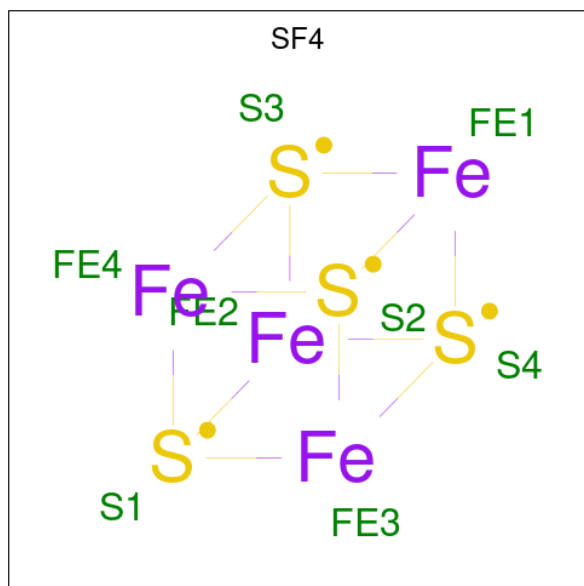
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	13	141	Total Mg 141 141	0	0
58	5E	2	Total Mg 2 2	0	0
58	3I	1	Total Mg 1 1	0	0
58	5I	1	Total Mg 1 1	0	0
58	2K	3	Total Mg 3 3	0	0
58	1H	488	Total Mg 488 488	0	0
58	16	12	Total Mg 12 12	0	0
58	11	1	Total Mg 1 1	0	0
58	21	2	Total Mg 2 2	0	0
58	41	1	Total Mg 1 1	0	0
58	78	1	Total Mg 1 1	0	0
58	88	1	Total Mg 1 1	0	0
58	C8	1	Total Mg 1 1	0	0
58	I8	1	Total Mg 1 1	0	0
58	J8	2	Total Mg 2 2	0	0
58	P8	1	Total Mg 1 1	0	0
58	Q8	1	Total Mg 1 1	0	0
58	1G	78	Total Mg 78 78	0	0
58	32	1	Total Mg 1 1	0	0
58	7A	1	Total Mg 1 1	0	0
58	2L	3	Total Mg 3 3	0	0
58	14	420	Total Mg 420 420	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	1J	6	Total Mg 6 6	0	0
58	29	3	Total Mg 3 3	0	0
58	35	1	Total Mg 1 1	0	0
58	45	3	Total Mg 3 3	0	0
58	55	1	Total Mg 1 1	0	0
58	85	2	Total Mg 2 2	0	0
58	C5	1	Total Mg 1 1	0	0
58	E5	1	Total Mg 1 1	0	0
58	L5	1	Total Mg 1 1	0	0

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



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	3E	1	Total Fe S 8 4 4	0	0
59	32	1	Total Fe S 8 4 4	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	5I	1	Total 1	Zn 1	0	0
60	G8	1	Total 1	Zn 1	0	0
60	5A	1	Total 1	Zn 1	0	0
60	C5	1	Total 1	Zn 1	0	0

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	13	148	Total 148	O 148	0	0
61	3E	2	Total 2	O 2	0	0
61	3I	2	Total 2	O 2	0	0
61	5I	1	Total 1	O 1	0	0
61	6I	1	Total 1	O 1	0	0
61	1K	1	Total 1	O 1	0	0
61	4K	6	Total 6	O 6	0	0
61	1H	670	Total 670	O 670	0	0
61	16	18	Total 18	O 18	0	0
61	11	9	Total 9	O 9	0	0
61	21	5	Total 5	O 5	0	0
61	31	6	Total 6	O 6	0	0
61	58	2	Total 2	O 2	0	0
61	78	3	Total 3	O 3	0	0
61	B8	1	Total 1	O 1	0	0

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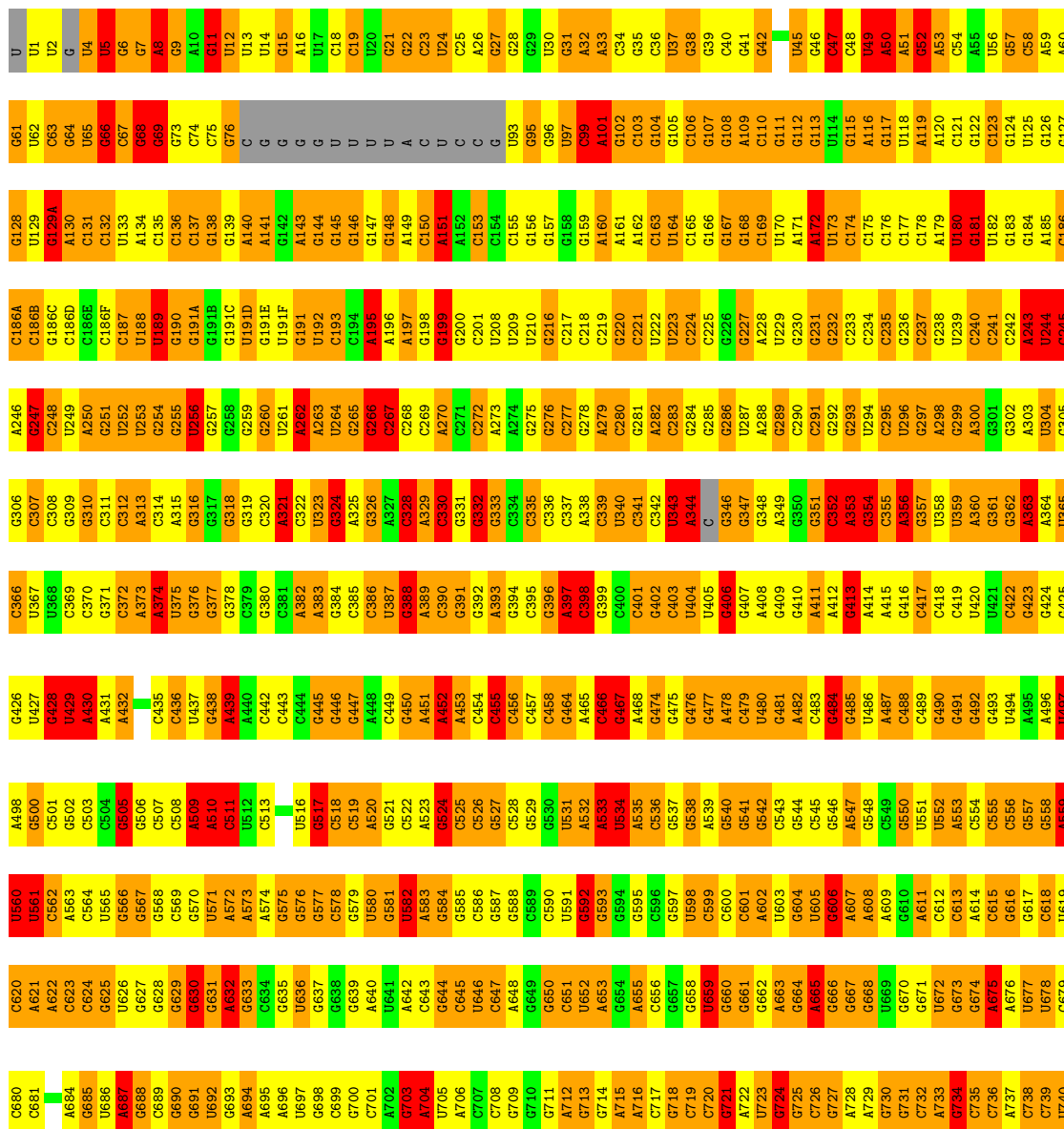
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	D8	1	Total O 1 1	0	0
61	E8	1	Total O 1 1	0	0
61	G8	1	Total O 1 1	0	0
61	I8	1	Total O 1 1	0	0
61	Q8	1	Total O 1 1	0	0
61	1G	44	Total O 44 44	0	0
61	5A	3	Total O 3 3	0	0
61	BA	1	Total O 1 1	0	0
61	14	411	Total O 411 411	0	0
61	1J	11	Total O 11 11	0	0
61	19	4	Total O 4 4	0	0
61	29	3	Total O 3 3	0	0
61	39	8	Total O 8 8	0	0
61	35	2	Total O 2 2	0	0
61	55	1	Total O 1 1	0	0
61	E5	1	Total O 1 1	0	0
61	F5	2	Total O 2 2	0	0
61	L5	1	Total O 1 1	0	0
61	M5	2	Total O 2 2	0	0

3 Residue-property plots

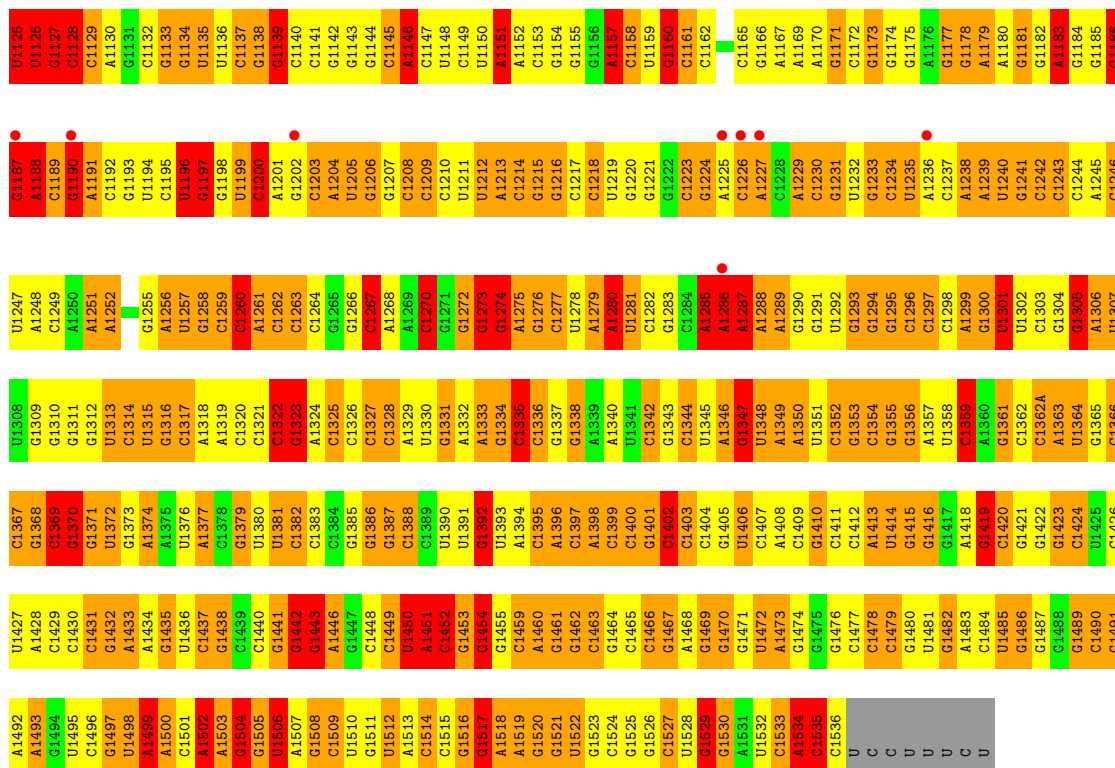
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: 16S ribosomal RNA

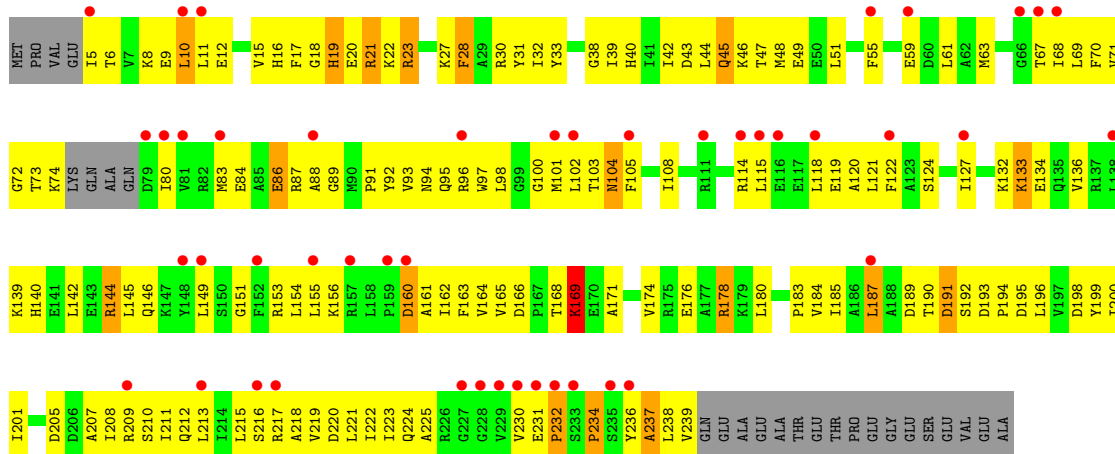
Chain 13: 



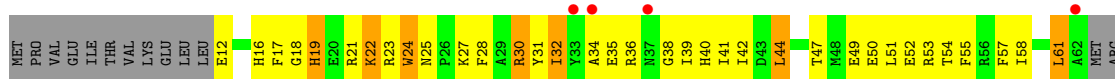
U1065	C1007	C948	G687	U820	G760	G698	G630	C569	A509	C435	A373	C312	A250	C1865	G127
C1066	C1008	A949	G888	G821	G761	C699	G631	G570	A510	C436	A374	A313	G251	C1865F	G128
A1067	G1009	U950	A889	G822	G762	G700	G632	U571	C511	U437	U375	C314	U252	C187	U129
G1068	G1010	G951	G890	G823	G763	G701	G633	A573	C512	G438	G376	G315	U253	U188	G129A
C1069	G1011	U952	C824	A702	G764	A702	G634	A574	C513	A439	G377	G316	G254	U189	A130
U1070	U1012	G953	G825	G634	G765	G706	C635	A575	C514	G442	C381	G317	G255	G190	A131
C1071	G1013	C954	C826	A706	A766	A706	G636	G575	C515	G443	A382	G318	U256	G191A	C132
G1072	A1014	U955	U827	C707	A767	C708	U636	G576	C516	G444	A383	G319	G257	G191B	U133
U1073	A1015	U956	A768	C708	A768	C708	G637	G577	C517	G445	A384	C320	G258	G191C	U133
G1074	A1016	C896	G829	G709	G769	G709	G638	G578	C518	G446	G385	A321	G259	U191D	C135
C1075	G1017	U957	G830	C710	C770	C710	G639	G579	C519	G446	C386	C322	G260	G191E	C136
U1076	A1018	A959	U831	G711	G771	G711	G640	U580	A520	A447	U387	U323	U261	U191F	C137
G1077	C1019	U960	G832	A712	A772	A712	G641	G581	A521	A448	U387	G324	U262	G191	G138
U1078	U1020	U961	U833	G713	G773	G713	G642	U582	C522	C449	G388	A325	A263	U192	G138
G1079	G1021	C962	G714	G714	G774	G714	U646	A583	A523	G450	A389	G326	U264	G142	G142
A1080	G1022	G963	G715	A715	G775	A715	G647	G584	A524	G451	C390	A327	G265	C194	A143
G1081	G1023	A964	G837	G716	G776	G716	A648	C585	C525	A452	G391	C328	G266	A195	G144
G1082	G1024	A965	G838	A717	A777	A717	G649	C586	C526	A453	G392	A329	C267	A196	G145
U1083	U1025	G966	U841	G718	G778	G718	G650	G587	G527	C454	A393	C330	G267	A197	G146
G1084	G1026	C967	C842	C719	C779	C719	G651	G588	C528	G455	G394	C331	A270	G198	G147
U1085	C	A968	U843	C720	C779	C720	U652	G589	G529	C456	C395	G332	C271	G199	G148
U1086	C	A969	U844	A780	A780	A780	A653	C590	G530	C457	G396	G333	C272	C194	G149
G1087	C	C970	C849	A722	A722	A722	G654	U591	U531	C458	A397	C334	A273	G200	A150
G1088	C	G971	C783	C723	C783	C723	G655	G592	A532	G459	C398	C335	A274	U208	C150
U1089	C	G972	G851	G724	G784	G724	G657	G593	A533	G460	G399	C336	G275	U209	C153
C973	C	G973	G852	G725	G785	G725	G658	G594	A534	G461	C400	C337	G276	G199	G154
A974	G	A974	G853	G726	G786	C726	U659	G595	A535	G462	C401	A338	C277	C194	C155
A975	A	A975	G854	A787	G787	G727	G660	C596	C536	G463	G402	C339	C217	G223	G163
A976	G	A976	G855	A728	U788	A728	G661	G597	C537	G464	G403	U340	A279	U224	U164
A977	G	A977	G856	U729	U789	G682	G662	G598	G538	G474	G404	U341	C218	U225	G165
U1095	G	A978	C857	G730	U790	G730	A663	C599	C539	G475	U404	C341	C219	G226	G166
C979	G	C979	G858	G731	G791	G731	G664	C600	A540	G476	U405	C342	G220	G227	G167
C980	A	C980	A792	C732	A792	C732	A665	C601	G541	U480	G407	C345	C290	A228	A161
U981	G1036	U981	A860	A733	U793	A733	G666	A602	G542	U481	A408	C346	G285	U229	A162
U982	G1037	U982	G861	G734	U794	G734	G667	C543	G543	G482	A409	G347	G286	G230	U170
C1038	C1038	A983	C862	C735	C795	C735	G668	G604	C544	C483	G410	G348	G287	G231	G171
C1039	C1039	C984	U863	C736	C796	C736	U669	U605	C545	G484	A411	A349	A288	G232	A172
U1040	U1040	C985	A864	A737	C797	A737	G670	G606	G546	C485	A412	G350	G289	G233	G173
A1041	A1041	A986	A865	C738	G798	C738	G673	A607	A547	U486	G413	G351	C290	C234	C174
G1042	G1042	G987	C866	C739	G799	C739	G674	A608	G548	U487	A414	C352	G291	C235	C175
C1043	C1043	G988	G867	U740	G800	U740	A675	A609	C549	G488	A415	A353	G292	G236	G176
A1044	A1044	C989	C868	G741	U801	G741	A676	G610	C550	C489	G416	G354	G293	C237	C177
G1045	G1045	C990	C869	U742	A802	U742	U677	A611	U551	G490	C417	C355	U294	G238	G177
U1046	U1046	U991	U870	U743	G803	U743	U678	C612	U552	G491	C418	A356	G295	G239	U180
G1047	G1047	U992	U871	C744	G804	C744	C679	C613	A553	G492	C419	G357	U296	C240	G181
U1048	U1048	G993	A872	G745	C805	G745	G680	A614	C554	U493	U420	U388	G297	C241	U182
A1105	A1105	A994	A873	A746	C806	A746	G683	C615	C555	U494	U421	U389	A298	C242	G183
G1106	G1106	C995	C874	C747	C807	C747	U684	G616	C556	A495	C422	A360	G299	C243	U184
C1107	C1107	A996	C875	C748	C808	C748	A684	G617	C557	A496	G423	G361	A300	G244	G185
G1108	G1108	U997	C876	G749	C809	C749	G685	C618	G558	U497	G424	G362	G301	U239	C186
C1109	C1109	G998	G877	G750	C810	G750	U686	U619	A559	A498	G425	A363	G302	C240	G186A
A1110	A1110	C999	C878	U751	C811	U751	A687	C620	A560	U499	G426	A364	A303	C241	U187
C1112	C1112	G999A	C879	G752	C812	G752	G688	A621	U561	C501	U427	U365	U304	C242	G188
C1113	C1113	U999	C880	A753	U813	A753	C689	A622	C562	G502	G428	C366	G305	A243	G189
G1114	G1114	G1001	C881	C754	G814	C754	G690	C623	A563	U503	U429	G367	G306	U244	G190
C1115	C1115	U1002	C882	A815	G755	A815	G691	C624	C564	C504	U430	U368	U245	C245	C188
U1003	U1003	G1003	C883	G756	G756	G756	U692	G625	U565	G505	C308	C369	C246	A246	C188A
A1004	A1004	A1004	G884	C817	C817	C817	U693	U626	G566	G506	G309	C370	G247	G247	C186B
G1064	G1064	C1006	G885	G758	G758	G758	G694	U627	G567	G507	G310	C371	C248	C248	G186C
			G886	A819	A819	A819	U697	G628	G568	C508	C311	C372	U249	U249	C186D

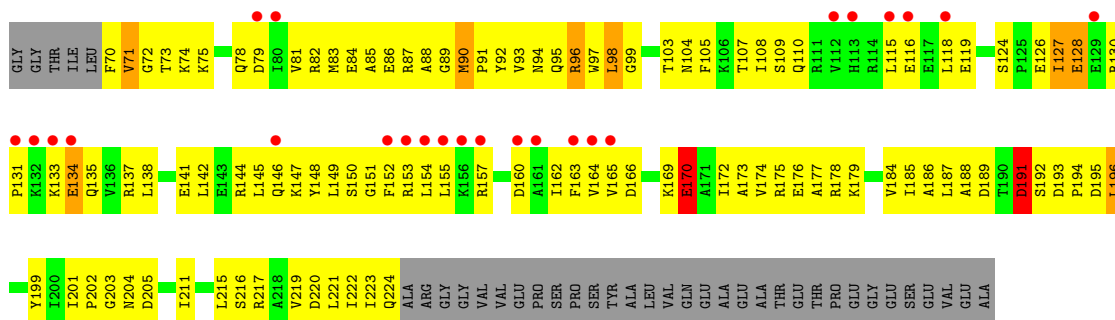


• Molecule 2: 30S ribosomal protein S2

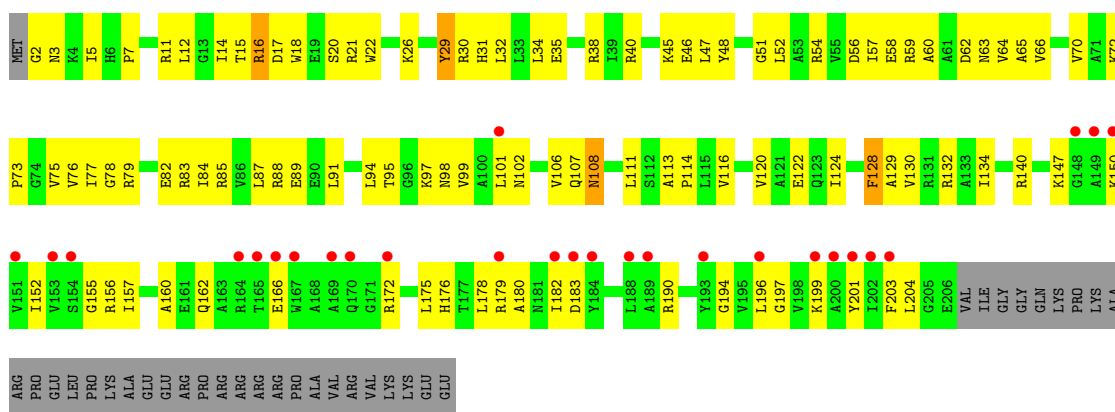


• Molecule 2: 30S ribosomal protein S2

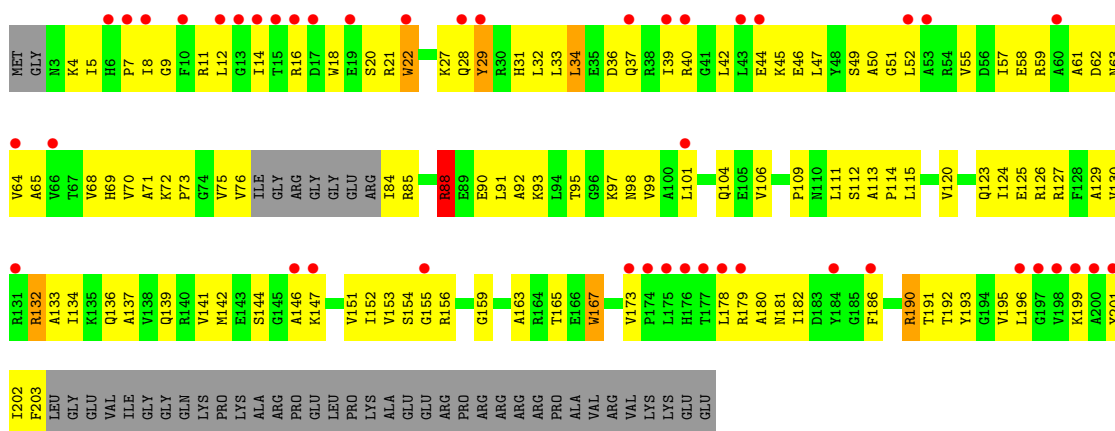




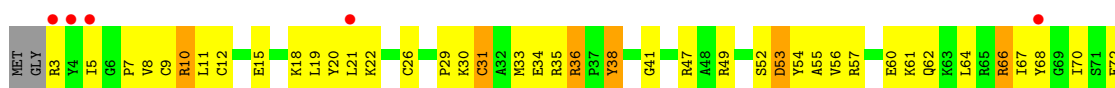
• Molecule 3: 30S ribosomal protein S3

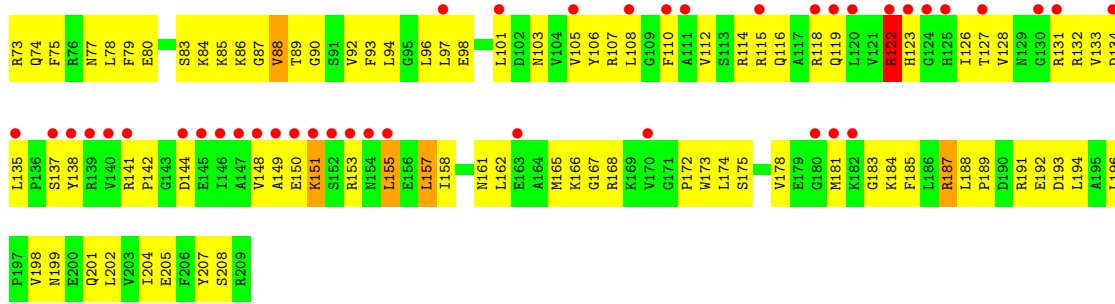


• Molecule 3: 30S ribosomal protein S3

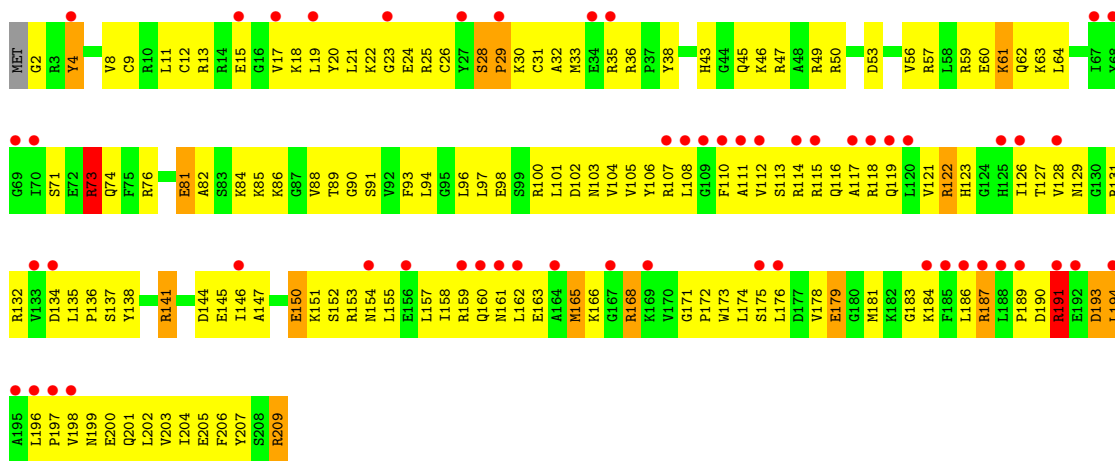


• Molecule 4: 30S ribosomal protein S4

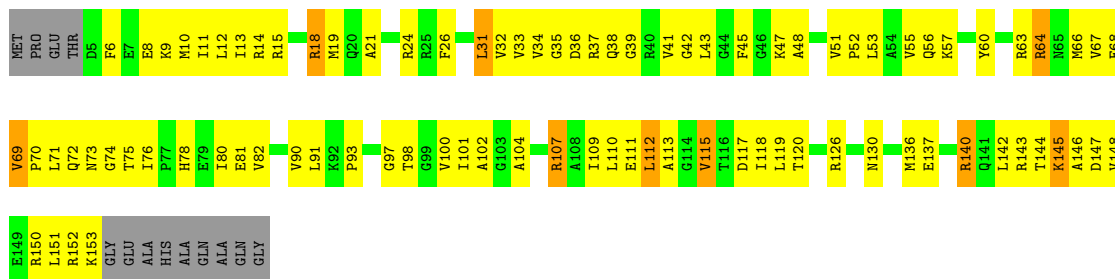




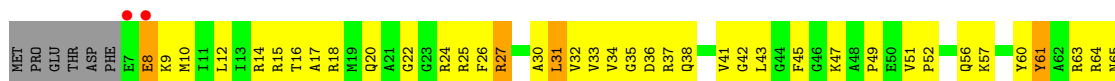
- Molecule 4: 30S ribosomal protein S4



- Molecule 5: 30S ribosomal protein S5

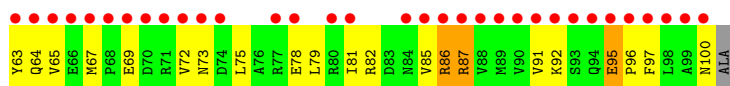
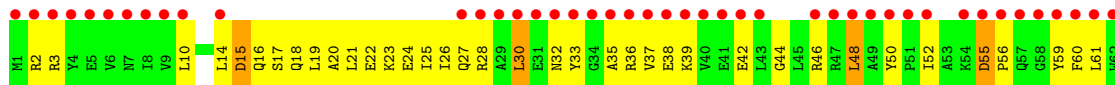
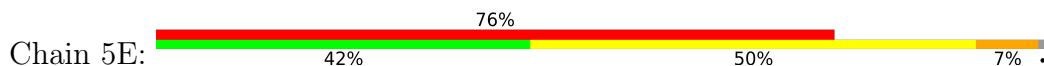


- Molecule 5: 30S ribosomal protein S5

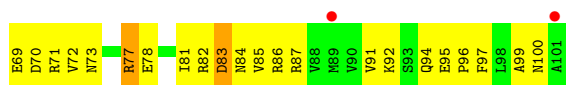
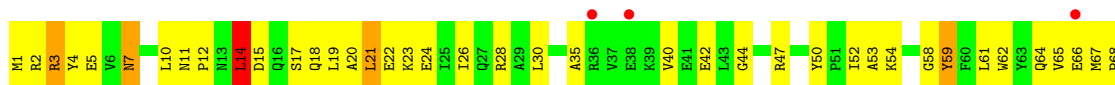




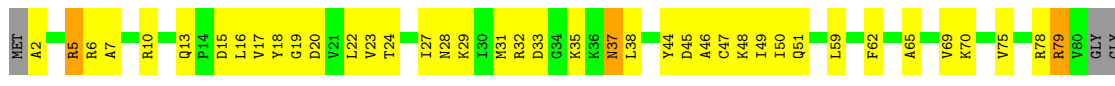
• Molecule 6: 30S ribosomal protein S6



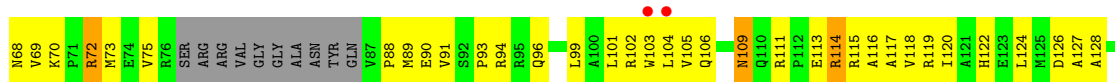
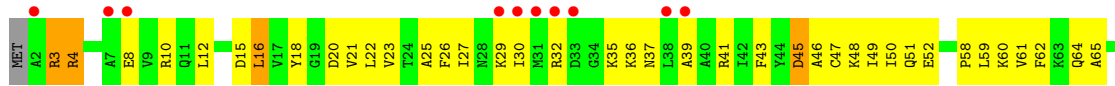
• Molecule 6: 30S ribosomal protein S6

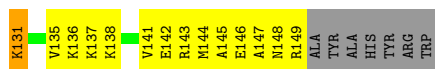


• Molecule 7: 30S ribosomal protein S7



• Molecule 7: 30S ribosomal protein S7

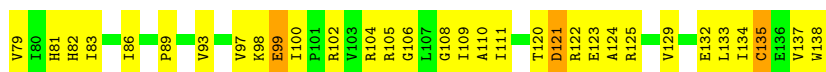
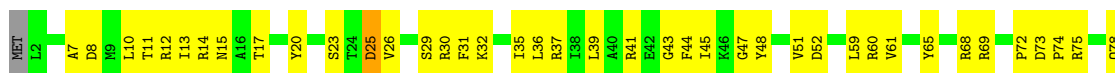




• Molecule 8: 30S ribosomal protein S8



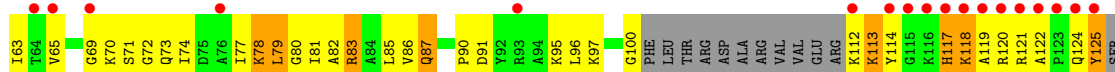
• Molecule 8: 30S ribosomal protein S8



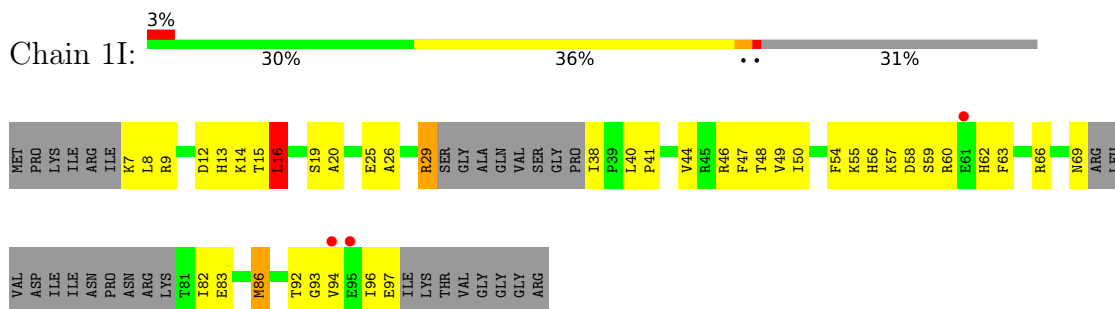
• Molecule 9: 30S ribosomal protein S9



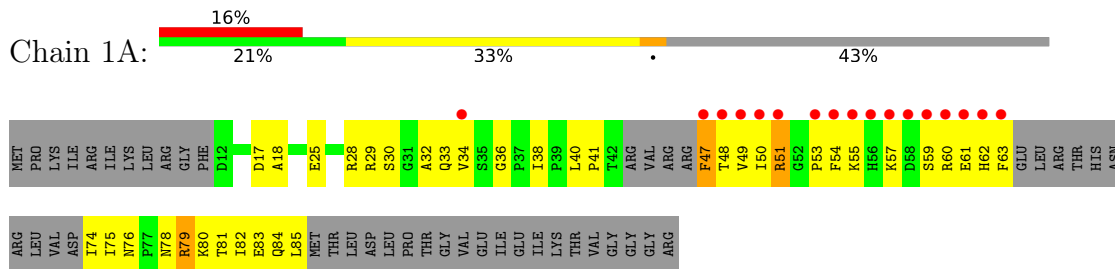
• Molecule 9: 30S ribosomal protein S9



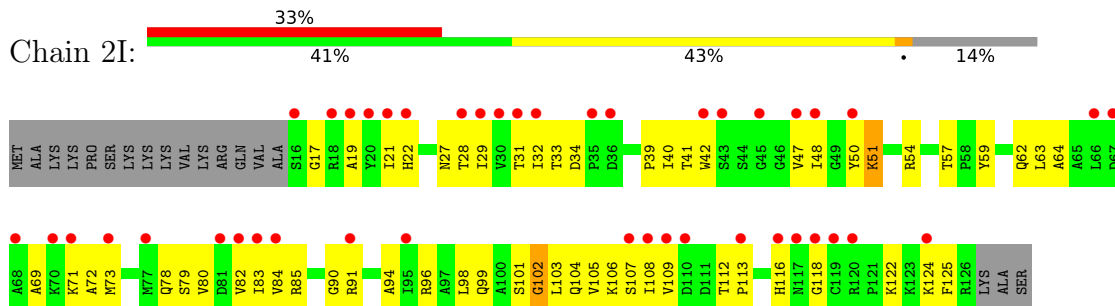
• Molecule 10: 30S ribosomal protein S10



