



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 2, 2024 – 02:28 pm GMT

PDB ID : 5EL7
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 and antibiotic paromomycin
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
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

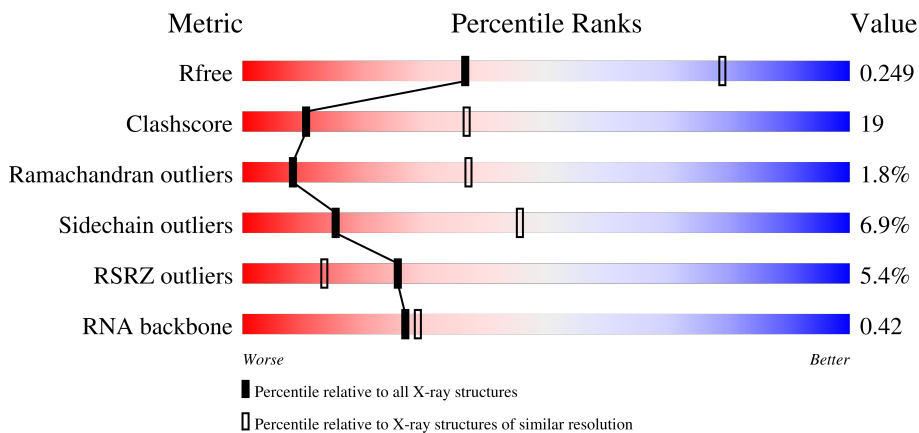
1 Overall quality at a glance

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	 36% 44% 16%
1	1G	1522	 37% 45% 15%
2	12	256	 6% 34% 42% 5% 18%

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Mol	Chain	Length	Quality of chain
2	1E	256	6% 40% 44% 6% 10%
3	22	239	19% 44% 37% 18%
3	2E	239	5% 49% 35% 14%
4	32	209	21% 45% 49%
4	3E	209	10% 57% 37% 5%
5	42	162	4% 52% 36% 9%
5	4E	162	8% 50% 41% 8%
6	52	101	10% 62% 36%
6	5E	101	13% 61% 37%
7	62	156	3% 45% 42% 11%
7	6E	156	2% 50% 44%
8	72	138	6% 57% 39%
8	7E	138	8% 43% 54%
9	82	128	2% 35% 52% 8% 5%
9	8E	128	40% 56%
10	1A	105	% 30% 38% 8% 24%
10	1I	105	7% 41% 43% 13%
11	2A	129	12% 47% 36% 12%
11	2I	129	12% 51% 33% 14%
12	3A	132	23% 48% 39% 5% 8%
12	3I	132	4% 52% 35% 5% 8%
13	4A	126	7% 41% 39% 6% 12%
13	4I	126	2% 48% 42% 5% 6%
14	5A	61	21% 46% 43% 5%
14	5I	61	52% 39% 7%

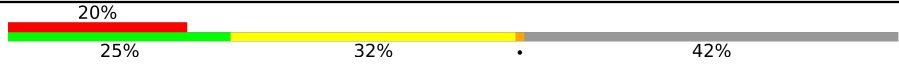

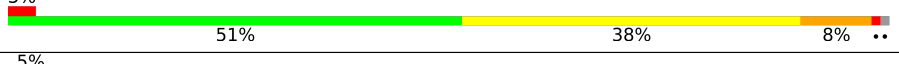
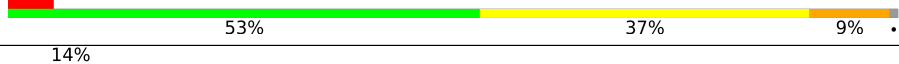
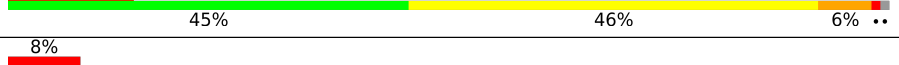

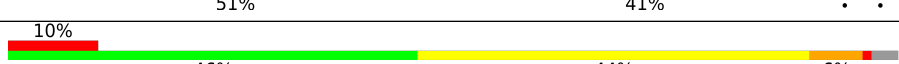
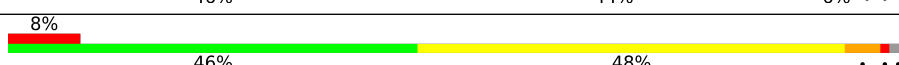


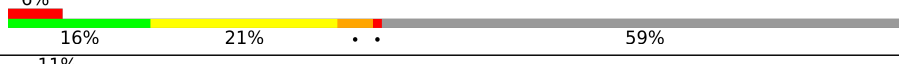

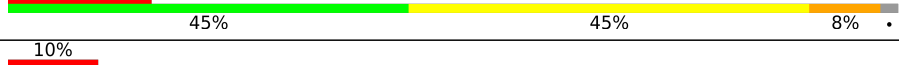
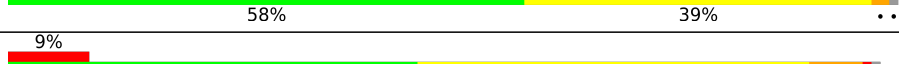


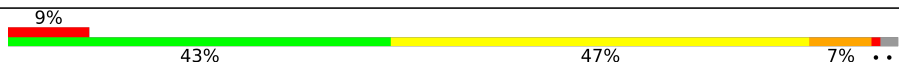
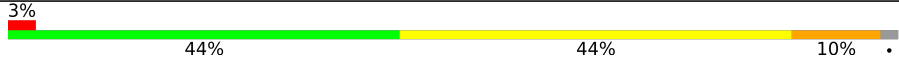
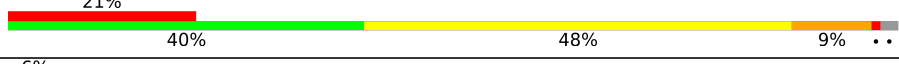
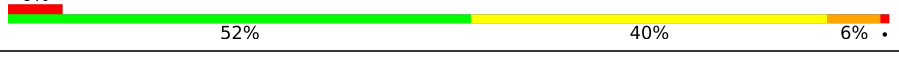





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Mol	Chain	Length	Quality of chain
15	6A	89	3% 53% 43% ..
15	6I	89	% 60% 37% ..
16	7A	88	% 53% 35% 7% 5%
16	7I	88	44% 47% 6%
17	8A	105	9% 54% 37% 6%
17	8I	105	5% 46% 43% 7% 5%
18	9A	88	10% 44% 30% 24%
18	9I	88	25% 44% 30% 23%
19	AA	93	5% 41% 19% 6% 33%
19	AI	93	3% 41% 41% 13%
20	BA	106	2% 53% 36% 7%
20	BI	106	% 42% 47% 8%
21	1B	27	7% 37% 41% 19%
21	1F	27	41% 44% 15%
22	1K	76	11% 18% 45% 25% 9%
22	1L	76	25% 28% 41% 24% ..
23	2K	77	49% 40% 8% .
23	2L	77	43% 39% 12% 6%
24	3K	76	4% 13% 36% 46% 5%
25	4K	27	7% 26% 22% 22% 26%
25	4L	27	7% 22% 26% 19% 30%
26	14	2917	% 34% 43% 18% ..
26	1H	2917	30% 42% 21% ..
27	16	122	% 39% 37% 20% .
27	1J	122	31% 45% 21% .

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Mol	Chain	Length	Quality of chain
28	71	229	
28	79	229	
29	11	276	
29	19	276	
30	21	206	
30	29	206	
31	31	210	
31	39	210	
32	41	182	
32	49	182	
33	51	180	
33	59	180	
34	61	148	
34	69	148	
35	15	140	
35	58	140	
36	25	122	
36	68	122	
37	35	150	
37	78	150	
38	45	141	
38	88	141	
39	55	118	
39	98	118	
40	65	112	





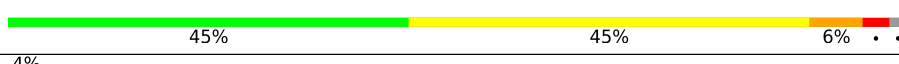
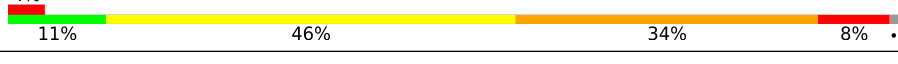
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Mol	Chain	Length	Quality of chain
40	A8	112	
41	75	146	
41	B8	146	
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51	L8	60	
52	M8	71	
53	J5	60	

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Mol	Chain	Length	Quality of chain
53	N8	60	
54	L5	49	
54	P8	49	
55	M5	65	
55	Q8	65	
56	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
57	MG	11	303	-	-	-	X
57	MG	13	1655	-	-	-	X
57	MG	13	1656	-	-	-	X
57	MG	13	1659	-	-	-	X
57	MG	13	1665	-	-	-	X
57	MG	13	1667	-	-	-	X
57	MG	14	3016	-	-	-	X
57	MG	14	3075	-	-	-	X
57	MG	14	3097	-	-	-	X
57	MG	14	3190	-	-	-	X
57	MG	14	3191	-	-	-	X
57	MG	14	3206	-	-	-	X
57	MG	14	3223	-	-	-	X
57	MG	14	3237	-	-	-	X
57	MG	14	3243	-	-	-	X
57	MG	14	3257	-	-	-	X
57	MG	14	3265	-	-	-	X
57	MG	14	3268	-	-	-	X
57	MG	16	206	-	-	-	X
57	MG	1G	1620	-	-	-	X
57	MG	1H	3069	-	-	-	X
57	MG	1H	3103	-	-	-	X
57	MG	1H	3108	-	-	-	X
57	MG	1H	3121	-	-	-	X
57	MG	1H	3136	-	-	-	X
57	MG	1H	3144	-	-	-	X
57	MG	1H	3190	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	1H	3220	-	-	-	X
57	MG	1H	3244	-	-	-	X
57	MG	1H	3280	-	-	-	X
57	MG	1H	3284	-	-	-	X
57	MG	1H	3289	-	-	-	X
57	MG	29	301	-	-	-	X
57	MG	2L	103	-	-	-	X
57	MG	P8	101	-	-	-	X
59	SF4	32	301	-	-	X	-

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 296184 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 rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	13	1496	Total 32157	C 14313	N 5960	O 10388	P 1496	0	0	0
1	1G	1506	Total 32368	C 14408	N 5999	O 10456	P 1505	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
13	1542	G	-	expression tag	GB 55771382
13	1543	C	-	expression tag	GB 55771382
13	1544	U	-	expression tag	GB 55771382
1G	1542	G	-	expression tag	GB 55771382
1G	1543	C	-	expression tag	GB 55771382
1G	1544	U	-	expression tag	GB 55771382

- 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	210	Total 1721	C 1100	N 309	O 308	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	196	Total 1541	C 975	N 298	O 267	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	3E	207	Total	C	N	O	S	0	0	0
			1690	1058	336	289	7			
4	32	208	Total	C	N	O	S	0	0	0
			1702	1066	339	290	7			

- 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	148	Total	C	N	O	S	0	0	0
			1134	718	215	197	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	154	Total	C	N	O	S	0	0	0
			1242	770	250	216	6			
7	62	139	Total	C	N	O	S	0	0	0
			1115	692	222	195	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			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	82	121	Total	C	N	O	0	0	0
			953	605	186	162			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	91	Total	C	N	O	S	0	0	0
			734	459	144	130	1			
10	1A	80	Total	C	N	O	0	0	0	
			646	403	129	114				

- 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	122	Total	C	N	O	S	0	0	0
			956	603	193	159	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	59	Total	C	N	O	S	0	0	0
			486	309	103	70	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	88	Total	C	N	O	S	0	0	0
			733	459	147	125	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	83	Total	C	N	O	S	0	0	0
			700	443	139	117	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	68	Total	C	N	O	0	0	0
			549	352	105	92			
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	62	Total	C	N	O	S	0	0	0
			481	306	85	88	2			

- 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	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	1F	23	Total	C	N	O	0	0	0
			199	122	48	29			
21	1B	22	Total	C	N	O	0	0	0
			188	116	44	28			

- 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			
22	1L	73	Total	C	N	O	P	S	0	0	0
			1563	700	271	518	73	1			

- Molecule 23 is a RNA chain called E. coli tRNA^{fMet}.