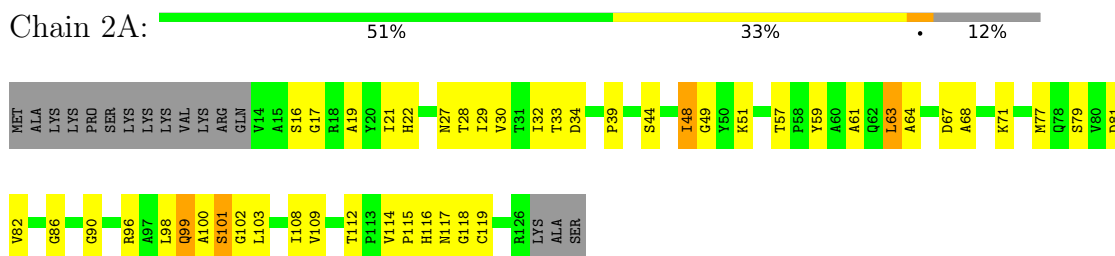
• Molecule 10: 30S ribosomal protein S10



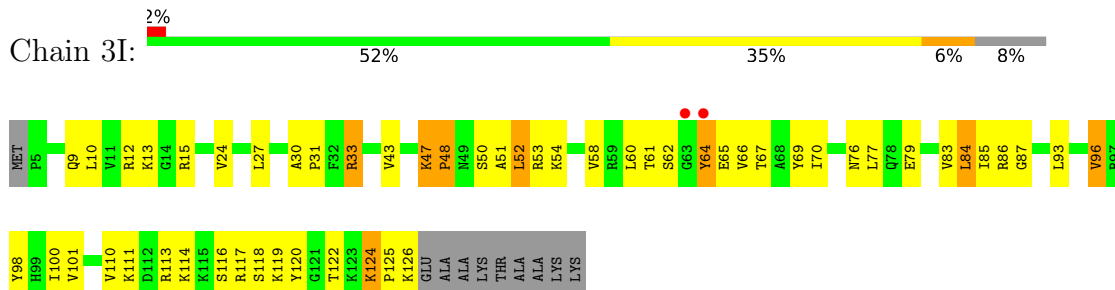
• Molecule 11: 30S ribosomal protein S11



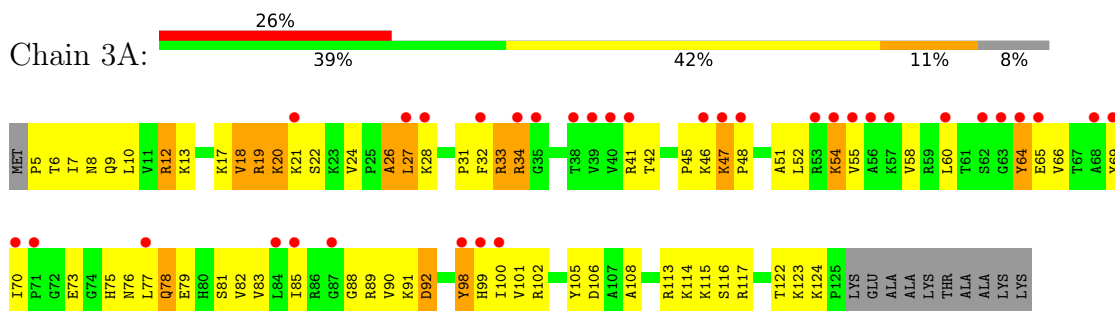
• Molecule 11: 30S ribosomal protein S11



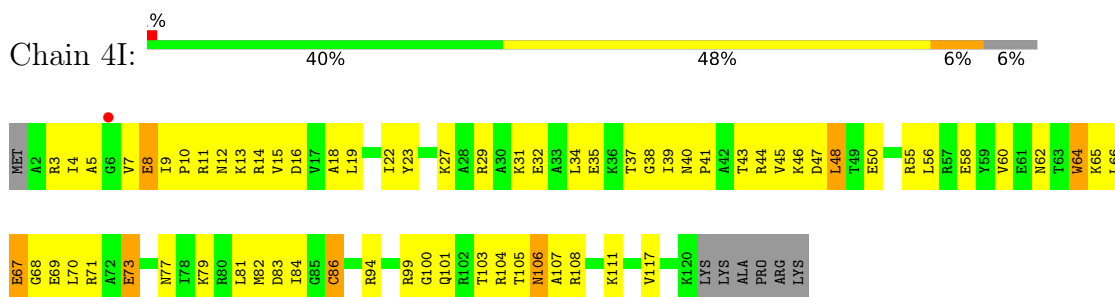
• Molecule 12: 30S ribosomal protein S12



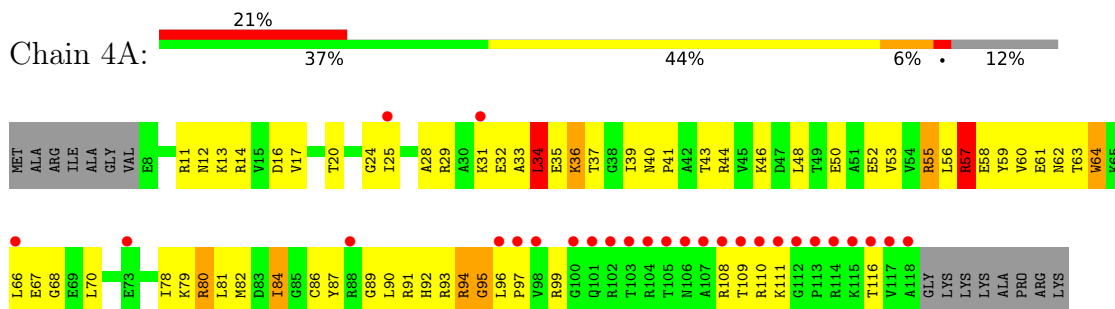
- Molecule 12: 30S ribosomal protein S12



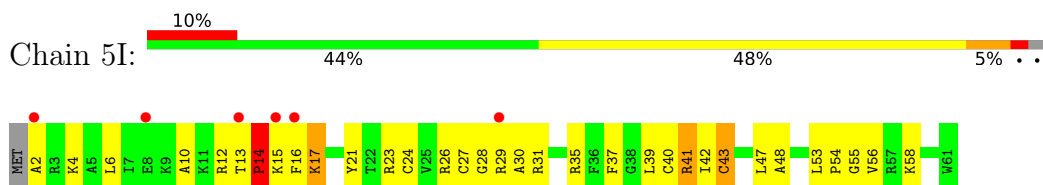
- Molecule 13: 30S ribosomal protein S13



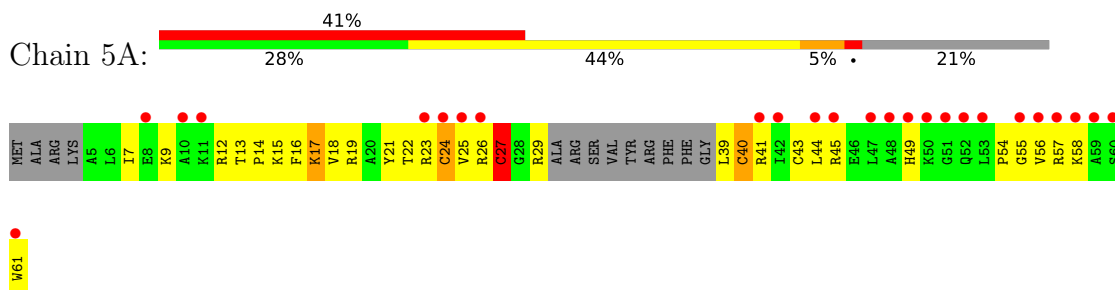
- Molecule 13: 30S ribosomal protein S13



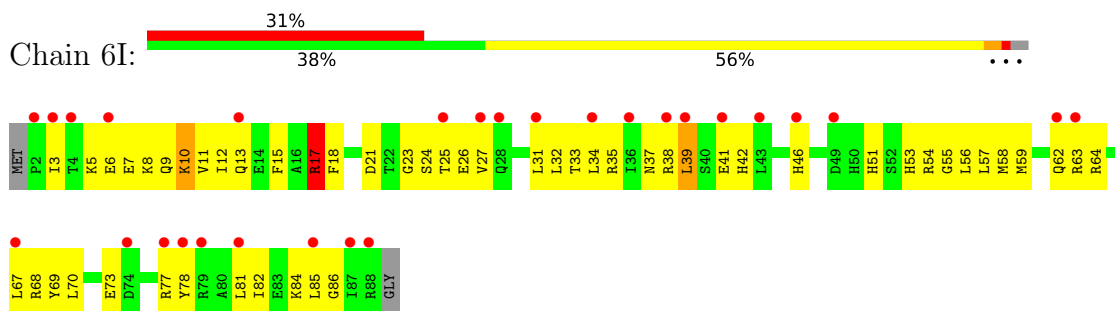
- Molecule 14: 30S ribosomal protein S14 type Z



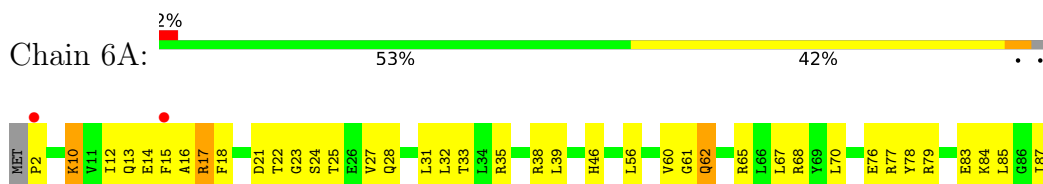
- Molecule 14: 30S ribosomal protein S14 type Z



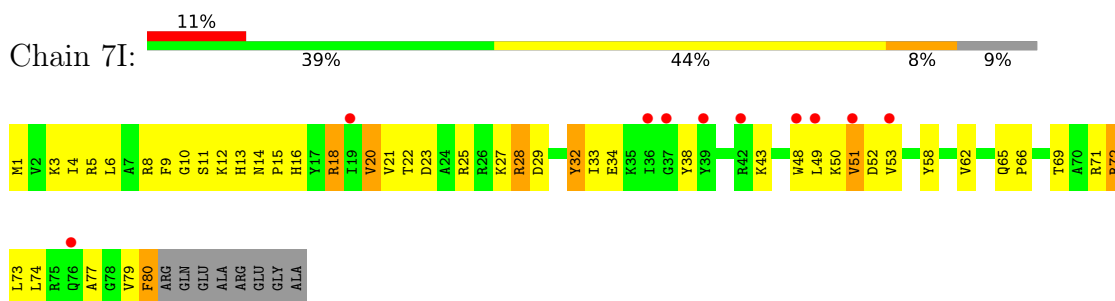
- Molecule 15: 30S ribosomal protein S15



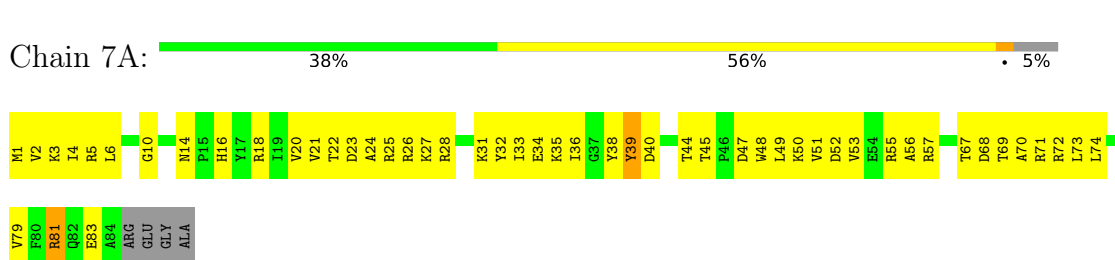
- Molecule 15: 30S ribosomal protein S15



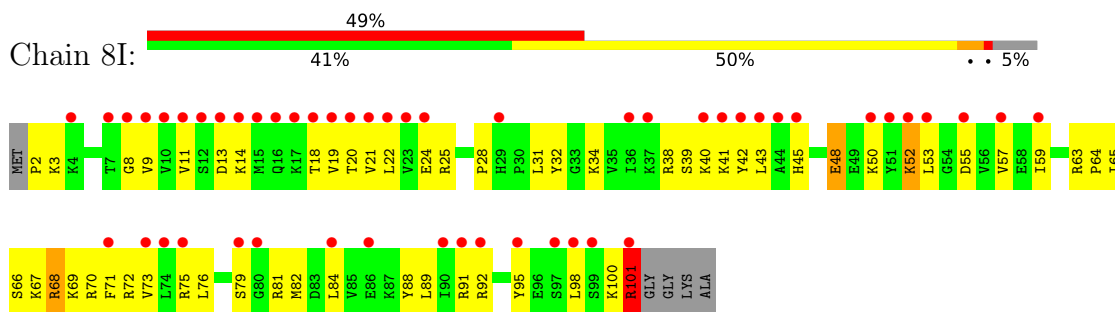
- Molecule 16: 30S ribosomal protein S16



- Molecule 16: 30S ribosomal protein S16

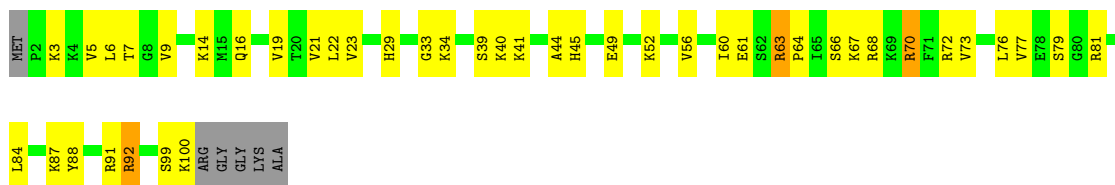


- Molecule 17: 30S ribosomal protein S17



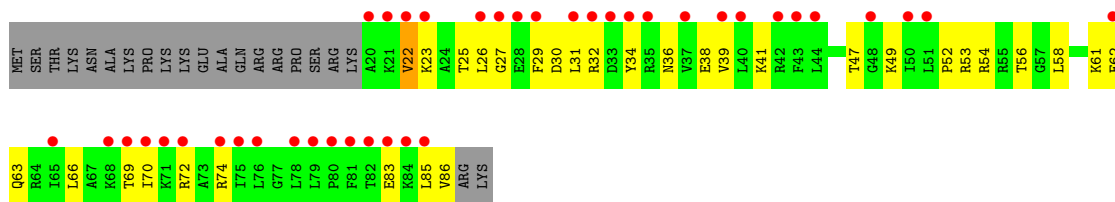
- Molecule 17: 30S ribosomal protein S17

Chain 8A: 53% 38% 6%



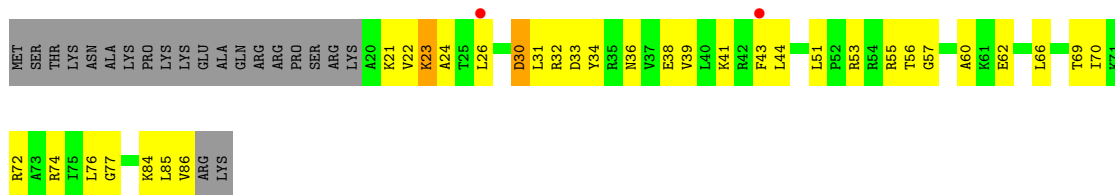
• Molecule 18: 30S ribosomal protein S18

Chain 9I: 45% 40% 35% 24%



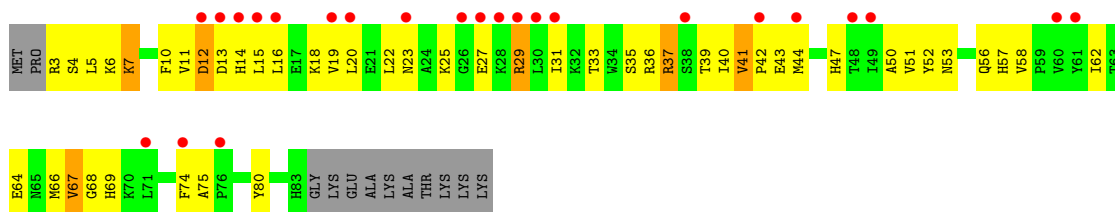
• Molecule 18: 30S ribosomal protein S18

Chain 9A: 2% 39% 35% 24%



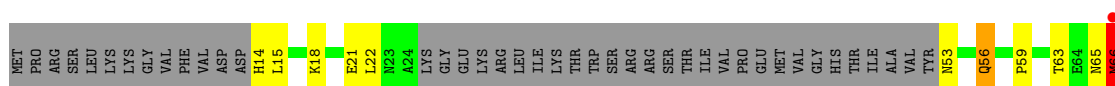
• Molecule 19: 30S ribosomal protein S19

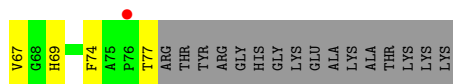
Chain AI: 26% 35% 45% 6% 13%



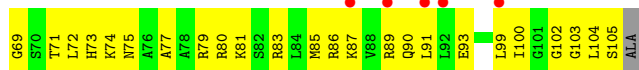
• Molecule 19: 30S ribosomal protein S19

Chain AA: 2% 23% 14% 61%

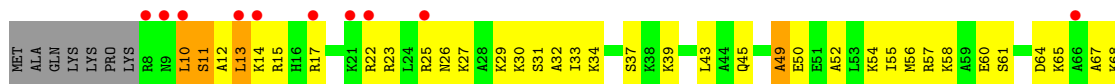




• Molecule 20: 30S ribosomal protein S20



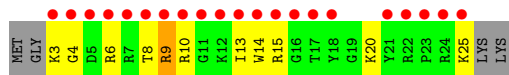
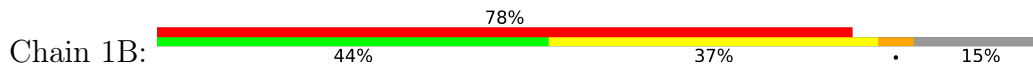
• Molecule 20: 30S ribosomal protein S20



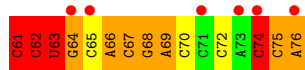
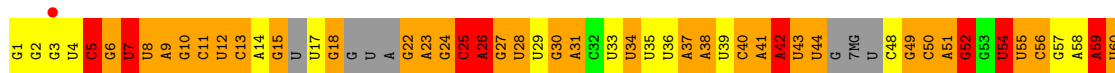
• Molecule 21: 30S ribosomal protein Thx



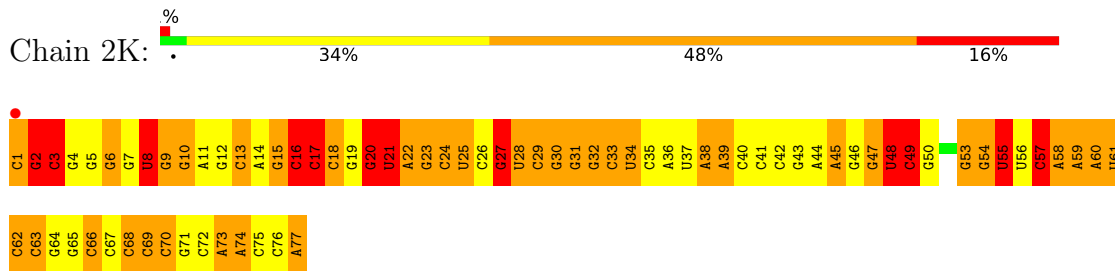
• Molecule 21: 30S ribosomal protein Thx



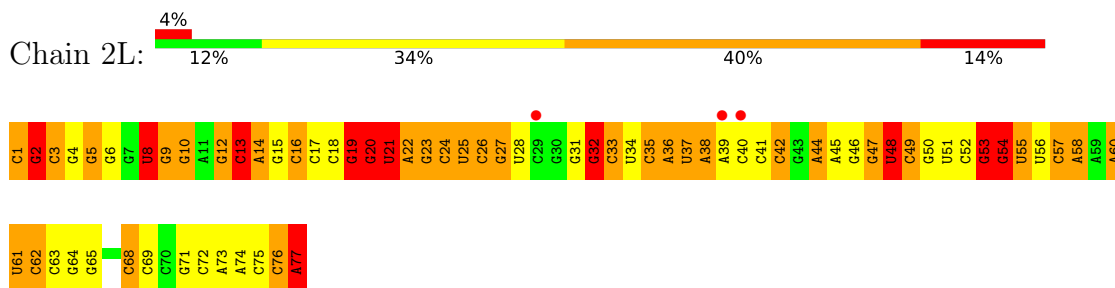
• Molecule 22: tRNA^{Lys}



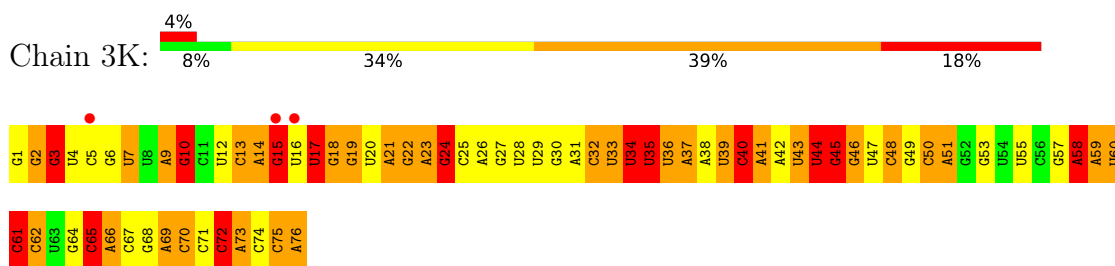
• Molecule 23: tRNA^{fMet}



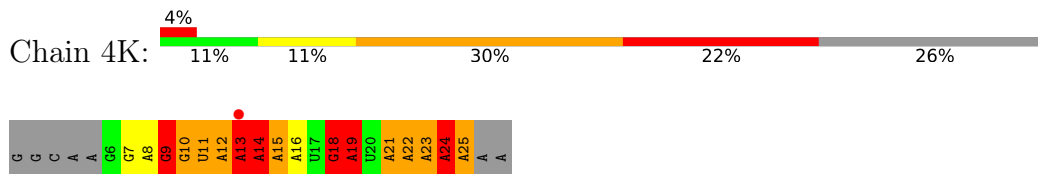
• Molecule 23: tRNA^{fMet}



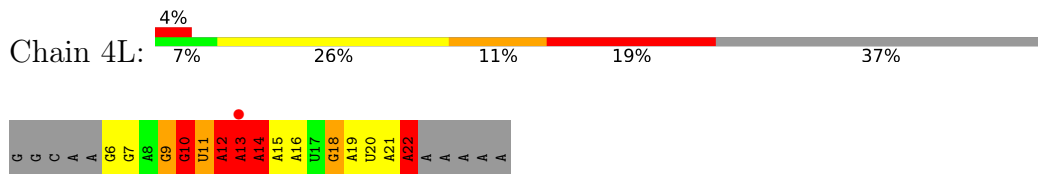
• Molecule 24: tRNA^{Lys}



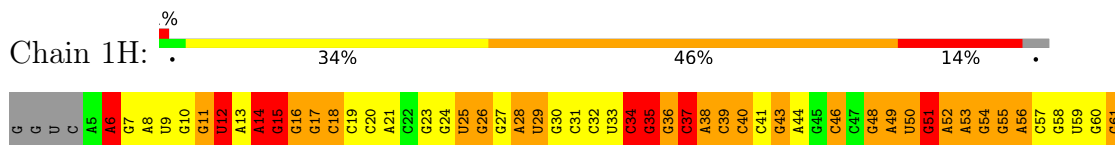
• Molecule 25: mRNA



• Molecule 25: mRNA



• Molecule 26: 23S ribosomal RNA



G1034	C974A	C914	G853	A793	G733	G673	G635	G577	A515	A454	C393	C336	A276	A251	A191	G123	G62
U1035	G975	C915	G854	G794	A734	G674	G636	A678	C516	C485	A394	C337	C277	G252	C192	G124	U63
G1036	G976	G916	G855	G795	A675	A675	A637	G579	C517	C486	U395	G338	A278	G253	U193	G125	A64
G1037	G977	G917	G856	G796	A676	A676	A638	G580	U396	A457	G396	U339	C279	G254	G194	A126	C65
G1038	G978	G918	G857	G797	A677	A677	U639	C581	U397	C458	G397	G340	C280	A255	A195	A127	C66
G1039	G979	G919	U858	G798	G678	G678	G640	C582	G520	U459	G398	G341	G281	A256	A196	C128	U67
C1040	A980	G920	G859	G799	G679	G679	C641	C583	G521	A460	G399	G342	A282	A257	A197	C129	G68
G1041	A981	G921	U860	A800	G680	G680	G642	G584	G522	C461	G400	C343	A283	A258	C198	C130	C69
G1042	C982	U922	A861	G801	G681	G681	A643	C585	G523	A401	G344	G344	U284	G259	A199	G131	G70
C1043	A983	C923	A862	A802	G682	G682	A644	C586	U524	U402	A345	A345	C286	G260	U200	G132	A71
G1044	A984	C924	A863	U803	G683	G683	C645	C587	U525	U403	U346	U346	C287	G261	C201	C133	A72
A1045	C985	A925	A864	A804	G684	G684	A646	U588	A526	C404	A347	A347	C288	A262	U202	C134	A73
G1046	C986	A926	G865	G805	A685	A685	G647	C589	G527	U405	G348	G348	C289	C263	C203	G135	A74
G1047	G987	G928	A866	C806	A746	G686	G648	A590	A528	G406	G349	G349	A289	C264	A204	G136	G75
A1048	A988	G929	C867	U807	U747	C687	G649	C591	A529	G407	G350	G350	G290	A265	G205	C137	C76
C1049	A989	U930	U868	G808	G748	U688	G650	C592	G530	G408	G351	G351	C291	A266	G206	C137A	C77
A1050	A990	G931	G869	G809	C749	A689	G651	C593	G531	A470	C409	G352	C292	G267	U206	G138	A78
G1051	C991	G932	A870	U810	A750	G690	G652	U594	A532	A471	G410	G353	U293	C268	C208	G139	G79
C1052	C992	A933	U871	U811	A751	C691	A653	C595	G533	A472	G411	G354	A294	U269	C209	A140	G80
G1053	G993	G934	A872	C812	A752	C692	A654	C596	U534	G473	A412	G355	G295	A270	C210	A141	G81
A	C994	C935	G873	U813	C753	C693	A654A	U597	U535	G474	C413	G356	C296	A270A	A211	C141A	G82
G	C995	G936	G874	C814	C754	C694	C654B	C598	A536	U475	C414	A357	C297	A270B	G212	G142	G83
G	A996	U937	G875	C815	C755	C695	G654C	U599	C537	G476	A415	U358	C298	A270C	A213	C143	G84
A	G997	C938	C876	C816	C756	G696	G654D	G600	C538	A477	C416	A359	A299	C270D	G214	C144	G85
U	C998	U939	U877	C817	U757	C697	C	C601	G540	A478	C417	G360	A300	G270E	G215	G145	G86
G	U999	G940	A878	C818	C758	C698	C	G602	C541	A479	G418	G361	G301	U270F	A216	G146	C87
U	A1000	A941	G879	A819	G759	A699	C	A603	C542	A480	C419	G362	C302	C270G	G217	U147	G88
U	A1001	G942	G880	A820	G760	G700	C	G604	C543	A481	C420	U363	U303	C270H	A218	C148	G89
G	G1002	U943	G881	A821	G761	G701	C	C605	C544	A482	U421	A363A	G304	G270I	G219	A149	U90
G	G1003	G944	G882	U822	U762	G702	A	U606	G545	A483	A422	G363B	U305	G270J	G220	C150	A91
C	C1004	A945	C	G823	G763	G703	C	U607	C546	C484	A423	G363C	U306	G270K	A221	C151	G92
U	C1005	G946	C	A824	G764	G704	C	A608	A547	C485	G424	G363D	G307	U270L	A222	G152	G93
U	C1006	G947	C	C825	G765	A705	C	A609	A548	C486	G425	G363E	G308	U270M	A223	C153	G94
A	C1007	G948	C	U826	G766	A706	G654N	A609A	G549	C487	C426	A363F	G309	G270N	G224	G154	G95
G	A1008	C949	A	U827	U767	G707	A654O	C610	G550	G488	U427	C364	A310	U270O	A225	C155	G96
A	A1009	G950	C	U828	G768	C708	G654P	C611	G551	G489	A428	C365	A311	C270P	G226	U161	C97
A	A1010	C951	C	A829	G769	U709	C654Q	G612	G552	G491	A429	C366	G312	C270Q	A227	U162	G98
C	G1011	G952	A	G830	G770	G710	G654R	U613	U553	A492	G430	G370	C313	G270R	A228	U163	U99
C	U1012	A953	G	G831	G771	G711	G654S	U614	U554	G493	U431	A371	A314	G270S	A229	U164	G101
A	C1013	G954	C893	G832	G772	G712	A654T	G615	G556	G494	A432	G372	G315	G270T	U230	U165	G102
C	U1014	C955	C894	U833	U773	G713	A654U	A616	U557	G495	C433	U373	C316	C270U	C231	G171	A103
C	G1015	G956	U895	C834	A774	U714	A654V	G617	G558	G496	U434	A374	G317	G270V	G232	G172	U104
A	G1016	A957	A	A835	G775	G715	A655	G618	G559	A497	C435	C375	C318	G270W	A233	G173	C105
C	U1017	U958	C897	G836	G776	A716	G656	C618A	G560	C498	C436	C376	C319	G270X	C234	C174	C106
U	C1018	A959	C898	C837	A777	G717	U657	G619	G561	U499	G438	C377	A320	G270Y	U236	G175	C107
C	A1019	C960	A899	C838	G778	A718	G658	G620	U562	G500	G439	C378	G321	U270Z	C236	G176	U108
A	A1020	C961	A900	U839	U779	C719	C659	A621	G563	A501	G440	G379	A322	C271A	C237	G177	U109
U	U1021	G962	A901	C840	G780	G720	G660	G622	C564	A502	U441	U380	G323	G271B	C238	G178	G110
U	G1022	U963	C902	A841	A781	C721	C661	G623	C565	A503	G442	U381	A324	U271C	U239	G179	A111
U	U1023	C964	C903	G842	A782	A722	G662	G624	U566	U504	A443	G382	G325	G271	G240	G180	U112
A	G1024	C965	C904	G843	G723	G723	G663	G625	A567	A505	C444	U383	G326	G272	G241	A181	G113
A	A1025	G966	U905	A844	U724	C664	C664	U626	U568	G506	C445	U384	G327	C272	G242	A182	U114
A	U1026	C967	G906	G845	G725	C665	A627	U569	U569	A507	G446	C385	U328	G273	U243	C183	C115
A	A1027	G968	U907	G846	G726	G666	G666	G628	G570	G508	A447	G386	G329	C273A	A244	C184	C116
A	A1028	U969	C908	U847	A727	U667	U667	G629	A571	U448	U448	U387	A330	C273B	G245	U185	G117
A	A1029	C970	A909	G848	G728	G668	G668	G630	A572	C510	U449	G388	A331	C273C	G246	G186	A118
U	G1030	C971	A910	A849	G729	G669	G669	A631	G573	U511	U449	G389	A332	C273D	G247	G187	A119
G	A1031	G972	C911	C850	C730	A632	A632	A632	C574	U512	G450	A390	A333	U273E	G248	G188	U120
C	A1032	A973	C912	U851	C731	A633	A633	A633	A575	G513	G451	A391	G334	C273F	G249	C249	G121
G	U1033	G974	U913	G852	C732	C672	C672	C634	U576	A514	C453	C392	C395	G275	G250	A190	G122