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	19	Total	C	N	O	P	0	0	0
			417	187	86	125	19			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
26	1H	2833	61028	27159	11418	19618	2833	0	0	0
26	14	2861	61630	27429	11535	19806	2860	0	0	0

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 rRNA.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
28	71	133	1033	651	194	187	1	0	0	0
28	79	57	456	283	91	82		0	0	0

- 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	274	Total	C	N	O	S	0	0	0
			2125	1341	422	359	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			
30	29	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	41	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			
32	49	179	Total	C	N	O	S	0	0	0
			1458	931	266	257	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	51	171	Total	C	N	O	S	0	0	0
			1312	832	246	233	1			
33	59	74	Total	C	N	O		0	0	0
			573	359	117	97				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	61	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

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

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

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

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

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

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

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

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

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

- 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
			875	550	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	133	Total	C	N	O	S	0	0	0
			1109	691	228	189	1			
41	75	133	Total	C	N	O	S	0	0	0
			1109	691	228	189	1			

- 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	100	Total	C	N	O	S	0	0	0
			774	499	141	133	1			
43	95	100	Total	C	N	O	S	0	0	0
			774	499	141	133	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	E8	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			
44	A5	113	Total	C	N	O	S	0	0	0
			899	566	177	154	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	S	0	0	0
			743	482	134	126	1			
45	B5	94	Total	C	N	O	S	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	105	Total	C	N	O	S	0	0	0
			796	513	150	128	5			
46	C5	104	Total	C	N	O	S	0	0	0
			794	510	152	127	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	171	Total	C	N	O	S	0	0	0
			1373	876	247	247	3			
47	D5	132	Total	C	N	O	S	0	0	0
			1074	691	193	188	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	76	Total	C	N	O	S	0	0	0
			606	376	128	101	1			
48	E5	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	K8	68	Total	C	N	O	S	0	0	0
			568	352	115	100	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
50	G5	66	558	346	113	98	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	S			
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	47	401	246	99	54	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	3L	75	1601	717	280	530	74	0	0	0

- Molecule 57 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

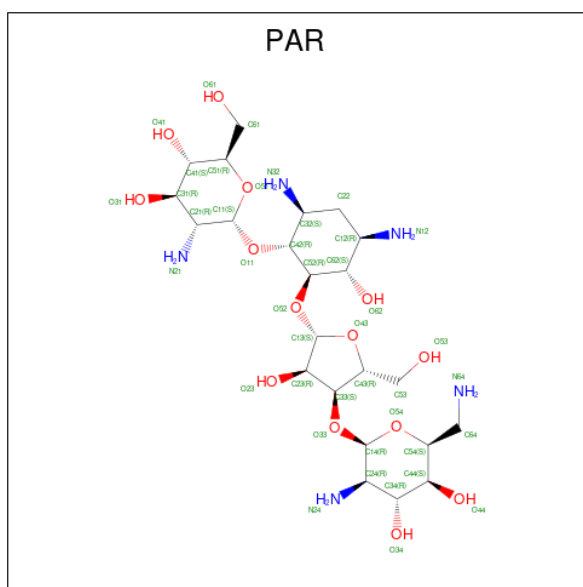
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	13	150	Total 150	Mg 150	0	0
57	5E	1	Total 1	Mg 1	0	0
57	1I	1	Total 1	Mg 1	0	0
57	3I	1	Total 1	Mg 1	0	0
57	5I	1	Total 1	Mg 1	0	0
57	BI	1	Total 1	Mg 1	0	0
57	2K	3	Total 3	Mg 3	0	0
57	1H	502	Total 502	Mg 502	0	0
57	16	12	Total 12	Mg 12	0	0
57	11	3	Total 3	Mg 3	0	0
57	21	3	Total 3	Mg 3	0	0
57	31	1	Total 1	Mg 1	0	0
57	41	2	Total 2	Mg 2	0	0
57	78	1	Total 1	Mg 1	0	0
57	88	1	Total 1	Mg 1	0	0
57	I8	1	Total 1	Mg 1	0	0
57	L8	1	Total 1	Mg 1	0	0
57	P8	1	Total 1	Mg 1	0	0
57	Q8	1	Total 1	Mg 1	0	0

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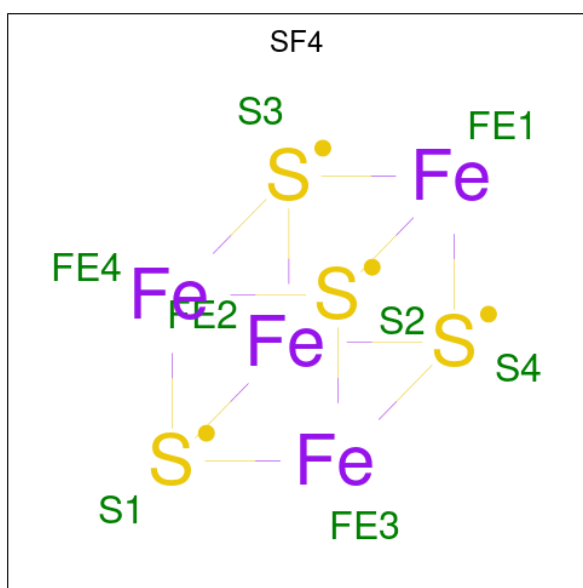
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1G	93	Total 93	Mg 93	0	0
57	7A	1	Total 1	Mg 1	0	0
57	2L	4	Total 4	Mg 4	0	0
57	14	454	Total 454	Mg 454	0	0
57	1J	6	Total 6	Mg 6	0	0
57	29	4	Total 4	Mg 4	0	0
57	39	2	Total 2	Mg 2	0	0
57	35	2	Total 2	Mg 2	0	0
57	45	3	Total 3	Mg 3	0	0
57	55	1	Total 1	Mg 1	0	0
57	85	1	Total 1	Mg 1	0	0
57	C5	1	Total 1	Mg 1	0	0
57	E5	1	Total 1	Mg 1	0	0
57	M5	1	Total 1	Mg 1	0	0

- Molecule 58 is PAROMOMYCIN (three-letter code: PAR) (formula: C₂₃H₄₅N₅O₁₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
58	13	1	42	23	5	14	0	0
58	1G	1	42	23	5	14	0	0

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



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Fe S		
59	3E	1	8	4 4	0	0
59	32	1	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	319	Total 319	O 319	0	0
61	3E	3	Total 3	O 3	0	0
61	4E	3	Total 3	O 3	0	0
61	8E	1	Total 1	O 1	0	0
61	1I	1	Total 1	O 1	0	0
61	3I	3	Total 3	O 3	0	0
61	5I	1	Total 1	O 1	0	0
61	6I	2	Total 2	O 2	0	0
61	8I	2	Total 2	O 2	0	0
61	BI	5	Total 5	O 5	0	0
61	1F	1	Total 1	O 1	0	0
61	1K	1	Total 1	O 1	0	0
61	2K	7	Total 7	O 7	0	0
61	3K	1	Total 1	O 1	0	0
61	4K	4	Total 4	O 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	1H	1158	Total 1158	O 1158	0	0
61	16	26	Total 26	O 26	0	0
61	11	12	Total 12	O 12	0	0
61	21	6	Total 6	O 6	0	0
61	31	9	Total 9	O 9	0	0
61	58	1	Total 1	O 1	0	0
61	78	6	Total 6	O 6	0	0
61	88	2	Total 2	O 2	0	0
61	C8	2	Total 2	O 2	0	0
61	E8	3	Total 3	O 3	0	0
61	F8	2	Total 2	O 2	0	0
61	G8	2	Total 2	O 2	0	0
61	I8	5	Total 5	O 5	0	0
61	J8	3	Total 3	O 3	0	0
61	K8	2	Total 2	O 2	0	0
61	L8	2	Total 2	O 2	0	0
61	P8	1	Total 1	O 1	0	0
61	Q8	9	Total 9	O 9	0	0
61	1G	226	Total 226	O 226	0	0
61	32	3	Total 3	O 3	0	0
61	42	1	Total 1	O 1	0	0

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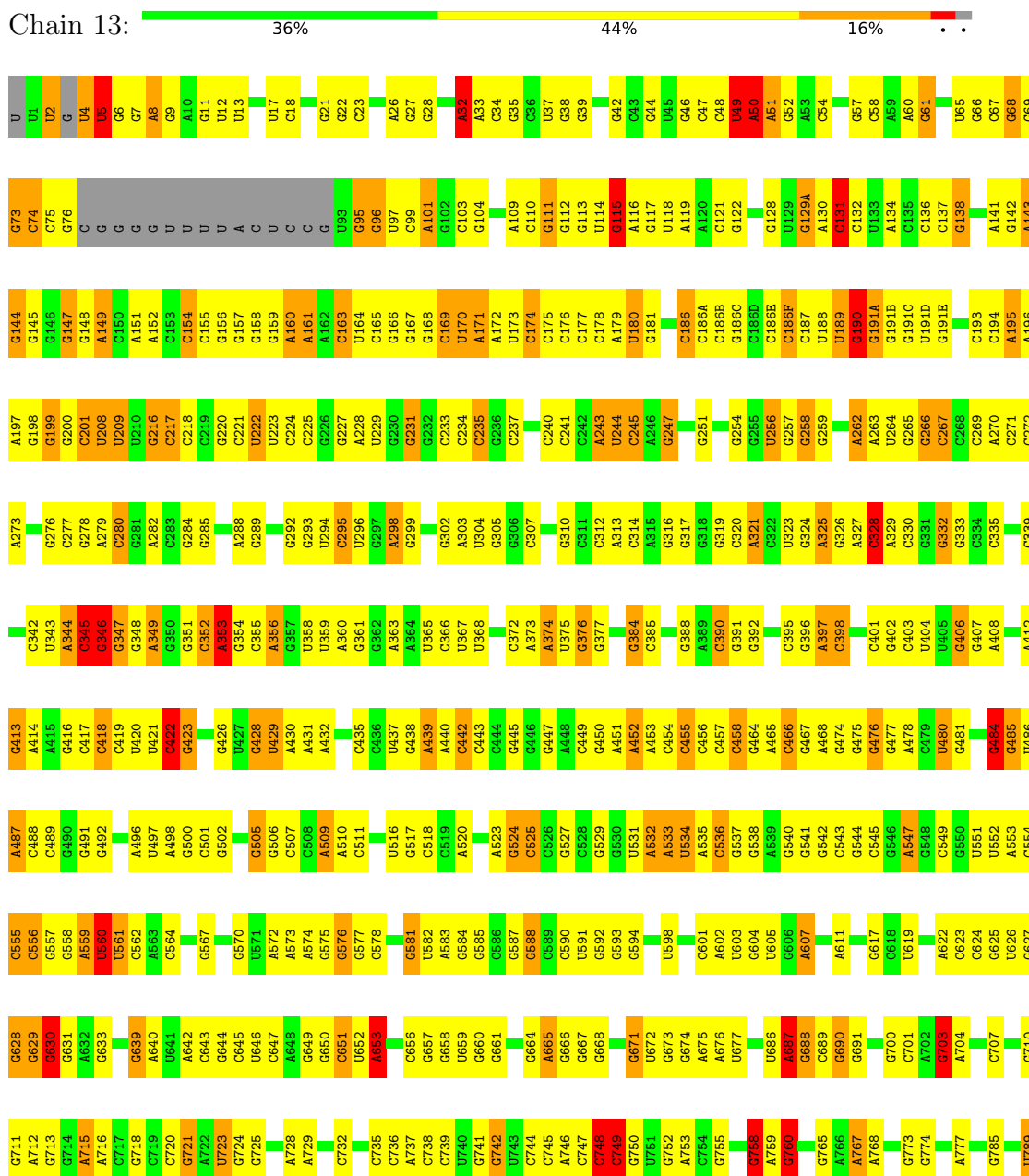
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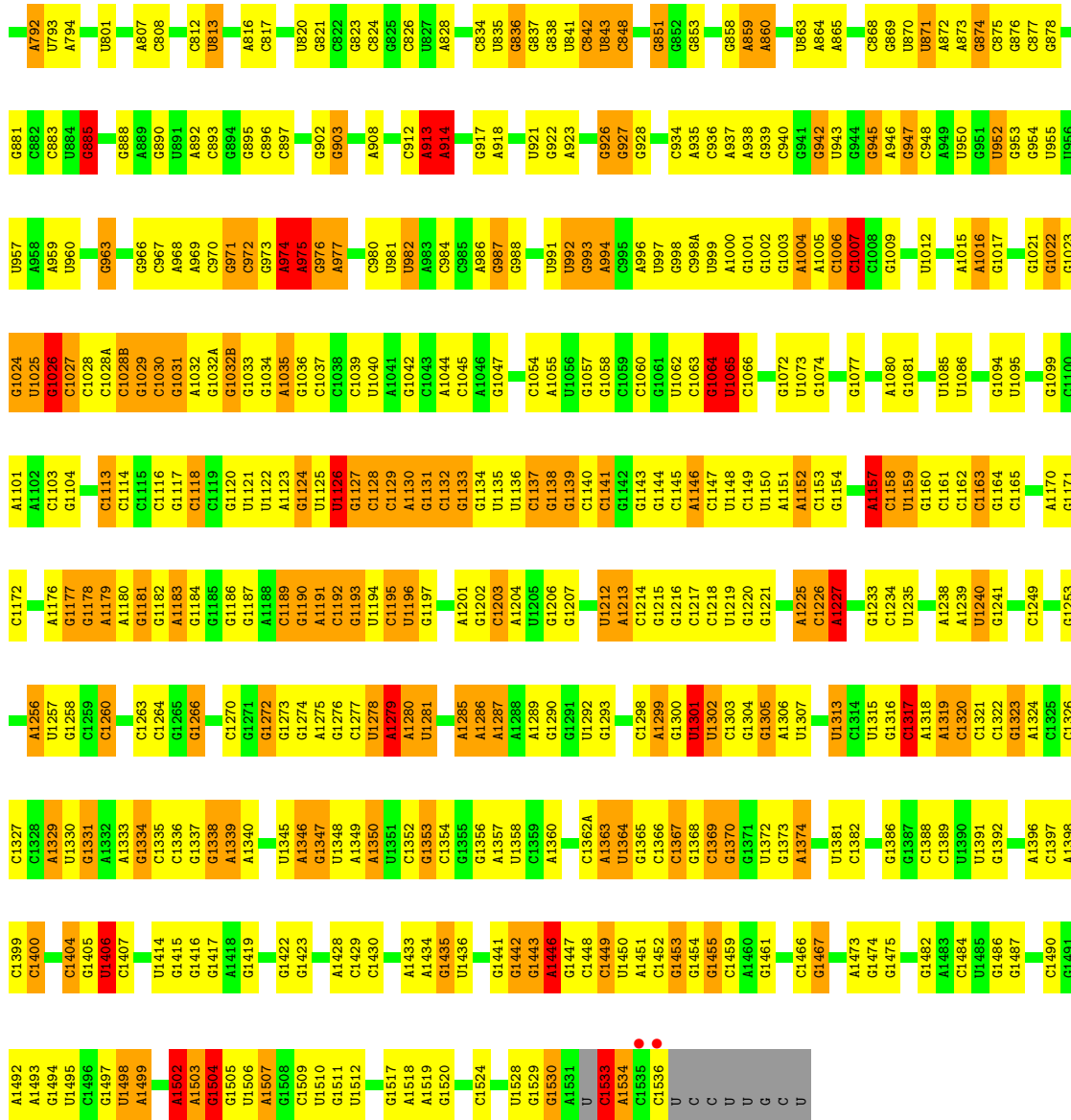
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	3A	1	Total O 1 1	0	0
61	6A	3	Total O 3 3	0	0
61	8A	1	Total O 1 1	0	0
61	BA	3	Total O 3 3	0	0
61	2L	1	Total O 1 1	0	0
61	4L	3	Total O 3 3	0	0
61	14	1015	Total O 1015 1015	0	0
61	1J	18	Total O 18 18	0	0
61	19	12	Total O 12 12	0	0
61	29	6	Total O 6 6	0	0
61	39	8	Total O 8 8	0	0
61	35	5	Total O 5 5	0	0
61	55	1	Total O 1 1	0	0
61	75	1	Total O 1 1	0	0
61	85	2	Total O 2 2	0	0
61	A5	2	Total O 2 2	0	0
61	B5	1	Total O 1 1	0	0
61	C5	4	Total O 4 4	0	0
61	H5	3	Total O 3 3	0	0
61	L5	2	Total O 2 2	0	0
61	M5	10	Total O 10 10	0	0

3 Residue-property plots

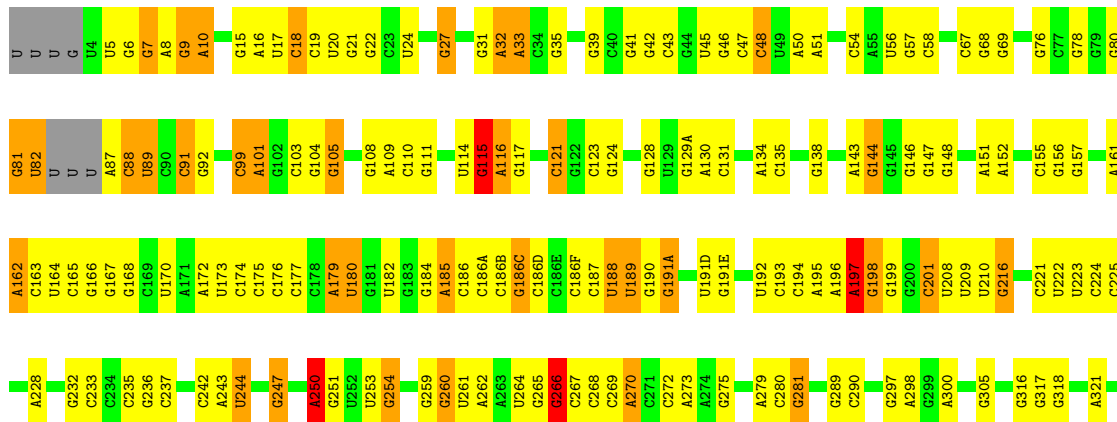
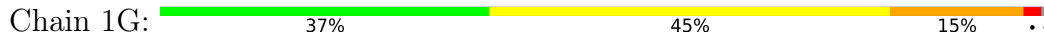
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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 rRNA

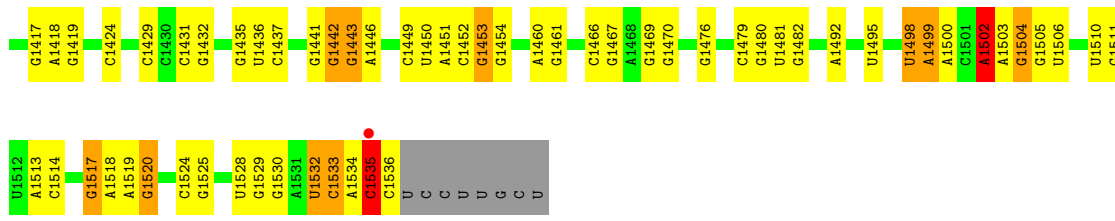




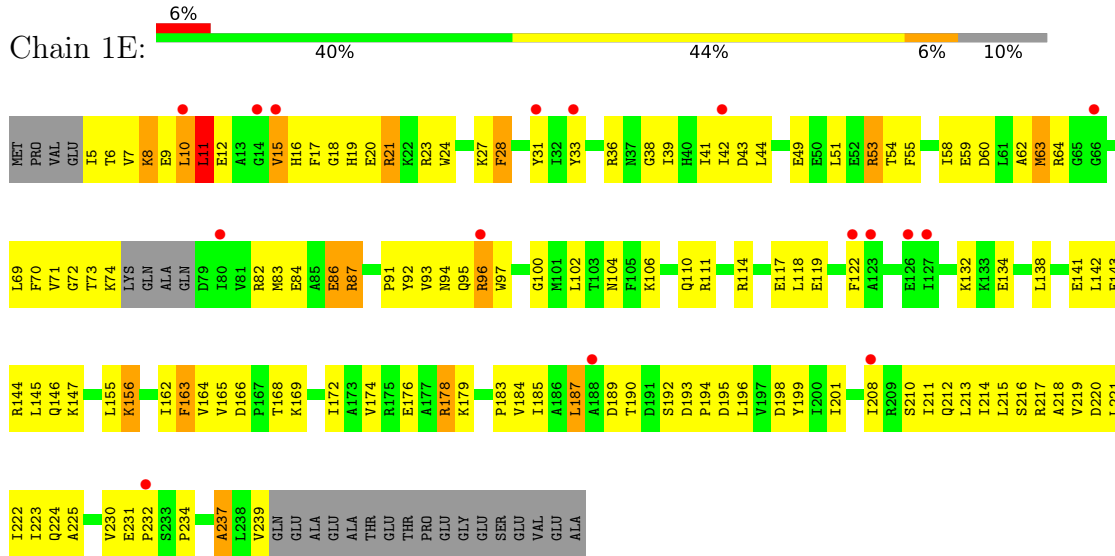
● Molecule 1: 16S rRNA



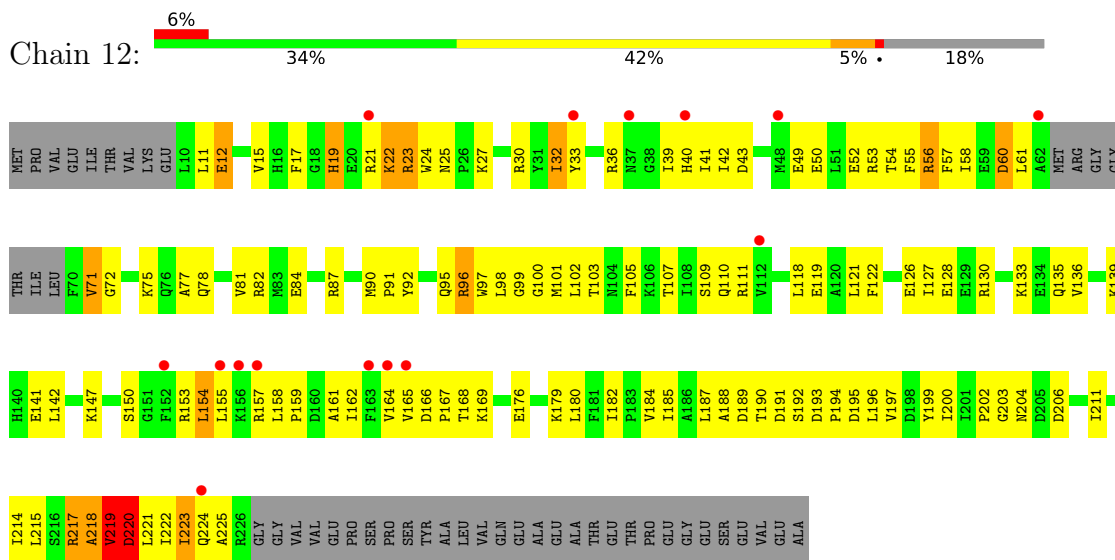
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G1207	A1274	C1208	A1275	C1209	G1276	C1210	C1277	U1211	A1342	G1278	A1279	A1280	U1281	C1282	A1285	A1286	A1287	A1288	A1289	A1290	G1291	C1292	G1293	A1294	C1295	C1298	A1299	G1300	U1301	U1302	C1303	G1304	C1305	G1306	U1307	U1313	U1314	U1315	G1316	C1317	A1318	A1319	C1320	C1321	C1322	A1324	C1325	C1326	C1327	U1328	A1329	U1330	C1331	A1332	C1333	G1334	C1335	C1336	C1337	C1338	C1339	C1340	C1341	C1342	C1343	C1344	C1345	C1346	C1347	C1348	C1349	C1350	C1351	C1352	A1353	C1354	A1356	A1359	C1361	C1362	C1362A	A1363	G1365	C1366	C1367	G1368	C1369	G1370	C1371	U1372	G1373	A1374	G1379	U1380	U1381	G1385	G1386	C1387	C1388	C1389	U1390	U1391	G1392	C1395	A1396	C1397	A1398	C1399	C1400	G1401	C1402	C1403	C1403	G1412	A1413	U1414																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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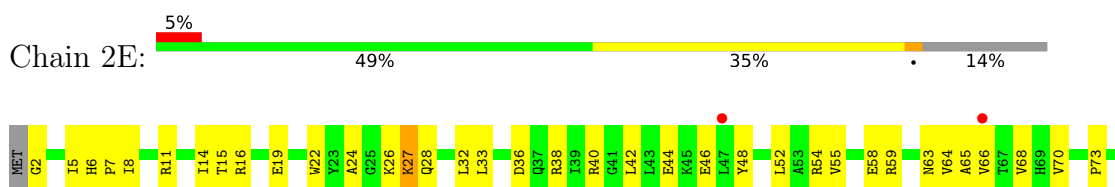
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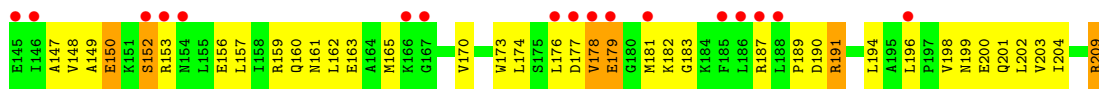


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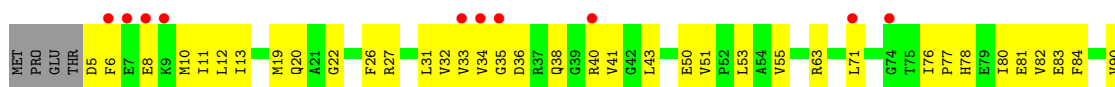


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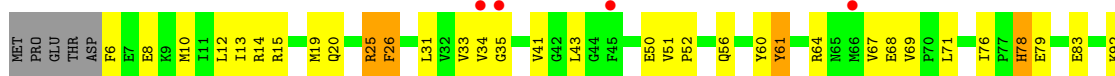




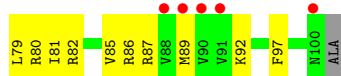
• Molecule 5: 30S ribosomal protein S5



• Molecule 5: 30S ribosomal protein S5



• Molecule 6: 30S ribosomal protein S6

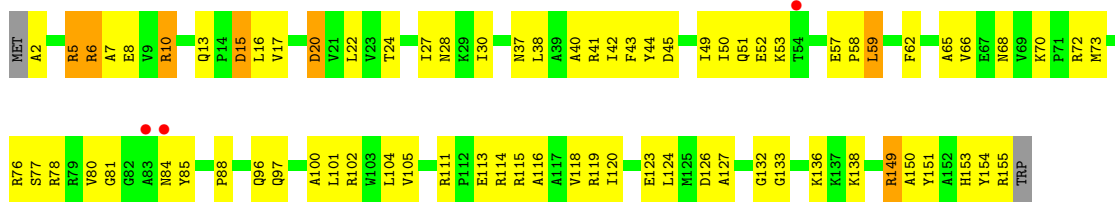


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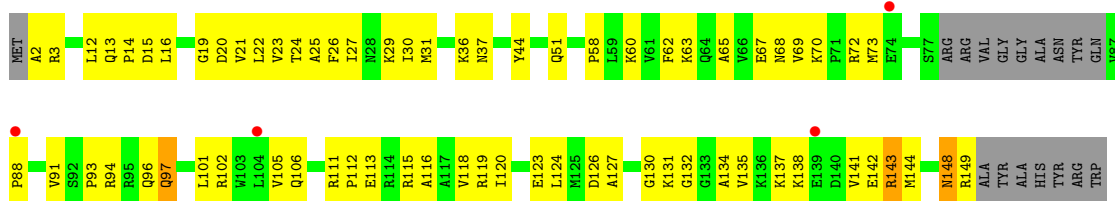


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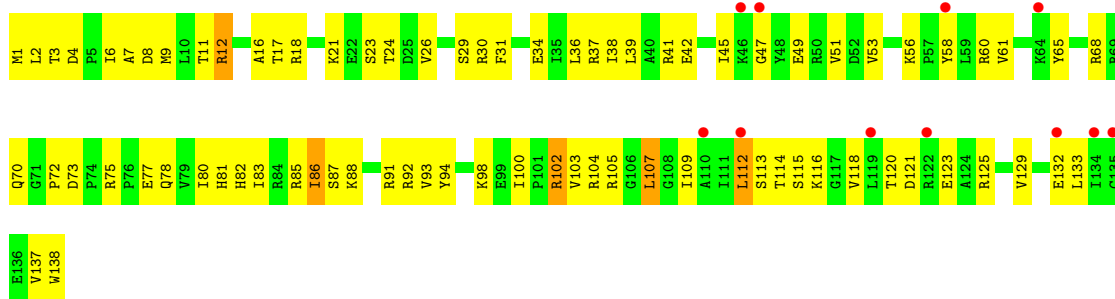