C2021	G1961	A1901	C1832	G1772	G1696	C1636	C1574	U1514	A1483	U1394	G1334	A1274	G1215	G1154	U
U2022	C1962	C1902	U1833	A1773	G1697	A1637	C1575	C1515	U1484	A1395	U1335	A1275	G1216	A1155	A
G2023	U1963	G1903	G1834	C1774	A1698	A1638	C1576	U1516	G1465	U1396	G1336	G1276	C1217	A1156	A
G2024	G1964	G1904	G1835	U1775	A1699	U1639	U1577	G1517	G1456	U1397	G1337	G1277	G1218	G1157	U
C2025	C1965	C1905	C1836	A1776	A1700	A1640	U1578	G1518	A1457	C1398	G1338	A1278	G1219	C1158	A
C2026	A1966	G1906	C1837	U1777	A1701	A1641	A1579	G1519	A1458	C1399	G1339	G1279	G1220	U1159	G
G2027	C1967	G1907	C1838	U1778	G1702	G1642	A1580	U1520	G1459	G1400	U1340	G1280	C1221	G1160	C
U2028	G1968	C1908	G1839	U1779	G1703	G1643		G1521	A1460	G1401	U1341	G1281	C1222	C1161	U
G2029	A1969	G1909	G1840	A1780	G1704	G1644		G1522	A1461	A1402	U1342	U1282	C1223	G1162	C
A2030	A1970	G1910	A1841	C1781	G1705	G1645	A1586	U1523	G1462	C1403	G1343	G1283	G1224	G1163	A
A2031	A1971	A1911	G1842	C1782	U1706	G1646	A1587	U1524	G1463	C1404	G1344	A1284	G1225	G1164	C
G2032	A1972	A1912	A1843	A1783	G1707	G1647	C1588	G1525	G1464	U405	C1345	G1285	G1226	U1165	V
A2033	A1973	A1913	C1844	A1784	G1708	G1648	C1589	G1526	G1465	U406	G1346	A1286	G1227	C1166	
U2034	C1974	C1914	G1845	A1785	U1709	G1649	U1590	U1527	G1466	G1407	G1347	A1287	G1228	U1167	
G2035	G1975	U1915	G1846	A1786	C1710	G1650	G1591	A1528	G1467	C1408	G1348	U1288	G1229	G1168	
C2036	U1976	A1916	A1847	A1787	G1711	G1651	C1592	A1529	C1468	A1409	G1349	C1289	G1230	G1169	
G2037	A1977	A1917	G1848	C1788	G1712	A1652	C1593	A1530	A1469	G1410	C1350	C1290	C1231	G1170	
G2038	A1978	A1918	G1849	A1789	G1713	G1653	G1594		G1470	C1411	C1351	C1291	G1232	G1171	
C2039	C1979	A1919	G1850	C1790	G1714	A1654	G1595		A1471	A1412	U1352	U1292	G1233	G1172	
C2040	G1980	C1920	U1851	A1791	G1718	A1655	A1596	C1533	A1472	G1413	A1353	C1293	C1234	U1173	
U2041	A1981	G1921	C1852	A1792	G1725	C1656	A1597	U1534	A1473	G1414	A1354	U1294	U1234	U1174	
A2042	C1982	G1922	A1853	C1793	G1726	C1657	C1598	U1535	C1474	U1415	G1355	C1295	G1235	U1175	
C2043	C1983	C1923	A1854	U1794	U1727	C1658	C1599	C1537	G1475	G1416	G1356	G1296	G1236	A1176	
C2044	G1984	G1924	G1855	C1795	G1728	U1659	C1600	G1538	C1476	C1417	U1357	C1297	G1237	C1177	
C2045	C1985	C1925	G1856	U1796	A1729	G1660	G1601	U1539	A1477	G1418	G1358	C1298	G1238	C1178	
G2046	A1986	U1926	G1857	C1797	U1730	G1661	U1602	G1540	G1478	A1419	A1359	G1299	G1239	C1179	
U2047	G1987	A1927	G1858	U1798	G1731	C1662	A1603	U1541	G1479	U1420	A1360	U1300	U1240	C1180	
G2048	C1988	C1928	A1859	C1799	A1732	C1663	C1604	G1542	G1480	G1421	G1361	U1301	A1241	A1181	
G2049	G1989	G1929	G1860	G1800	G1733	A1664	C1605	A1543	G1481	A1422	C1362	A1302	A1242	G1182	
C2050	C1990	G1930	C1861	G1801	C1734	A1665	G1606	C1544	G1482	G1423	C1363	G1303	G1243	G1183	
A2051	U1991	U1981	G1862	A1802	G1735	G1666	C1607	A1545	G1483	G1424	G1364	C1304	G1244	G1184	
G2052	G1992	A1932	C1863	A1803	C1741	G1667	A1608	U1546A	G1484	G1425	A1365	C1305	G1245	G1185	
G2053	U1993	G1933	U1864	C1804	C1742	A1668	A1609	C1546	A1485	A1426	A1366	C1306	G1246	G1186	
A2054	C1994	C1934	G1865	U1805	G1743	A1669	A1610	C1547	G1486	C1427	A1367	A1307	U1247	G1187	
C2055	U1995	G1935	C1866	A1806	G1746	C1670	C1548	C1549	G1487	A1428	G1368	A1308	G1248	A1188	
C2056	G1996	A1936	A1867	G1807	G1747	U1671	C1549	C1550	U1488	G1429	U1369	G1309	U1249	A1189	
A2057	G1997	A1937	A1868	U1808	G1748	C1672	G1512	C1551	A1490	C1430	C1370	G1310	G1250	A1128	
A2058	G1998	A1938	G1869	A1809	A1749	U1673	G1513	C1551	A1491	U1431	G1371	G1311	C1251	A1129	
A2059	C1999	C1939	G1870	A1810	G1750	U1674	C1514	G1552	G1492	U1432	U1372	U1312	G1252	U1130	
G2060	G2000	U1940	C1880	G1811	G1751	C1675	C1515	G1553	G1493	U1433	U1373	U1313	G1253	G1132	
A2061	A2001	C1941	C1881	A1812	G1752	A1676	C1516	A1554	C1494	A1434	G1374	C1314	A1254	A1194	
G2062	G2002	C1942	G1882	G1813	G1753	A1677	A1518	G1555	A1494	G1435	C1375	C1315	U1255	G1195	
C2063	G2003	U1943	G1883	G1814	C1754	G1678	G1519	C1556	A1495	G1436	C1376	U1316	G1256	C1196	
C2064	G2004	U1944	A1884	A1815	A1755	G1679	G1520	C1557	U1496	U1437	G1377	A1317	C1257	G1197	
C2065	A2005	G1945	A1885	G1816	G1756	U1680	U1620	A1558	C1498	U1438	A1378	C1318	U1258	U1199	
C2066	C2006	U1946	C1886	G1817	U1757	G1681	U1621	A1559	C1499	A1439	A1379	G1319	G1259	C1200	
G2067	C2007	C1947	C1887	U1818	G1758	G1682	G1623	G1560	G1500	G1440	G1380	C1320	G1260	C1201	
U2068	G2008	G1948	A1888	A1819	A1759	C1683	G1624	G1561	C1501	G1441	G1381	A1321	G1261	U1141	
G2069	G2009	U1949	A1889	U1820	A1760	C1684	U1625	A1562	C1502	G1442	G1382	A1322	A1262	A142A	
G2070	G2010	G1950	A1890	A1821	C1761	C1685	G1626	G1563	U1503	G1443	C1383	U1323	U1263	A1143	
A2071	U2011	U1951	G1891	G1822	A1762	C1686	G1627	C1564	C1504	G1444	A1384	G1324	U1264	G1144	
G2072	G2012	A1952	C1892	G1823	G1763	G1687	U1628	A1565	G1505	A1444A	G1385	G1325	A1265	G1145	
A2073	A2013	A1953	G1893	A1824	G1764	U1688	U1629	A1566	C1506	G1445	C1386	U1326	G1266	C1146	
U2074	U2014	G1954	C1894	A1825	A1765	A1689	G1630	A1567	A1507	G1446	C1387	G1327	U1267	C1147	
U2075	A2015	U1955	A1895	G1826	U1766	A1690	U1630A	G1568	C1508	G1447	G1388	G1328	A1268	A1148	
U2076	U2016	U1956	G1896	C1827	U1767	G1691	A1569	A1569	C1509	G1448	G1389	U1329	A1269	G1149	
A2077	U2017	C1957	G1897	G1828	U1768	U1692	A1570	A1570	A1510	A1449	U1390	C1330	U1270	U1211	
G2018	G2018	C1958	U1898	A1829	G1769	A1693	A1571	A1571	A1511	G1449A	U1391	A1331	G1271	G1151	
U2079	A2019	G1959	A1899	G1830	G1770	C1694	A1572	A1572	A1512	G1450	A1392	G1332	A1272	A1212	
G2080	A2020	A1960	A1900	G1831	C1771	G1695	G1635	G1573	A1513	C1451	A1393	C1333	U1273	A1214	

C2081	C2141	C2206	C2271	G2331	G2391	A2451	U2511	C2571	G2631	C2691	A2750	A2813	C2873	C2081
A2062	C2142	C2207	U2272	U2332	A2392	C2452	C2512	A2572	A2632	C2692	G2751	C2814	C2874	A2062
G2083	C2143	U2208	A2273	A2333	A2393	A2453	G2513	C2573	G2633	A2693	C2752	C2815	C2875	G2083
C2084	U2144	C2209	A2274	C2334	C2394	G2454	U2514	G2574	C2634	C2694	A2753	C2816	C2876	C2084
C2085	C2145	G2210	C2275	C2335	C2395	G2455	C2515	C2575	C2635	C2695	U2754	G2817	C2877	C2085
G2086	C2146	G2211	G2276	A2336	U2396	G2456	G2516	G2576	U2636	U2696	C2755	G2818	C2878	U2086
G2087	C2147	A2212	G2277	G2337	C2397	U2457	C2517	A2577	U2637	C2697	U2756	G2819	C2879	G2087
G2088	G2148	U2213	A2278	G2338	U2398	G2458	A2518	C2578	G2638	C2698	A2757	A2820	C2880	G2088
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G2090	U2150	G2216	G2280	G2340	G2400	U2460	C2520	U2580	G2640	C2700	C2759	A2822	C2882	G2090
U2091	G2151	G2217	C2281	G2341	U2401	U2461	C2521	G2581	G2641	C2701	C2760	A2823	C2883	U2091
U2092	G2152	G2218	G2282	C2342	C2402	U2462	U2522	G2582	G2642	U2702	G2761	C2824	C2884	U2092
G2093	G2153	G2219	C2283	C2343	C2403	C2463	G2523	G2583	G2643	C2703	G2762	C2825	C2885	G2093
G2094	G2154	G2224	C2284	U2344	C2404	C2464	G2524	U2584	G2644	C2704	G2763	A2826	C2886	G2094
C2095	G2155	A2225	C2285	G2345	G2405	C2465	G2525	U2585	G2645	A2705	A2764	C2827	C2887	C2095
U2096	G2156	C2226	A2286	A2346	U2406	U2466	G2526	C2586	C2646	G2706	A2765	C2828	C2888	U2096
C2097	G2157	A2227	A2287	C2347	G2407	C2467	C2527	C2587	C2647	G2707	G2766	C2829	C2889	C2097
U2098	A	G2228	A2288	U2348	U2408	U2468	U2528	G2588	C2648	G2708	C2767	C2830	C2890	U2098
U2099	G	C2229	C2289	C2349	G2409	A2469	G2529	A2589	U2649	G2709	C2768	G2831	C2891	U2099
G2100	G	G2230	C2290	C2350	G2410	C2470	A2530	A2590	U2650	C2710	C2769	U2832	C2892	G2100
G2101	C2161	G2231	U2291	G2351	A2411	C2471	A2531	A2591	U2651	C2711	G2770	U2833	C2893	G2101
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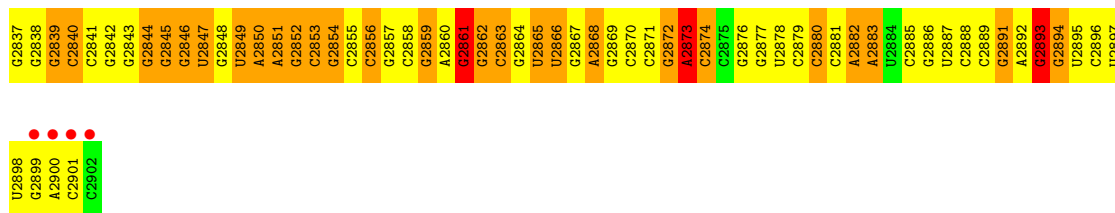
• Molecule 26: 23S ribosomal RNA



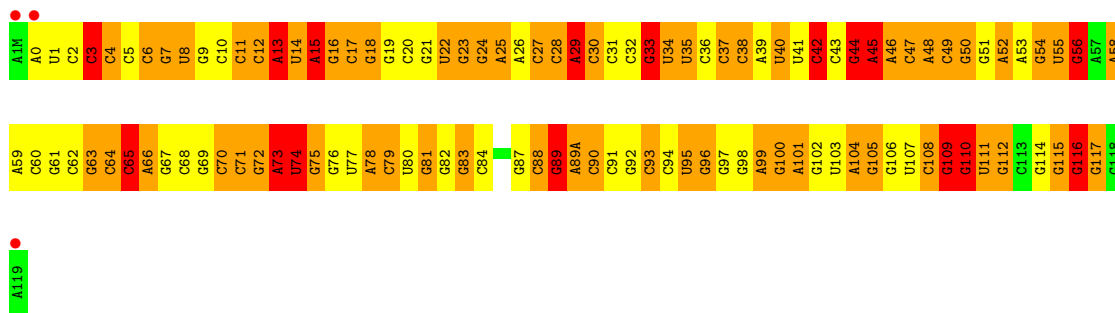
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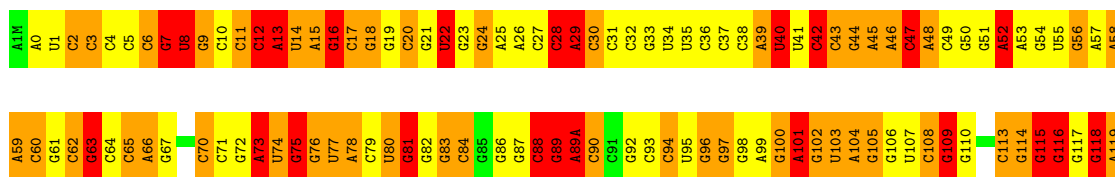
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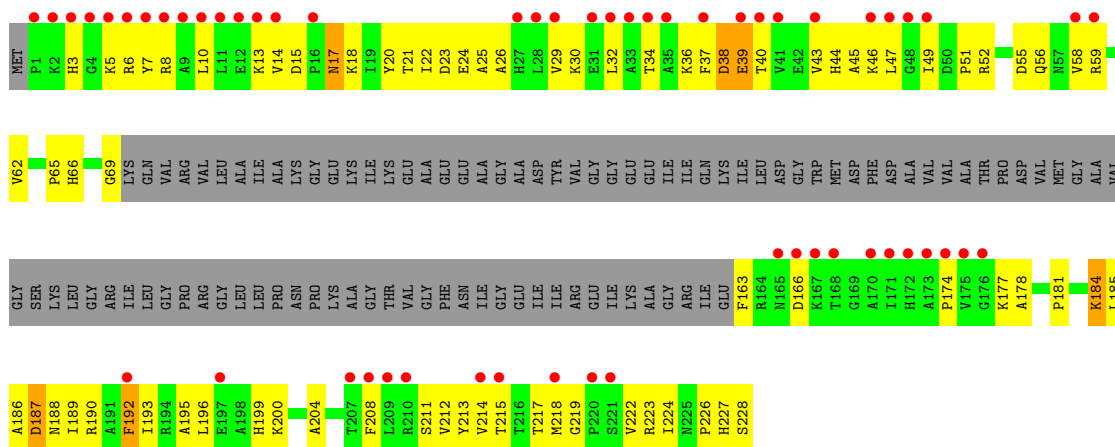
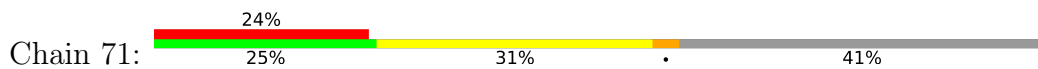
• Molecule 27: 5S ribosomal RNA



• Molecule 27: 5S ribosomal RNA

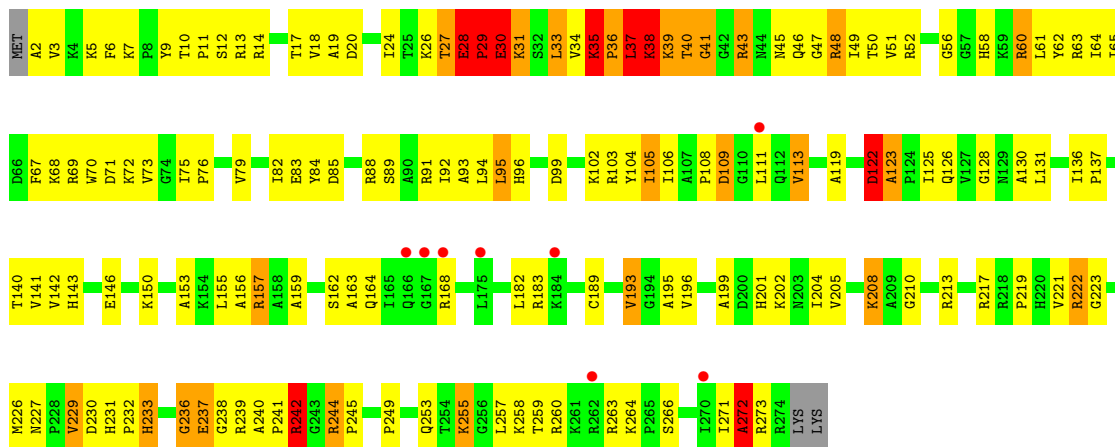


• Molecule 28: 50S ribosomal protein L1

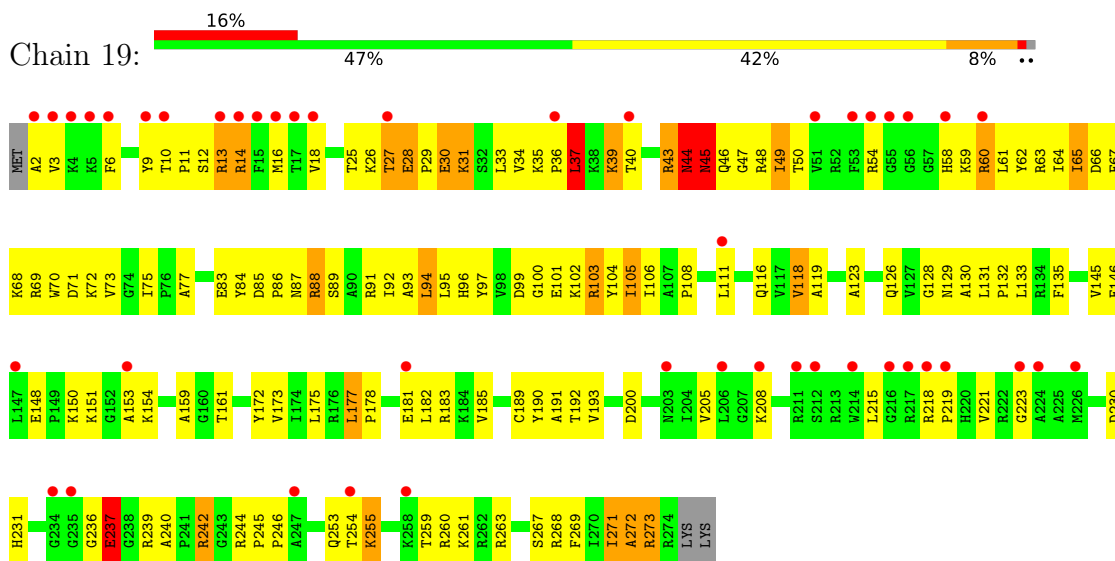


• Molecule 29: 50S ribosomal protein L2

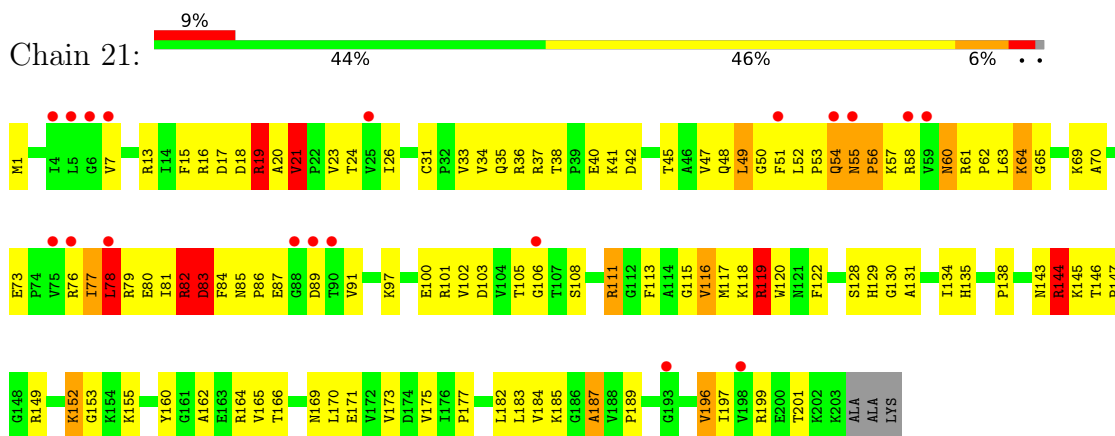




• Molecule 29: 50S ribosomal protein L2

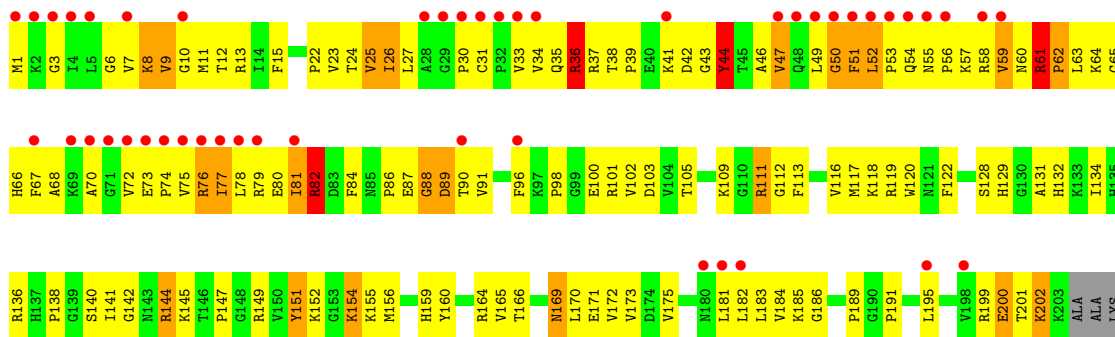


• Molecule 30: 50S ribosomal protein L3

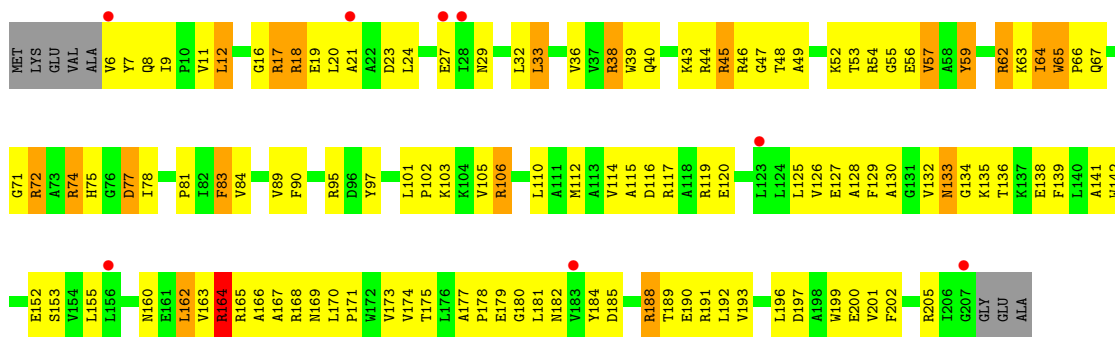


• Molecule 30: 50S ribosomal protein L3

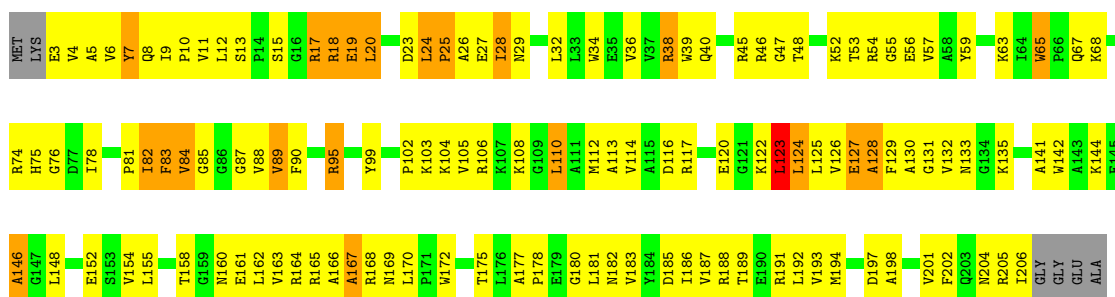
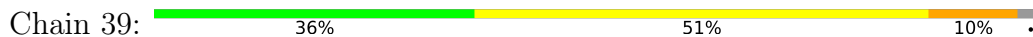




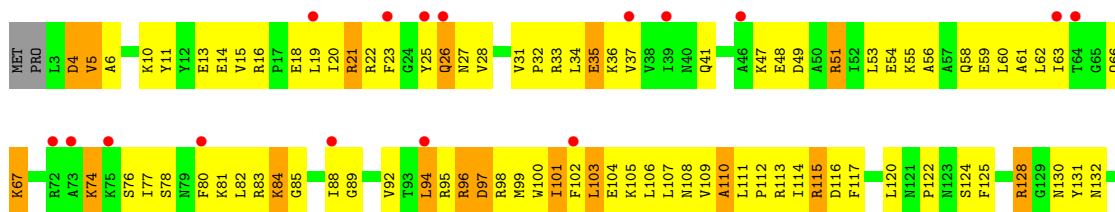
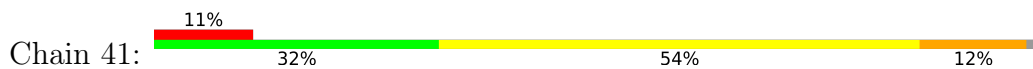
• Molecule 31: 50S ribosomal protein L4



• Molecule 31: 50S ribosomal protein L4

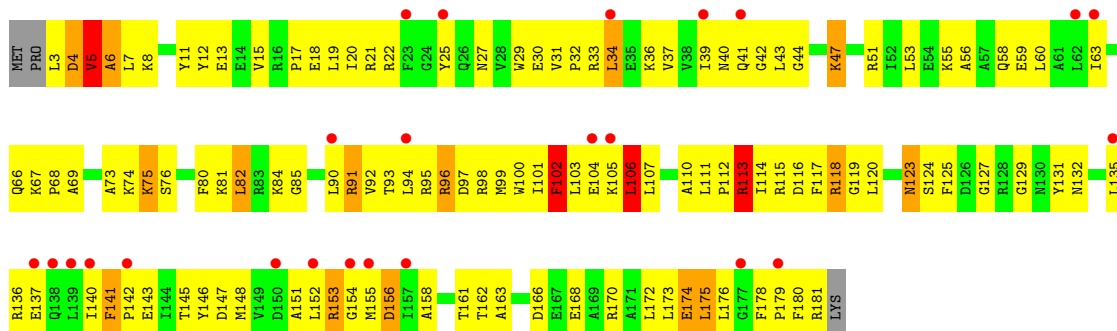


• Molecule 32: 50S ribosomal protein L5

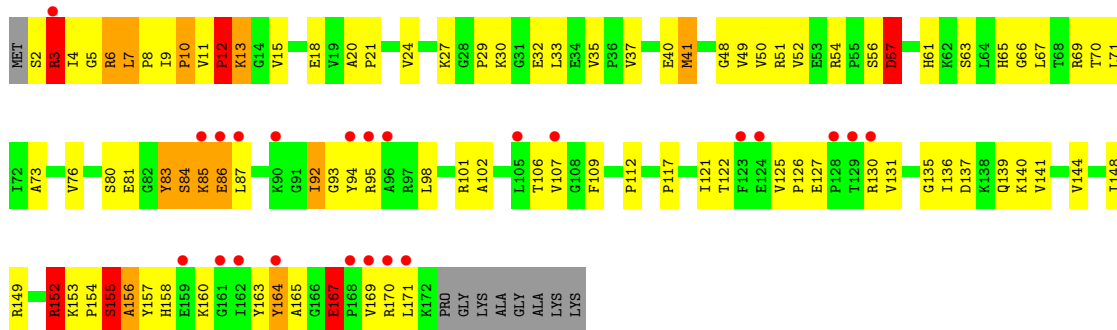
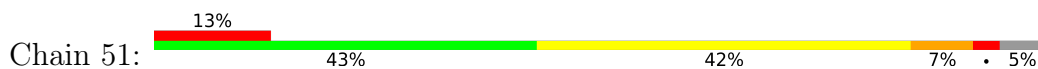




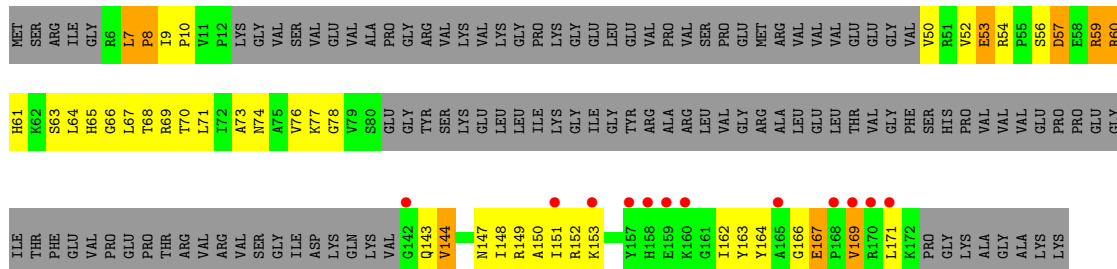
• Molecule 32: 50S ribosomal protein L5



• Molecule 33: 50S ribosomal protein L6

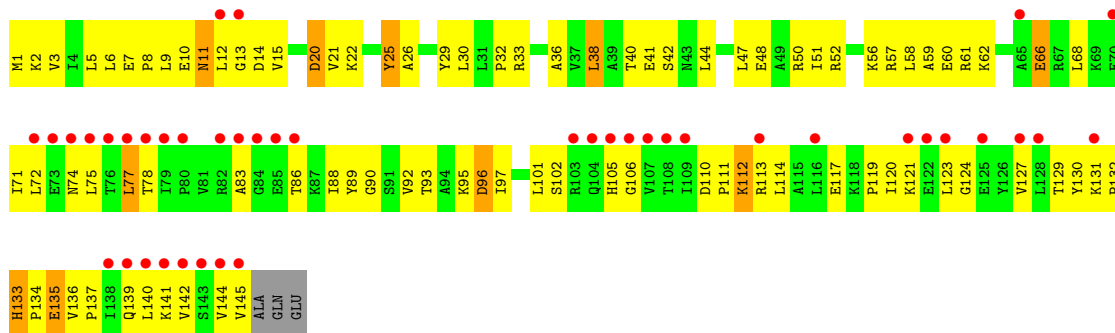


• Molecule 33: 50S ribosomal protein L6

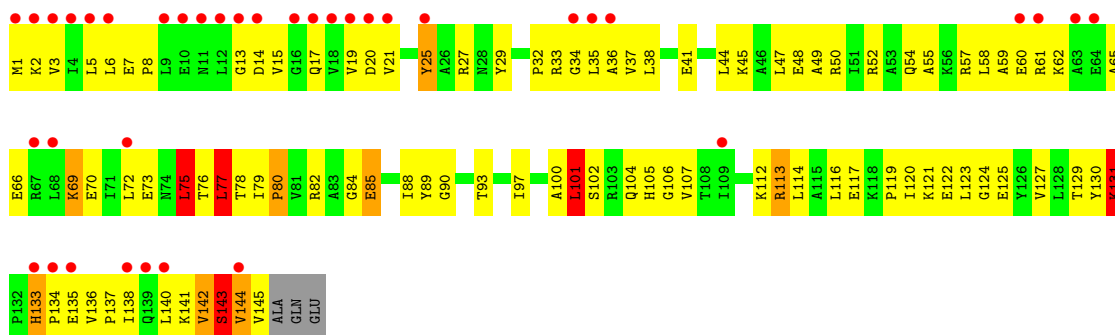


• Molecule 34: 50S ribosomal protein L9

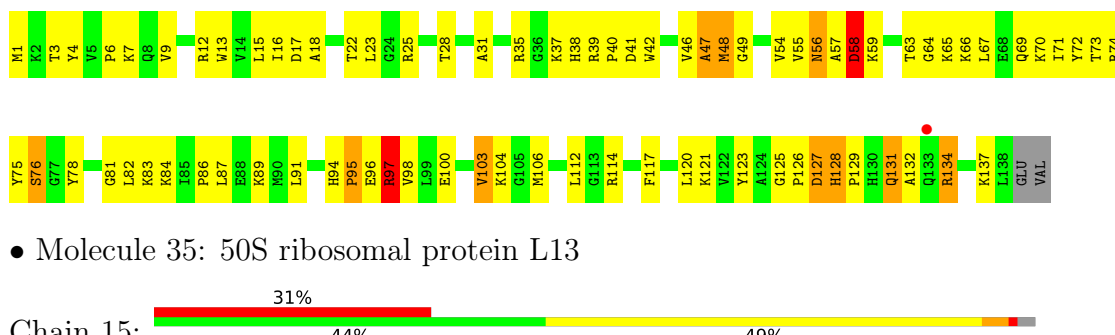




• Molecule 34: 50S ribosomal protein L9



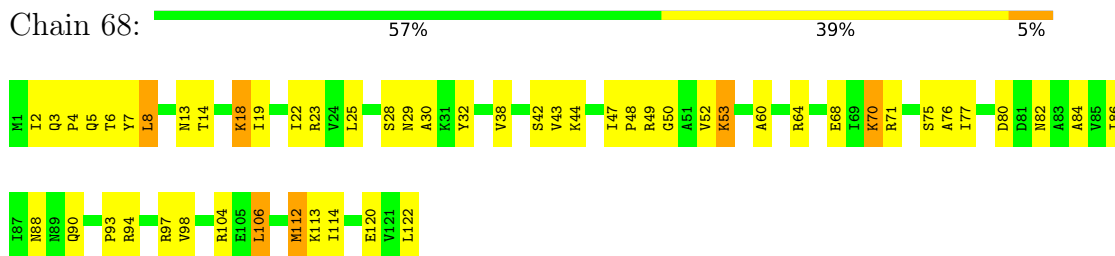
• Molecule 35: 50S ribosomal protein L13



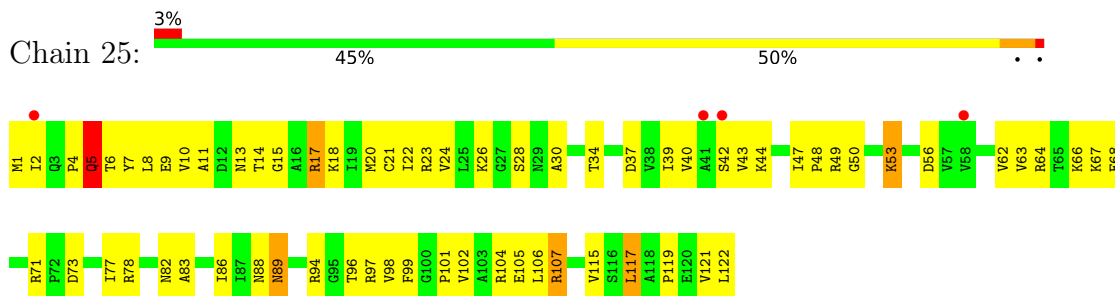
• Molecule 35: 50S ribosomal protein L13



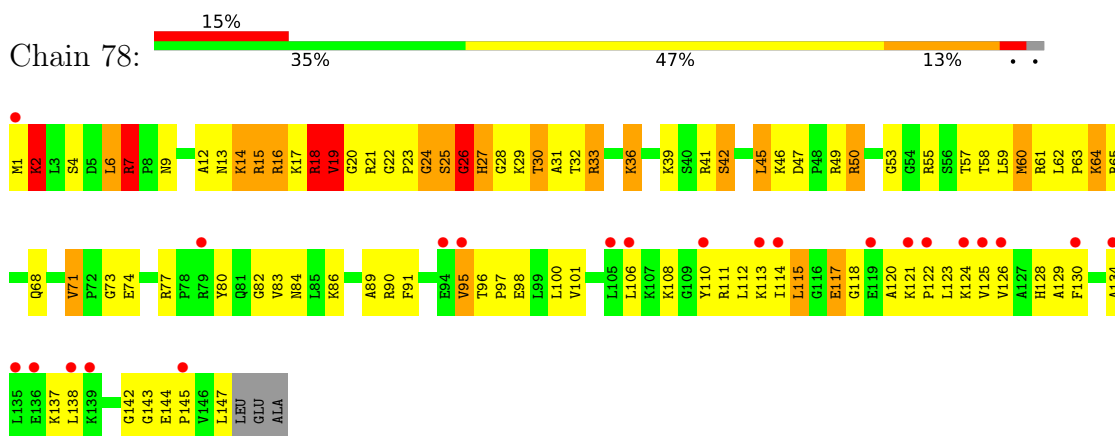
- Molecule 36: 50S ribosomal protein L14