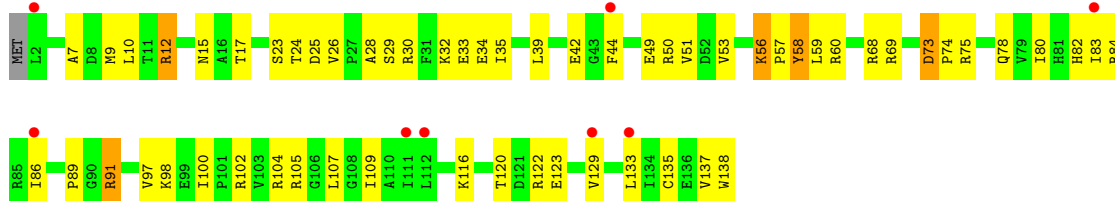
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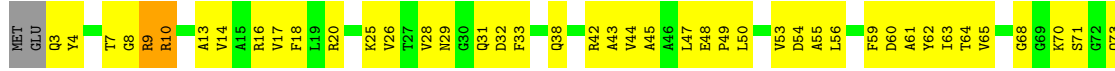
• Molecule 8: 30S ribosomal protein S8

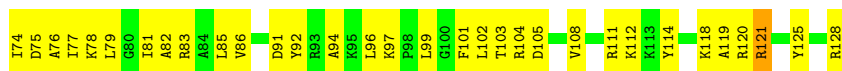


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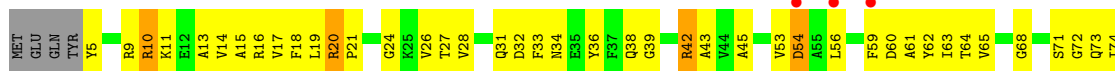


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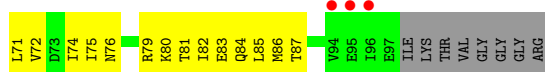
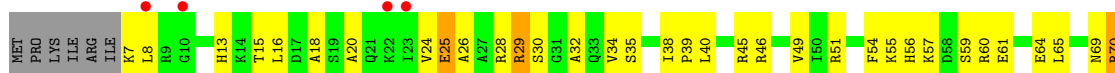




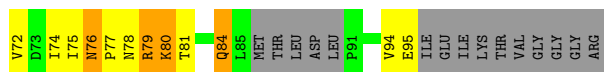
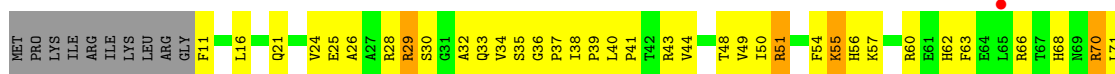
- Molecule 9: 30S ribosomal protein S9



- Molecule 10: 30S ribosomal protein S10



- Molecule 10: 30S ribosomal protein S10

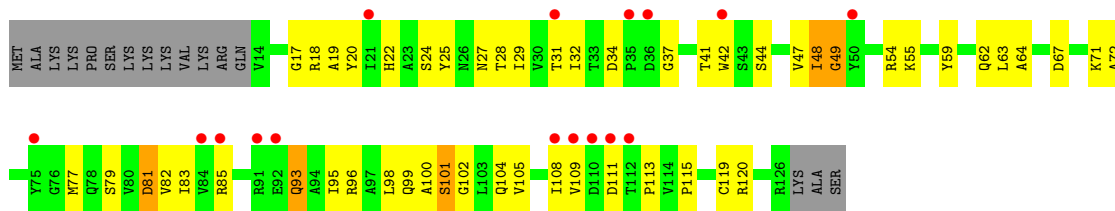


- Molecule 11: 30S ribosomal protein S11

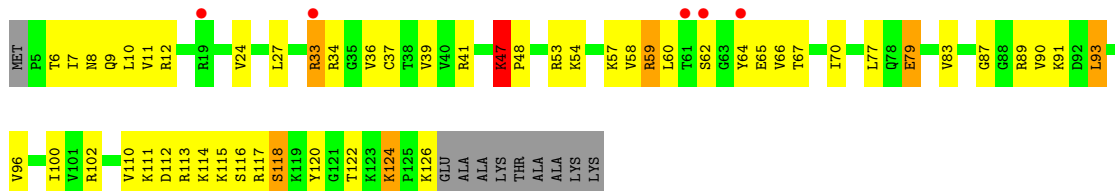


- Molecule 11: 30S ribosomal protein S11

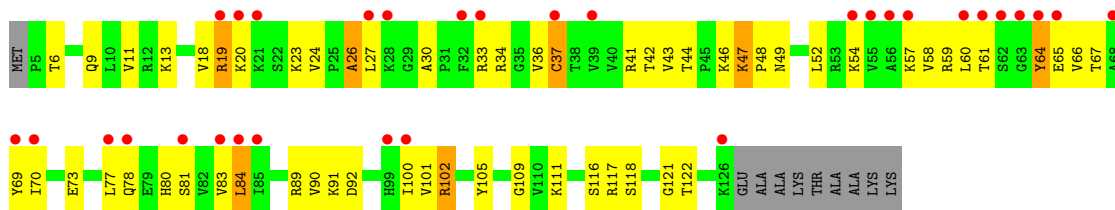




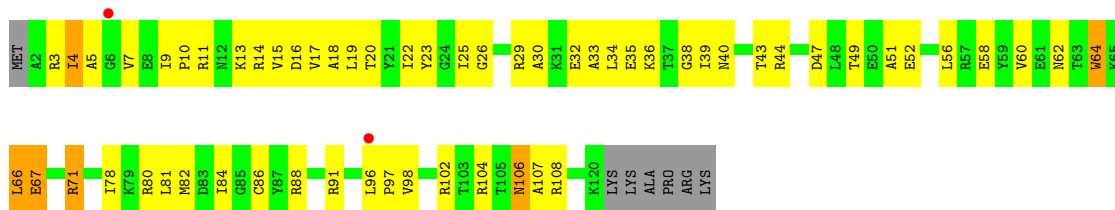
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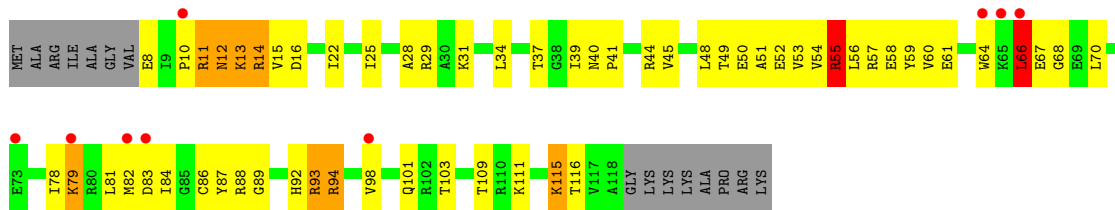
• Molecule 12: 30S ribosomal protein S12



• Molecule 13: 30S ribosomal protein S13



• Molecule 13: 30S ribosomal protein S13



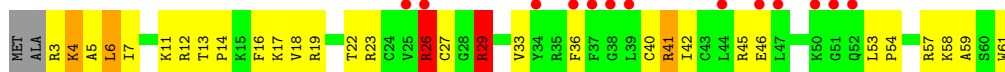
- Molecule 14: 30S ribosomal protein S14 type Z

Chain 5I:  52% 39% 7%



- Molecule 14: 30S ribosomal protein S14 type Z

Chain 5A:  21% 46% 43% 5%



- Molecule 15: 30S ribosomal protein S15

Chain 6I:  60% 37%



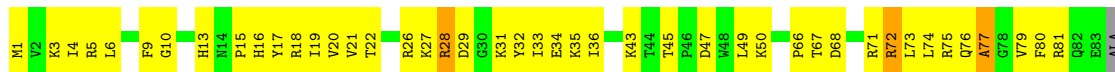
- Molecule 15: 30S ribosomal protein S15

Chain 6A:  3% 53% 43%



- Molecule 16: 30S ribosomal protein S16

Chain 7I:  44% 47% 6%



ARG
GLU
GLY
ALA

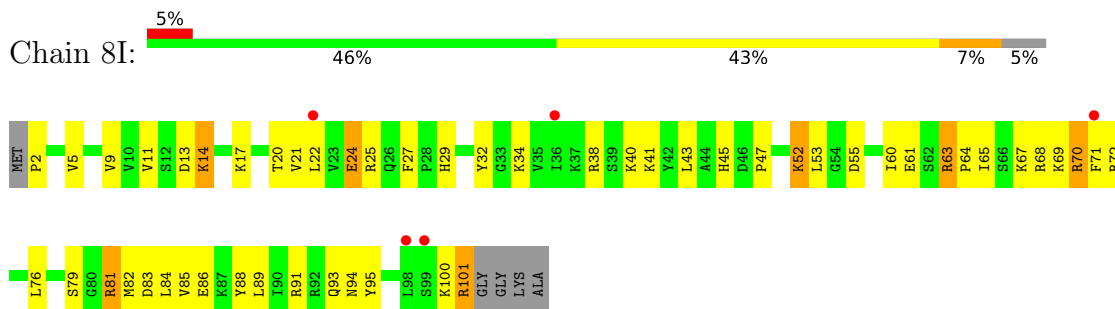
- Molecule 16: 30S ribosomal protein S16

Chain 7A:  53% 35% 7% 5%

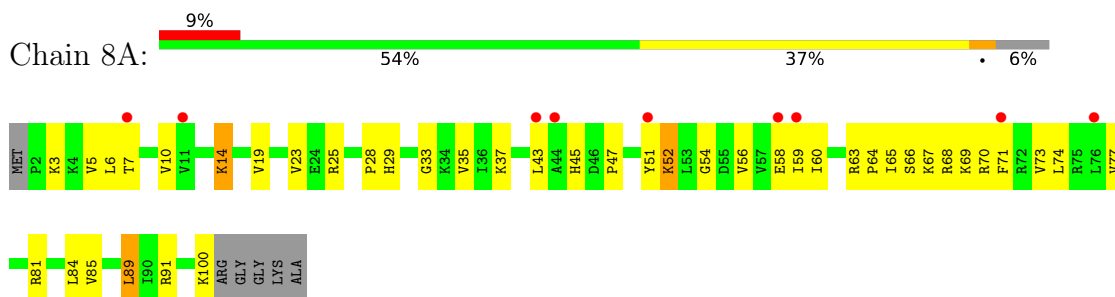


Q82
E83
A84
ARG
GLU
GLY
ALA

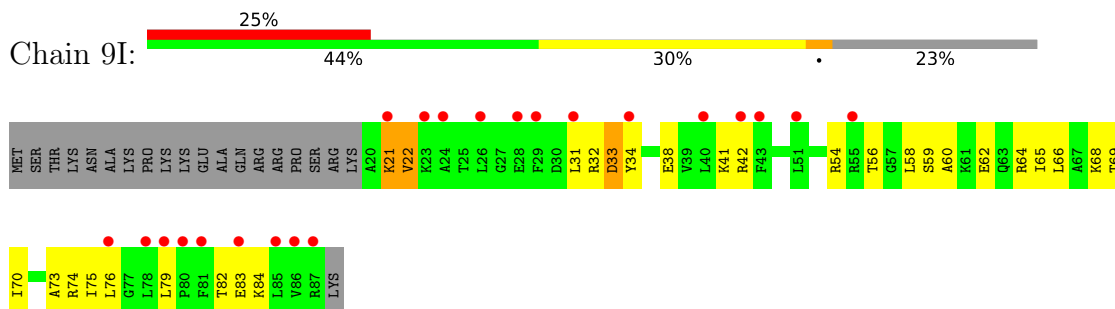
• Molecule 17: 30S ribosomal protein S17



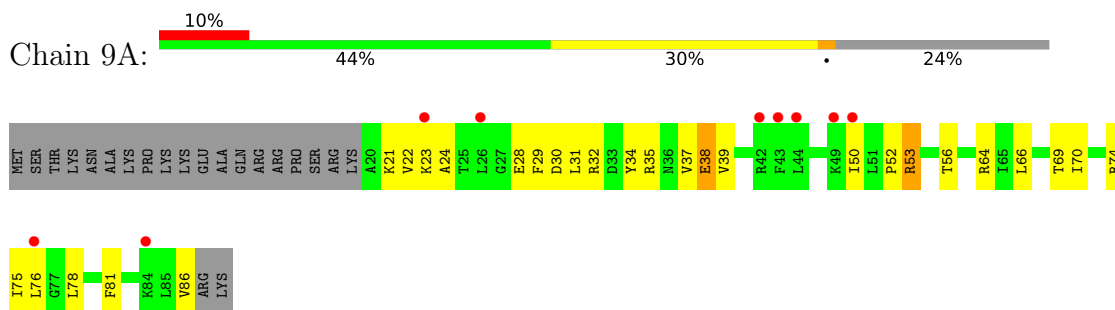
• Molecule 17: 30S ribosomal protein S17



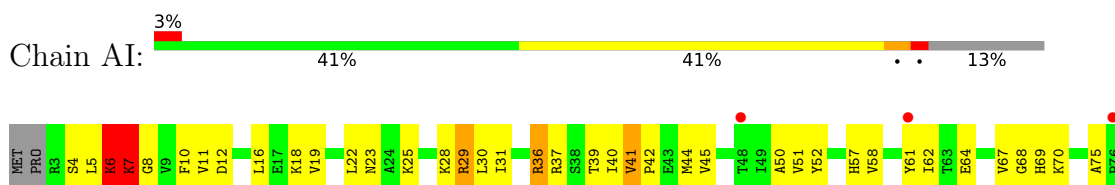
• Molecule 18: 30S ribosomal protein S18

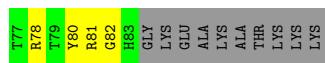


• Molecule 18: 30S ribosomal protein S18

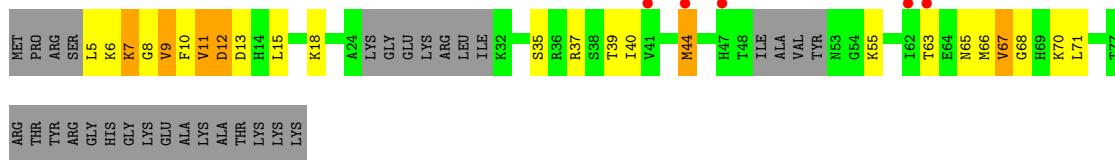


• Molecule 19: 30S ribosomal protein S19

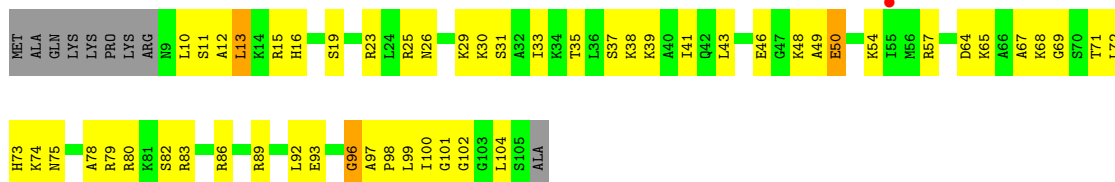




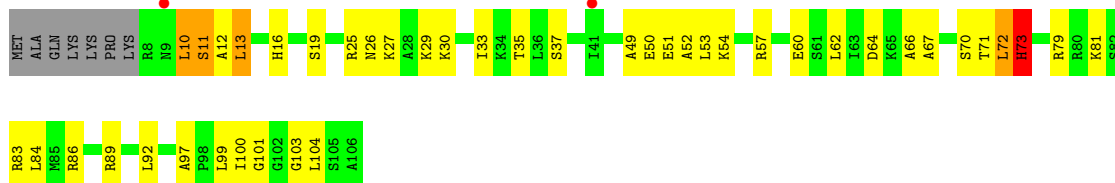
• Molecule 19: 30S ribosomal protein S19



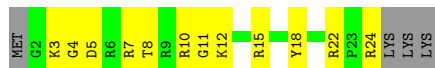
• Molecule 20: 30S ribosomal protein S20



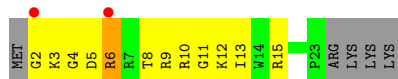
• Molecule 20: 30S ribosomal protein S20




• Molecule 21: 30S ribosomal protein Thx

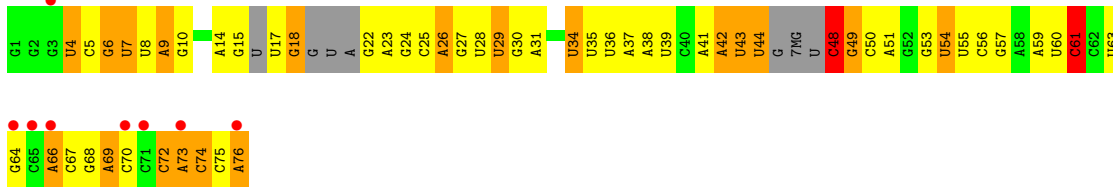


• Molecule 21: 30S ribosomal protein Thx



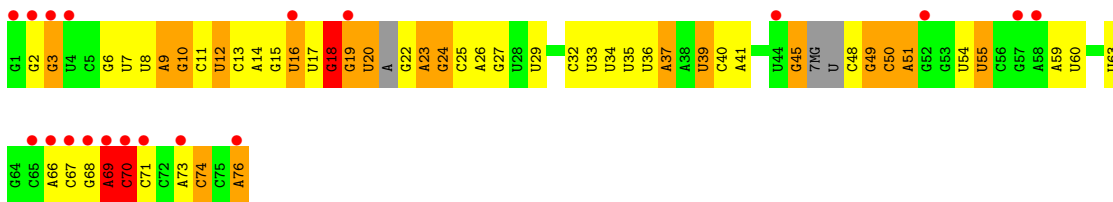
• Molecule 22: tRNA^{Lys}

Chain 1K: 



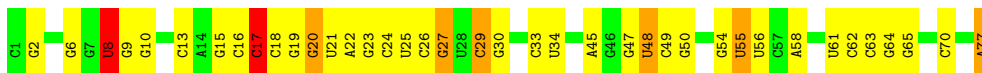
- Molecule 22: tRNA^{Lys}

Chain 1L: 



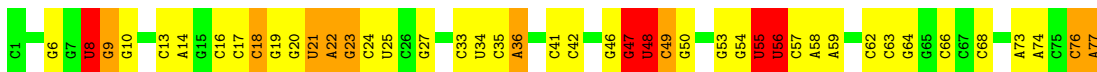
- Molecule 23: E. coli tRNA^{Met}

Chain 2K: 




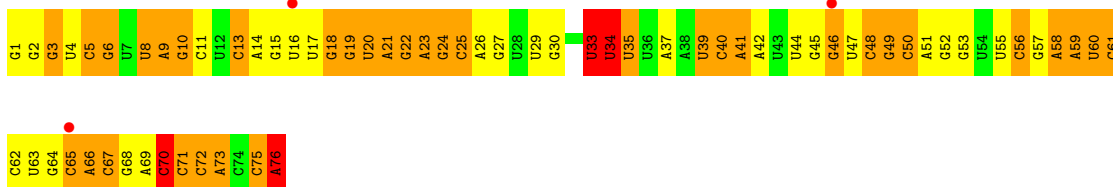
- Molecule 23: E. coli tRNA^{Met}

Chain 2L: 




- Molecule 24: tRNA^{Lys}

Chain 3K: 

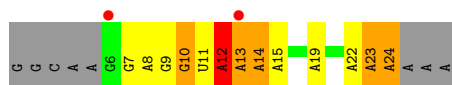


- Molecule 25: mRNA

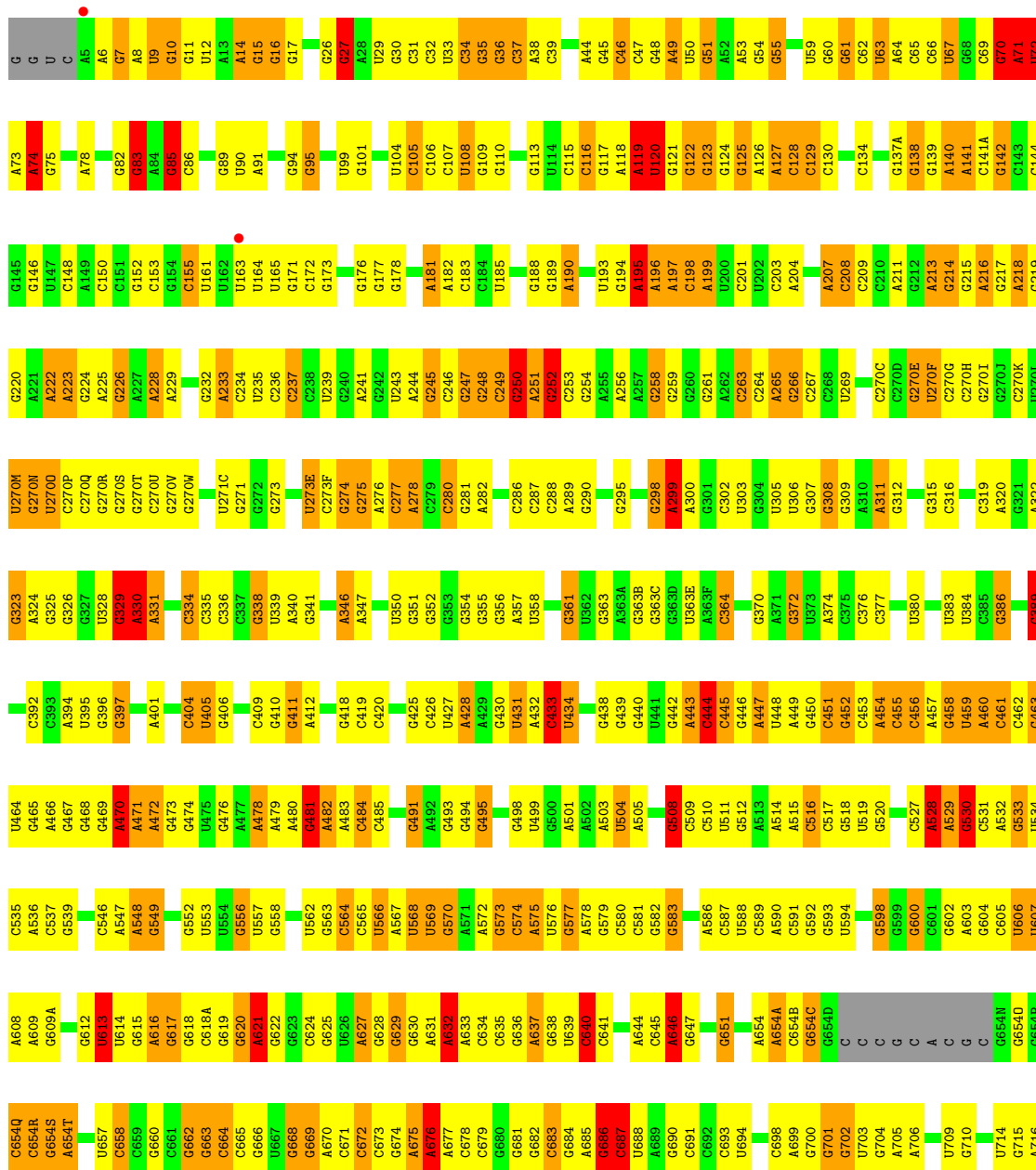
Chain 4K: 



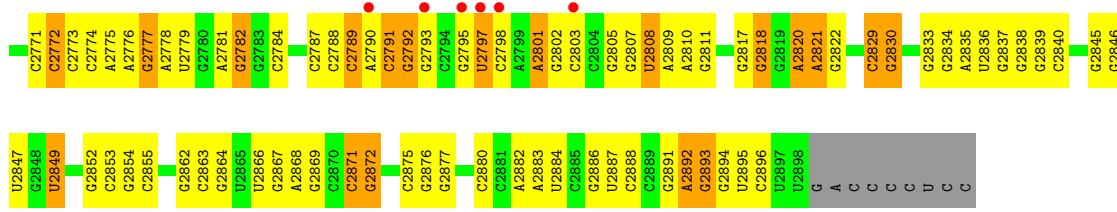
• Molecule 25: mRNA



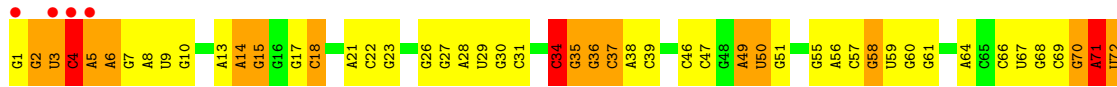
• Molecule 26: 23S rRNA



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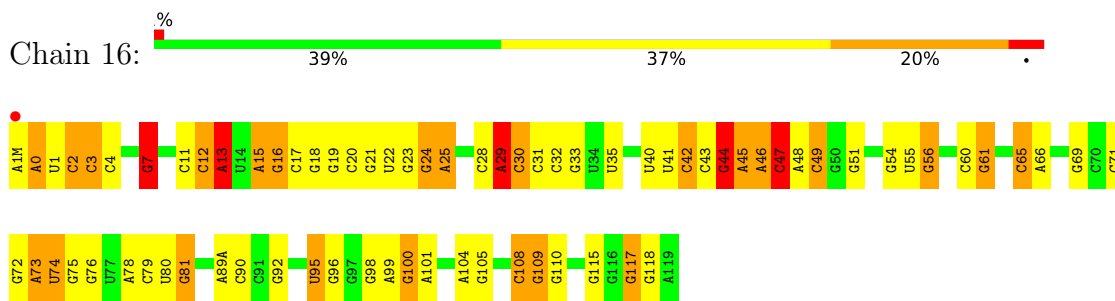
• Molecule 26: 23S rRNA



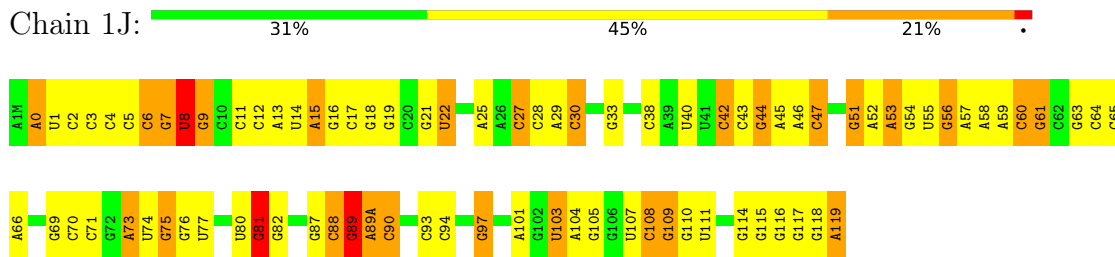
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A1933	A1829	C1672	U1602	G1602	G1602	G1498A	C1385	A1317	A1237	U1159	U	G1030	G966	A901
G1934	G1835	U1673	U1602	U1602	U1602	C1450	C1386	C1318	A1241	G1161	A	U1035	C967	C902
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A1938	U1679	G1534	A1460	U1535	U1535	A1460	U1394	U1322	A1247	G1165	G1099	G1039	C971	G906
A1939	G1681	A1609	G1609	A1536	A1536	G1466	A1395	U1323	U1249	C1166	C1100	A1040	A972	U907
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G1850	G1612	C1612	C1612	U1538	U1538	C1467	U1397	G1325	G1251	G1170	A1103	G1044	C974A	A911
				G1539	G1539	C1468	U1397	G1326	G1252	G1171	C1104	A	G975	U913