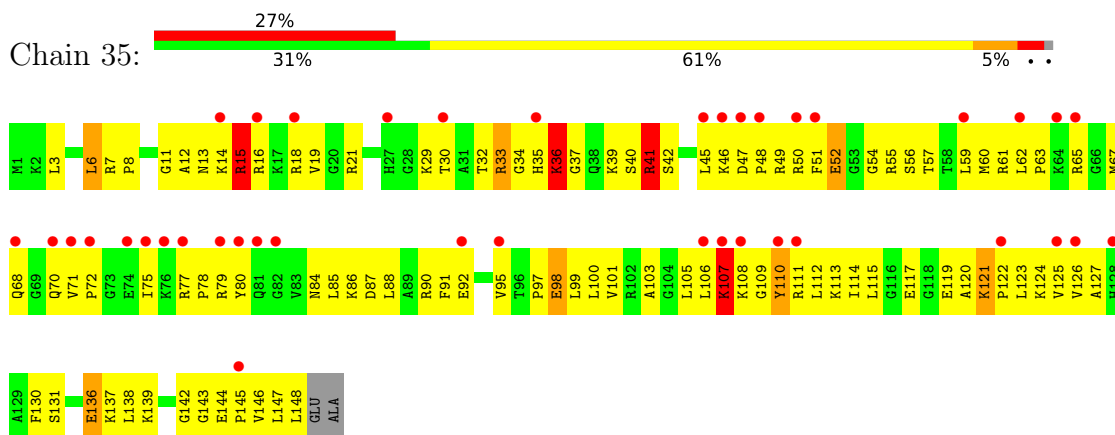
- Molecule 36: 50S ribosomal protein L14



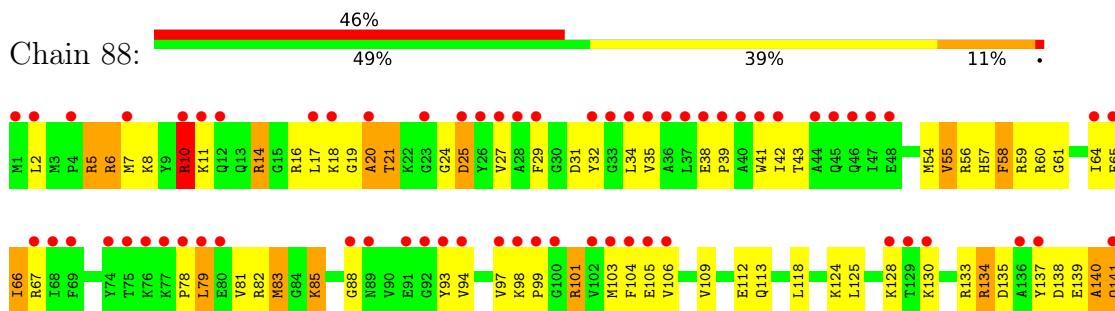
- Molecule 37: 50S ribosomal protein L15



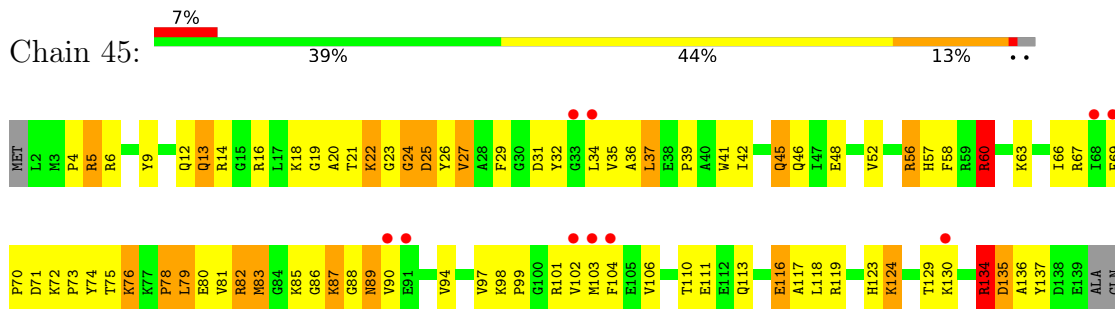
- Molecule 37: 50S ribosomal protein L15



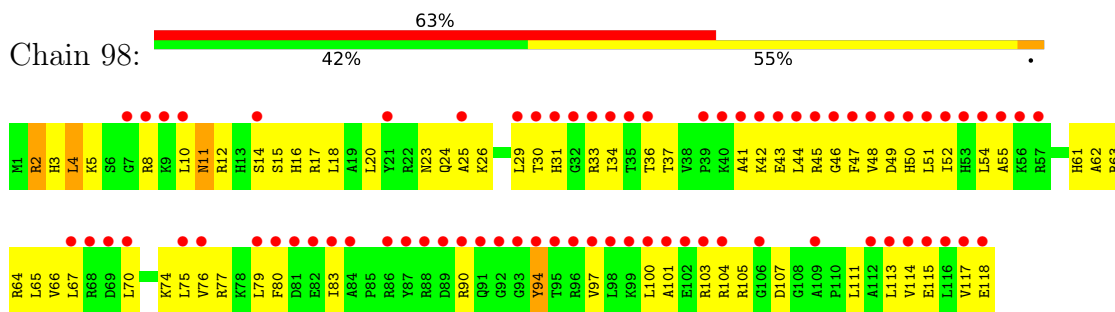
- Molecule 38: 50S ribosomal protein L16



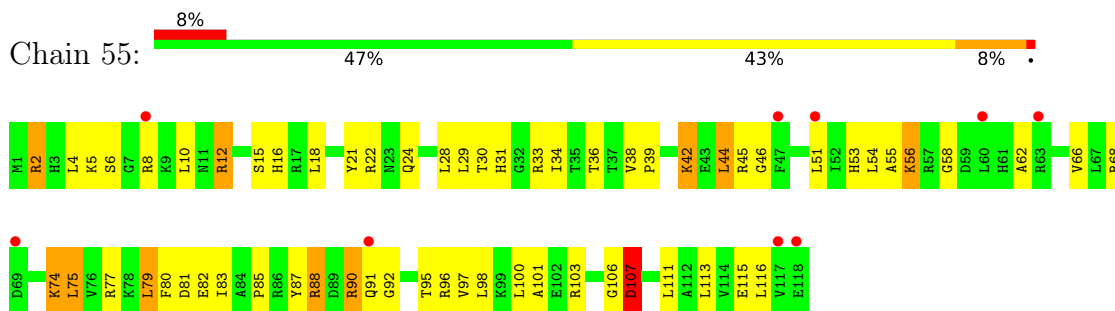
• Molecule 38: 50S ribosomal protein L16



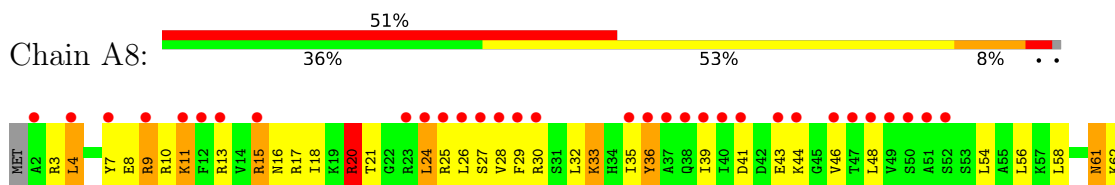
• Molecule 39: 50S ribosomal protein L17



• Molecule 39: 50S ribosomal protein L17

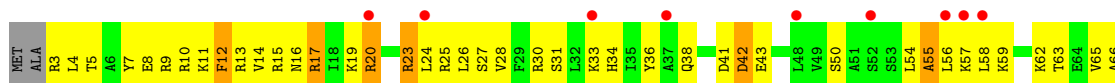


• Molecule 40: 50S ribosomal protein L18

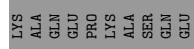
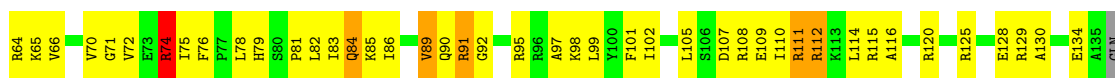
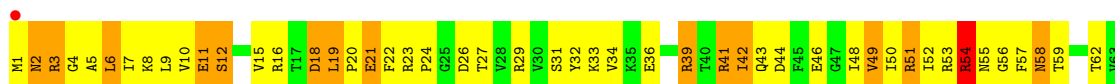
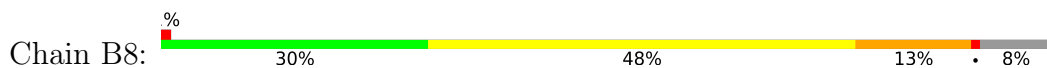




- Molecule 40: 50S ribosomal protein L18



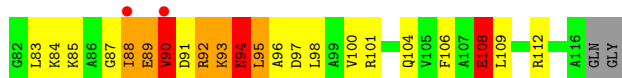
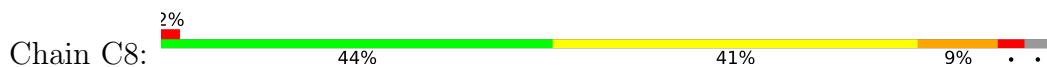
- Molecule 41: 50S ribosomal protein L19



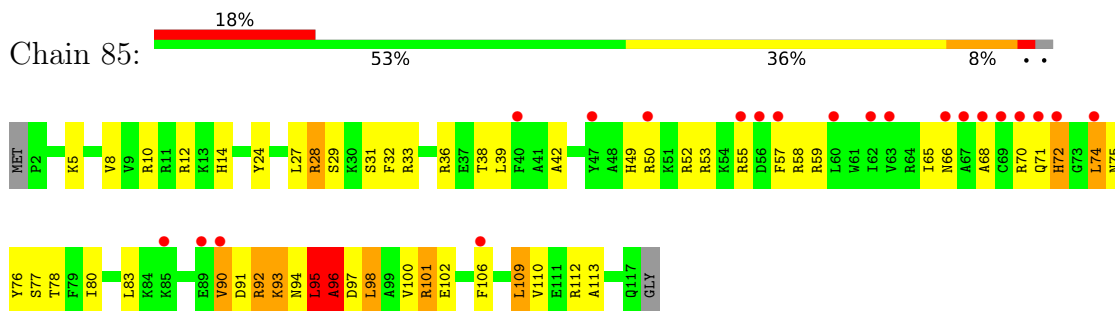
- Molecule 41: 50S ribosomal protein L19



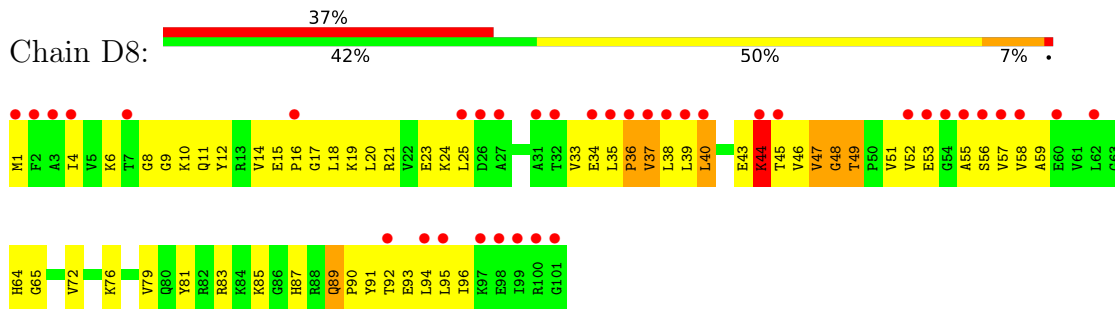
- Molecule 42: 50S ribosomal protein L20



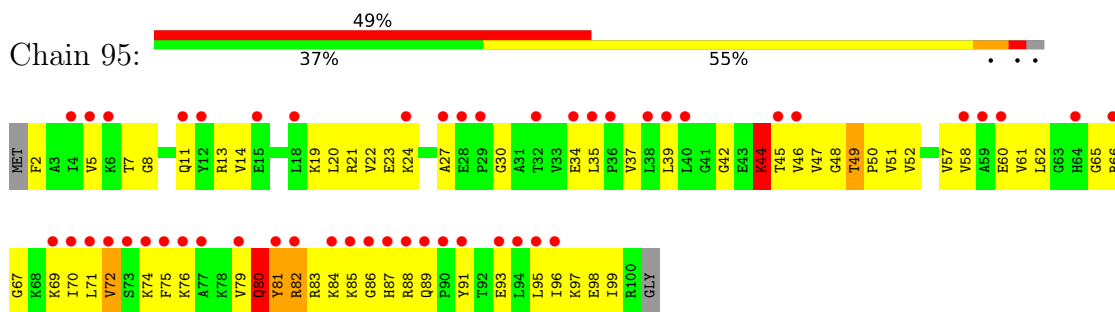
- Molecule 42: 50S ribosomal protein L20



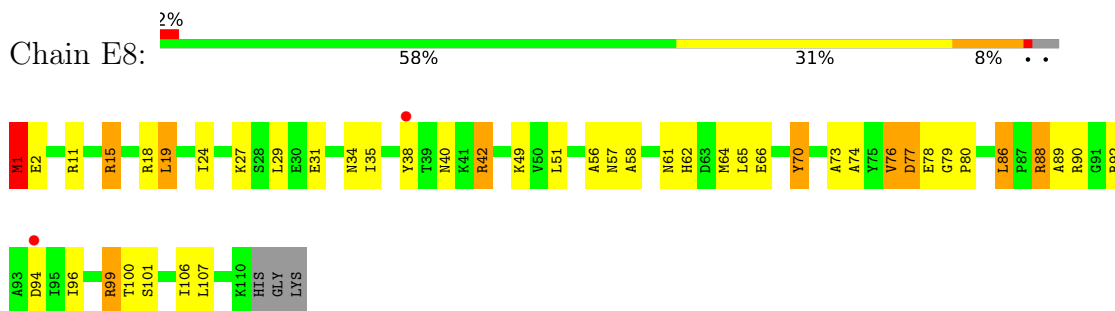
- Molecule 43: 50S ribosomal protein L21



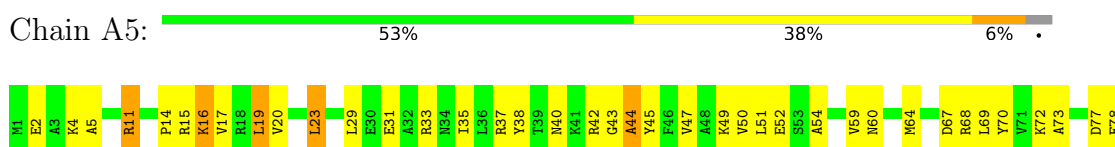
- Molecule 43: 50S ribosomal protein L21



- Molecule 44: 50S ribosomal protein L22

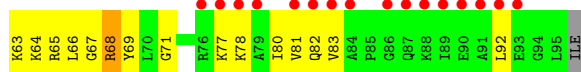
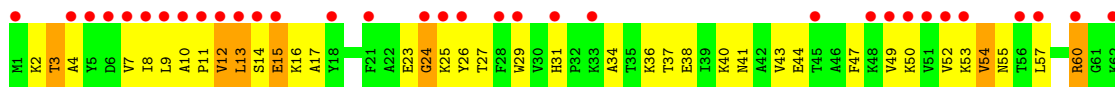
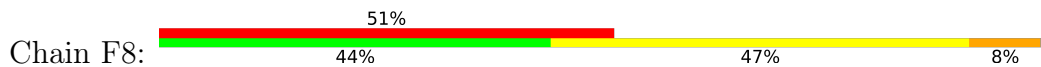


- Molecule 44: 50S ribosomal protein L22

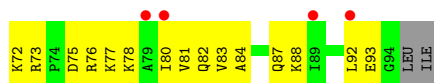
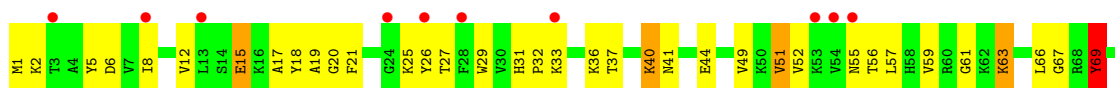




- Molecule 45: 50S ribosomal protein L23



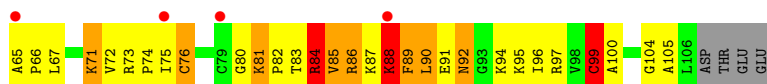
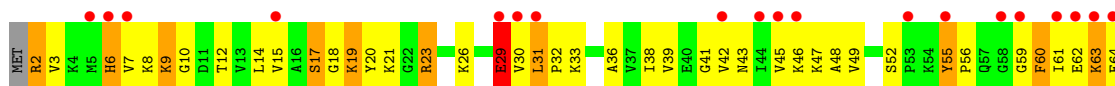
- Molecule 45: 50S ribosomal protein L23



- Molecule 46: 50S ribosomal protein L24

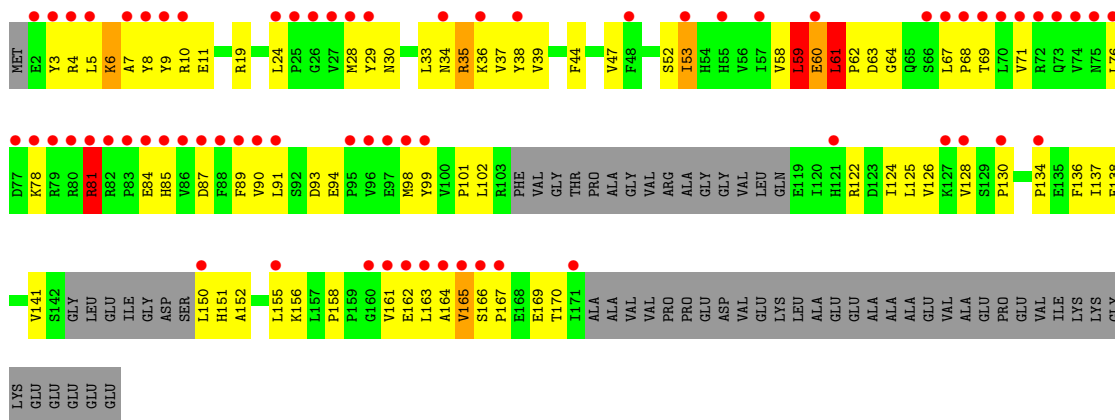


- Molecule 46: 50S ribosomal protein L24

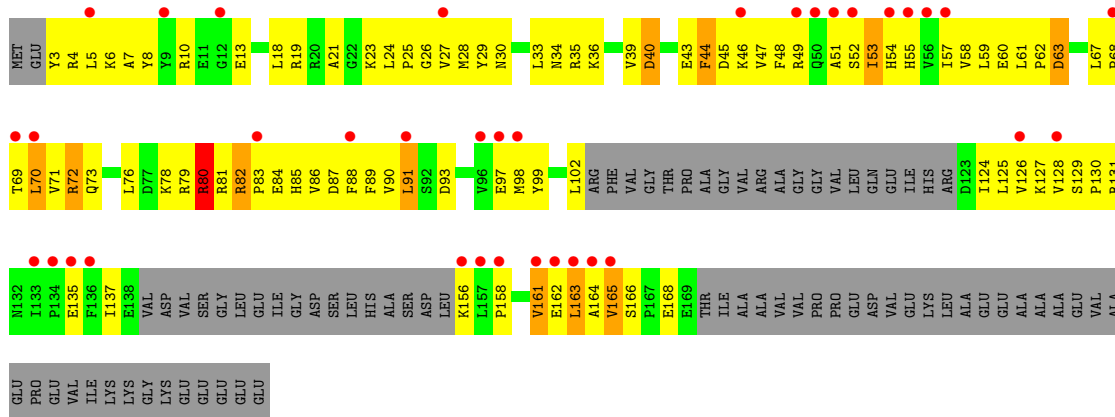
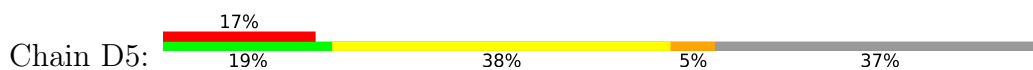


- Molecule 47: 50S ribosomal protein L25

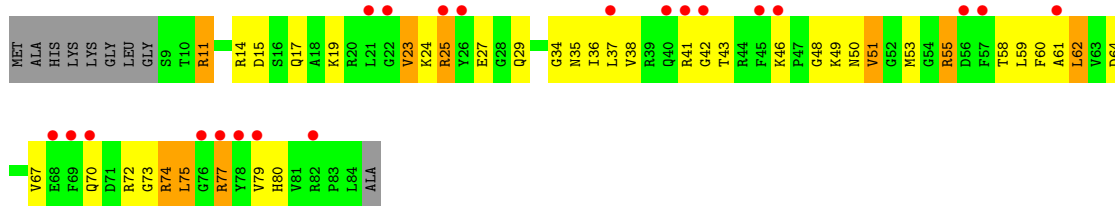
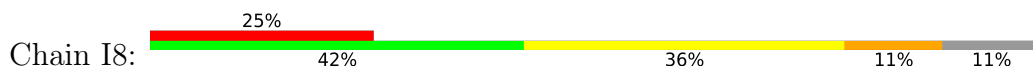




• Molecule 47: 50S ribosomal protein L25

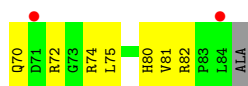


• Molecule 48: 50S ribosomal protein L27



• Molecule 48: 50S ribosomal protein L27

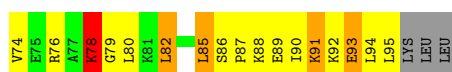
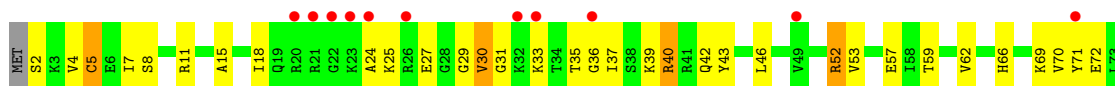




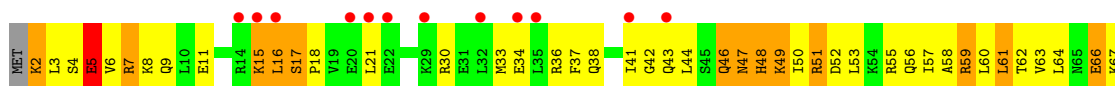
- Molecule 49: 50S ribosomal protein L28



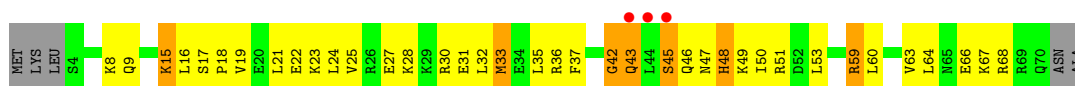
- Molecule 49: 50S ribosomal protein L28



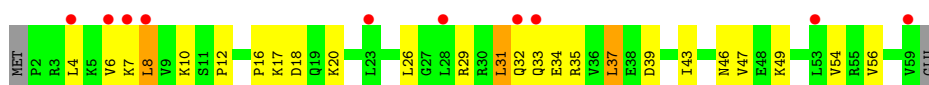
- Molecule 50: 50S ribosomal protein L29



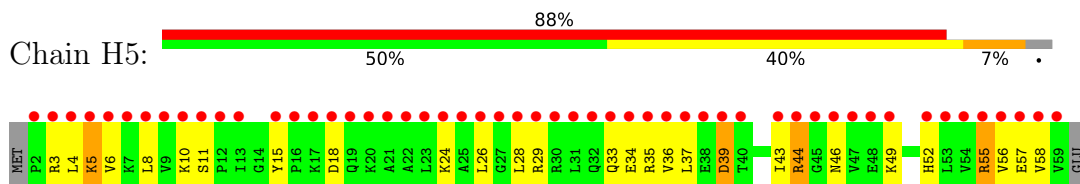
- Molecule 50: 50S ribosomal protein L29



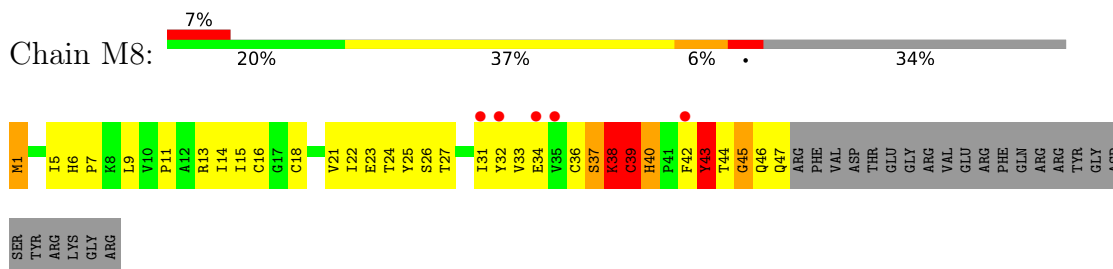
- Molecule 51: 50S ribosomal protein L30



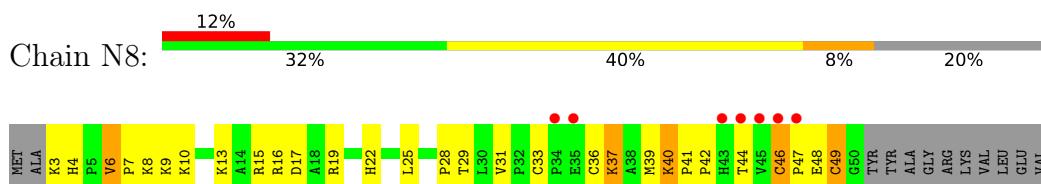
- Molecule 51: 50S ribosomal protein L30



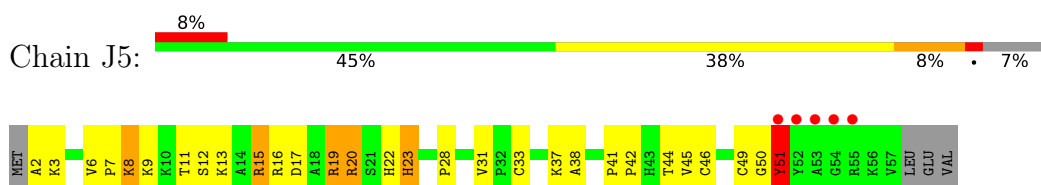
- Molecule 52: 50S ribosomal protein L31



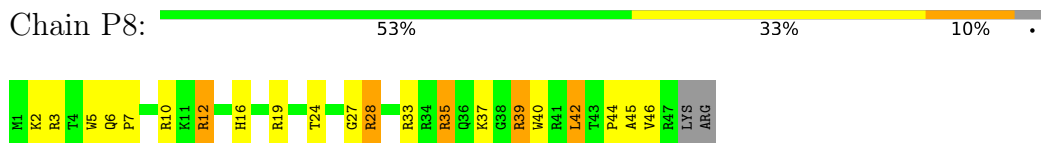
- Molecule 53: 50S ribosomal protein L32



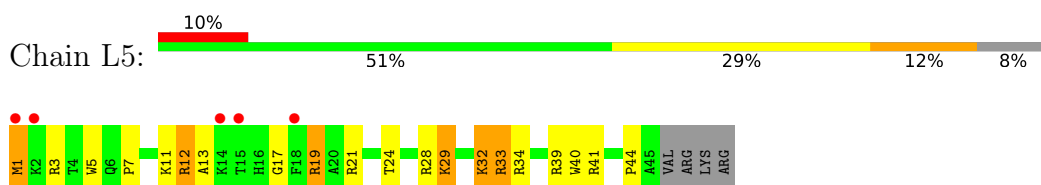
- Molecule 53: 50S ribosomal protein L32



- Molecule 54: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L34

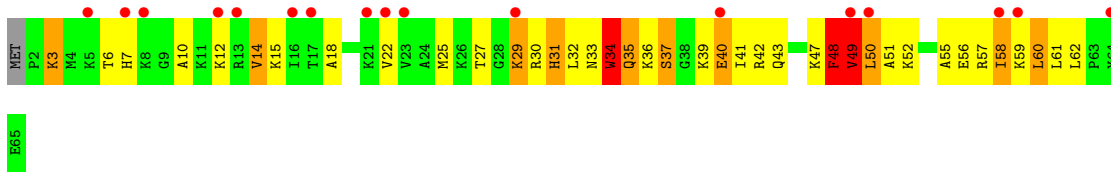


- Molecule 55: 50S ribosomal protein L35

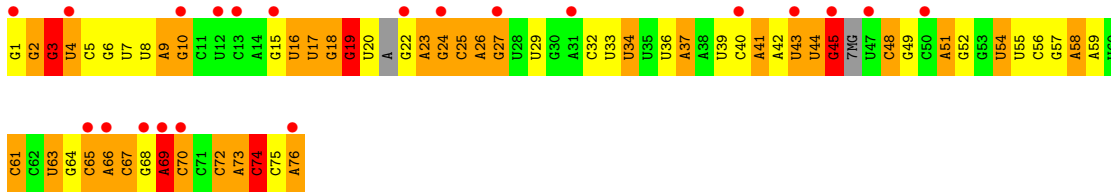
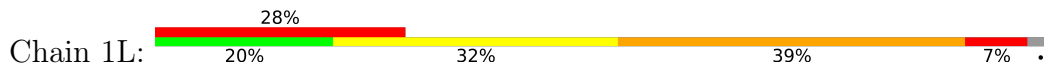




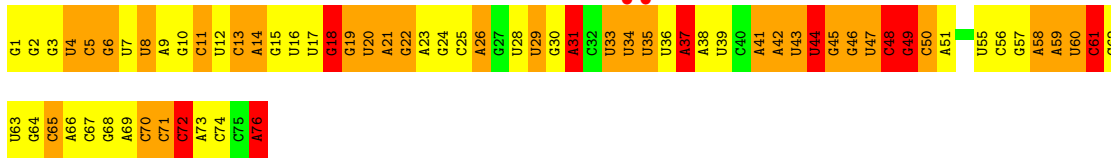
• Molecule 55: 50S ribosomal protein L35



• Molecule 56: tRNA^{Lys}



• Molecule 57: tRNA^{Lys}



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.40Å 447.10Å 616.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	152.44 – 3.15 152.44 – 3.15	Depositor EDS
% Data completeness (in resolution range)	100.0 (152.44-3.15) 92.0 (152.44-3.15)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.84 (at 3.13Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.198 , 0.254 0.193 , 0.253	Depositor DCC
R_{free} test set	2000 reflections (0.20%)	wwPDB-VP
Wilson B-factor (Å ²)	107.7	Xtrriage
Anisotropy	0.223	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 87.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	292607	wwPDB-VP
Average B, all atoms (Å ²)	131.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% 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: ZN, U8U, 4SU, PSU, SF4, G7M, T6A, OMC, 5MU, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	13	1.35	176/35927 (0.5%)	2.42	3309/56065 (5.9%)
1	1G	1.15	83/35987 (0.2%)	2.10	2179/56159 (3.9%)
2	12	0.54	2/1726 (0.1%)	0.74	0/2324
2	1E	0.60	0/1908	0.80	2/2573 (0.1%)
3	22	0.50	1/1552 (0.1%)	0.72	2/2093 (0.1%)
3	2E	0.80	0/1629	0.87	2/2195 (0.1%)
4	32	0.72	1/1732 (0.1%)	0.89	3/2318 (0.1%)
4	3E	0.86	2/1726 (0.1%)	0.90	3/2310 (0.1%)
5	42	0.75	3/1151 (0.3%)	0.76	1/1549 (0.1%)
5	4E	0.85	1/1158 (0.1%)	0.91	1/1559 (0.1%)
6	52	0.75	0/855	0.85	2/1154 (0.2%)
6	5E	0.77	1/850 (0.1%)	0.97	4/1147 (0.3%)
7	62	0.66	1/1122 (0.1%)	0.78	1/1500 (0.1%)
7	6E	0.64	0/1245	0.72	0/1666
8	72	0.57	1/1127 (0.1%)	0.74	1/1517 (0.1%)
8	7E	0.94	4/1135 (0.4%)	0.93	3/1527 (0.2%)
9	82	0.64	1/835 (0.1%)	0.84	1/1120 (0.1%)
9	8E	0.61	0/1019	0.77	0/1367
10	1A	0.56	0/482	0.73	0/647
10	1I	0.73	0/602	0.84	1/806 (0.1%)
11	2A	0.70	1/850 (0.1%)	0.80	1/1150 (0.1%)
11	2I	0.71	0/838	0.88	0/1133
12	3A	0.69	0/963	0.95	3/1290 (0.2%)
12	3I	0.99	2/972 (0.2%)	1.12	2/1301 (0.2%)
13	4A	0.61	0/903	0.87	2/1211 (0.2%)
13	4I	0.79	2/952 (0.2%)	0.89	2/1277 (0.2%)
14	5A	0.63	1/393 (0.3%)	0.91	1/521 (0.2%)
14	5I	0.83	1/500 (0.2%)	0.98	1/664 (0.2%)
15	6A	0.75	2/740 (0.3%)	0.81	0/987
15	6I	0.81	1/740 (0.1%)	0.87	0/987
16	7A	0.77	0/721	0.90	0/970
16	7I	0.74	1/687 (0.1%)	0.86	0/925

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.65	0/836	0.75	0/1117
17	8I	0.85	3/847 (0.4%)	0.89	0/1131
18	9A	0.80	0/549	0.81	1/732 (0.1%)
18	9I	0.68	0/549	0.88	0/732
19	AA	0.54	0/288	0.90	1/388 (0.3%)
19	AI	0.80	0/668	0.93	0/899
20	BA	0.64	0/759	0.86	1/1000 (0.1%)
20	BI	0.57	0/748	0.80	0/986
21	1B	0.57	0/208	0.76	0/272
21	1F	0.56	0/203	0.79	0/266
22	1K	1.14	11/1516 (0.7%)	1.96	70/2350 (3.0%)
23	2K	1.63	25/1721 (1.5%)	2.75	223/2682 (8.3%)
23	2L	1.15	2/1721 (0.1%)	2.03	86/2682 (3.2%)
24	3K	1.13	5/1799 (0.3%)	1.94	76/2801 (2.7%)
25	4K	1.74	7/494 (1.4%)	2.28	40/767 (5.2%)
25	4L	1.44	3/420 (0.7%)	2.11	26/654 (4.0%)
26	14	1.58	825/69023 (1.2%)	2.76	8688/107740 (8.1%)
26	1H	1.84	1510/68273 (2.2%)	3.14	11225/106575 (10.5%)
27	16	1.49	22/2928 (0.8%)	2.87	390/4568 (8.5%)
27	1J	1.26	10/2928 (0.3%)	2.37	253/4568 (5.5%)
28	71	0.68	0/1073	0.78	0/1447
29	11	1.14	8/2170 (0.4%)	1.34	30/2926 (1.0%)
29	19	1.05	3/2170 (0.1%)	1.24	22/2926 (0.8%)
30	21	1.06	9/1591 (0.6%)	1.16	8/2146 (0.4%)
30	29	0.99	5/1591 (0.3%)	1.13	5/2146 (0.2%)
31	31	1.11	8/1620 (0.5%)	1.23	15/2194 (0.7%)
31	39	0.88	2/1637 (0.1%)	1.08	6/2218 (0.3%)
32	41	0.85	4/1481 (0.3%)	1.01	3/1994 (0.2%)
32	49	0.63	0/1481	0.91	4/1994 (0.2%)
33	51	0.96	2/1337 (0.1%)	1.17	6/1809 (0.3%)
33	59	0.67	1/548 (0.2%)	0.82	0/738
34	61	0.70	0/1146	0.89	0/1551
34	69	0.70	2/1146 (0.2%)	0.89	3/1551 (0.2%)
35	15	0.78	0/1123	0.93	2/1515 (0.1%)
35	58	0.90	1/1131 (0.1%)	1.00	3/1525 (0.2%)
36	25	0.90	0/942	1.00	1/1269 (0.1%)
36	68	0.97	0/942	1.11	4/1269 (0.3%)
37	35	1.11	1/1147 (0.1%)	1.16	6/1525 (0.4%)
37	78	1.08	3/1139 (0.3%)	1.33	14/1514 (0.9%)
38	45	0.98	4/1120 (0.4%)	1.06	2/1498 (0.1%)
38	88	1.13	6/1134 (0.5%)	1.22	7/1519 (0.5%)
39	55	0.89	1/981 (0.1%)	1.20	10/1312 (0.8%)
39	98	0.81	0/981	1.13	4/1312 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
40	65	0.76	1/886 (0.1%)	1.04	4/1180 (0.3%)
40	A8	0.95	1/891 (0.1%)	1.26	6/1187 (0.5%)
41	75	0.98	4/1147 (0.3%)	1.10	3/1532 (0.2%)
41	B8	1.10	7/1137 (0.6%)	1.11	5/1519 (0.3%)
42	85	0.83	0/977	1.01	4/1301 (0.3%)
42	C8	1.02	4/968 (0.4%)	1.08	2/1289 (0.2%)
43	95	1.01	4/777 (0.5%)	1.02	0/1042
43	D8	0.93	1/789 (0.1%)	1.08	1/1057 (0.1%)
44	A5	1.05	1/886 (0.1%)	1.15	6/1189 (0.5%)
44	E8	1.03	1/886 (0.1%)	1.21	8/1189 (0.7%)
45	B5	1.08	2/749 (0.3%)	1.09	2/1007 (0.2%)
45	F8	1.17	5/754 (0.7%)	1.27	6/1014 (0.6%)
46	C5	1.09	5/812 (0.6%)	1.08	4/1083 (0.4%)
46	G8	1.33	8/801 (1.0%)	1.34	6/1069 (0.6%)
47	D5	0.84	4/1088 (0.4%)	0.85	2/1473 (0.1%)
47	H8	0.78	1/1244 (0.1%)	0.96	3/1683 (0.2%)
48	E5	0.87	0/624	1.08	1/832 (0.1%)
48	I8	1.12	1/614 (0.2%)	1.28	8/819 (1.0%)
49	F5	0.94	2/744 (0.3%)	1.09	3/989 (0.3%)
49	J8	1.09	4/744 (0.5%)	1.18	5/989 (0.5%)
50	G5	0.80	0/565	0.99	1/748 (0.1%)
50	K8	1.09	0/570	1.43	11/755 (1.5%)
51	H5	0.80	0/464	0.90	0/623
51	L8	0.92	1/464 (0.2%)	1.13	1/623 (0.2%)
52	M8	0.77	0/375	1.08	3/507 (0.6%)
53	J5	0.92	2/448 (0.4%)	1.08	4/606 (0.7%)
53	N8	1.02	1/381 (0.3%)	1.08	0/516
54	L5	0.99	0/399	1.23	3/526 (0.6%)
54	P8	1.17	0/409	1.62	9/540 (1.7%)
55	M5	1.10	5/524 (1.0%)	1.18	4/691 (0.6%)
55	Q8	1.13	1/524 (0.2%)	1.41	9/691 (1.3%)
56	1L	0.76	1/1683 (0.1%)	1.38	20/2615 (0.8%)
57	3L	0.96	7/1777 (0.4%)	1.72	50/2767 (1.8%)
All	All	1.39	2845/315237 (0.9%)	2.39	26956/472471 (5.7%)

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	6

Continued on next page...