C1942	U2016	U2086	U2150	C2229	C2293	G2358	A2426	G2489	A2566	A2639	A2705	A2778	G2852
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G1944	C2231	U2092	G2152	C2232	C2295	C2390	G2428	U2491	C2568	G2641	G2707	G2780	G2854
U1945	U2093	U2099	G2153	U2232	U2296	A2361	G2429	U2492	G2569	G2642	G2708	A2781	G2855
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G1948	G2096	G2096	G2156	G2235	G2299	G2365	A2432	G2495	A2572	G2645	C2711	C2784	G2858
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U1956	A2030	A2030	C2162	C2241	G2307	G2373	A2438	G2501	G2578	G2651	U2716	A2790	G2867
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C1961	A2033	C2104	G2165	U2245	A2308	A2377	C2441	G2506	U2581	U2654	U2720	G2793	G2870
C1962	U2034	G2105	G2166	U2246	A2310	A2378	C2442	U2507	G2582	U2656	A2721	C2794	C2871
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G1967	C2039	C2110	A2171	G2251	G2319	G2383	G2447	G2513	C2592	U2662	U2726	A2801	G2876
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G2012	A2082	G2147	A2226	G2290	C2355	U2423	G2486	U2553	G2631	U2702	A2775	U2844	U2849
A2013	G2083	G2148	A2227	U2291	C2356	C2424	G2487	U2554	G2632	U2703	A2776	A2850	G2850
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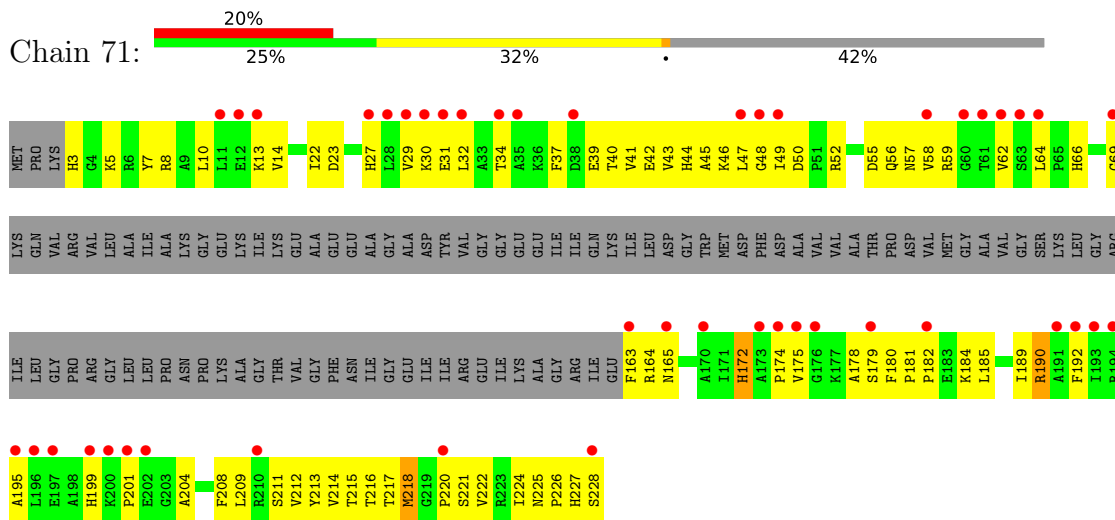
● Molecule 27: 5S rRNA



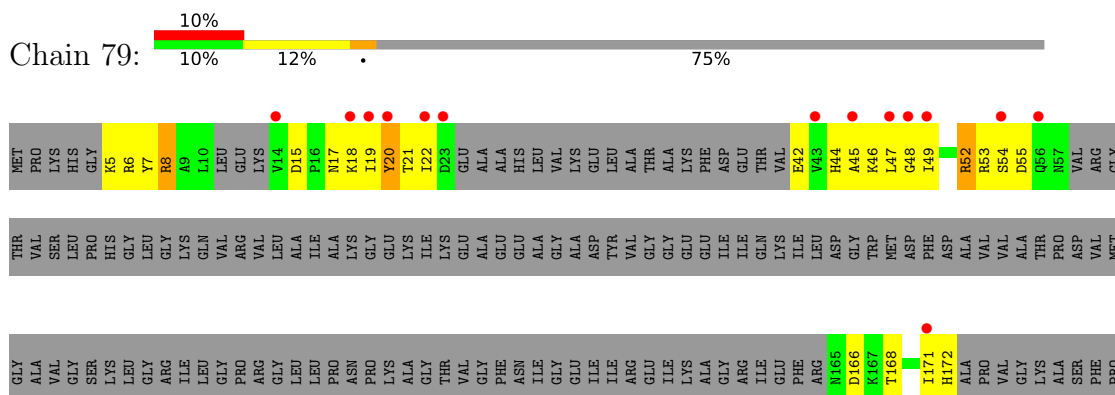
• Molecule 27: 5S rRNA

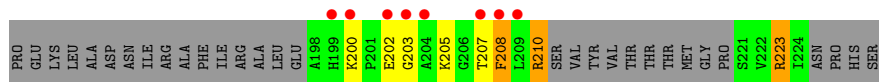


• Molecule 28: 50S ribosomal protein L1

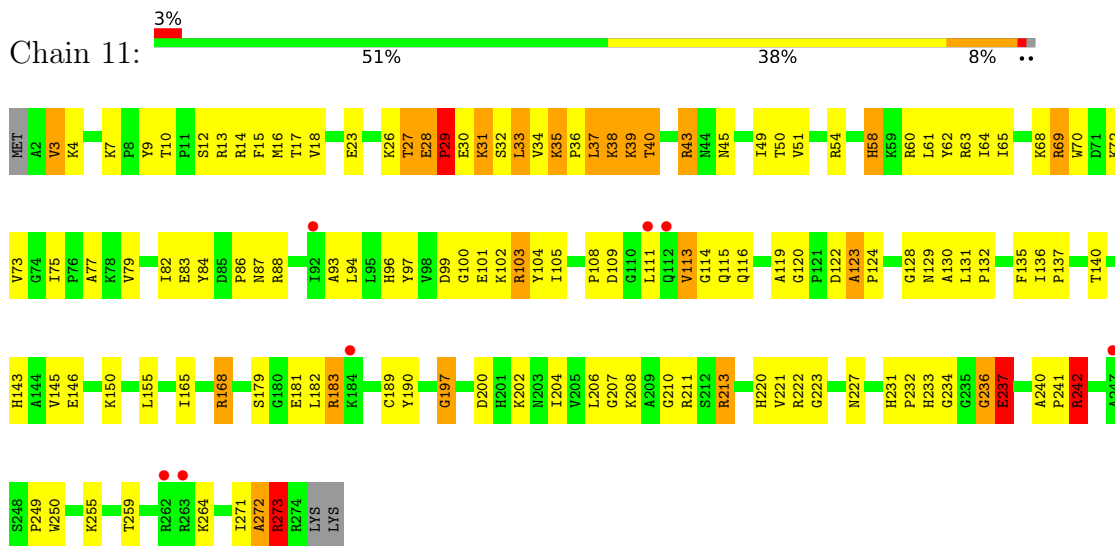


• Molecule 28: 50S ribosomal protein L1

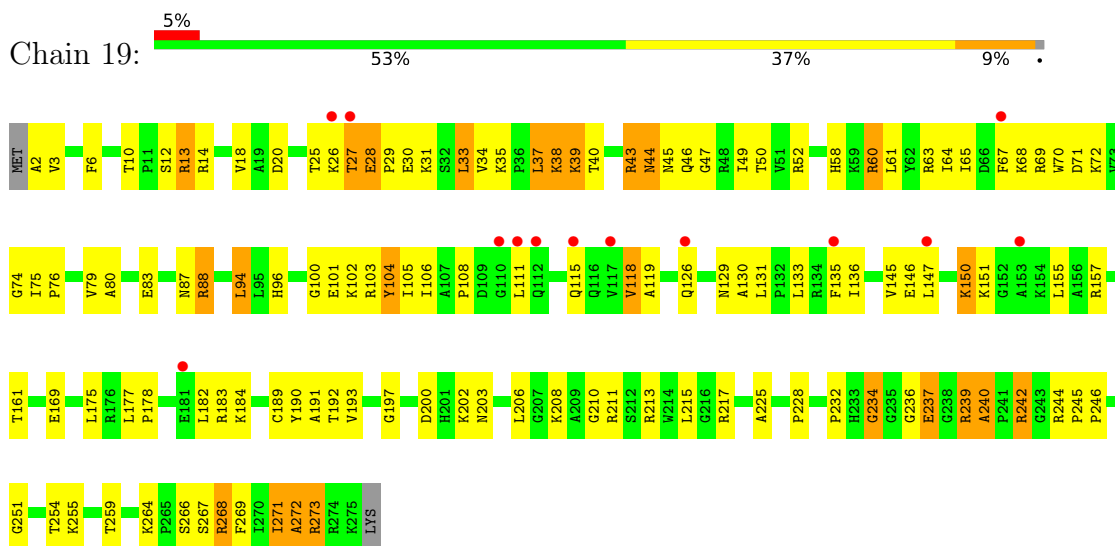




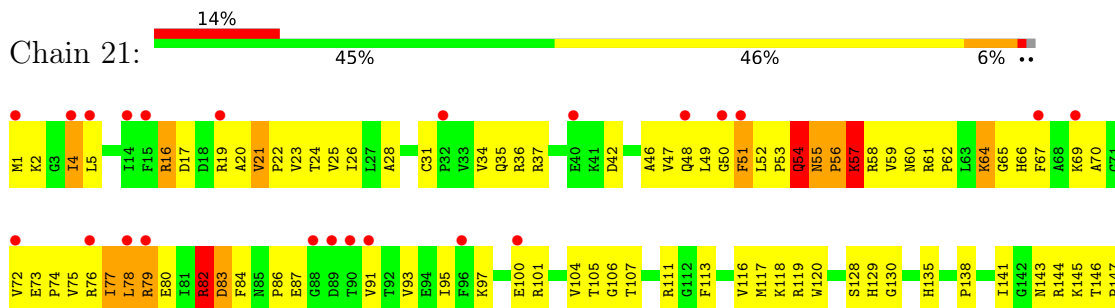
• Molecule 29: 50S ribosomal protein L2



• Molecule 29: 50S ribosomal protein L2

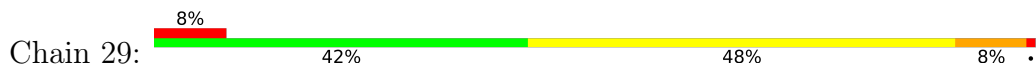


• Molecule 30: 50S ribosomal protein L3

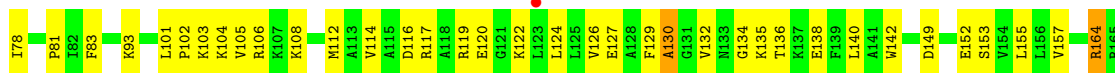




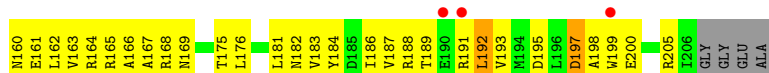
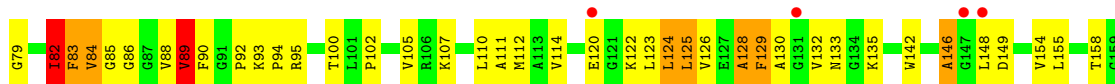
• Molecule 30: 50S ribosomal protein L3