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	3
3	22	0	2
3	2E	0	2
4	32	0	4
4	3E	0	1
5	4E	0	1
7	6E	0	1
9	82	0	1
9	8E	0	1
11	2A	0	1
11	2I	0	1
12	3A	0	1
12	3I	0	5
13	4A	0	2
13	4I	0	3
14	5A	0	1
14	5I	0	1
15	6A	0	1
16	7I	0	1
17	8I	0	1
19	AA	0	1
19	AI	0	2
20	BA	0	4
20	BI	0	1
26	14	0	1
28	71	0	1
29	11	0	6
29	19	0	6
30	21	0	11
30	29	0	6
31	31	0	3
31	39	0	11
32	41	0	3
32	49	0	6
33	51	0	3
33	59	0	3
34	61	0	4
34	69	0	6
35	15	0	4
35	58	0	3
37	35	0	4
37	78	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
38	45	0	7
38	88	0	3
40	A8	0	2
41	75	0	2
41	B8	0	4
42	85	0	5
42	C8	0	3
43	95	0	3
43	D8	0	4
44	A5	0	1
45	B5	0	2
45	F8	0	2
46	C5	0	1
46	G8	0	6
47	D5	0	1
47	H8	0	2
48	E5	0	1
49	F5	0	3
49	J8	0	2
50	G5	0	4
50	K8	0	4
52	M8	0	5
54	P8	0	1
55	M5	0	3
55	Q8	0	2
All	All	0	209

The worst 5 of 2845 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	35	121	LYS	C-N	22.50	1.76	1.34
26	1H	783	A	N3-C4	-21.39	1.22	1.34
26	1H	676	A	N9-C4	-19.81	1.25	1.37
26	14	783	A	N9-C4	-18.75	1.26	1.37
26	1H	2346	A	N3-C4	-16.77	1.24	1.34

The worst 5 of 26956 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	14	783	A	C2-N3-C4	-38.22	91.49	110.60
26	1H	783	A	C2-N3-C4	-32.53	94.33	110.60
26	1H	1899	G	C2-N3-C4	-29.93	96.93	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	676	A	C2-N3-C4	-28.68	96.26	110.60
26	14	929	G	N1-C6-O6	25.84	135.40	119.90

There are no chirality outliers.

5 of 209 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	169	LYS	Peptide
2	1E	234	PRO	Peptide
2	1E	9	GLU	Peptide
3	2E	128	PHE	Peptide
3	2E	166	GLU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	13	32097	0	16197	1109	0
1	1G	32152	0	16231	1228	2
2	12	1695	0	1729	133	0
2	1E	1874	0	1926	143	0
3	22	1529	0	1592	134	0
3	2E	1605	0	1668	83	0
4	32	1702	0	1764	160	0
4	3E	1696	0	1752	134	0
5	42	1136	0	1200	105	0
5	4E	1142	0	1204	90	0
6	52	842	0	857	50	0
6	5E	837	0	852	48	0
7	62	1110	0	1163	82	0
7	6E	1229	0	1274	76	0
8	72	1107	0	1165	73	0
8	7E	1115	0	1177	78	0
9	82	820	0	848	83	0
9	8E	1000	0	1031	93	0
10	1A	474	0	484	43	0
10	1I	593	0	610	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	2A	835	0	847	31	0
11	2I	823	0	833	53	0
12	3A	947	0	1033	81	0
12	3I	956	0	1046	47	0
13	4A	893	0	946	85	0
13	4I	942	0	997	66	0
14	5A	388	0	424	47	0
14	5I	491	0	530	37	0
15	6A	729	0	768	35	0
15	6I	729	0	768	52	0
16	7A	705	0	725	55	0
16	7I	671	0	693	60	0
17	8A	823	0	891	37	0
17	8I	834	0	904	56	0
18	9A	544	0	605	35	0
18	9I	544	0	605	33	0
19	AA	283	0	284	22	0
19	AI	654	0	675	55	0
20	BA	757	0	856	56	0
20	BI	746	0	843	56	0
21	1B	204	0	218	18	0
21	1F	199	0	208	10	0
22	1K	1477	0	758	66	0
23	2K	1646	0	844	42	0
23	2L	1646	0	844	59	0
24	3K	1611	0	817	93	0
25	4K	439	0	219	17	0
25	4L	373	0	185	10	0
26	14	61630	0	31047	1916	1
26	1H	60960	0	30668	1946	0
27	16	2617	0	1328	91	0
27	1J	2617	0	1328	133	0
28	7I	1050	0	1071	88	0
29	11	2120	0	2197	169	0
29	19	2120	0	2197	169	0
30	21	1558	0	1624	120	0
30	29	1558	0	1622	186	0
31	31	1585	0	1632	121	0
31	39	1602	0	1649	122	0
32	41	1457	0	1514	130	0
32	49	1457	0	1514	161	0
33	51	1312	0	1384	87	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	59	539	0	563	41	0
34	61	1131	0	1218	80	1
34	69	1131	0	1218	86	0
35	15	1096	0	1168	60	0
35	58	1104	0	1180	75	0
36	25	932	0	996	65	0
36	68	932	0	996	50	0
37	35	1130	0	1217	140	0
37	78	1122	0	1206	122	0
38	45	1099	0	1153	112	0
38	88	1113	0	1156	82	0
39	55	967	0	1033	57	0
39	98	967	0	1033	62	0
40	65	876	0	938	85	0
40	A8	881	0	943	86	0
41	75	1133	0	1190	80	0
41	B8	1123	0	1181	105	0
42	85	959	0	1019	68	0
42	C8	950	0	1011	82	0
43	95	766	0	837	77	0
43	D8	778	0	851	80	0
44	A5	876	0	941	41	0
44	E8	876	0	941	46	0
45	B5	735	0	785	54	0
45	F8	740	0	787	50	0
46	C5	799	0	888	79	0
46	G8	788	0	875	88	0
47	D5	1064	0	1082	88	0
47	H8	1218	0	1241	75	0
48	E5	616	0	633	49	0
48	I8	606	0	625	40	0
49	F5	737	0	813	60	0
49	J8	737	0	813	50	0
50	G5	563	0	612	35	0
50	K8	568	0	614	47	0
51	H5	459	0	512	19	0
51	L8	459	0	512	20	0
52	M8	366	0	370	49	0
53	J5	434	0	454	33	0
53	N8	369	0	388	44	0
54	L5	391	0	432	22	0
54	P8	401	0	436	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	M5	516	0	582	50	0
55	Q8	516	0	582	54	0
56	1L	1570	0	798	39	0
57	3L	1611	0	817	69	0
58	11	1	0	0	0	0
58	13	141	0	0	0	0
58	14	420	0	0	0	0
58	16	12	0	0	0	0
58	1G	78	0	0	0	0
58	1H	488	0	0	0	0
58	1J	6	0	0	0	0
58	21	2	0	0	0	0
58	29	3	0	0	0	0
58	2K	3	0	0	0	0
58	2L	3	0	0	0	0
58	32	1	0	0	0	0
58	35	1	0	0	0	0
58	3I	1	0	0	0	0
58	41	1	0	0	0	0
58	45	3	0	0	0	0
58	55	1	0	0	0	0
58	5E	2	0	0	0	0
58	5I	1	0	0	0	0
58	78	1	0	0	0	0
58	7A	1	0	0	0	0
58	85	2	0	0	0	0
58	88	1	0	0	0	0
58	C5	1	0	0	0	0
58	C8	1	0	0	0	0
58	E5	1	0	0	0	0
58	I8	1	0	0	0	0
58	J8	2	0	0	0	0
58	L5	1	0	0	0	0
58	P8	1	0	0	0	0
58	Q8	1	0	0	0	0
59	32	8	0	0	4	0
59	3E	8	0	0	0	0
60	5A	1	0	0	0	0
60	5I	1	0	0	0	0
60	C5	1	0	0	0	0
60	G8	1	0	0	0	0
61	11	9	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	13	148	0	0	21	0
61	14	411	0	0	57	0
61	16	18	0	0	4	0
61	19	4	0	0	2	0
61	1G	44	0	0	6	0
61	1H	670	0	0	78	0
61	1J	11	0	0	2	0
61	1K	1	0	0	0	0
61	21	5	0	0	2	0
61	29	3	0	0	0	0
61	31	6	0	0	0	0
61	35	2	0	0	0	0
61	39	8	0	0	0	0
61	3E	2	0	0	1	0
61	3I	2	0	0	0	0
61	4K	6	0	0	0	0
61	55	1	0	0	0	0
61	58	2	0	0	0	0
61	5A	3	0	0	2	0
61	5I	1	0	0	0	0
61	6I	1	0	0	0	0
61	78	3	0	0	1	0
61	B8	1	0	0	0	0
61	BA	1	0	0	0	0
61	D8	1	0	0	0	0
61	E5	1	0	0	0	0
61	E8	1	0	0	0	0
61	F5	2	0	0	0	0
61	G8	1	0	0	0	0
61	I8	1	0	0	0	0
61	L5	1	0	0	0	0
61	M5	2	0	0	0	0
61	Q8	1	0	0	0	0
All	All	292607	0	194505	12060	2

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 26.

The worst 5 of 12060 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)
46:G8:84:ARG:CB	46:G8:84:ARG:CG	1.75	1.63
46:G8:84:ARG:CG	46:G8:84:ARG:CD	1.76	1.61
29:19:246:PRO:N	29:19:255:LYS:HZ1	1.10	1.44
3:22:29:TYR:CE1	3:22:33:LEU:HD22	1.61	1.35
37:35:121:LYS:C	37:35:122:PRO:N	1.77	1.35

All (2) 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)
1:1G:82:U:O2'	26:14:271(C):U:O4[3_545]	1.99	0.21
34:61:89:TYR:O	1:1G:357:G:O2'[4_555]	2.19	0.01

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	202/256 (79%)	170 (84%)	26 (13%)	6 (3%)	4	24
2	1E	227/256 (89%)	194 (86%)	28 (12%)	5 (2%)	6	32
3	22	190/239 (80%)	167 (88%)	22 (12%)	1 (0%)	29	65
3	2E	203/239 (85%)	183 (90%)	20 (10%)	0	100	100
4	32	206/209 (99%)	181 (88%)	22 (11%)	3 (2%)	10	41
4	3E	205/209 (98%)	189 (92%)	14 (7%)	2 (1%)	15	51
5	42	147/162 (91%)	136 (92%)	11 (8%)	0	100	100
5	4E	147/162 (91%)	137 (93%)	9 (6%)	1 (1%)	22	59
6	52	99/101 (98%)	94 (95%)	5 (5%)	0	100	100
6	5E	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
7	62	134/156 (86%)	121 (90%)	13 (10%)	0	100	100
7	6E	147/156 (94%)	141 (96%)	6 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	72	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	22	59
8	7E	136/138 (99%)	125 (92%)	10 (7%)	1 (1%)	22	59
9	82	101/128 (79%)	88 (87%)	11 (11%)	2 (2%)	7	34
9	8E	124/128 (97%)	103 (83%)	20 (16%)	1 (1%)	19	55
10	1A	54/105 (51%)	46 (85%)	8 (15%)	0	100	100
10	1I	66/105 (63%)	58 (88%)	6 (9%)	2 (3%)	4	24
11	2A	111/129 (86%)	97 (87%)	12 (11%)	2 (2%)	8	37
11	2I	109/129 (84%)	94 (86%)	13 (12%)	2 (2%)	8	37
12	3A	119/132 (90%)	97 (82%)	17 (14%)	5 (4%)	3	17
12	3I	120/132 (91%)	103 (86%)	16 (13%)	1 (1%)	19	55
13	4A	109/126 (86%)	93 (85%)	15 (14%)	1 (1%)	17	53
13	4I	117/126 (93%)	97 (83%)	20 (17%)	0	100	100
14	5A	44/61 (72%)	37 (84%)	7 (16%)	0	100	100
14	5I	58/61 (95%)	48 (83%)	8 (14%)	2 (3%)	3	21
15	6A	85/89 (96%)	77 (91%)	8 (9%)	0	100	100
15	6I	85/89 (96%)	74 (87%)	11 (13%)	0	100	100
16	7A	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
16	7I	78/88 (89%)	73 (94%)	5 (6%)	0	100	100
17	8A	97/105 (92%)	91 (94%)	6 (6%)	0	100	100
17	8I	98/105 (93%)	91 (93%)	7 (7%)	0	100	100
18	9A	65/88 (74%)	62 (95%)	3 (5%)	0	100	100
18	9I	65/88 (74%)	60 (92%)	4 (6%)	1 (2%)	10	41
19	AA	32/93 (34%)	25 (78%)	6 (19%)	1 (3%)	4	23
19	AI	79/93 (85%)	66 (84%)	11 (14%)	2 (2%)	5	29
20	BA	96/106 (91%)	81 (84%)	12 (12%)	3 (3%)	4	23
20	BI	95/106 (90%)	80 (84%)	15 (16%)	0	100	100
21	1B	21/27 (78%)	21 (100%)	0	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	71	131/229 (57%)	121 (92%)	9 (7%)	1 (1%)	19	55
29	11	271/276 (98%)	233 (86%)	26 (10%)	12 (4%)	2	16
29	19	271/276 (98%)	245 (90%)	19 (7%)	7 (3%)	5	28

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	21	201/206 (98%)	158 (79%)	34 (17%)	9 (4%)	2	16
30	29	201/206 (98%)	153 (76%)	37 (18%)	11 (6%)	2	12
31	31	200/210 (95%)	176 (88%)	22 (11%)	2 (1%)	15	51
31	39	202/210 (96%)	158 (78%)	36 (18%)	8 (4%)	3	18
32	41	177/182 (97%)	154 (87%)	18 (10%)	5 (3%)	5	26
32	49	177/182 (97%)	152 (86%)	23 (13%)	2 (1%)	14	48
33	51	169/180 (94%)	135 (80%)	20 (12%)	14 (8%)	1	4
33	59	63/180 (35%)	44 (70%)	13 (21%)	6 (10%)	0	3
34	61	143/148 (97%)	118 (82%)	24 (17%)	1 (1%)	22	59
34	69	143/148 (97%)	111 (78%)	27 (19%)	5 (4%)	3	21
35	15	135/140 (96%)	119 (88%)	13 (10%)	3 (2%)	6	32
35	58	136/140 (97%)	117 (86%)	15 (11%)	4 (3%)	4	25
36	25	120/122 (98%)	110 (92%)	9 (8%)	1 (1%)	19	55
36	68	120/122 (98%)	110 (92%)	10 (8%)	0	100	100
37	35	146/150 (97%)	111 (76%)	31 (21%)	4 (3%)	5	27
37	78	145/150 (97%)	116 (80%)	21 (14%)	8 (6%)	2	12
38	45	136/141 (96%)	109 (80%)	23 (17%)	4 (3%)	4	25
38	88	139/141 (99%)	115 (83%)	17 (12%)	7 (5%)	2	14
39	55	116/118 (98%)	109 (94%)	6 (5%)	1 (1%)	17	53
39	98	116/118 (98%)	93 (80%)	22 (19%)	1 (1%)	17	53
40	65	108/112 (96%)	87 (81%)	18 (17%)	3 (3%)	5	26
40	A8	109/112 (97%)	89 (82%)	19 (17%)	1 (1%)	17	53
41	75	134/146 (92%)	121 (90%)	13 (10%)	0	100	100
41	B8	133/146 (91%)	117 (88%)	14 (10%)	2 (2%)	10	41
42	85	114/118 (97%)	99 (87%)	13 (11%)	2 (2%)	8	37
42	C8	113/118 (96%)	104 (92%)	5 (4%)	4 (4%)	3	21
43	95	97/101 (96%)	77 (79%)	16 (16%)	4 (4%)	3	18
43	D8	99/101 (98%)	89 (90%)	7 (7%)	3 (3%)	4	24
44	A5	108/113 (96%)	100 (93%)	7 (6%)	1 (1%)	17	53
44	E8	108/113 (96%)	97 (90%)	11 (10%)	0	100	100
45	B5	92/96 (96%)	85 (92%)	5 (5%)	2 (2%)	6	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	F8	93/96 (97%)	82 (88%)	10 (11%)	1 (1%)	14	48
46	C5	103/110 (94%)	70 (68%)	26 (25%)	7 (7%)	1	7
46	G8	102/110 (93%)	80 (78%)	16 (16%)	6 (6%)	1	11
47	D5	124/206 (60%)	96 (77%)	25 (20%)	3 (2%)	6	30
47	H8	142/206 (69%)	112 (79%)	22 (16%)	8 (6%)	2	12
48	E5	76/85 (89%)	66 (87%)	8 (10%)	2 (3%)	5	28
48	I8	74/85 (87%)	68 (92%)	6 (8%)	0	100	100
49	F5	92/98 (94%)	83 (90%)	7 (8%)	2 (2%)	6	32
49	J8	92/98 (94%)	84 (91%)	6 (6%)	2 (2%)	6	32
50	G5	65/72 (90%)	61 (94%)	3 (5%)	1 (2%)	10	41
50	K8	66/72 (92%)	55 (83%)	7 (11%)	4 (6%)	1	10
51	H5	56/60 (93%)	53 (95%)	3 (5%)	0	100	100
51	L8	56/60 (93%)	53 (95%)	3 (5%)	0	100	100
52	M8	45/71 (63%)	28 (62%)	15 (33%)	2 (4%)	2	16
53	J5	54/60 (90%)	46 (85%)	8 (15%)	0	100	100
53	N8	46/60 (77%)	42 (91%)	4 (9%)	0	100	100
54	L5	43/49 (88%)	39 (91%)	4 (9%)	0	100	100
54	P8	45/49 (92%)	41 (91%)	3 (7%)	1 (2%)	6	32
55	M5	62/65 (95%)	52 (84%)	7 (11%)	3 (5%)	2	15
55	Q8	62/65 (95%)	48 (77%)	10 (16%)	4 (6%)	1	8
All	All	10778/12104 (89%)	9303 (86%)	1246 (12%)	229 (2%)	7	33

5 of 229 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	2I	91	ARG
18	9I	22	VAL
19	AI	67	VAL
29	11	28	GLU
29	11	40	THR

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	180/220 (82%)	164 (91%)	16 (9%)	9	33
2	1E	200/220 (91%)	181 (90%)	19 (10%)	8	30
3	22	153/188 (81%)	143 (94%)	10 (6%)	17	48
3	2E	159/188 (85%)	148 (93%)	11 (7%)	15	46
4	32	180/181 (99%)	165 (92%)	15 (8%)	11	37
4	3E	179/181 (99%)	167 (93%)	12 (7%)	16	47
5	42	114/123 (93%)	106 (93%)	8 (7%)	15	45
5	4E	115/123 (94%)	106 (92%)	9 (8%)	12	40
6	52	90/90 (100%)	81 (90%)	9 (10%)	7	28
6	5E	90/90 (100%)	87 (97%)	3 (3%)	38	69
7	62	114/127 (90%)	101 (89%)	13 (11%)	5	23
7	6E	125/127 (98%)	118 (94%)	7 (6%)	21	53
8	72	118/119 (99%)	112 (95%)	6 (5%)	24	56
8	7E	119/119 (100%)	111 (93%)	8 (7%)	16	47
9	82	79/99 (80%)	69 (87%)	10 (13%)	4	19
9	8E	97/99 (98%)	90 (93%)	7 (7%)	14	43
10	1A	52/92 (56%)	48 (92%)	4 (8%)	13	41
10	1I	65/92 (71%)	62 (95%)	3 (5%)	27	60
11	2A	85/99 (86%)	82 (96%)	3 (4%)	36	67
11	2I	84/99 (85%)	81 (96%)	3 (4%)	35	67
12	3A	102/109 (94%)	95 (93%)	7 (7%)	15	46
12	3I	103/109 (94%)	95 (92%)	8 (8%)	12	40
13	4A	91/101 (90%)	85 (93%)	6 (7%)	16	47
13	4I	94/101 (93%)	87 (93%)	7 (7%)	13	43
14	5A	40/50 (80%)	36 (90%)	4 (10%)	7	28
14	5I	49/50 (98%)	48 (98%)	1 (2%)	55	79
15	6A	79/80 (99%)	75 (95%)	4 (5%)	24	56
15	6I	79/80 (99%)	75 (95%)	4 (5%)	24	56
16	7A	72/74 (97%)	70 (97%)	2 (3%)	43	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	7I	69/74 (93%)	63 (91%)	6 (9%)	10	34
17	8A	94/97 (97%)	90 (96%)	4 (4%)	29	62
17	8I	95/97 (98%)	91 (96%)	4 (4%)	30	62
18	9A	58/77 (75%)	56 (97%)	2 (3%)	37	68
18	9I	58/77 (75%)	57 (98%)	1 (2%)	60	82
19	AA	31/80 (39%)	28 (90%)	3 (10%)	8	29
19	AI	71/80 (89%)	66 (93%)	5 (7%)	15	45
20	BA	76/82 (93%)	74 (97%)	2 (3%)	46	74
20	BI	75/82 (92%)	72 (96%)	3 (4%)	31	64
21	1B	19/22 (86%)	18 (95%)	1 (5%)	22	55
21	1F	18/22 (82%)	18 (100%)	0	100	100
28	7I	111/181 (61%)	106 (96%)	5 (4%)	27	61
29	11	214/218 (98%)	205 (96%)	9 (4%)	30	62
29	19	214/218 (98%)	204 (95%)	10 (5%)	26	60
30	21	165/166 (99%)	159 (96%)	6 (4%)	35	67
30	29	165/166 (99%)	155 (94%)	10 (6%)	18	50
31	31	161/166 (97%)	153 (95%)	8 (5%)	24	57
31	39	163/166 (98%)	153 (94%)	10 (6%)	18	50
32	41	153/156 (98%)	136 (89%)	17 (11%)	6	24
32	49	153/156 (98%)	134 (88%)	19 (12%)	4	20
33	51	142/148 (96%)	134 (94%)	8 (6%)	21	53
33	59	56/148 (38%)	53 (95%)	3 (5%)	22	55
34	61	122/124 (98%)	112 (92%)	10 (8%)	11	38
34	69	122/124 (98%)	114 (93%)	8 (7%)	16	47
35	15	116/119 (98%)	112 (97%)	4 (3%)	37	68
35	58	117/119 (98%)	109 (93%)	8 (7%)	16	46
36	25	100/100 (100%)	92 (92%)	8 (8%)	12	39
36	68	100/100 (100%)	96 (96%)	4 (4%)	31	64
37	35	115/116 (99%)	110 (96%)	5 (4%)	29	62
37	78	114/116 (98%)	107 (94%)	7 (6%)	18	50
38	45	109/111 (98%)	96 (88%)	13 (12%)	5	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	88	109/111 (98%)	104 (95%)	5 (5%)	27	60
39	55	101/101 (100%)	94 (93%)	7 (7%)	15	46
39	98	101/101 (100%)	98 (97%)	3 (3%)	41	71
40	65	87/88 (99%)	81 (93%)	6 (7%)	15	46
40	A8	87/88 (99%)	78 (90%)	9 (10%)	7	26
41	75	119/127 (94%)	105 (88%)	14 (12%)	5	21
41	B8	118/127 (93%)	106 (90%)	12 (10%)	7	27
42	85	93/94 (99%)	85 (91%)	8 (9%)	10	35
42	C8	92/94 (98%)	82 (89%)	10 (11%)	6	24
43	95	81/82 (99%)	76 (94%)	5 (6%)	18	50
43	D8	82/82 (100%)	76 (93%)	6 (7%)	14	43
44	A5	90/92 (98%)	84 (93%)	6 (7%)	16	47
44	E8	90/92 (98%)	84 (93%)	6 (7%)	16	47
45	B5	74/78 (95%)	72 (97%)	2 (3%)	44	73
45	F8	74/78 (95%)	70 (95%)	4 (5%)	22	55
46	C5	85/91 (93%)	72 (85%)	13 (15%)	2	12
46	G8	84/91 (92%)	79 (94%)	5 (6%)	19	51
47	D5	118/179 (66%)	107 (91%)	11 (9%)	9	31
47	H8	137/179 (76%)	133 (97%)	4 (3%)	42	72
48	E5	62/67 (92%)	56 (90%)	6 (10%)	8	29
48	I8	61/67 (91%)	58 (95%)	3 (5%)	25	59
49	F5	79/83 (95%)	76 (96%)	3 (4%)	33	65
49	J8	79/83 (95%)	75 (95%)	4 (5%)	24	56
50	G5	62/67 (92%)	60 (97%)	2 (3%)	39	70
50	K8	62/67 (92%)	56 (90%)	6 (10%)	8	29
51	H5	50/52 (96%)	44 (88%)	6 (12%)	5	21
51	L8	50/52 (96%)	48 (96%)	2 (4%)	31	64
52	M8	42/63 (67%)	40 (95%)	2 (5%)	25	59
53	J5	48/52 (92%)	44 (92%)	4 (8%)	11	37
53	N8	43/52 (83%)	38 (88%)	5 (12%)	5	22
54	L5	38/42 (90%)	32 (84%)	6 (16%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
54	P8	38/42 (90%)	38 (100%)	0	100	100
55	M5	54/55 (98%)	49 (91%)	5 (9%)	9	31
55	Q8	54/55 (98%)	49 (91%)	5 (9%)	9	31
All	All	9127/10012 (91%)	8510 (93%)	617 (7%)	16	46

5 of 617 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
32	49	116	ASP
46	C5	99	CYS
34	69	25	TYR
32	49	113	ARG
40	65	12	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 33 such sidechains are listed below:

Mol	Chain	Res	Type
40	65	38	GLN
50	G5	9	GLN
50	G5	56	GLN
47	H8	85	HIS
44	E8	34	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1488/1522 (97%)	386 (25%)	35 (2%)
1	1G	1492/1522 (98%)	427 (28%)	39 (2%)
22	1K	64/76 (84%)	41 (64%)	2 (3%)
23	2K	76/77 (98%)	23 (30%)	2 (2%)
23	2L	76/77 (98%)	21 (27%)	2 (2%)
24	3K	75/76 (98%)	40 (53%)	4 (5%)
25	4K	18/27 (66%)	9 (50%)	2 (11%)
25	4L	16/27 (59%)	9 (56%)	1 (6%)
26	14	2852/2912 (97%)	788 (27%)	58 (2%)
26	1H	2824/2912 (96%)	736 (26%)	78 (2%)
27	16	121/122 (99%)	27 (22%)	1 (0%)
27	1J	121/122 (99%)	41 (33%)	2 (1%)
56	1L	71/76 (93%)	40 (56%)	5 (7%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
57	3L	75/76 (98%)	40 (53%)	1 (1%)
All	All	9369/9624 (97%)	2628 (28%)	232 (2%)

5 of 2628 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	5	U
1	13	6	G
1	13	8	A
1	13	9	G

5 of 232 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
26	1H	2481	G
26	14	2611	U
1	1G	889	A
26	14	2447	G
26	14	1420	U

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

19 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	1K	39	22	18,21,22	1.11	2 (11%)	22,30,33	1.78	5 (22%)
22	PSU	1K	55	22	18,21,22	1.23	1 (5%)	22,30,33	1.83	4 (18%)
22	U8U	1K	34	25,22	19,24,25	2.66	6 (31%)	23,34,37	1.52	4 (17%)
23	G7M	2K	47	23	20,26,27	2.46	6 (30%)	17,39,42	1.21	2 (11%)
23	5MU	2L	55	23	19,22,23	4.07	5 (26%)	28,32,35	3.14	11 (39%)
23	G7M	2L	47	23	20,26,27	2.29	7 (35%)	17,39,42	1.13	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
56	PSU	1L	39	56	18,21,22	1.11	2 (11%)	22,30,33	1.50	4 (18%)
22	T6A	1K	37	22	27,34,35	2.84	9 (33%)	29,49,52	3.63	10 (34%)
23	PSU	2L	56	23	18,21,22	1.28	2 (11%)	22,30,33	1.83	4 (18%)
22	5MU	1K	54	22	19,22,23	3.95	5 (26%)	28,32,35	2.86	9 (32%)
56	5MU	1L	54	56	19,22,23	3.81	5 (26%)	28,32,35	3.23	11 (39%)
23	4SU	2L	8	23	18,21,22	1.87	4 (22%)	26,30,33	2.83	7 (26%)
23	PSU	2K	56	23	18,21,22	1.37	2 (11%)	22,30,33	2.43	5 (22%)
23	OMC	2K	33	23	19,22,23	1.67	3 (15%)	26,31,34	1.39	3 (11%)
56	PSU	1L	55	56	18,21,22	1.32	1 (5%)	22,30,33	1.82	4 (18%)
23	5MU	2K	55	23	19,22,23	3.95	5 (26%)	28,32,35	3.43	9 (32%)
57	PSU	3L	39	57	18,21,22	1.11	1 (5%)	22,30,33	1.53	3 (13%)
23	4SU	2K	8	23	18,21,22	1.84	3 (16%)	26,30,33	2.38	7 (26%)
23	OMC	2L	33	23	19,22,23	1.96	3 (15%)	26,31,34	1.56	4 (15%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	PSU	1K	39	22	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
22	U8U	1K	34	25,22	-	4/9/28/29	0/2/2/2
23	G7M	2K	47	23	-	1/3/25/26	0/3/3/3
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
23	G7M	2L	47	23	-	2/3/25/26	0/3/3/3
56	PSU	1L	39	56	-	2/7/25/26	0/2/2/2
22	T6A	1K	37	22	-	4/19/41/42	0/3/3/3
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
22	5MU	1K	54	22	-	2/7/25/26	0/2/2/2
56	5MU	1L	54	56	-	0/7/25/26	0/2/2/2
23	4SU	2L	8	23	-	0/7/25/26	0/2/2/2
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	3/9/27/28	0/2/2/2
56	PSU	1L	55	56	-	2/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	2/7/25/26	0/2/2/2
57	PSU	3L	39	57	-	0/7/25/26	0/2/2/2
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	OMC	2L	33	23	-	2/9/27/28	0/2/2/2

The worst 5 of 72 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	55	5MU	C2-N1	13.10	1.59	1.38
23	2K	55	5MU	C2-N1	12.95	1.59	1.38
22	1K	54	5MU	C2-N1	12.38	1.58	1.38
56	1L	54	5MU	C2-N1	11.97	1.57	1.38
22	1K	37	T6A	C10-N11	7.71	1.52	1.35

The worst 5 of 107 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	1L	54	5MU	C5-C4-N3	10.94	124.65	115.31
22	1K	37	T6A	N3-C2-N1	-9.86	113.27	128.68
23	2K	55	5MU	C5-C4-N3	9.59	123.50	115.31
22	1K	54	5MU	C5-C4-N3	9.15	123.12	115.31
23	2L	8	4SU	C4-N3-C2	-9.09	118.50	127.34

There are no chirality outliers.

5 of 24 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1K	34	U8U	N-C-C5-C4
22	1K	34	U8U	N-C-C5-C6
22	1K	37	T6A	C13-C12-C14-O14
22	1K	37	T6A	C13-C12-C14-C15
23	2L	47	G7M	O4'-C4'-C5'-O5'

There are no ring outliers.