• Molecule 31: 50S ribosomal protein L4

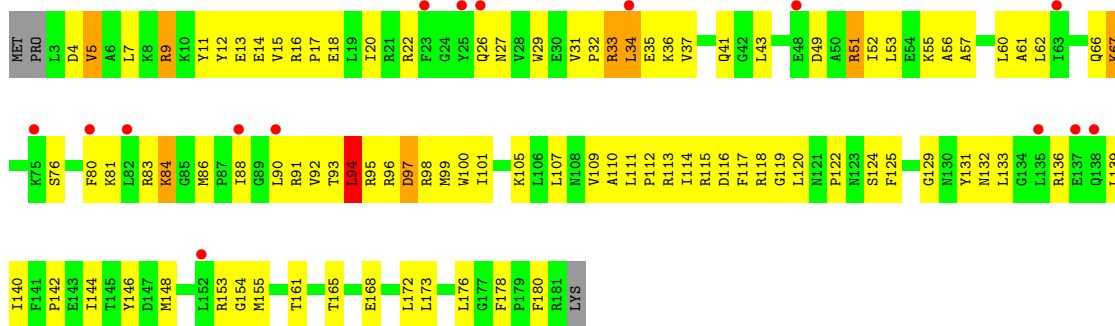


• Molecule 31: 50S ribosomal protein L4

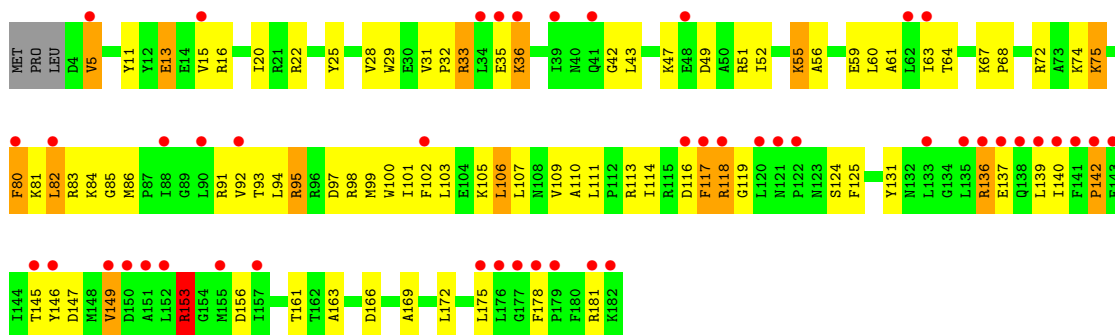


• Molecule 32: 50S ribosomal protein L5

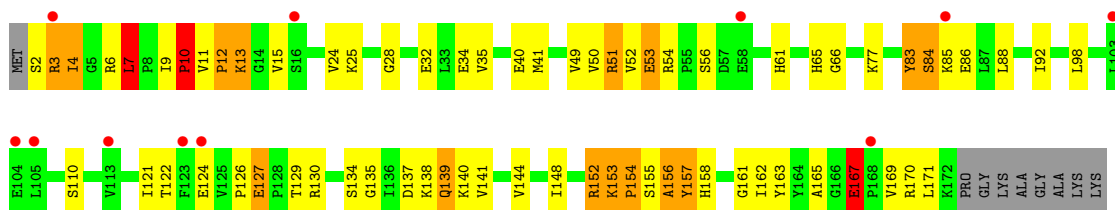




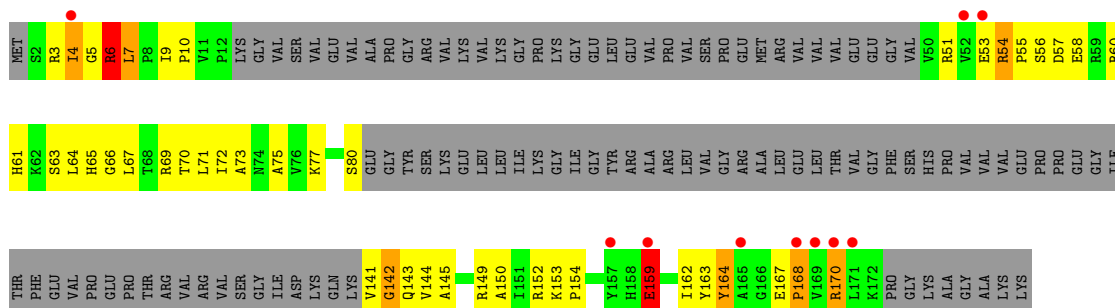
• Molecule 32: 50S ribosomal protein L5



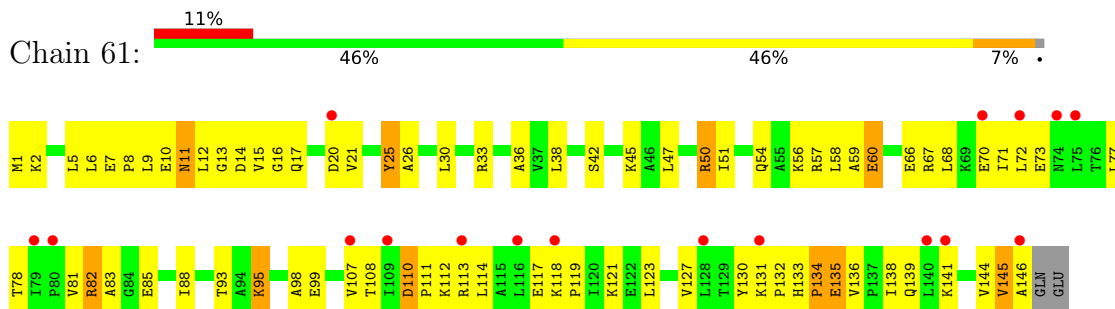
• Molecule 33: 50S ribosomal protein L6



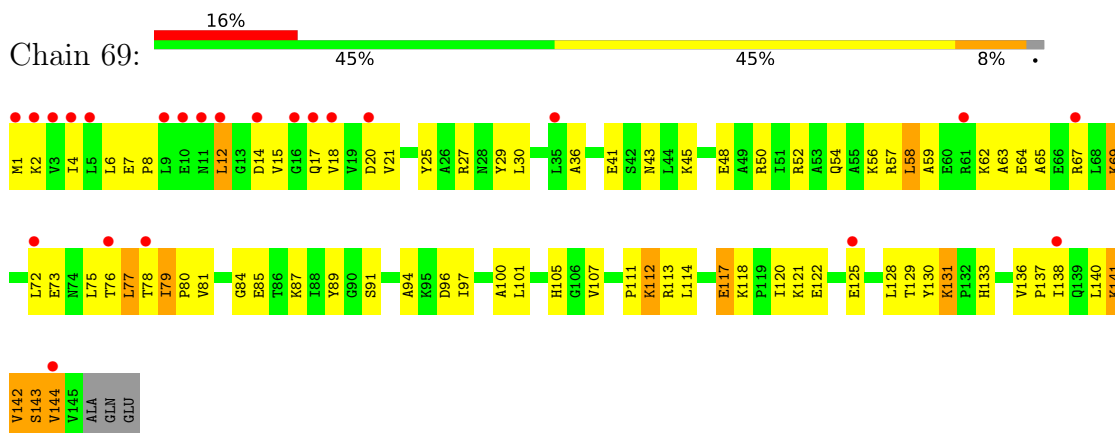
• Molecule 33: 50S ribosomal protein L6



- Molecule 34: 50S ribosomal protein L9



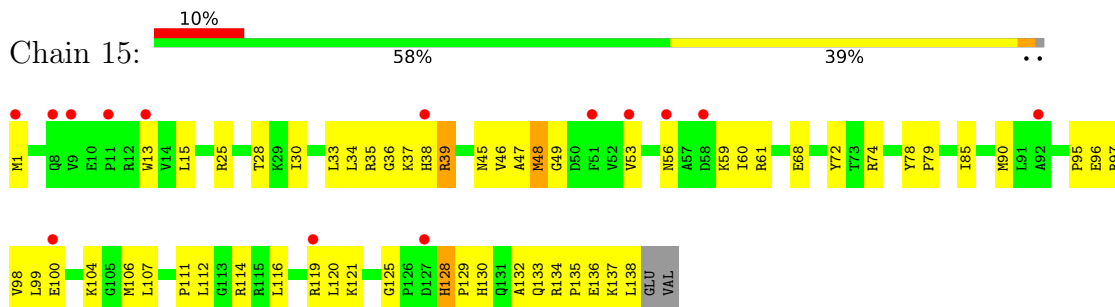
- Molecule 34: 50S ribosomal protein L9



- Molecule 35: 50S ribosomal protein L13

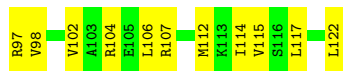
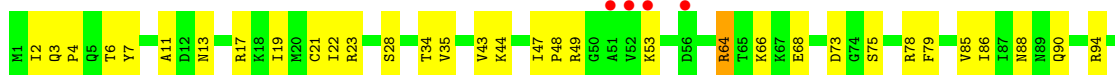


- Molecule 35: 50S ribosomal protein L13



- Molecule 36: 50S ribosomal protein L14

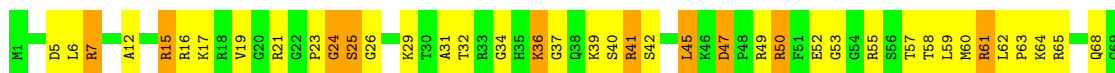
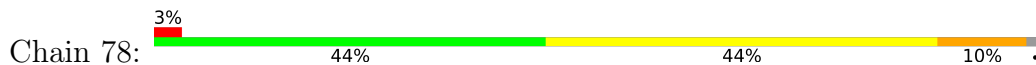




- Molecule 36: 50S ribosomal protein L14

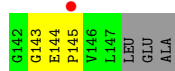
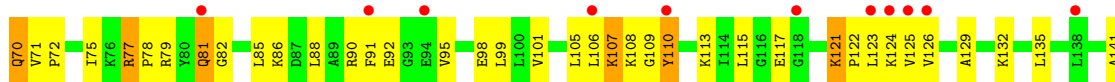
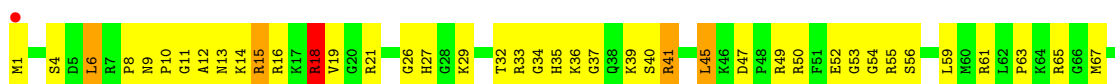
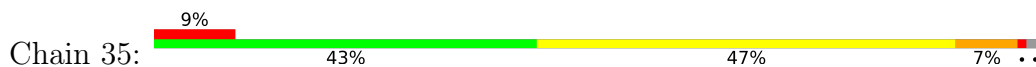


- Molecule 37: 50S ribosomal protein L15



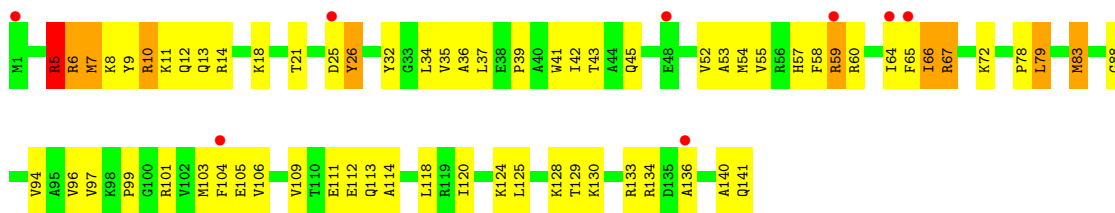
ALA

- Molecule 37: 50S ribosomal protein L15



- Molecule 38: 50S ribosomal protein L16

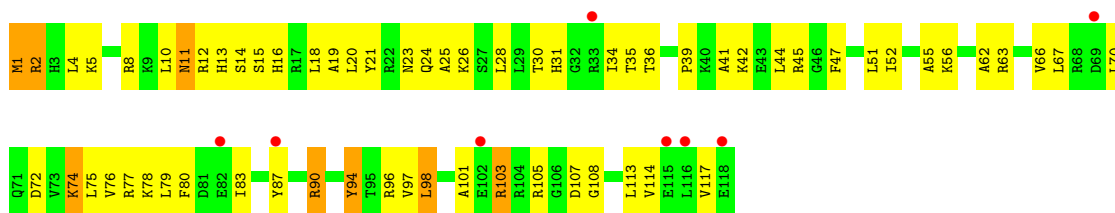




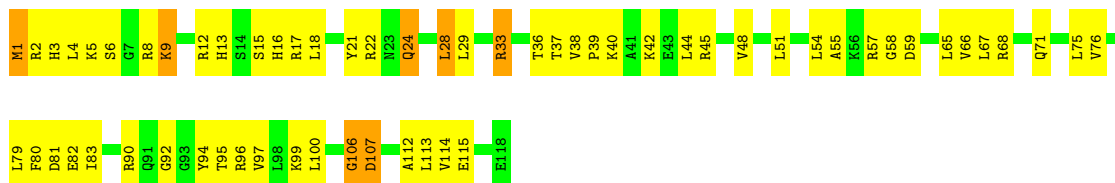
• Molecule 38: 50S ribosomal protein L16



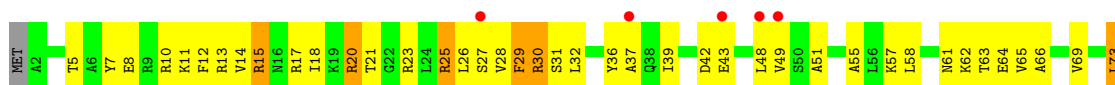
• Molecule 39: 50S ribosomal protein L17

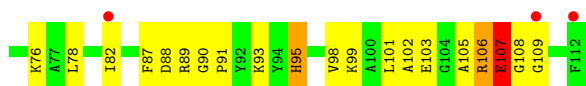


• Molecule 39: 50S ribosomal protein L17

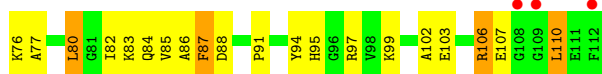
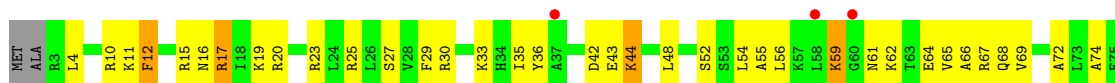


• Molecule 40: 50S ribosomal protein L18





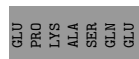
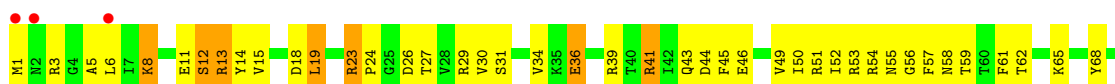
• Molecule 40: 50S ribosomal protein L18



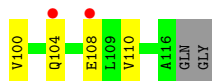
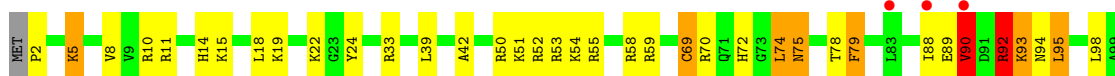
• Molecule 41: 50S ribosomal protein L19



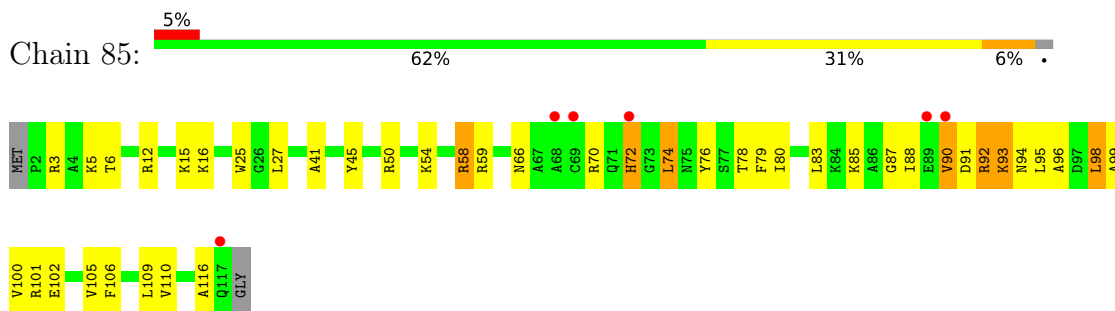
• Molecule 41: 50S ribosomal protein L19