13 monomers are involved in 26 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	1K	55	PSU	1	0
22	1K	34	U8U	3	0
23	2K	47	G7M	2	0
23	2L	55	5MU	4	0
23	2L	47	G7M	3	0
22	1K	37	T6A	1	0
22	1K	54	5MU	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
56	1L	54	5MU	2	0
23	2L	8	4SU	1	0
23	2K	33	OMC	3	0
23	2K	55	5MU	3	0
23	2K	8	4SU	1	0
23	2L	33	OMC	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1188 ligands modelled in this entry, 1186 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
59	SF4	32	302	4	0,12,12	-	-	-		
59	SF4	3E	301	4	0,12,12	-	-	-		

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	SF4	32	302	4	-	-	0/6/5/5
59	SF4	3E	301	4	-	-	0/6/5/5

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.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	32	302	SF4	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
25	4K	1
37	35	1
38	45	1
5	4E	1
38	88	1
4	3E	1

The worst 5 of 6 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4K	24:A	O3'	25:A	P	4.44
1	35	121:LYS	C	122:PRO	N	1.77
1	45	124:LYS	C	125:LEU	N	1.15
1	4E	69:VAL	C	70:PRO	N	1.12
1	88	124:LYS	C	125:LEU	N	1.12

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	1493/1522 (98%)	-0.64	0 100 100	83, 129, 202, 287	0
1	1G	1496/1522 (98%)	-0.44	11 (0%) 87 81	100, 152, 223, 279	0
2	12	206/256 (80%)	0.24	28 (13%) 3 2	173, 206, 218, 228	0
2	1E	231/256 (90%)	0.85	46 (19%) 1 0	140, 173, 197, 207	0
3	22	194/239 (81%)	1.00	44 (22%) 0 0	172, 196, 209, 214	0
3	2E	205/239 (85%)	0.59	27 (13%) 3 2	115, 136, 165, 176	0
4	32	208/209 (99%)	1.17	55 (26%) 0 0	129, 152, 173, 183	0
4	3E	207/209 (99%)	0.77	46 (22%) 0 0	104, 131, 154, 164	0
5	42	149/162 (91%)	0.15	6 (4%) 38 23	138, 160, 177, 190	0
5	4E	149/162 (91%)	-0.19	0 100 100	104, 125, 147, 155	0
6	52	101/101 (100%)	0.21	5 (4%) 28 15	119, 135, 156, 163	0
6	5E	100/101 (99%)	3.74	77 (77%) 0 0	103, 129, 149, 159	0
7	62	138/156 (88%)	0.04	12 (8%) 10 5	150, 164, 173, 181	0
7	6E	151/156 (96%)	-0.83	0 100 100	134, 150, 170, 179	0
8	72	137/138 (99%)	-0.74	0 100 100	136, 164, 180, 190	0
8	7E	138/138 (100%)	-0.47	1 (0%) 87 81	112, 138, 152, 161	0
9	82	105/128 (82%)	0.72	19 (18%) 1 1	149, 196, 209, 221	0
9	8E	126/128 (98%)	-0.64	1 (0%) 86 78	111, 170, 192, 200	0
10	1A	60/105 (57%)	1.66	17 (28%) 0 0	166, 193, 204, 205	0
10	1I	72/105 (68%)	0.12	3 (4%) 36 21	112, 150, 193, 204	0
11	2A	113/129 (87%)	-0.40	0 100 100	118, 143, 157, 167	0
11	2I	111/129 (86%)	1.72	43 (38%) 0 0	102, 136, 151, 164	0
12	3A	121/132 (91%)	1.11	34 (28%) 0 0	119, 142, 165, 179	0
12	3I	122/132 (92%)	0.14	2 (1%) 72 59	91, 102, 126, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	111/126 (88%)	1.08	27 (24%) 0 0	162, 187, 202, 212	0
13	4I	119/126 (94%)	-0.36	1 (0%) 86 78	111, 146, 162, 173	0
14	5A	48/61 (78%)	2.62	25 (52%) 0 0	170, 191, 208, 218	0
14	5I	60/61 (98%)	0.65	6 (10%) 7 4	107, 124, 141, 155	0
15	6A	87/89 (97%)	-0.17	2 (2%) 60 46	123, 148, 167, 174	0
15	6I	87/89 (97%)	1.61	28 (32%) 0 0	106, 127, 148, 153	0
16	7A	84/88 (95%)	-0.32	0 100 100	120, 139, 161, 184	0
16	7I	80/88 (90%)	0.56	10 (12%) 3 2	127, 140, 169, 180	0
17	8A	99/105 (94%)	-0.81	0 100 100	121, 143, 156, 159	0
17	8I	100/105 (95%)	2.24	51 (51%) 0 0	117, 136, 148, 154	0
18	9A	67/88 (76%)	0.12	2 (2%) 50 33	128, 145, 163, 171	0
18	9I	67/88 (76%)	2.73	40 (59%) 0 0	115, 134, 159, 164	0
19	AA	36/93 (38%)	-0.13	2 (5%) 24 12	191, 209, 217, 223	0
19	AI	81/93 (87%)	1.21	24 (29%) 0 0	125, 148, 173, 183	0
20	BA	98/106 (92%)	0.53	12 (12%) 4 2	107, 139, 163, 176	0
20	BI	97/106 (91%)	-0.13	5 (5%) 27 14	135, 152, 181, 193	0
21	1B	23/27 (85%)	3.95	21 (91%) 0 0	157, 179, 187, 189	0
21	1F	23/27 (85%)	-0.90	0 100 100	119, 134, 143, 145	0
22	1K	64/76 (84%)	0.39	7 (10%) 5 3	112, 226, 251, 253	0
23	2K	72/77 (93%)	-0.38	1 (1%) 75 63	94, 125, 153, 169	0
23	2L	72/77 (93%)	0.10	3 (4%) 36 21	100, 151, 178, 198	0
24	3K	76/76 (100%)	-0.22	3 (3%) 39 24	96, 189, 207, 218	0
25	4K	20/27 (74%)	0.12	1 (5%) 28 15	96, 156, 196, 199	0
25	4L	17/27 (62%)	0.43	1 (5%) 22 12	131, 170, 208, 211	0
26	14	2861/2912 (98%)	-0.35	25 (0%) 84 75	72, 111, 235, 276	0
26	1H	2830/2912 (97%)	-0.37	25 (0%) 84 75	65, 97, 204, 287	0
27	16	122/122 (100%)	-0.17	3 (2%) 57 42	92, 117, 143, 228	0
27	1J	122/122 (100%)	-0.74	0 100 100	117, 155, 179, 225	0
28	7I	135/229 (58%)	1.87	56 (41%) 0 0	149, 167, 190, 202	0
29	11	273/276 (98%)	0.09	8 (2%) 51 35	65, 90, 111, 122	0
29	19	273/276 (98%)	0.92	45 (16%) 1 1	74, 100, 121, 136	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
30	21	203/206 (98%)	0.50	19 (9%) 8 4	73, 112, 157, 172	0
30	29	203/206 (98%)	1.06	47 (23%) 0 0	79, 116, 162, 178	0
31	31	202/210 (96%)	0.17	8 (3%) 38 23	70, 102, 136, 155	0
31	39	204/210 (97%)	-0.30	0 100 100	83, 128, 181, 201	0
32	41	179/182 (98%)	0.49	20 (11%) 5 3	107, 128, 164, 174	0
32	49	179/182 (98%)	0.64	24 (13%) 3 2	151, 171, 195, 204	0
33	51	171/180 (95%)	0.31	23 (13%) 3 2	102, 128, 146, 157	0
33	59	69/180 (38%)	0.77	12 (17%) 1 1	170, 198, 213, 220	0
34	61	145/148 (97%)	1.26	42 (28%) 0 0	102, 163, 188, 199	0
34	69	145/148 (97%)	1.05	37 (25%) 0 0	111, 152, 176, 189	0
35	15	137/140 (97%)	1.44	44 (32%) 0 0	106, 134, 162, 179	0
35	58	138/140 (98%)	-0.27	1 (0%) 87 81	86, 112, 154, 172	0
36	25	122/122 (100%)	0.44	4 (3%) 46 29	92, 113, 132, 142	0
36	68	122/122 (100%)	-0.18	0 100 100	81, 98, 118, 131	0
37	35	148/150 (98%)	1.18	40 (27%) 0 0	84, 135, 174, 190	0
37	78	147/150 (98%)	0.45	22 (14%) 2 1	72, 104, 136, 144	0
38	45	138/141 (97%)	0.21	10 (7%) 15 8	99, 131, 151, 168	0
38	88	141/141 (100%)	1.78	65 (46%) 0 0	76, 101, 123, 153	0
39	55	118/118 (100%)	0.59	9 (7%) 13 7	87, 102, 118, 138	0
39	98	118/118 (100%)	2.89	74 (62%) 0 0	87, 109, 131, 147	0
40	65	110/112 (98%)	0.58	11 (10%) 7 4	116, 145, 164, 172	0
40	A8	111/112 (99%)	2.30	57 (51%) 0 0	93, 112, 135, 144	0
41	75	136/146 (93%)	-0.40	4 (2%) 51 35	102, 120, 169, 198	0
41	B8	135/146 (92%)	-0.49	1 (0%) 87 81	92, 116, 166, 185	0
42	85	116/118 (98%)	1.01	21 (18%) 1 1	90, 121, 154, 166	0
42	C8	115/118 (97%)	-0.12	2 (1%) 70 57	77, 102, 130, 141	0
43	95	99/101 (98%)	1.95	49 (49%) 0 0	91, 152, 166, 174	0
43	D8	101/101 (100%)	1.67	37 (36%) 0 0	78, 124, 149, 160	0
44	A5	110/113 (97%)	-0.37	0 100 100	84, 96, 127, 133	0
44	E8	110/113 (97%)	0.03	2 (1%) 68 55	79, 95, 125, 140	0
45	B5	94/96 (97%)	0.77	14 (14%) 2 1	94, 110, 134, 144	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	F8	95/96 (98%)	2.16	49 (51%) 0 0	78, 93, 120, 133	0
46	C5	105/110 (95%)	1.16	23 (21%) 0 0	110, 143, 175, 185	0
46	G8	104/110 (94%)	-0.66	0 100 100	88, 116, 148, 161	0
47	D5	130/206 (63%)	1.18	36 (27%) 0 0	138, 163, 188, 194	0
47	H8	148/206 (71%)	2.00	69 (46%) 0 0	106, 140, 195, 207	0
48	E5	78/85 (91%)	0.60	5 (6%) 19 10	99, 116, 136, 149	0
48	I8	76/85 (89%)	1.40	21 (27%) 0 0	79, 95, 111, 130	0
49	F5	94/98 (95%)	0.72	11 (11%) 4 2	86, 109, 144, 159	0
49	J8	94/98 (95%)	0.40	8 (8%) 10 5	79, 96, 143, 153	0
50	G5	67/72 (93%)	0.23	3 (4%) 33 19	113, 134, 152, 171	0
50	K8	68/72 (94%)	1.05	12 (17%) 1 1	82, 105, 124, 151	0
51	H5	58/60 (96%)	3.97	53 (91%) 0 0	103, 128, 155, 180	0
51	L8	58/60 (96%)	0.96	10 (17%) 1 1	83, 104, 140, 152	0
52	M8	47/71 (66%)	0.58	5 (10%) 6 3	131, 172, 183, 188	0
53	J5	56/60 (93%)	-0.18	5 (8%) 9 5	82, 108, 155, 165	0
53	N8	48/60 (80%)	0.59	7 (14%) 2 1	72, 108, 153, 164	0
54	L5	45/49 (91%)	0.55	5 (11%) 5 3	75, 83, 95, 107	0
54	P8	47/49 (95%)	-0.22	0 100 100	68, 74, 98, 108	0
55	M5	64/65 (98%)	1.41	17 (26%) 0 0	90, 105, 123, 143	0
55	Q8	64/65 (98%)	0.18	1 (1%) 72 59	80, 91, 108, 123	0
56	1L	71/76 (93%)	1.63	21 (29%) 0 0	140, 257, 274, 277	0
57	3L	75/76 (98%)	-0.09	2 (2%) 54 38	107, 259, 277, 285	0
All	All	20395/21728 (93%)	0.17	1973 (9%) 7 4	65, 127, 204, 287	0

The worst 5 of 1973 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
28	71	1	PRO	15.3
43	D8	101	GLY	10.4
10	1A	59	SER	10.3
21	1B	14	TRP	9.7
32	49	137	GLU	9.6

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	1K	55	20/21	0.86	0.16	143,175,183,183	0
23	PSU	2L	56	20/21	0.87	0.15	143,152,158,162	0
56	PSU	1L	55	20/21	0.88	0.12	176,201,207,207	0
23	4SU	2L	8	20/21	0.88	0.16	131,155,165,169	0
22	5MU	1K	54	21/22	0.88	0.21	155,171,185,188	0
22	T6A	1K	37	32/33	0.89	0.25	100,113,152,156	0
56	PSU	1L	39	20/21	0.90	0.31	155,179,185,187	0
23	5MU	2L	55	21/22	0.91	0.15	146,159,164,166	0
23	G7M	2L	47	24/25	0.92	0.13	161,169,178,179	0
23	4SU	2K	8	20/21	0.92	0.15	111,120,124,128	0
56	5MU	1L	54	21/22	0.92	0.17	184,194,212,217	0
23	OMC	2L	33	21/22	0.93	0.23	132,140,144,151	0
57	PSU	3L	39	20/21	0.93	0.12	160,164,169,170	0
23	PSU	2K	56	20/21	0.94	0.12	122,127,139,140	0
23	5MU	2K	55	21/22	0.94	0.15	122,135,144,159	0
23	G7M	2K	47	24/25	0.95	0.10	124,132,139,146	0
22	PSU	1K	39	20/21	0.95	0.17	98,124,139,139	0
23	OMC	2K	33	21/22	0.96	0.12	95,105,111,117	0
22	U8U	1K	34	23/24	0.96	0.12	116,123,130,131	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
58	MG	1H	3033	1/1	0.15	0.55	109,109,109,109	0
58	MG	13	1705	1/1	0.17	0.30	150,150,150,150	0
58	MG	1H	3331	1/1	0.23	0.23	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	5E	201	1/1	0.25	0.83	107,107,107,107	0
58	MG	1H	3313	1/1	0.32	0.68	114,114,114,114	0
58	MG	29	303	1/1	0.33	0.24	106,106,106,106	0
58	MG	1H	3340	1/1	0.35	0.60	101,101,101,101	0
58	MG	1H	3155	1/1	0.36	0.21	86,86,86,86	0
58	MG	13	1627	1/1	0.37	0.42	105,105,105,105	0
58	MG	2K	102	1/1	0.37	0.63	109,109,109,109	0
58	MG	14	3028	1/1	0.39	0.41	124,124,124,124	0
58	MG	14	3319	1/1	0.39	0.17	128,128,128,128	0
58	MG	1H	3262	1/1	0.39	0.26	100,100,100,100	0
58	MG	1H	3316	1/1	0.40	0.38	91,91,91,91	0
58	MG	1H	3264	1/1	0.42	0.24	122,122,122,122	0
58	MG	1G	1645	1/1	0.43	0.56	122,122,122,122	0
58	MG	1G	1628	1/1	0.44	0.40	120,120,120,120	0
58	MG	1H	3146	1/1	0.46	0.46	103,103,103,103	0
58	MG	1H	3256	1/1	0.47	0.39	104,104,104,104	0
58	MG	1G	1640	1/1	0.47	0.42	115,115,115,115	0
58	MG	32	301	1/1	0.48	0.61	128,128,128,128	0
58	MG	13	1625	1/1	0.48	0.55	102,102,102,102	0
58	MG	14	3234	1/1	0.49	0.49	85,85,85,85	0
58	MG	14	3263	1/1	0.49	0.49	102,102,102,102	0
58	MG	13	1703	1/1	0.49	0.37	128,128,128,128	0
58	MG	14	3227	1/1	0.49	1.17	104,104,104,104	0
58	MG	1H	3317	1/1	0.50	0.45	106,106,106,106	0
58	MG	1H	3350	1/1	0.51	0.61	113,113,113,113	0
58	MG	1H	3176	1/1	0.51	0.29	110,110,110,110	0
58	MG	14	3279	1/1	0.51	0.59	103,103,103,103	0
58	MG	14	3150	1/1	0.51	0.86	102,102,102,102	0
58	MG	1G	1668	1/1	0.51	0.27	138,138,138,138	0
58	MG	13	1680	1/1	0.52	0.59	125,125,125,125	0
58	MG	13	1689	1/1	0.52	0.24	182,182,182,182	0
58	MG	1H	3285	1/1	0.53	0.23	115,115,115,115	0
58	MG	1H	3036	1/1	0.54	0.15	118,118,118,118	0
58	MG	14	3303	1/1	0.55	0.54	115,115,115,115	0
58	MG	13	1603	1/1	0.55	0.40	102,102,102,102	0
58	MG	1H	3032	1/1	0.55	0.35	110,110,110,110	0
58	MG	14	3299	1/1	0.56	0.36	118,118,118,118	0
58	MG	1G	1641	1/1	0.56	0.18	131,131,131,131	0
58	MG	16	203	1/1	0.56	0.16	112,112,112,112	0
58	MG	14	3417	1/1	0.56	0.08	140,140,140,140	0
58	MG	14	3026	1/1	0.56	0.36	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3295	1/1	0.57	0.77	96,96,96,96	0
58	MG	1H	3347	1/1	0.57	0.18	102,102,102,102	0
58	MG	14	3301	1/1	0.58	0.17	115,115,115,115	0
58	MG	13	1678	1/1	0.58	0.19	121,121,121,121	0
58	MG	13	1687	1/1	0.58	1.49	100,100,100,100	0
58	MG	14	3296	1/1	0.58	0.32	110,110,110,110	0
58	MG	14	3179	1/1	0.58	0.45	102,102,102,102	0
58	MG	1H	3199	1/1	0.59	0.69	87,87,87,87	0
58	MG	1H	3276	1/1	0.59	0.28	91,91,91,91	0
58	MG	14	3316	1/1	0.59	0.29	111,111,111,111	0
58	MG	14	3062	1/1	0.60	0.56	129,129,129,129	0
58	MG	1G	1621	1/1	0.60	0.76	110,110,110,110	0
58	MG	1H	3322	1/1	0.60	0.30	121,121,121,121	0
58	MG	1H	3105	1/1	0.60	0.90	86,86,86,86	0
58	MG	14	3267	1/1	0.61	0.59	104,104,104,104	0
58	MG	14	3324	1/1	0.61	0.27	104,104,104,104	0
58	MG	14	3277	1/1	0.62	0.50	111,111,111,111	0
58	MG	1H	3263	1/1	0.62	0.68	92,92,92,92	0
58	MG	13	1688	1/1	0.62	0.51	96,96,96,96	0
58	MG	2K	103	1/1	0.62	0.21	134,134,134,134	0
58	MG	14	3171	1/1	0.62	0.95	91,91,91,91	0
58	MG	14	3174	1/1	0.62	0.38	98,98,98,98	0
58	MG	85	202	1/1	0.62	0.65	100,100,100,100	0
58	MG	1G	1643	1/1	0.63	0.57	102,102,102,102	0
58	MG	1H	3337	1/1	0.63	0.52	140,140,140,140	0
58	MG	14	3024	1/1	0.63	1.13	106,106,106,106	0
58	MG	13	1702	1/1	0.64	0.45	114,114,114,114	0
58	MG	1G	1602	1/1	0.64	0.75	133,133,133,133	0
58	MG	1H	3341	1/1	0.64	0.61	110,110,110,110	0
58	MG	14	3233	1/1	0.64	0.63	108,108,108,108	0
58	MG	1H	3351	1/1	0.64	0.33	122,122,122,122	0
58	MG	1H	3187	1/1	0.65	0.53	105,105,105,105	0
58	MG	1H	3336	1/1	0.65	0.12	93,93,93,93	0
58	MG	13	1634	1/1	0.65	0.52	104,104,104,104	0
58	MG	1H	3338	1/1	0.65	0.21	112,112,112,112	0
58	MG	14	3030	1/1	0.65	0.34	104,104,104,104	0
58	MG	1H	3286	1/1	0.65	0.42	109,109,109,109	0
58	MG	1H	3289	1/1	0.65	1.02	86,86,86,86	0
58	MG	14	3260	1/1	0.66	1.01	115,115,115,115	0
58	MG	1G	1644	1/1	0.66	0.70	110,110,110,110	0
58	MG	1H	3332	1/1	0.66	0.81	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1708	1/1	0.66	0.82	102,102,102,102	0
58	MG	14	3183	1/1	0.66	0.34	89,89,89,89	0
58	MG	13	1650	1/1	0.66	0.30	134,134,134,134	0
58	MG	14	3110	1/1	0.66	0.33	94,94,94,94	0
58	MG	1H	3288	1/1	0.66	0.31	99,99,99,99	0
58	MG	14	3059	1/1	0.67	0.17	92,92,92,92	0
58	MG	13	1606	1/1	0.67	1.05	119,119,119,119	0
58	MG	13	1699	1/1	0.67	0.49	97,97,97,97	0
58	MG	1G	1632	1/1	0.68	0.40	130,130,130,130	0
58	MG	1G	1647	1/1	0.68	0.27	101,101,101,101	0
58	MG	1G	1635	1/1	0.68	0.81	111,111,111,111	0
58	MG	16	207	1/1	0.68	0.27	92,92,92,92	0
58	MG	1H	3323	1/1	0.68	0.31	122,122,122,122	0
58	MG	1H	3269	1/1	0.68	0.71	99,99,99,99	0
58	MG	1H	3126	1/1	0.68	0.26	83,83,83,83	0
58	MG	C5	201	1/1	0.68	0.35	137,137,137,137	0
58	MG	1H	3128	1/1	0.69	0.42	90,90,90,90	0
58	MG	16	208	1/1	0.69	0.43	111,111,111,111	0
58	MG	14	3192	1/1	0.69	0.44	104,104,104,104	0
58	MG	14	3201	1/1	0.69	0.49	91,91,91,91	0
58	MG	1H	3297	1/1	0.69	0.21	133,133,133,133	0
58	MG	13	1621	1/1	0.69	0.33	99,99,99,99	0
58	MG	14	3315	1/1	0.69	0.49	114,114,114,114	0
58	MG	13	1679	1/1	0.69	0.25	122,122,122,122	0
58	MG	14	3235	1/1	0.69	0.36	102,102,102,102	0
58	MG	1H	3030	1/1	0.69	0.67	85,85,85,85	0
58	MG	14	3261	1/1	0.69	0.43	101,101,101,101	0
58	MG	13	1659	1/1	0.69	0.27	116,116,116,116	0
58	MG	45	203	1/1	0.69	0.78	104,104,104,104	0
58	MG	1G	1636	1/1	0.69	0.34	111,111,111,111	0
58	MG	1G	1639	1/1	0.69	0.81	93,93,93,93	0
58	MG	1H	3327	1/1	0.70	0.76	120,120,120,120	0
58	MG	1H	3144	1/1	0.70	0.27	89,89,89,89	0
58	MG	1H	3095	1/1	0.70	0.87	95,95,95,95	0
58	MG	13	1684	1/1	0.70	0.26	141,141,141,141	0
58	MG	1H	3230	1/1	0.70	0.12	104,104,104,104	0
58	MG	1H	3163	1/1	0.70	0.49	84,84,84,84	0
58	MG	1H	3257	1/1	0.70	1.55	97,97,97,97	0
58	MG	1H	3175	1/1	0.70	0.15	92,92,92,92	0
58	MG	14	3182	1/1	0.70	0.21	105,105,105,105	0
58	MG	14	3034	1/1	0.71	0.29	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	14	3272	1/1	0.71	0.48	96,96,96,96	0
58	MG	1J	202	1/1	0.71	0.33	110,110,110,110	0
58	MG	13	1673	1/1	0.71	0.40	106,106,106,106	0
58	MG	45	202	1/1	0.71	0.15	122,122,122,122	0
58	MG	14	3023	1/1	0.71	0.47	103,103,103,103	0
58	MG	14	3089	1/1	0.71	1.15	104,104,104,104	0
58	MG	1H	3206	1/1	0.71	0.58	100,100,100,100	0
58	MG	1G	1652	1/1	0.72	0.31	110,110,110,110	0
58	MG	14	3321	1/1	0.72	0.43	109,109,109,109	0
58	MG	14	3284	1/1	0.72	0.67	112,112,112,112	0
58	MG	1G	1666	1/1	0.72	0.77	121,121,121,121	0
58	MG	1H	3212	1/1	0.72	0.40	93,93,93,93	0
58	MG	1H	3272	1/1	0.72	0.63	118,118,118,118	0
58	MG	1H	3166	1/1	0.72	0.42	95,95,95,95	0
58	MG	1H	3303	1/1	0.72	0.24	102,102,102,102	0
58	MG	1H	3235	1/1	0.72	0.68	112,112,112,112	0
58	MG	13	1649	1/1	0.72	0.15	118,118,118,118	0
58	MG	14	3404	1/1	0.73	0.29	101,101,101,101	0
58	MG	1G	1633	1/1	0.73	0.25	137,137,137,137	0
58	MG	1H	3292	1/1	0.73	0.28	82,82,82,82	0
58	MG	14	3194	1/1	0.73	0.30	93,93,93,93	0
58	MG	1G	1660	1/1	0.73	0.93	111,111,111,111	0
58	MG	14	3262	1/1	0.73	0.16	109,109,109,109	0
58	MG	13	1707	1/1	0.73	0.43	114,114,114,114	0
58	MG	14	3132	1/1	0.73	0.69	86,86,86,86	0
58	MG	14	3217	1/1	0.74	0.74	89,89,89,89	0
58	MG	13	1644	1/1	0.74	0.38	120,120,120,120	0
58	MG	1H	3141	1/1	0.74	0.93	83,83,83,83	0
58	MG	1G	1662	1/1	0.74	0.14	118,118,118,118	0
58	MG	14	3108	1/1	0.74	0.35	88,88,88,88	0
58	MG	14	3195	1/1	0.74	0.54	107,107,107,107	0
58	MG	14	3196	1/1	0.74	0.29	98,98,98,98	0
58	MG	13	1628	1/1	0.74	0.68	94,94,94,94	0
58	MG	13	1653	1/1	0.75	0.29	144,144,144,144	0
58	MG	1G	1648	1/1	0.75	0.40	128,128,128,128	0
58	MG	1H	3054	1/1	0.75	0.13	110,110,110,110	0
58	MG	13	1661	1/1	0.75	0.50	90,90,90,90	0
58	MG	14	3310	1/1	0.75	0.38	124,124,124,124	0
58	MG	1H	3483	1/1	0.75	0.11	119,119,119,119	0
58	MG	1H	3343	1/1	0.75	0.12	137,137,137,137	0
58	MG	14	3286	1/1	0.75	0.63	117,117,117,117	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	14	3109	1/1	0.75	0.57	94,94,94,94	0
58	MG	E5	101	1/1	0.75	0.66	100,100,100,100	0
58	MG	13	1623	1/1	0.76	0.72	88,88,88,88	0
58	MG	14	3149	1/1	0.76	0.58	94,94,94,94	0
58	MG	14	3275	1/1	0.76	0.47	90,90,90,90	0
58	MG	1H	3209	1/1	0.76	0.53	99,99,99,99	0
58	MG	14	3224	1/1	0.76	0.35	105,105,105,105	0
58	MG	14	3280	1/1	0.76	0.61	98,98,98,98	0
58	MG	1H	3319	1/1	0.76	0.62	102,102,102,102	0
58	MG	1H	3140	1/1	0.76	0.29	89,89,89,89	0
58	MG	5E	202	1/1	0.76	0.18	111,111,111,111	0
58	MG	13	1692	1/1	0.76	0.41	99,99,99,99	0
58	MG	1H	3330	1/1	0.76	0.14	105,105,105,105	0
58	MG	14	3018	1/1	0.76	0.39	111,111,111,111	0
58	MG	1H	3304	1/1	0.76	0.49	94,94,94,94	0
58	MG	1H	3287	1/1	0.76	0.31	96,96,96,96	0
58	MG	14	3278	1/1	0.77	0.45	86,86,86,86	0
58	MG	1H	3243	1/1	0.77	0.09	96,96,96,96	0
58	MG	14	3246	1/1	0.77	0.36	95,95,95,95	0
58	MG	1H	3334	1/1	0.77	0.29	77,77,77,77	0
58	MG	13	1674	1/1	0.77	0.27	121,121,121,121	0
58	MG	14	3288	1/1	0.77	0.79	120,120,120,120	0
58	MG	1H	3479	1/1	0.77	0.20	91,91,91,91	0
58	MG	1H	3069	1/1	0.77	0.16	101,101,101,101	0
58	MG	1H	3486	1/1	0.77	0.31	106,106,106,106	0
58	MG	14	3231	1/1	0.77	0.79	107,107,107,107	0
58	MG	14	3302	1/1	0.77	0.81	95,95,95,95	0
58	MG	14	3031	1/1	0.77	0.47	89,89,89,89	0
58	MG	14	3308	1/1	0.77	0.54	104,104,104,104	0
58	MG	7A	101	1/1	0.77	0.23	104,104,104,104	0
58	MG	14	3199	1/1	0.78	0.61	91,91,91,91	0
58	MG	1H	3344	1/1	0.78	0.32	81,81,81,81	0
58	MG	1H	3031	1/1	0.78	0.71	115,115,115,115	0
58	MG	14	3331	1/1	0.78	0.52	108,108,108,108	0
58	MG	1H	3247	1/1	0.78	0.43	101,101,101,101	0
58	MG	1G	1638	1/1	0.78	0.43	102,102,102,102	0
58	MG	1H	3309	1/1	0.78	0.48	126,126,126,126	0
58	MG	1H	3270	1/1	0.78	0.25	87,87,87,87	0
58	MG	1H	3342	1/1	0.78	0.48	105,105,105,105	0
58	MG	1G	1631	1/1	0.78	0.40	97,97,97,97	0
58	MG	14	3240	1/1	0.78	0.21	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3192	1/1	0.78	0.45	85,85,85,85	0
58	MG	14	3259	1/1	0.78	0.54	111,111,111,111	0
58	MG	1G	1627	1/1	0.79	0.49	142,142,142,142	0
58	MG	14	3325	1/1	0.79	0.53	110,110,110,110	0
58	MG	14	3328	1/1	0.79	1.40	107,107,107,107	0
58	MG	1H	3333	1/1	0.79	0.34	93,93,93,93	0
58	MG	1H	3145	1/1	0.79	0.56	117,117,117,117	0
58	MG	1H	3077	1/1	0.79	0.46	65,65,65,65	0
58	MG	14	3146	1/1	0.79	0.35	77,77,77,77	0
58	MG	13	1710	1/1	0.79	0.33	118,118,118,118	0
58	MG	13	1704	1/1	0.79	0.08	134,134,134,134	0
58	MG	1G	1646	1/1	0.79	0.17	126,126,126,126	0
58	MG	1H	3196	1/1	0.79	0.45	102,102,102,102	0
58	MG	14	3175	1/1	0.79	0.19	93,93,93,93	0
58	MG	13	1660	1/1	0.79	0.12	104,104,104,104	0
58	MG	1H	3154	1/1	0.80	0.49	106,106,106,106	0
58	MG	1G	1653	1/1	0.80	0.14	118,118,118,118	0
58	MG	14	3140	1/1	0.80	0.09	79,79,79,79	0
58	MG	1H	3181	1/1	0.80	0.20	92,92,92,92	0
58	MG	1H	3186	1/1	0.80	0.39	96,96,96,96	0
58	MG	1G	1664	1/1	0.80	0.34	122,122,122,122	0
58	MG	14	3159	1/1	0.80	0.43	81,81,81,81	0
58	MG	13	1709	1/1	0.80	0.36	112,112,112,112	0
58	MG	14	3270	1/1	0.80	0.50	97,97,97,97	0
58	MG	1H	3076	1/1	0.80	0.36	78,78,78,78	0
58	MG	13	1641	1/1	0.80	0.14	112,112,112,112	0
58	MG	1H	3173	1/1	0.80	0.23	108,108,108,108	0
58	MG	14	3313	1/1	0.80	0.35	107,107,107,107	0
58	MG	1G	1637	1/1	0.80	0.42	101,101,101,101	0
58	MG	1H	3029	1/1	0.80	0.42	92,92,92,92	0
58	MG	1G	1618	1/1	0.81	0.13	131,131,131,131	0
58	MG	13	1686	1/1	0.81	0.17	79,79,79,79	0
58	MG	13	1637	1/1	0.81	0.43	123,123,123,123	0
58	MG	1H	3208	1/1	0.81	0.92	99,99,99,99	0
58	MG	14	3165	1/1	0.81	0.45	102,102,102,102	0
58	MG	14	3322	1/1	0.81	0.96	117,117,117,117	0
58	MG	14	3058	1/1	0.81	0.26	107,107,107,107	0
58	MG	1H	3039	1/1	0.81	0.54	100,100,100,100	0
58	MG	1G	1677	1/1	0.81	0.06	185,185,185,185	0
58	MG	14	3330	1/1	0.81	0.67	104,104,104,104	0
58	MG	14	3085	1/1	0.81	0.44	85,85,85,85	0
58	MG	14	3339	1/1	0.81	0.63	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1638	1/1	0.81	0.53	82,82,82,82	0
58	MG	1H	3109	1/1	0.81	0.70	102,102,102,102	0
58	MG	1H	3346	1/1	0.81	0.32	113,113,113,113	0
58	MG	1J	204	1/1	0.81	0.07	119,119,119,119	0
58	MG	1H	3012	1/1	0.81	0.40	93,93,93,93	0
58	MG	35	201	1/1	0.81	0.51	90,90,90,90	0
58	MG	41	201	1/1	0.81	0.10	102,102,102,102	0
58	MG	1H	3349	1/1	0.81	0.16	119,119,119,119	0
58	MG	14	3143	1/1	0.81	0.41	110,110,110,110	0
58	MG	14	3200	1/1	0.81	0.55	94,94,94,94	0
58	MG	14	3311	1/1	0.81	0.34	105,105,105,105	0
60	ZN	C5	202	1/1	0.81	0.13	183,183,183,183	0
58	MG	14	3082	1/1	0.82	0.34	92,92,92,92	0
58	MG	14	3155	1/1	0.82	0.35	101,101,101,101	0
58	MG	1H	3011	1/1	0.82	0.47	71,71,71,71	0
58	MG	14	3160	1/1	0.82	0.37	98,98,98,98	0
58	MG	1H	3295	1/1	0.82	0.53	110,110,110,110	0
58	MG	14	3266	1/1	0.82	0.47	99,99,99,99	0
58	MG	14	3202	1/1	0.82	0.33	79,79,79,79	0
58	MG	1H	3085	1/1	0.82	0.46	92,92,92,92	0
58	MG	13	1666	1/1	0.82	0.18	99,99,99,99	0
58	MG	1H	3251	1/1	0.82	0.13	75,75,75,75	0
58	MG	1H	3178	1/1	0.82	0.53	93,93,93,93	0
58	MG	13	1735	1/1	0.82	0.09	146,146,146,146	0
58	MG	1H	3142	1/1	0.82	0.45	89,89,89,89	0
58	MG	14	3185	1/1	0.82	0.71	113,113,113,113	0
58	MG	14	3282	1/1	0.82	0.33	96,96,96,96	0
58	MG	13	1698	1/1	0.82	0.46	96,96,96,96	0
58	MG	1H	3189	1/1	0.82	0.80	93,93,93,93	0
58	MG	1H	3134	1/1	0.83	0.23	103,103,103,103	0
58	MG	16	205	1/1	0.83	0.37	106,106,106,106	0
58	MG	1H	3123	1/1	0.83	0.09	85,85,85,85	0
58	MG	1H	3174	1/1	0.83	0.54	99,99,99,99	0
58	MG	14	3271	1/1	0.83	0.27	101,101,101,101	0
58	MG	1H	3016	1/1	0.83	0.44	105,105,105,105	0
58	MG	13	1612	1/1	0.83	0.36	108,108,108,108	0
58	MG	1H	3217	1/1	0.83	0.22	81,81,81,81	0
58	MG	14	3032	1/1	0.83	0.18	109,109,109,109	0
58	MG	1H	3279	1/1	0.83	0.30	106,106,106,106	0
58	MG	1G	1667	1/1	0.83	0.30	111,111,111,111	0
58	MG	14	3248	1/1	0.83	0.52	89,89,89,89	0
58	MG	1H	3468	1/1	0.83	0.15	122,122,122,122	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3282	1/1	0.83	0.47	106,106,106,106	0
58	MG	1H	3328	1/1	0.83	0.46	119,119,119,119	0
58	MG	1H	3133	1/1	0.83	0.11	83,83,83,83	0
58	MG	1H	3250	1/1	0.84	0.13	94,94,94,94	0
58	MG	13	1690	1/1	0.84	0.69	113,113,113,113	0
58	MG	1H	3254	1/1	0.84	1.18	91,91,91,91	0
58	MG	1H	3202	1/1	0.84	0.33	95,95,95,95	0
58	MG	14	3257	1/1	0.84	0.16	143,143,143,143	0
58	MG	14	3168	1/1	0.84	0.29	122,122,122,122	0
58	MG	14	3314	1/1	0.84	1.12	99,99,99,99	0
58	MG	1H	3037	1/1	0.84	0.25	87,87,87,87	0
58	MG	1H	3261	1/1	0.84	0.52	115,115,115,115	0
58	MG	1H	3158	1/1	0.84	0.34	105,105,105,105	0
58	MG	1H	3162	1/1	0.84	0.39	106,106,106,106	0
58	MG	16	209	1/1	0.84	0.14	106,106,106,106	0
58	MG	1H	3211	1/1	0.84	0.54	90,90,90,90	0
58	MG	J8	101	1/1	0.84	0.29	89,89,89,89	0
58	MG	13	1738	1/1	0.84	0.05	106,106,106,106	0
58	MG	1H	3305	1/1	0.84	0.57	96,96,96,96	0
58	MG	13	1694	1/1	0.84	0.18	114,114,114,114	0
58	MG	14	3090	1/1	0.84	0.24	83,83,83,83	0
58	MG	14	3381	1/1	0.84	0.12	116,116,116,116	0
58	MG	1H	3311	1/1	0.84	0.18	77,77,77,77	0
58	MG	1H	3168	1/1	0.84	0.40	82,82,82,82	0
58	MG	1H	3275	1/1	0.84	0.12	83,83,83,83	0
58	MG	1H	3010	1/1	0.84	0.21	98,98,98,98	0
58	MG	14	3137	1/1	0.84	0.27	119,119,119,119	0
58	MG	1H	3108	1/1	0.84	0.73	92,92,92,92	0
58	MG	1H	3280	1/1	0.84	0.15	114,114,114,114	0
58	MG	1H	3198	1/1	0.84	0.35	119,119,119,119	0
58	MG	14	3232	1/1	0.84	0.41	89,89,89,89	0
58	MG	14	3297	1/1	0.84	0.55	91,91,91,91	0
58	MG	1H	3324	1/1	0.84	0.11	97,97,97,97	0
58	MG	14	3019	1/1	0.84	0.39	87,87,87,87	0
58	MG	14	3252	1/1	0.85	0.19	106,106,106,106	0
58	MG	14	3254	1/1	0.85	0.45	83,83,83,83	0
58	MG	13	1652	1/1	0.85	0.32	138,138,138,138	0
58	MG	14	3258	1/1	0.85	0.27	93,93,93,93	0
58	MG	14	3022	1/1	0.85	0.57	101,101,101,101	0
58	MG	1H	3226	1/1	0.85	0.32	88,88,88,88	0
58	MG	1G	1651	1/1	0.85	0.14	128,128,128,128	0
58	MG	14	3189	1/1	0.85	0.46	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3345	1/1	0.85	0.18	79,79,79,79	0
58	MG	1H	3315	1/1	0.85	0.22	99,99,99,99	0
58	MG	1H	3227	1/1	0.85	0.52	92,92,92,92	0
58	MG	1H	3117	1/1	0.85	0.30	75,75,75,75	0
58	MG	14	3148	1/1	0.85	0.40	94,94,94,94	0
58	MG	1H	3093	1/1	0.85	0.88	88,88,88,88	0
58	MG	1H	3302	1/1	0.85	0.42	89,89,89,89	0
58	MG	14	3276	1/1	0.85	0.10	130,130,130,130	0
58	MG	14	3154	1/1	0.85	0.17	84,84,84,84	0
58	MG	1G	1611	1/1	0.85	0.33	129,129,129,129	0
58	MG	14	3341	1/1	0.85	0.36	105,105,105,105	0
58	MG	14	3157	1/1	0.85	0.15	81,81,81,81	0
58	MG	1G	1614	1/1	0.85	0.26	127,127,127,127	0
58	MG	1G	1675	1/1	0.85	0.11	150,150,150,150	0
58	MG	1J	201	1/1	0.85	0.31	100,100,100,100	0
58	MG	14	3163	1/1	0.85	0.57	104,104,104,104	0
58	MG	1H	3075	1/1	0.85	0.93	82,82,82,82	0
58	MG	14	3084	1/1	0.85	0.48	92,92,92,92	0
58	MG	14	3291	1/1	0.85	0.26	96,96,96,96	0
58	MG	14	3292	1/1	0.85	0.99	83,83,83,83	0
58	MG	14	3169	1/1	0.85	0.42	69,69,69,69	0
58	MG	85	201	1/1	0.85	0.20	85,85,85,85	0
58	MG	1H	3161	1/1	0.85	0.46	115,115,115,115	0
58	MG	13	1739	1/1	0.85	0.17	113,113,113,113	0
58	MG	14	3247	1/1	0.85	0.90	104,104,104,104	0
58	MG	1H	3024	1/1	0.85	0.28	99,99,99,99	0
58	MG	1G	1612	1/1	0.86	0.36	105,105,105,105	0
58	MG	14	3178	1/1	0.86	0.25	94,94,94,94	0
58	MG	1H	3131	1/1	0.86	0.33	88,88,88,88	0
58	MG	14	3029	1/1	0.86	0.95	90,90,90,90	0
58	MG	14	3335	1/1	0.86	0.24	124,124,124,124	0
58	MG	1H	3185	1/1	0.86	0.22	68,68,68,68	0
58	MG	14	3101	1/1	0.86	0.27	108,108,108,108	0
58	MG	1H	3147	1/1	0.86	0.75	93,93,93,93	0
58	MG	13	1662	1/1	0.86	0.29	116,116,116,116	0
58	MG	13	1670	1/1	0.86	0.27	119,119,119,119	0
58	MG	14	3274	1/1	0.86	0.14	97,97,97,97	0
58	MG	14	3117	1/1	0.86	0.67	91,91,91,91	0
58	MG	1H	3312	1/1	0.86	0.38	103,103,103,103	0
58	MG	14	3197	1/1	0.86	0.51	124,124,124,124	0
58	MG	14	3250	1/1	0.86	0.47	79,79,79,79	0
58	MG	14	3251	1/1	0.86	0.17	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3299	1/1	0.86	0.31	94,94,94,94	0
58	MG	1G	1604	1/1	0.86	0.29	119,119,119,119	0
58	MG	14	3320	1/1	0.86	0.21	119,119,119,119	0
58	MG	14	3080	1/1	0.86	0.41	105,105,105,105	0
58	MG	1H	3035	1/1	0.86	0.64	123,123,123,123	0
58	MG	14	3208	1/1	0.86	0.21	93,93,93,93	0
58	MG	14	3020	1/1	0.87	0.31	93,93,93,93	0
58	MG	1H	3326	1/1	0.87	0.42	97,97,97,97	0
58	MG	14	3287	1/1	0.87	0.20	101,101,101,101	0
58	MG	1H	3278	1/1	0.87	0.41	90,90,90,90	0
58	MG	14	3166	1/1	0.87	0.58	79,79,79,79	0
58	MG	1H	3354	1/1	0.87	0.33	98,98,98,98	0
58	MG	14	3332	1/1	0.87	0.25	98,98,98,98	0
58	MG	14	3294	1/1	0.87	0.80	100,100,100,100	0
58	MG	14	3336	1/1	0.87	0.31	120,120,120,120	0
58	MG	1G	1658	1/1	0.87	0.75	99,99,99,99	0
58	MG	1H	3188	1/1	0.87	0.40	84,84,84,84	0
58	MG	14	3366	1/1	0.87	0.12	114,114,114,114	0
58	MG	1G	1661	1/1	0.87	0.06	169,169,169,169	0
58	MG	14	3264	1/1	0.87	0.51	106,106,106,106	0
58	MG	1H	3119	1/1	0.87	0.59	81,81,81,81	0
58	MG	14	3420	1/1	0.87	0.07	118,118,118,118	0
58	MG	1H	3290	1/1	0.87	0.51	103,103,103,103	0
58	MG	13	1734	1/1	0.87	0.08	131,131,131,131	0
58	MG	1H	3205	1/1	0.87	0.65	114,114,114,114	0
58	MG	14	3055	1/1	0.87	0.32	77,77,77,77	0
58	MG	1H	3169	1/1	0.87	0.21	95,95,95,95	0
58	MG	1G	1623	1/1	0.87	0.65	100,100,100,100	0
58	MG	16	206	1/1	0.87	0.06	89,89,89,89	0
58	MG	1H	3298	1/1	0.87	0.49	95,95,95,95	0
58	MG	1H	3348	1/1	0.87	0.36	111,111,111,111	0
58	MG	1H	3325	1/1	0.87	0.23	100,100,100,100	0
58	MG	1G	1650	1/1	0.87	0.32	98,98,98,98	0
58	MG	L5	101	1/1	0.87	0.89	96,96,96,96	0
58	MG	14	3253	1/1	0.87	0.27	90,90,90,90	0
58	MG	14	3207	1/1	0.88	0.15	107,107,107,107	0
58	MG	1H	3318	1/1	0.88	0.36	116,116,116,116	0
58	MG	14	3273	1/1	0.88	0.15	110,110,110,110	0
58	MG	14	3054	1/1	0.88	0.26	99,99,99,99	0
58	MG	1H	3232	1/1	0.88	0.44	98,98,98,98	0
58	MG	1H	3265	1/1	0.88	1.01	100,100,100,100	0
58	MG	1H	3267	1/1	0.88	0.48	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1693	1/1	0.88	0.54	108,108,108,108	0
58	MG	1H	3183	1/1	0.88	0.93	94,94,94,94	0
58	MG	Q8	101	1/1	0.88	0.39	89,89,89,89	0
58	MG	1H	3246	1/1	0.88	0.33	87,87,87,87	0
58	MG	14	3333	1/1	0.88	0.67	102,102,102,102	0
58	MG	14	3334	1/1	0.88	0.73	92,92,92,92	0
58	MG	14	3283	1/1	0.88	0.67	98,98,98,98	0
58	MG	1H	3124	1/1	0.88	0.42	77,77,77,77	0
58	MG	2L	102	1/1	0.88	1.72	95,95,95,95	0
58	MG	14	3004	1/1	0.88	0.70	76,76,76,76	0
58	MG	14	3342	1/1	0.88	0.35	120,120,120,120	0
58	MG	14	3177	1/1	0.88	0.53	87,87,87,87	0
58	MG	14	3013	1/1	0.88	0.20	98,98,98,98	0
58	MG	14	3382	1/1	0.88	0.14	112,112,112,112	0
58	MG	1H	3100	1/1	0.88	0.85	82,82,82,82	0
58	MG	14	3412	1/1	0.88	0.12	128,128,128,128	0
58	MG	1H	3027	1/1	0.88	0.17	95,95,95,95	0
58	MG	1H	3252	1/1	0.88	0.26	75,75,75,75	0
58	MG	14	3021	1/1	0.88	0.40	73,73,73,73	0
58	MG	14	3186	1/1	0.88	0.69	100,100,100,100	0
58	MG	1H	3129	1/1	0.88	0.60	85,85,85,85	0
58	MG	29	302	1/1	0.88	0.54	94,94,94,94	0
58	MG	13	1683	1/1	0.88	0.77	119,119,119,119	0
58	MG	1H	3472	1/1	0.88	0.08	108,108,108,108	0
58	MG	13	1668	1/1	0.88	0.22	117,117,117,117	0
58	MG	1H	3259	1/1	0.88	0.12	106,106,106,106	0
58	MG	14	3309	1/1	0.88	0.20	109,109,109,109	0
58	MG	13	1723	1/1	0.88	0.15	134,134,134,134	0
58	MG	1G	1659	1/1	0.88	0.31	142,142,142,142	0
58	MG	1H	3139	1/1	0.88	0.18	75,75,75,75	0
58	MG	14	3152	1/1	0.88	0.58	102,102,102,102	0
58	MG	1H	3020	1/1	0.88	0.38	84,84,84,84	0
58	MG	1H	3488	1/1	0.89	0.09	92,92,92,92	0
58	MG	1H	3339	1/1	0.89	0.38	104,104,104,104	0
58	MG	1H	3148	1/1	0.89	0.21	92,92,92,92	0
58	MG	14	3255	1/1	0.89	0.39	105,105,105,105	0
58	MG	1H	3086	1/1	0.89	0.59	89,89,89,89	0
58	MG	1H	3234	1/1	0.89	1.04	90,90,90,90	0
58	MG	14	3051	1/1	0.89	0.37	158,158,158,158	0
58	MG	13	1696	1/1	0.89	0.43	95,95,95,95	0
58	MG	1H	3240	1/1	0.89	0.49	96,96,96,96	0
58	MG	1H	3156	1/1	0.89	0.05	121,121,121,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1635	1/1	0.89	0.36	111,111,111,111	0
58	MG	13	1626	1/1	0.89	0.33	113,113,113,113	0
58	MG	14	3068	1/1	0.89	0.78	108,108,108,108	0
58	MG	14	3411	1/1	0.89	0.05	134,134,134,134	0
58	MG	1H	3248	1/1	0.89	1.57	93,93,93,93	0
58	MG	14	3269	1/1	0.89	0.29	115,115,115,115	0
58	MG	1H	3101	1/1	0.89	0.33	59,59,59,59	0
58	MG	14	3005	1/1	0.89	0.34	101,101,101,101	0
58	MG	13	1614	1/1	0.89	0.20	97,97,97,97	0
58	MG	1H	3164	1/1	0.89	0.24	86,86,86,86	0
58	MG	13	1669	1/1	0.89	0.12	120,120,120,120	0
58	MG	14	3173	1/1	0.89	0.14	96,96,96,96	0
58	MG	1H	3213	1/1	0.89	0.17	81,81,81,81	0
58	MG	1H	3284	1/1	0.89	0.19	97,97,97,97	0
58	MG	13	1695	1/1	0.89	0.30	122,122,122,122	0
58	MG	1H	3481	1/1	0.89	0.15	133,133,133,133	0
58	MG	14	3323	1/1	0.89	0.07	159,159,159,159	0
58	MG	1H	3110	1/1	0.89	0.35	83,83,83,83	0
58	MG	14	3123	1/1	0.89	0.20	109,109,109,109	0
58	MG	1G	1630	1/1	0.89	0.42	120,120,120,120	0
58	MG	1H	3170	1/1	0.89	0.07	92,92,92,92	0
58	MG	13	1740	1/1	0.90	0.20	107,107,107,107	0
58	MG	1G	1609	1/1	0.90	0.09	113,113,113,113	0
58	MG	1H	3066	1/1	0.90	0.53	86,86,86,86	0
58	MG	1H	3237	1/1	0.90	0.15	88,88,88,88	0
58	MG	1H	3151	1/1	0.90	0.13	90,90,90,90	0
58	MG	1G	1616	1/1	0.90	0.34	118,118,118,118	0
58	MG	1H	3242	1/1	0.90	0.41	90,90,90,90	0
58	MG	13	1648	1/1	0.90	0.60	108,108,108,108	0
58	MG	14	3337	1/1	0.90	0.51	125,125,125,125	0
58	MG	1H	3471	1/1	0.90	0.04	128,128,128,128	0
58	MG	1H	3274	1/1	0.90	0.53	105,105,105,105	0
58	MG	1H	3074	1/1	0.90	0.40	94,94,94,94	0
58	MG	14	3298	1/1	0.90	0.29	104,104,104,104	0
58	MG	14	3372	1/1	0.90	0.08	134,134,134,134	0
58	MG	13	1663	1/1	0.90	0.66	86,86,86,86	0
58	MG	5I	101	1/1	0.90	0.14	110,110,110,110	0
58	MG	1H	3159	1/1	0.90	0.38	89,89,89,89	0
58	MG	14	3405	1/1	0.90	0.17	89,89,89,89	0
58	MG	1H	3023	1/1	0.90	0.45	92,92,92,92	0
58	MG	14	3304	1/1	0.90	0.67	87,87,87,87	0
58	MG	13	1681	1/1	0.90	0.49	124,124,124,124	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3214	1/1	0.90	0.31	94,94,94,94	0
58	MG	1H	3314	1/1	0.90	0.23	107,107,107,107	0
58	MG	14	3221	1/1	0.90	0.68	80,80,80,80	0
58	MG	1H	3215	1/1	0.90	0.24	69,69,69,69	0
58	MG	1J	205	1/1	0.90	0.26	122,122,122,122	0
58	MG	1J	206	1/1	0.90	0.05	130,130,130,130	0
58	MG	1H	3120	1/1	0.90	0.57	107,107,107,107	0
58	MG	14	3229	1/1	0.90	0.46	93,93,93,93	0
58	MG	1H	3143	1/1	0.90	0.35	101,101,101,101	0
58	MG	13	1677	1/1	0.90	0.52	113,113,113,113	0
58	MG	11	301	1/1	0.90	0.31	73,73,73,73	0
58	MG	21	302	1/1	0.90	0.12	91,91,91,91	0
58	MG	1H	3229	1/1	0.90	0.76	89,89,89,89	0
58	MG	1H	3321	1/1	0.90	0.42	84,84,84,84	0
58	MG	1H	3038	1/1	0.90	0.23	102,102,102,102	0
58	MG	13	1672	1/1	0.90	0.15	133,133,133,133	0
58	MG	14	3327	1/1	0.90	0.46	83,83,83,83	0
58	MG	1H	3112	1/1	0.91	0.72	101,101,101,101	0
58	MG	14	3317	1/1	0.91	0.16	122,122,122,122	0
58	MG	1H	3116	1/1	0.91	0.39	88,88,88,88	0
58	MG	1H	3204	1/1	0.91	0.25	87,87,87,87	0
58	MG	14	3181	1/1	0.91	1.18	91,91,91,91	0
58	MG	1H	3167	1/1	0.91	0.62	96,96,96,96	0
58	MG	1H	3034	1/1	0.91	0.33	145,145,145,145	0
58	MG	1H	3320	1/1	0.91	0.47	107,107,107,107	0
58	MG	13	1706	1/1	0.91	0.24	91,91,91,91	0
58	MG	13	1701	1/1	0.91	0.46	103,103,103,103	0
58	MG	14	3191	1/1	0.91	0.53	93,93,93,93	0
58	MG	1H	3121	1/1	0.91	0.37	93,93,93,93	0
58	MG	1H	3355	1/1	0.91	0.54	88,88,88,88	0
58	MG	1H	3398	1/1	0.91	0.19	76,76,76,76	0
58	MG	1H	3457	1/1	0.91	0.30	89,89,89,89	0
58	MG	1H	3465	1/1	0.91	0.07	112,112,112,112	0
58	MG	13	1676	1/1	0.91	0.29	130,130,130,130	0
58	MG	14	3122	1/1	0.91	0.44	95,95,95,95	0
58	MG	1H	3089	1/1	0.91	0.33	83,83,83,83	0
58	MG	14	3129	1/1	0.91	0.40	84,84,84,84	0
58	MG	1H	3149	1/1	0.91	0.42	102,102,102,102	0
58	MG	14	3007	1/1	0.91	0.50	81,81,81,81	0
58	MG	1H	3026	1/1	0.91	0.40	80,80,80,80	0
58	MG	14	3015	1/1	0.91	0.66	82,82,82,82	0
58	MG	14	3375	1/1	0.91	0.11	117,117,117,117	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1H	3480	1/1	0.91	0.07	114,114,114,114	0
58	MG	14	3223	1/1	0.91	0.19	116,116,116,116	0
58	MG	1H	3153	1/1	0.91	0.13	86,86,86,86	0
58	MG	13	1617	1/1	0.91	0.29	97,97,97,97	0
58	MG	13	1604	1/1	0.91	0.47	90,90,90,90	0
58	MG	1H	3487	1/1	0.91	0.14	96,96,96,96	0
58	MG	13	1717	1/1	0.91	0.06	123,123,123,123	0
58	MG	1H	3157	1/1	0.91	0.94	88,88,88,88	0
58	MG	14	3156	1/1	0.91	0.70	88,88,88,88	0
58	MG	14	3025	1/1	0.91	0.80	87,87,87,87	0
58	MG	16	204	1/1	0.91	0.10	106,106,106,106	0
58	MG	14	3300	1/1	0.91	0.10	118,118,118,118	0
58	MG	1H	3014	1/1	0.91	0.15	65,65,65,65	0
58	MG	14	3162	1/1	0.91	0.67	90,90,90,90	0
58	MG	1H	3073	1/1	0.91	0.60	84,84,84,84	0
58	MG	1H	3307	1/1	0.91	0.56	97,97,97,97	0
58	MG	1H	3308	1/1	0.91	0.24	81,81,81,81	0
58	MG	1H	3136	1/1	0.91	0.25	80,80,80,80	0
58	MG	1H	3195	1/1	0.91	0.74	96,96,96,96	0
58	MG	13	1609	1/1	0.91	0.24	99,99,99,99	0
58	MG	14	3312	1/1	0.91	0.39	97,97,97,97	0
58	MG	1H	3277	1/1	0.91	0.18	122,122,122,122	0
58	MG	1H	3017	1/1	0.91	0.49	79,79,79,79	0
58	MG	1G	1655	1/1	0.91	0.04	176,176,176,176	0
58	MG	1H	3152	1/1	0.92	0.60	108,108,108,108	0
58	MG	14	3176	1/1	0.92	0.37	96,96,96,96	0
58	MG	14	3120	1/1	0.92	0.25	94,94,94,94	0
58	MG	14	3242	1/1	0.92	0.10	92,92,92,92	0
58	MG	14	3245	1/1	0.92	0.43	97,97,97,97	0
58	MG	1H	3062	1/1	0.92	0.44	103,103,103,103	0
58	MG	1H	3092	1/1	0.92	0.36	76,76,76,76	0
58	MG	14	3293	1/1	0.92	0.69	109,109,109,109	0
58	MG	1H	3137	1/1	0.92	0.35	93,93,93,93	0
58	MG	1H	3301	1/1	0.92	0.54	99,99,99,99	0
58	MG	13	1618	1/1	0.92	0.22	108,108,108,108	0
58	MG	14	3139	1/1	0.92	0.12	75,75,75,75	0
58	MG	14	3369	1/1	0.92	0.10	105,105,105,105	0
58	MG	1H	3177	1/1	0.92	0.67	93,93,93,93	0
58	MG	1H	3207	1/1	0.92	0.45	93,93,93,93	0
58	MG	1G	1669	1/1	0.92	0.14	151,151,151,151	0
58	MG	14	3045	1/1	0.92	0.21	89,89,89,89	0
58	MG	1G	1673	1/1	0.92	0.17	145,145,145,145	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1656	1/1	0.92	0.10	105,105,105,105	0
58	MG	14	3151	1/1	0.92	0.29	109,109,109,109	0
58	MG	1H	3374	1/1	0.92	0.13	77,77,77,77	0
58	MG	14	3415	1/1	0.92	0.07	126,126,126,126	0
58	MG	14	3153	1/1	0.92	0.51	102,102,102,102	0
58	MG	14	3418	1/1	0.92	0.08	88,88,88,88	0
58	MG	I8	101	1/1	0.92	0.42	70,70,70,70	0
58	MG	13	1697	1/1	0.92	0.51	98,98,98,98	0
58	MG	14	3061	1/1	0.92	0.12	102,102,102,102	0
58	MG	14	3205	1/1	0.92	0.15	97,97,97,97	0
58	MG	1H	3122	1/1	0.92	0.15	83,83,83,83	0
58	MG	1H	3184	1/1	0.92	0.76	94,94,94,94	0
58	MG	13	1619	1/1	0.92	0.26	81,81,81,81	0
58	MG	1H	3253	1/1	0.92	0.45	84,84,84,84	0
58	MG	13	1630	1/1	0.92	0.14	74,74,74,74	0
58	MG	45	201	1/1	0.92	0.27	101,101,101,101	0
58	MG	1H	3028	1/1	0.92	0.44	82,82,82,82	0
58	MG	1H	3127	1/1	0.92	0.34	79,79,79,79	0
58	MG	55	201	1/1	0.92	0.28	96,96,96,96	0
58	MG	13	1732	1/1	0.92	0.14	127,127,127,127	0
58	MG	14	3228	1/1	0.92	0.29	96,96,96,96	0
58	MG	3I	201	1/1	0.92	0.19	87,87,87,87	0
58	MG	13	1645	1/1	0.92	0.38	113,113,113,113	0
58	MG	1H	3115	1/1	0.92	0.26	70,70,70,70	0
58	MG	1H	3233	1/1	0.92	0.19	93,93,93,93	0
58	MG	13	1633	1/1	0.93	0.57	88,88,88,88	0
58	MG	13	1620	1/1	0.93	0.24	117,117,117,117	0
58	MG	1H	3238	1/1	0.93	0.24	83,83,83,83	0
58	MG	1H	3043	1/1	0.93	0.31	75,75,75,75	0
58	MG	1H	3048	1/1	0.93	0.36	80,80,80,80	0
58	MG	14	3238	1/1	0.93	0.70	83,83,83,83	0
58	MG	1H	3271	1/1	0.93	0.58	87,87,87,87	0
58	MG	1H	3083	1/1	0.93	0.27	74,74,74,74	0
58	MG	14	3244	1/1	0.93	0.12	79,79,79,79	0
58	MG	1H	3482	1/1	0.93	0.06	119,119,119,119	0
58	MG	14	3318	1/1	0.93	0.30	102,102,102,102	0
58	MG	1H	3335	1/1	0.93	0.16	100,100,100,100	0
58	MG	1G	1642	1/1	0.93	0.44	114,114,114,114	0
58	MG	1H	3306	1/1	0.93	0.42	77,77,77,77	0
58	MG	1H	3244	1/1	0.93	0.47	103,103,103,103	0
58	MG	13	1611	1/1	0.93	0.22	91,91,91,91	0
58	MG	1H	3113	1/1	0.93	0.15	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3164	1/1	0.93	0.31	93,93,93,93	0
58	MG	14	3044	1/1	0.93	0.28	88,88,88,88	0
58	MG	1H	3310	1/1	0.93	0.54	95,95,95,95	0
58	MG	14	3167	1/1	0.93	0.21	105,105,105,105	0
58	MG	13	1636	1/1	0.93	0.10	123,123,123,123	0
58	MG	1H	3191	1/1	0.93	0.36	95,95,95,95	0
58	MG	1H	3063	1/1	0.93	0.44	57,57,57,57	0
58	MG	14	3057	1/1	0.93	0.22	119,119,119,119	0
58	MG	1H	3222	1/1	0.93	0.25	94,94,94,94	0
58	MG	1H	3225	1/1	0.93	0.33	70,70,70,70	0
58	MG	1H	3090	1/1	0.93	0.43	76,76,76,76	0
58	MG	1H	3255	1/1	0.93	0.79	94,94,94,94	0
58	MG	14	3067	1/1	0.93	0.27	100,100,100,100	0
58	MG	13	1655	1/1	0.93	0.08	106,106,106,106	0
58	MG	14	3351	1/1	0.93	0.06	80,80,80,80	0
58	MG	14	3072	1/1	0.93	0.35	84,84,84,84	0
58	MG	78	201	1/1	0.93	0.26	92,92,92,92	0
58	MG	1H	3197	1/1	0.93	0.49	68,68,68,68	0
58	MG	1H	3258	1/1	0.93	0.33	99,99,99,99	0
58	MG	J8	102	1/1	0.93	0.46	77,77,77,77	0
58	MG	1G	1665	1/1	0.93	0.33	122,122,122,122	0
58	MG	14	3397	1/1	0.93	0.09	103,103,103,103	0
58	MG	13	1647	1/1	0.93	0.28	108,108,108,108	0
58	MG	1H	3353	1/1	0.93	0.53	96,96,96,96	0
58	MG	14	3105	1/1	0.93	0.84	110,110,110,110	0
58	MG	1H	3260	1/1	0.93	1.54	95,95,95,95	0
58	MG	14	3413	1/1	0.93	0.04	92,92,92,92	0
58	MG	1H	3291	1/1	0.93	0.64	116,116,116,116	0
58	MG	14	3416	1/1	0.93	0.04	124,124,124,124	0
58	MG	14	3281	1/1	0.93	0.91	103,103,103,103	0
58	MG	1H	3070	1/1	0.93	0.45	100,100,100,100	0
58	MG	14	3111	1/1	0.93	0.55	82,82,82,82	0
58	MG	14	3113	1/1	0.93	0.49	102,102,102,102	0
58	MG	14	3115	1/1	0.93	0.33	88,88,88,88	0
58	MG	1H	3396	1/1	0.93	0.06	99,99,99,99	0
58	MG	1H	3096	1/1	0.93	0.32	76,76,76,76	0
58	MG	14	3206	1/1	0.93	0.09	88,88,88,88	0
58	MG	1H	3411	1/1	0.93	0.16	94,94,94,94	0
58	MG	1H	3420	1/1	0.93	0.11	81,81,81,81	0
58	MG	14	3213	1/1	0.93	0.27	114,114,114,114	0
58	MG	1G	1620	1/1	0.93	0.58	91,91,91,91	0
58	MG	1H	3432	1/1	0.93	0.12	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3218	1/1	0.93	0.15	97,97,97,97	0
58	MG	14	3134	1/1	0.93	0.39	100,100,100,100	0
58	MG	1H	3433	1/1	0.93	0.28	113,113,113,113	0
58	MG	1H	3438	1/1	0.93	0.10	110,110,110,110	0
58	MG	14	3225	1/1	0.93	0.46	95,95,95,95	0
58	MG	1H	3445	1/1	0.93	0.17	71,71,71,71	0
58	MG	1H	3450	1/1	0.93	0.17	75,75,75,75	0
58	MG	13	1631	1/1	0.93	0.27	82,82,82,82	0
58	MG	16	202	1/1	0.94	0.18	102,102,102,102	0
58	MG	14	3144	1/1	0.94	0.17	112,112,112,112	0
58	MG	1H	3068	1/1	0.94	0.45	70,70,70,70	0
58	MG	14	3147	1/1	0.94	0.34	110,110,110,110	0
58	MG	1H	3409	1/1	0.94	0.12	85,85,85,85	0
58	MG	1H	3410	1/1	0.94	0.08	97,97,97,97	0
58	MG	1H	3114	1/1	0.94	0.15	77,77,77,77	0
58	MG	1H	3300	1/1	0.94	0.86	99,99,99,99	0
58	MG	14	3060	1/1	0.94	0.08	103,103,103,103	0
58	MG	1G	1678	1/1	0.94	0.14	119,119,119,119	0
58	MG	14	3212	1/1	0.94	0.17	105,105,105,105	0
58	MG	1H	3429	1/1	0.94	0.14	82,82,82,82	0
58	MG	1H	3431	1/1	0.94	0.10	111,111,111,111	0
58	MG	1H	3190	1/1	0.94	0.24	108,108,108,108	0
58	MG	14	3338	1/1	0.94	0.07	114,114,114,114	0
58	MG	1H	3160	1/1	0.94	0.40	88,88,88,88	0
58	MG	14	3340	1/1	0.94	0.22	91,91,91,91	0
58	MG	14	3219	1/1	0.94	0.23	83,83,83,83	0
58	MG	14	3158	1/1	0.94	0.36	92,92,92,92	0
58	MG	13	1665	1/1	0.94	0.10	105,105,105,105	0
58	MG	14	3353	1/1	0.94	0.11	73,73,73,73	0
58	MG	14	3358	1/1	0.94	0.17	107,107,107,107	0
58	MG	14	3006	1/1	0.94	0.29	72,72,72,72	0
58	MG	14	3368	1/1	0.94	0.15	87,87,87,87	0
58	MG	14	3083	1/1	0.94	0.28	94,94,94,94	0
58	MG	14	3285	1/1	0.94	0.21	77,77,77,77	0
58	MG	1H	3193	1/1	0.94	0.40	104,104,104,104	0
58	MG	1H	3194	1/1	0.94	0.24	91,91,91,91	0
58	MG	14	3086	1/1	0.94	0.71	95,95,95,95	0
58	MG	14	3289	1/1	0.94	0.34	116,116,116,116	0
58	MG	14	3230	1/1	0.94	0.15	122,122,122,122	0
58	MG	1H	3451	1/1	0.94	0.20	85,85,85,85	0
58	MG	1H	3150	1/1	0.94	0.40	63,63,63,63	0
58	MG	14	3094	1/1	0.94	0.55	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3459	1/1	0.94	0.25	102,102,102,102	0
58	MG	14	3170	1/1	0.94	0.29	119,119,119,119	0
58	MG	14	3237	1/1	0.94	0.21	181,181,181,181	0
58	MG	14	3104	1/1	0.94	0.38	78,78,78,78	0
58	MG	1H	3055	1/1	0.94	0.17	74,74,74,74	0
58	MG	1H	3218	1/1	0.94	0.17	68,68,68,68	0
58	MG	1H	3469	1/1	0.94	0.24	124,124,124,124	0
58	MG	1H	3058	1/1	0.94	0.15	76,76,76,76	0
58	MG	1H	3329	1/1	0.94	0.10	105,105,105,105	0
58	MG	1G	1654	1/1	0.94	0.25	110,110,110,110	0
58	MG	1H	3477	1/1	0.94	0.05	114,114,114,114	0
58	MG	14	3180	1/1	0.94	0.34	81,81,81,81	0
58	MG	1H	3059	1/1	0.94	0.12	110,110,110,110	0
58	MG	1H	3130	1/1	0.94	0.36	79,79,79,79	0
58	MG	13	1671	1/1	0.94	0.20	107,107,107,107	0
58	MG	1H	3203	1/1	0.94	0.22	91,91,91,91	0
58	MG	1H	3006	1/1	0.94	0.27	71,71,71,71	0
58	MG	14	3256	1/1	0.94	0.28	110,110,110,110	0
58	MG	14	3188	1/1	0.94	1.22	93,93,93,93	0
58	MG	1H	3273	1/1	0.94	0.18	85,85,85,85	0
58	MG	14	3041	1/1	0.94	0.39	80,80,80,80	0
58	MG	1H	3385	1/1	0.94	0.07	91,91,91,91	0
58	MG	13	1667	1/1	0.94	0.58	91,91,91,91	0
58	MG	14	3050	1/1	0.94	0.12	87,87,87,87	0
58	MG	14	3204	1/1	0.95	0.25	73,73,73,73	0
58	MG	14	3329	1/1	0.95	1.16	91,91,91,91	0
58	MG	1H	3171	1/1	0.95	0.79	83,83,83,83	0
58	MG	1H	3172	1/1	0.95	0.30	89,89,89,89	0
58	MG	1H	3223	1/1	0.95	0.22	96,96,96,96	0
58	MG	13	1730	1/1	0.95	0.10	108,108,108,108	0
58	MG	14	3211	1/1	0.95	0.21	78,78,78,78	0
58	MG	13	1640	1/1	0.95	0.71	73,73,73,73	0
58	MG	1H	3430	1/1	0.95	0.08	81,81,81,81	0
58	MG	2L	103	1/1	0.95	0.51	128,128,128,128	0
58	MG	14	3069	1/1	0.95	0.32	106,106,106,106	0
58	MG	14	3070	1/1	0.95	0.16	94,94,94,94	0
58	MG	14	3001	1/1	0.95	0.93	97,97,97,97	0
58	MG	1H	3022	1/1	0.95	0.35	69,69,69,69	0
58	MG	1H	3118	1/1	0.95	0.60	104,104,104,104	0
58	MG	14	3347	1/1	0.95	0.05	87,87,87,87	0
58	MG	14	3348	1/1	0.95	0.11	86,86,86,86	0
58	MG	14	3161	1/1	0.95	0.54	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	13	1685	1/1	0.95	0.39	107,107,107,107	0
58	MG	13	1658	1/1	0.95	0.58	89,89,89,89	0
58	MG	1H	3179	1/1	0.95	0.37	101,101,101,101	0
58	MG	1H	3001	1/1	0.95	0.43	66,66,66,66	0
58	MG	14	3088	1/1	0.95	0.40	78,78,78,78	0
58	MG	13	1737	1/1	0.95	0.04	116,116,116,116	0
58	MG	1H	3453	1/1	0.95	0.08	93,93,93,93	0
58	MG	14	3377	1/1	0.95	0.05	106,106,106,106	0
58	MG	14	3378	1/1	0.95	0.09	83,83,83,83	0
58	MG	1H	3042	1/1	0.95	0.34	59,59,59,59	0
58	MG	13	1642	1/1	0.95	0.47	104,104,104,104	0
58	MG	14	3390	1/1	0.95	0.08	114,114,114,114	0
58	MG	14	3395	1/1	0.95	0.06	85,85,85,85	0
58	MG	14	3102	1/1	0.95	0.25	92,92,92,92	0
58	MG	1H	3293	1/1	0.95	0.30	94,94,94,94	0
58	MG	1G	1603	1/1	0.95	0.57	132,132,132,132	0
58	MG	14	3407	1/1	0.95	0.07	121,121,121,121	0
58	MG	1H	3239	1/1	0.95	0.25	71,71,71,71	0
58	MG	14	3241	1/1	0.95	0.47	115,115,115,115	0
58	MG	13	1713	1/1	0.95	0.05	117,117,117,117	0
58	MG	1H	3268	1/1	0.95	0.55	104,104,104,104	0
58	MG	1H	3053	1/1	0.95	0.17	81,81,81,81	0
58	MG	14	3112	1/1	0.95	0.10	108,108,108,108	0
58	MG	1G	1613	1/1	0.95	0.28	114,114,114,114	0
58	MG	13	1716	1/1	0.95	0.10	108,108,108,108	0
58	MG	1G	1615	1/1	0.95	0.22	142,142,142,142	0
58	MG	14	3119	1/1	0.95	0.27	83,83,83,83	0
58	MG	1J	203	1/1	0.95	0.33	124,124,124,124	0
58	MG	1H	3111	1/1	0.95	0.28	64,64,64,64	0
58	MG	14	3033	1/1	0.95	0.79	95,95,95,95	0
58	MG	14	3187	1/1	0.95	0.30	96,96,96,96	0
58	MG	13	1651	1/1	0.95	0.31	96,96,96,96	0
58	MG	1H	3363	1/1	0.95	0.21	81,81,81,81	0
58	MG	14	3043	1/1	0.95	0.38	69,69,69,69	0
58	MG	1H	3214	1/1	0.95	0.28	65,65,65,65	0
58	MG	1H	3375	1/1	0.95	0.16	81,81,81,81	0
58	MG	14	3048	1/1	0.95	0.21	90,90,90,90	0
58	MG	1G	1625	1/1	0.95	0.26	136,136,136,136	0
58	MG	1H	3057	1/1	0.95	0.27	75,75,75,75	0
58	MG	14	3052	1/1	0.95	0.14	83,83,83,83	0
58	MG	1H	3249	1/1	0.95	0.15	83,83,83,83	0
58	MG	1G	1629	1/1	0.95	0.34	121,121,121,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1700	1/1	0.95	0.07	123,123,123,123	0
58	MG	14	3203	1/1	0.95	0.28	84,84,84,84	0
58	MG	1H	3283	1/1	0.96	1.29	95,95,95,95	0
58	MG	14	3236	1/1	0.96	0.09	121,121,121,121	0
58	MG	1H	3060	1/1	0.96	0.57	111,111,111,111	0
58	MG	1H	3061	1/1	0.96	0.84	79,79,79,79	0
58	MG	14	3239	1/1	0.96	0.67	90,90,90,90	0
58	MG	1H	3452	1/1	0.96	0.21	102,102,102,102	0
58	MG	1G	1672	1/1	0.96	0.05	115,115,115,115	0
58	MG	1H	3228	1/1	0.96	0.80	74,74,74,74	0
58	MG	13	1639	1/1	0.96	0.24	87,87,87,87	0
58	MG	14	3079	1/1	0.96	0.25	87,87,87,87	0
58	MG	1H	3200	1/1	0.96	0.29	79,79,79,79	0
58	MG	1G	1617	1/1	0.96	0.05	159,159,159,159	0
58	MG	14	3326	1/1	0.96	0.65	104,104,104,104	0
58	MG	1H	3460	1/1	0.96	0.19	86,86,86,86	0
58	MG	14	3249	1/1	0.96	0.06	102,102,102,102	0
58	MG	1H	3463	1/1	0.96	0.19	103,103,103,103	0
58	MG	1H	3201	1/1	0.96	0.73	97,97,97,97	0
58	MG	1H	3040	1/1	0.96	0.41	71,71,71,71	0
58	MG	14	3087	1/1	0.96	0.42	68,68,68,68	0
58	MG	1G	1624	1/1	0.96	0.58	92,92,92,92	0
58	MG	1H	3005	1/1	0.96	0.33	79,79,79,79	0
58	MG	13	1720	1/1	0.96	0.06	126,126,126,126	0
58	MG	1H	3352	1/1	0.96	0.27	75,75,75,75	0
58	MG	14	3098	1/1	0.96	0.34	86,86,86,86	0
58	MG	14	3099	1/1	0.96	0.25	91,91,91,91	0
58	MG	1H	3236	1/1	0.96	0.19	89,89,89,89	0
58	MG	14	3008	1/1	0.96	0.39	77,77,77,77	0
58	MG	14	3009	1/1	0.96	0.51	74,74,74,74	0
58	MG	14	3184	1/1	0.96	0.26	92,92,92,92	0
58	MG	14	3011	1/1	0.96	0.56	85,85,85,85	0
58	MG	14	3265	1/1	0.96	0.14	110,110,110,110	0
58	MG	14	3106	1/1	0.96	0.36	85,85,85,85	0
58	MG	1H	3182	1/1	0.96	0.52	91,91,91,91	0
58	MG	14	3355	1/1	0.96	0.07	92,92,92,92	0
58	MG	1H	3296	1/1	0.96	0.89	86,86,86,86	0
58	MG	1H	3266	1/1	0.96	0.29	65,65,65,65	0
58	MG	14	3367	1/1	0.96	0.07	86,86,86,86	0
58	MG	14	3190	1/1	0.96	0.22	91,91,91,91	0
58	MG	1H	3372	1/1	0.96	0.07	73,73,73,73	0
58	MG	1H	3047	1/1	0.96	0.56	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3193	1/1	0.96	0.58	79,79,79,79	0
58	MG	1H	3485	1/1	0.96	0.15	83,83,83,83	0
58	MG	14	3114	1/1	0.96	0.57	66,66,66,66	0
58	MG	14	3379	1/1	0.96	0.04	110,110,110,110	0
58	MG	14	3380	1/1	0.96	0.08	94,94,94,94	0
58	MG	1H	3097	1/1	0.96	0.43	72,72,72,72	0
58	MG	14	3116	1/1	0.96	0.45	75,75,75,75	0
58	MG	14	3386	1/1	0.96	0.13	83,83,83,83	0
58	MG	1H	3378	1/1	0.96	0.10	90,90,90,90	0
58	MG	1H	3099	1/1	0.96	0.45	74,74,74,74	0
58	MG	16	201	1/1	0.96	0.11	114,114,114,114	0
58	MG	1H	3390	1/1	0.96	0.12	74,74,74,74	0
58	MG	1H	3392	1/1	0.96	0.17	81,81,81,81	0
58	MG	14	3406	1/1	0.96	0.06	121,121,121,121	0
58	MG	14	3124	1/1	0.96	0.47	90,90,90,90	0
58	MG	1H	3021	1/1	0.96	0.36	86,86,86,86	0
58	MG	1H	3165	1/1	0.96	0.43	99,99,99,99	0
58	MG	1H	3405	1/1	0.96	0.19	75,75,75,75	0
58	MG	14	3136	1/1	0.96	0.42	93,93,93,93	0
58	MG	14	3209	1/1	0.96	0.31	90,90,90,90	0
58	MG	1H	3007	1/1	0.96	0.31	65,65,65,65	0
58	MG	1H	3103	1/1	0.96	0.57	72,72,72,72	0
58	MG	1H	3104	1/1	0.96	0.31	66,66,66,66	0
58	MG	14	3040	1/1	0.96	0.40	72,72,72,72	0
58	MG	1H	3412	1/1	0.96	0.06	84,84,84,84	0
58	MG	14	3145	1/1	0.96	0.26	76,76,76,76	0
58	MG	1H	3009	1/1	0.96	0.27	98,98,98,98	0
58	MG	13	1721	1/1	0.96	0.05	100,100,100,100	0
58	MG	14	3222	1/1	0.96	0.82	95,95,95,95	0
58	MG	1H	3056	1/1	0.96	0.22	89,89,89,89	0
58	MG	C8	201	1/1	0.96	0.20	74,74,74,74	0
58	MG	1H	3219	1/1	0.96	0.16	120,120,120,120	0
58	MG	1G	1657	1/1	0.96	0.16	163,163,163,163	0
58	MG	13	1610	1/1	0.96	0.30	92,92,92,92	0
58	MG	14	3306	1/1	0.96	0.20	129,129,129,129	0
58	MG	14	3307	1/1	0.96	0.10	80,80,80,80	0
58	MG	13	1605	1/1	0.96	0.20	134,134,134,134	0
58	MG	1H	3434	1/1	0.96	0.13	82,82,82,82	0
58	MG	13	1646	1/1	0.96	0.24	129,129,129,129	0
58	MG	1H	3439	1/1	0.96	0.14	72,72,72,72	0
58	MG	1H	3444	1/1	0.96	0.13	85,85,85,85	0
60	ZN	G8	201	1/1	0.96	0.05	171,171,171,171	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
58	MG	1G	1608	1/1	0.96	0.20	119,119,119,119	0
58	MG	1G	1663	1/1	0.97	0.44	133,133,133,133	0
58	MG	1H	3079	1/1	0.97	0.45	68,68,68,68	0
58	MG	1H	3415	1/1	0.97	0.17	90,90,90,90	0
58	MG	14	3198	1/1	0.97	0.16	109,109,109,109	0
58	MG	16	210	1/1	0.97	0.08	87,87,87,87	0
58	MG	14	3093	1/1	0.97	0.64	71,71,71,71	0
58	MG	16	211	1/1	0.97	0.12	92,92,92,92	0
58	MG	14	3095	1/1	0.97	0.71	75,75,75,75	0
58	MG	16	212	1/1	0.97	0.11	104,104,104,104	0
58	MG	1H	3417	1/1	0.97	0.10	77,77,77,77	0
58	MG	1G	1670	1/1	0.97	0.05	112,112,112,112	0
58	MG	1H	3418	1/1	0.97	0.10	86,86,86,86	0
58	MG	1H	3419	1/1	0.97	0.09	76,76,76,76	0
58	MG	1H	3081	1/1	0.97	0.21	88,88,88,88	0
58	MG	1H	3421	1/1	0.97	0.04	129,129,129,129	0
58	MG	1H	3423	1/1	0.97	0.20	92,92,92,92	0
58	MG	1H	3425	1/1	0.97	0.12	77,77,77,77	0
58	MG	1H	3427	1/1	0.97	0.03	106,106,106,106	0
58	MG	P8	101	1/1	0.97	0.12	101,101,101,101	0
58	MG	14	3215	1/1	0.97	0.37	89,89,89,89	0
58	MG	14	3216	1/1	0.97	0.28	101,101,101,101	0
58	MG	1H	3428	1/1	0.97	0.21	89,89,89,89	0
58	MG	13	1741	1/1	0.97	0.17	88,88,88,88	0
58	MG	14	3003	1/1	0.97	0.34	76,76,76,76	0
58	MG	13	1602	1/1	0.97	0.35	98,98,98,98	0
58	MG	1H	3008	1/1	0.97	0.36	99,99,99,99	0
58	MG	1G	1606	1/1	0.97	0.53	93,93,93,93	0
58	MG	14	3118	1/1	0.97	0.26	73,73,73,73	0
58	MG	1G	1607	1/1	0.97	0.18	109,109,109,109	0
58	MG	14	3226	1/1	0.97	0.28	88,88,88,88	0
58	MG	1H	3088	1/1	0.97	0.22	81,81,81,81	0
58	MG	14	3121	1/1	0.97	0.39	69,69,69,69	0
58	MG	13	1664	1/1	0.97	0.08	105,105,105,105	0
58	MG	1G	1610	1/1	0.97	0.31	118,118,118,118	0
58	MG	13	1675	1/1	0.97	0.29	149,149,149,149	0
58	MG	14	3128	1/1	0.97	0.58	80,80,80,80	0
58	MG	1H	3436	1/1	0.97	0.10	96,96,96,96	0
58	MG	14	3130	1/1	0.97	0.28	93,93,93,93	0
58	MG	14	3016	1/1	0.97	0.43	68,68,68,68	0
58	MG	14	3017	1/1	0.97	0.42	68,68,68,68	0
58	MG	14	3135	1/1	0.97	0.28	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3437	1/1	0.97	0.06	85,85,85,85	0
58	MG	1H	3241	1/1	0.97	0.08	100,100,100,100	0
58	MG	1H	3041	1/1	0.97	0.29	73,73,73,73	0
58	MG	1H	3442	1/1	0.97	0.25	63,63,63,63	0
58	MG	13	1719	1/1	0.97	0.14	94,94,94,94	0
58	MG	14	3243	1/1	0.97	0.24	102,102,102,102	0
58	MG	14	3350	1/1	0.97	0.04	116,116,116,116	0
58	MG	1H	3094	1/1	0.97	0.35	77,77,77,77	0
58	MG	1H	3446	1/1	0.97	0.11	94,94,94,94	0
58	MG	1H	3180	1/1	0.97	0.13	97,97,97,97	0
58	MG	1G	1622	1/1	0.97	0.46	103,103,103,103	0
58	MG	14	3365	1/1	0.97	0.09	96,96,96,96	0
58	MG	14	3027	1/1	0.97	0.45	79,79,79,79	0
58	MG	1H	3210	1/1	0.97	0.47	101,101,101,101	0
58	MG	1H	3064	1/1	0.97	0.26	82,82,82,82	0
58	MG	1H	3065	1/1	0.97	0.34	77,77,77,77	0
58	MG	1H	3454	1/1	0.97	0.25	96,96,96,96	0
58	MG	14	3373	1/1	0.97	0.14	86,86,86,86	0
58	MG	13	1607	1/1	0.97	0.23	101,101,101,101	0
58	MG	1H	3125	1/1	0.97	0.38	75,75,75,75	0
58	MG	1H	3044	1/1	0.97	0.36	68,68,68,68	0
58	MG	14	3038	1/1	0.97	0.35	67,67,67,67	0
58	MG	1H	3462	1/1	0.97	0.15	90,90,90,90	0
58	MG	13	1643	1/1	0.97	0.35	80,80,80,80	0
58	MG	1H	3464	1/1	0.97	0.10	95,95,95,95	0
58	MG	14	3385	1/1	0.97	0.05	92,92,92,92	0
58	MG	1H	3361	1/1	0.97	0.18	72,72,72,72	0
58	MG	1H	3467	1/1	0.97	0.12	115,115,115,115	0
58	MG	14	3394	1/1	0.97	0.20	88,88,88,88	0
58	MG	14	3046	1/1	0.97	0.26	86,86,86,86	0
58	MG	14	3047	1/1	0.97	0.17	102,102,102,102	0
58	MG	14	3402	1/1	0.97	0.14	83,83,83,83	0
58	MG	14	3403	1/1	0.97	0.18	114,114,114,114	0
58	MG	1H	3015	1/1	0.97	0.96	77,77,77,77	0
58	MG	1H	3365	1/1	0.97	0.17	64,64,64,64	0
58	MG	1H	3102	1/1	0.97	0.71	73,73,73,73	0
58	MG	1H	3220	1/1	0.97	0.26	115,115,115,115	0
58	MG	14	3410	1/1	0.97	0.09	91,91,91,91	0
58	MG	14	3268	1/1	0.97	0.30	84,84,84,84	0
58	MG	1H	3474	1/1	0.97	0.05	110,110,110,110	0
58	MG	1H	3476	1/1	0.97	0.03	122,122,122,122	0
58	MG	14	3414	1/1	0.97	0.15	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3052	1/1	0.97	0.27	69,69,69,69	0
58	MG	1H	3478	1/1	0.97	0.06	95,95,95,95	0
58	MG	14	3172	1/1	0.97	0.23	75,75,75,75	0
58	MG	13	1622	1/1	0.97	0.30	99,99,99,99	0
58	MG	1H	3380	1/1	0.97	0.10	89,89,89,89	0
58	MG	1H	3381	1/1	0.97	0.15	80,80,80,80	0
58	MG	1H	3002	1/1	0.97	0.45	64,64,64,64	0
58	MG	14	3063	1/1	0.97	0.41	79,79,79,79	0
58	MG	14	3065	1/1	0.97	0.27	80,80,80,80	0
58	MG	1H	3386	1/1	0.97	0.06	109,109,109,109	0
58	MG	1H	3294	1/1	0.97	0.09	103,103,103,103	0
58	MG	1H	3106	1/1	0.97	0.10	82,82,82,82	0
58	MG	1H	3394	1/1	0.97	0.07	89,89,89,89	0
58	MG	14	3071	1/1	0.97	0.34	69,69,69,69	0
58	MG	1H	3135	1/1	0.97	0.12	69,69,69,69	0
58	MG	14	3074	1/1	0.97	0.50	70,70,70,70	0
58	MG	14	3076	1/1	0.97	0.30	83,83,83,83	0
58	MG	14	3078	1/1	0.97	0.44	82,82,82,82	0
58	MG	1H	3107	1/1	0.97	0.35	95,95,95,95	0
58	MG	1H	3401	1/1	0.97	0.15	71,71,71,71	0
58	MG	1H	3004	1/1	0.97	0.26	60,60,60,60	0
58	MG	1H	3406	1/1	0.97	0.08	82,82,82,82	0
58	MG	13	1729	1/1	0.97	0.13	96,96,96,96	0
58	MG	1H	3231	1/1	0.97	0.69	85,85,85,85	0
60	ZN	5A	101	1/1	0.97	0.07	164,164,164,164	0
58	MG	1H	3078	1/1	0.97	0.28	80,80,80,80	0
58	MG	1H	3370	1/1	0.98	0.09	68,68,68,68	0
58	MG	1H	3371	1/1	0.98	0.06	77,77,77,77	0
58	MG	14	3056	1/1	0.98	0.21	109,109,109,109	0
58	MG	13	1629	1/1	0.98	0.50	79,79,79,79	0
58	MG	1H	3443	1/1	0.98	0.24	80,80,80,80	0
58	MG	1H	3373	1/1	0.98	0.15	86,86,86,86	0
58	MG	13	1654	1/1	0.98	0.21	111,111,111,111	0
58	MG	13	1613	1/1	0.98	0.09	109,109,109,109	0
58	MG	1H	3447	1/1	0.98	0.11	115,115,115,115	0
58	MG	1H	3448	1/1	0.98	0.21	88,88,88,88	0
58	MG	1H	3376	1/1	0.98	0.05	106,106,106,106	0
58	MG	14	3066	1/1	0.98	0.33	95,95,95,95	0
58	MG	1H	3377	1/1	0.98	0.05	119,119,119,119	0
58	MG	13	1736	1/1	0.98	0.09	126,126,126,126	0
58	MG	1G	1671	1/1	0.98	0.15	121,121,121,121	0
58	MG	1H	3379	1/1	0.98	0.17	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1624	1/1	0.98	0.55	118,118,118,118	0
58	MG	1G	1674	1/1	0.98	0.06	124,124,124,124	0
58	MG	1H	3455	1/1	0.98	0.13	87,87,87,87	0
58	MG	14	3075	1/1	0.98	0.97	96,96,96,96	0
58	MG	1G	1676	1/1	0.98	0.21	134,134,134,134	0
58	MG	14	3077	1/1	0.98	0.16	83,83,83,83	0
58	MG	13	1714	1/1	0.98	0.11	98,98,98,98	0
58	MG	14	3346	1/1	0.98	0.09	81,81,81,81	0
58	MG	1H	3458	1/1	0.98	0.13	88,88,88,88	0
58	MG	1H	3382	1/1	0.98	0.23	71,71,71,71	0
58	MG	14	3081	1/1	0.98	0.27	89,89,89,89	0
58	MG	1H	3383	1/1	0.98	0.14	75,75,75,75	0
58	MG	14	3352	1/1	0.98	0.05	84,84,84,84	0
58	MG	13	1657	1/1	0.98	0.17	103,103,103,103	0
58	MG	13	1632	1/1	0.98	0.21	83,83,83,83	0
58	MG	14	3356	1/1	0.98	0.18	85,85,85,85	0
58	MG	13	1718	1/1	0.98	0.12	110,110,110,110	0
58	MG	14	3359	1/1	0.98	0.10	94,94,94,94	0
58	MG	14	3361	1/1	0.98	0.11	79,79,79,79	0
58	MG	14	3364	1/1	0.98	0.16	105,105,105,105	0
58	MG	13	1601	1/1	0.98	0.27	86,86,86,86	0
58	MG	13	1691	1/1	0.98	0.81	94,94,94,94	0
58	MG	1G	1619	1/1	0.98	0.27	109,109,109,109	0
58	MG	1H	3395	1/1	0.98	0.17	103,103,103,103	0
58	MG	1H	3098	1/1	0.98	0.66	70,70,70,70	0
58	MG	14	3370	1/1	0.98	0.04	94,94,94,94	0
58	MG	1H	3470	1/1	0.98	0.13	85,85,85,85	0
58	MG	1H	3397	1/1	0.98	0.14	82,82,82,82	0
58	MG	14	3010	1/1	0.98	0.29	73,73,73,73	0
58	MG	14	3376	1/1	0.98	0.03	124,124,124,124	0
58	MG	14	3096	1/1	0.98	0.39	57,57,57,57	0
58	MG	1H	3018	1/1	0.98	0.58	66,66,66,66	0
58	MG	1H	3473	1/1	0.98	0.11	89,89,89,89	0
58	MG	1G	1626	1/1	0.98	0.27	118,118,118,118	0
58	MG	1H	3019	1/1	0.98	0.56	65,65,65,65	0
58	MG	14	3103	1/1	0.98	0.32	81,81,81,81	0
58	MG	14	3383	1/1	0.98	0.11	137,137,137,137	0
58	MG	14	3384	1/1	0.98	0.10	96,96,96,96	0
58	MG	1H	3475	1/1	0.98	0.10	89,89,89,89	0
58	MG	1H	3071	1/1	0.98	0.41	94,94,94,94	0
58	MG	14	3387	1/1	0.98	0.08	88,88,88,88	0
58	MG	14	3389	1/1	0.98	0.11	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1615	1/1	0.98	0.20	90,90,90,90	0
58	MG	14	3391	1/1	0.98	0.09	87,87,87,87	0
58	MG	14	3393	1/1	0.98	0.15	89,89,89,89	0
58	MG	14	3107	1/1	0.98	0.41	80,80,80,80	0
58	MG	13	1722	1/1	0.98	0.06	99,99,99,99	0
58	MG	14	3396	1/1	0.98	0.29	96,96,96,96	0
58	MG	1H	3245	1/1	0.98	0.21	100,100,100,100	0
58	MG	14	3398	1/1	0.98	0.07	111,111,111,111	0
58	MG	14	3401	1/1	0.98	0.10	127,127,127,127	0
58	MG	13	1616	1/1	0.98	0.05	121,121,121,121	0
58	MG	1G	1634	1/1	0.98	0.34	127,127,127,127	0
58	MG	13	1724	1/1	0.98	0.11	99,99,99,99	0
58	MG	1H	3413	1/1	0.98	0.11	90,90,90,90	0
58	MG	1H	3216	1/1	0.98	0.15	65,65,65,65	0
58	MG	1H	3281	1/1	0.98	0.69	108,108,108,108	0
58	MG	14	3408	1/1	0.98	0.07	130,130,130,130	0
58	MG	14	3409	1/1	0.98	0.32	85,85,85,85	0
58	MG	1H	3132	1/1	0.98	0.51	87,87,87,87	0
58	MG	13	1725	1/1	0.98	0.10	101,101,101,101	0
58	MG	13	1727	1/1	0.98	0.08	87,87,87,87	0
58	MG	1H	3003	1/1	0.98	0.58	72,72,72,72	0
58	MG	1H	3221	1/1	0.98	0.27	81,81,81,81	0
58	MG	1H	3080	1/1	0.98	0.27	73,73,73,73	0
58	MG	1H	3426	1/1	0.98	0.25	109,109,109,109	0
58	MG	14	3036	1/1	0.98	0.23	70,70,70,70	0
58	MG	14	3210	1/1	0.98	0.13	113,113,113,113	0
58	MG	13	1682	1/1	0.98	0.17	93,93,93,93	0
58	MG	14	3126	1/1	0.98	0.25	95,95,95,95	0
58	MG	14	3127	1/1	0.98	0.27	67,67,67,67	0
58	MG	1H	3224	1/1	0.98	0.55	76,76,76,76	0
58	MG	1H	3356	1/1	0.98	0.15	67,67,67,67	0
58	MG	1H	3357	1/1	0.98	0.11	79,79,79,79	0
58	MG	14	3131	1/1	0.98	0.33	79,79,79,79	0
58	MG	29	301	1/1	0.98	0.42	69,69,69,69	0
58	MG	14	3305	1/1	0.98	0.24	127,127,127,127	0
58	MG	1H	3138	1/1	0.98	0.17	67,67,67,67	0
58	MG	14	3133	1/1	0.98	0.39	98,98,98,98	0
58	MG	14	3220	1/1	0.98	0.40	97,97,97,97	0
58	MG	1H	3362	1/1	0.98	0.12	71,71,71,71	0
58	MG	13	1608	1/1	0.98	0.19	90,90,90,90	0
58	MG	1H	3364	1/1	0.98	0.20	74,74,74,74	0
58	MG	1H	3084	1/1	0.98	0.59	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	14	3138	1/1	0.98	0.18	96,96,96,96	0
58	MG	14	3049	1/1	0.98	0.49	74,74,74,74	0
58	MG	1G	1656	1/1	0.98	0.57	102,102,102,102	0
58	MG	14	3142	1/1	0.98	0.13	99,99,99,99	0
60	ZN	5I	102	1/1	0.98	0.14	114,114,114,114	0
58	MG	21	301	1/1	0.98	0.43	69,69,69,69	0
58	MG	1H	3367	1/1	0.98	0.18	84,84,84,84	0
58	MG	14	3053	1/1	0.98	0.56	82,82,82,82	0
58	MG	1H	3369	1/1	0.99	0.16	90,90,90,90	0
58	MG	14	3360	1/1	0.99	0.08	78,78,78,78	0
58	MG	14	3014	1/1	0.99	0.58	82,82,82,82	0
58	MG	14	3362	1/1	0.99	0.08	86,86,86,86	0
58	MG	1H	3407	1/1	0.99	0.15	83,83,83,83	0
58	MG	1H	3408	1/1	0.99	0.23	72,72,72,72	0
58	MG	1H	3051	1/1	0.99	0.32	90,90,90,90	0
58	MG	1H	3067	1/1	0.99	0.22	74,74,74,74	0
58	MG	1H	3456	1/1	0.99	0.23	68,68,68,68	0
58	MG	14	3290	1/1	0.99	0.29	113,113,113,113	0
58	MG	88	201	1/1	0.99	0.23	91,91,91,91	0
58	MG	14	3371	1/1	0.99	0.06	95,95,95,95	0
58	MG	13	1733	1/1	0.99	0.03	102,102,102,102	0
58	MG	1H	3087	1/1	0.99	0.29	69,69,69,69	0
58	MG	14	3374	1/1	0.99	0.17	107,107,107,107	0
58	MG	1G	1649	1/1	0.99	0.37	128,128,128,128	0
58	MG	13	1712	1/1	0.99	0.14	98,98,98,98	0
58	MG	1H	3414	1/1	0.99	0.21	79,79,79,79	0
58	MG	1H	3461	1/1	0.99	0.20	97,97,97,97	0
58	MG	13	1728	1/1	0.99	0.07	105,105,105,105	0
58	MG	14	3091	1/1	0.99	0.37	92,92,92,92	0
58	MG	14	3092	1/1	0.99	0.34	91,91,91,91	0
58	MG	1G	1601	1/1	0.99	0.20	115,115,115,115	0
58	MG	1H	3416	1/1	0.99	0.18	83,83,83,83	0
58	MG	13	1715	1/1	0.99	0.20	113,113,113,113	0
58	MG	1H	3091	1/1	0.99	0.49	58,58,58,58	0
58	MG	14	3097	1/1	0.99	0.29	83,83,83,83	0
58	MG	1G	1605	1/1	0.99	0.37	125,125,125,125	0
58	MG	14	3388	1/1	0.99	0.23	88,88,88,88	0
58	MG	1H	3466	1/1	0.99	0.07	94,94,94,94	0
58	MG	14	3100	1/1	0.99	0.10	107,107,107,107	0
58	MG	1H	3072	1/1	0.99	0.17	120,120,120,120	0
58	MG	14	3392	1/1	0.99	0.05	89,89,89,89	0
58	MG	14	3035	1/1	0.99	0.29	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	13	1711	1/1	0.99	0.18	85,85,85,85	0
58	MG	14	3037	1/1	0.99	0.18	80,80,80,80	0
58	MG	1H	3013	1/1	0.99	0.42	71,71,71,71	0
58	MG	14	3039	1/1	0.99	0.58	86,86,86,86	0
58	MG	1H	3422	1/1	0.99	0.15	102,102,102,102	0
58	MG	14	3399	1/1	0.99	0.03	116,116,116,116	0
58	MG	14	3400	1/1	0.99	0.11	113,113,113,113	0
58	MG	13	1731	1/1	0.99	0.08	108,108,108,108	0
58	MG	14	3042	1/1	0.99	0.26	74,74,74,74	0
58	MG	1H	3424	1/1	0.99	0.12	81,81,81,81	0
58	MG	2K	101	1/1	0.99	0.43	84,84,84,84	0
58	MG	1H	3045	1/1	0.99	0.37	68,68,68,68	0
58	MG	1H	3384	1/1	0.99	0.20	87,87,87,87	0
58	MG	1H	3358	1/1	0.99	0.12	70,70,70,70	0
58	MG	1H	3359	1/1	0.99	0.15	71,71,71,71	0
58	MG	1H	3388	1/1	0.99	0.12	78,78,78,78	0
58	MG	1H	3360	1/1	0.99	0.16	86,86,86,86	0
58	MG	1H	3391	1/1	0.99	0.19	79,79,79,79	0
58	MG	1H	3046	1/1	0.99	0.29	61,61,61,61	0
58	MG	1H	3393	1/1	0.99	0.08	95,95,95,95	0
58	MG	1H	3435	1/1	0.99	0.07	85,85,85,85	0
58	MG	1H	3484	1/1	0.99	0.18	81,81,81,81	0
58	MG	1H	3025	1/1	0.99	0.36	55,55,55,55	0
58	MG	13	1726	1/1	0.99	0.07	91,91,91,91	0
58	MG	14	3125	1/1	0.99	0.30	102,102,102,102	0
58	MG	14	3419	1/1	0.99	0.09	90,90,90,90	0
58	MG	1H	3049	1/1	0.99	0.47	82,82,82,82	0
58	MG	2L	101	1/1	0.99	0.52	97,97,97,97	0
58	MG	1H	3082	1/1	0.99	0.48	79,79,79,79	0
58	MG	1H	3440	1/1	0.99	0.12	70,70,70,70	0
58	MG	1H	3441	1/1	0.99	0.13	92,92,92,92	0
58	MG	14	3002	1/1	0.99	0.12	65,65,65,65	0
58	MG	14	3064	1/1	0.99	0.13	86,86,86,86	0
58	MG	1H	3366	1/1	0.99	0.10	73,73,73,73	0
58	MG	1H	3399	1/1	0.99	0.18	75,75,75,75	0
58	MG	14	3343	1/1	0.99	0.20	87,87,87,87	0
58	MG	14	3344	1/1	0.99	0.08	91,91,91,91	0
58	MG	14	3345	1/1	0.99	0.16	80,80,80,80	0
58	MG	1H	3400	1/1	0.99	0.19	86,86,86,86	0
58	MG	1H	3050	1/1	0.99	0.23	74,74,74,74	0
58	MG	1H	3402	1/1	0.99	0.10	76,76,76,76	0
58	MG	1H	3403	1/1	0.99	0.13	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	MG	1H	3404	1/1	0.99	0.06	84,84,84,84	0
58	MG	1H	3449	1/1	0.99	0.13	89,89,89,89	0
58	MG	14	3141	1/1	0.99	0.29	76,76,76,76	0
58	MG	14	3354	1/1	0.99	0.11	87,87,87,87	0
59	SF4	3E	301	8/8	0.99	0.18	95,111,117,118	0
59	SF4	32	302	8/8	0.99	0.14	127,146,153,155	0
58	MG	14	3073	1/1	0.99	0.15	67,67,67,67	0
58	MG	1H	3368	1/1	0.99	0.21	76,76,76,76	0
58	MG	14	3357	1/1	0.99	0.07	76,76,76,76	0
58	MG	14	3012	1/1	0.99	0.38	67,67,67,67	0
58	MG	1H	3387	1/1	1.00	0.18	60,60,60,60	0
58	MG	14	3363	1/1	1.00	0.23	80,80,80,80	0
58	MG	1H	3389	1/1	1.00	0.12	71,71,71,71	0
58	MG	14	3349	1/1	1.00	0.18	95,95,95,95	0

6.5 Other polymers [i](#)

There are no such residues in this entry.