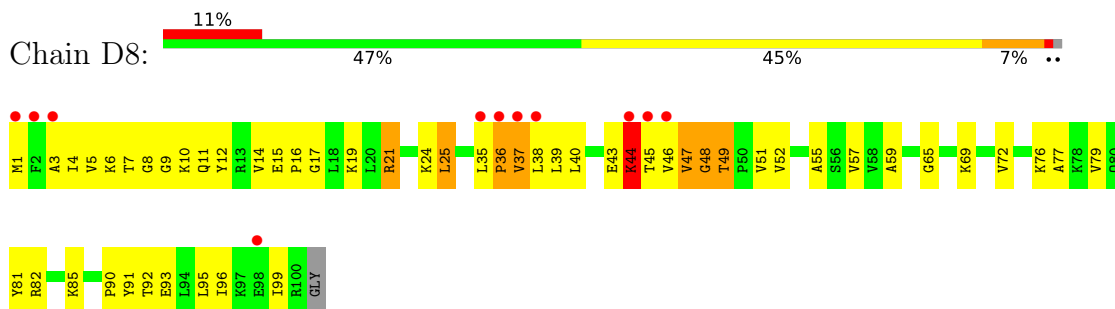
• Molecule 42: 50S ribosomal protein L20



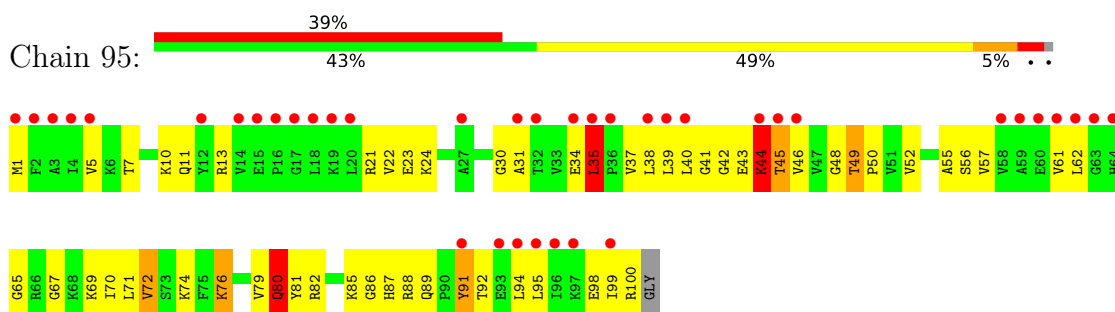
• Molecule 42: 50S ribosomal protein L20



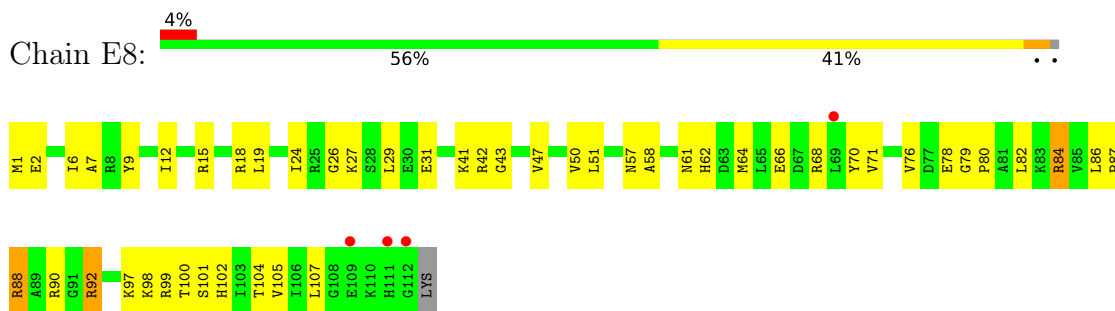
- Molecule 43: 50S ribosomal protein L21



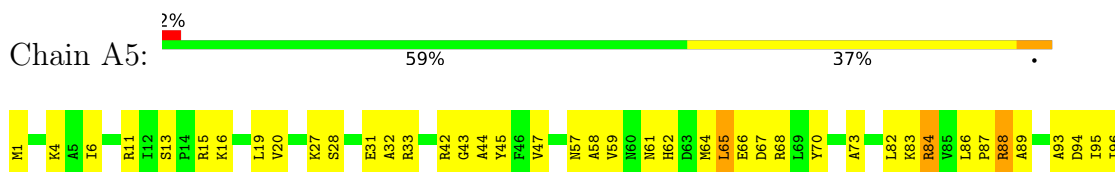
- Molecule 43: 50S ribosomal protein L21



- Molecule 44: 50S ribosomal protein L22

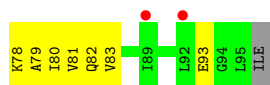
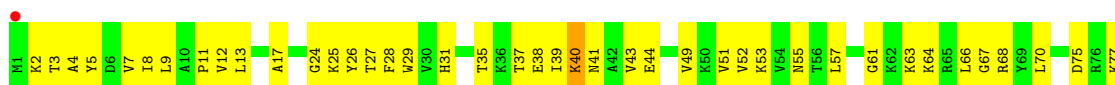


- Molecule 44: 50S ribosomal protein L22

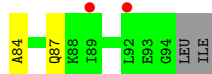
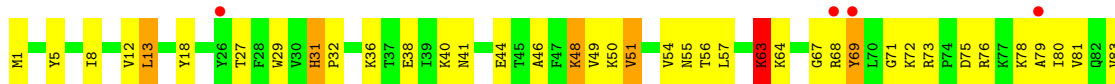




- Molecule 45: 50S ribosomal protein L23



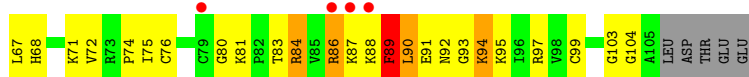
- Molecule 45: 50S ribosomal protein L23



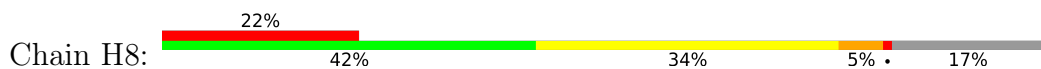
- Molecule 46: 50S ribosomal protein L24

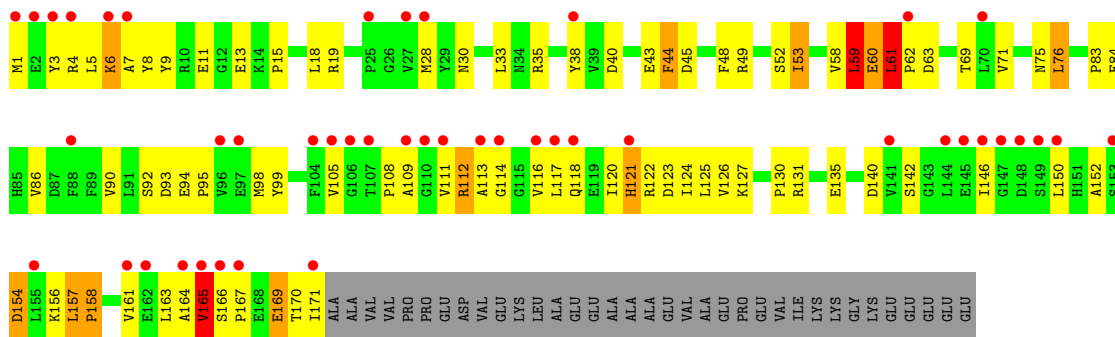


- Molecule 46: 50S ribosomal protein L24

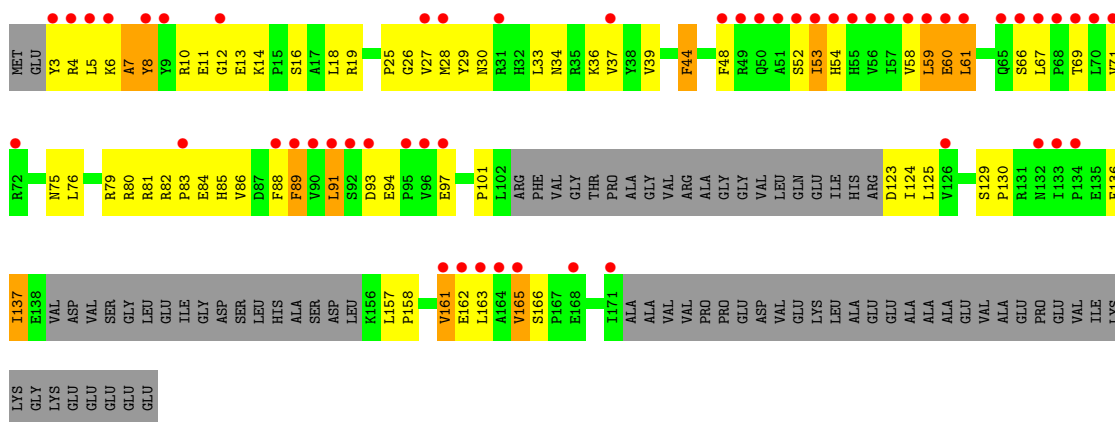
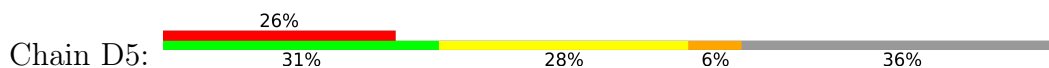


- Molecule 47: 50S ribosomal protein L25

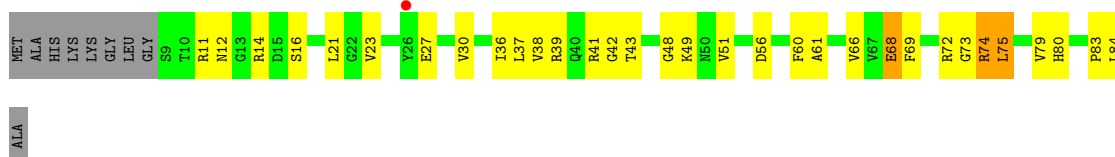




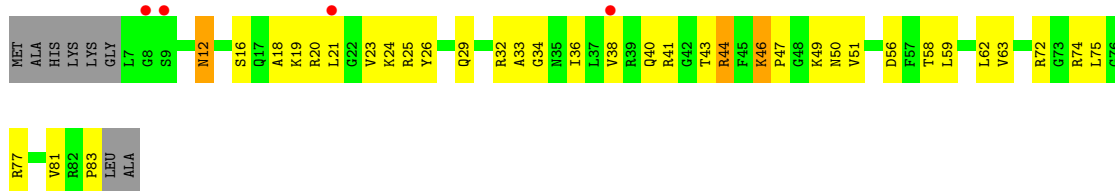
• Molecule 47: 50S ribosomal protein L25



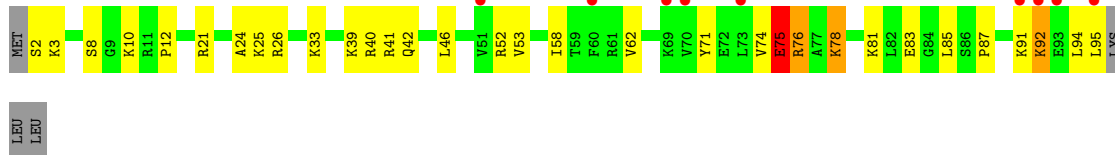
• Molecule 48: 50S ribosomal protein L27



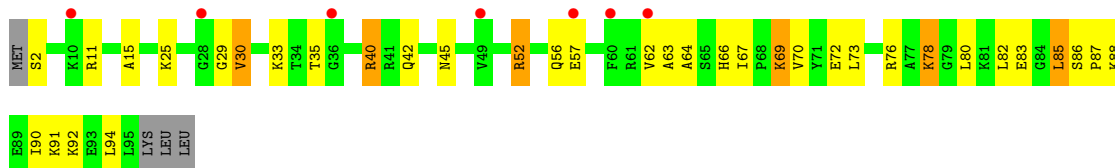
• Molecule 48: 50S ribosomal protein L27



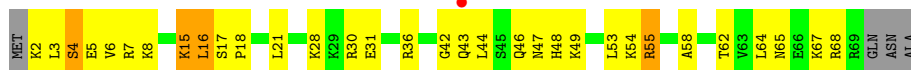
• Molecule 49: 50S ribosomal protein L28



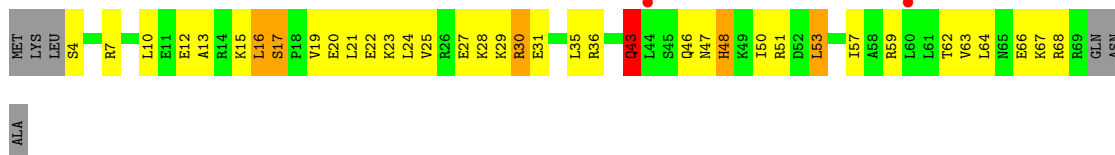
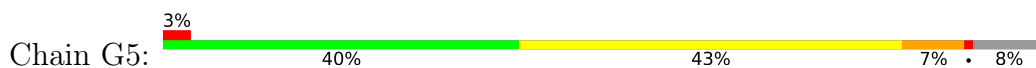
- Molecule 49: 50S ribosomal protein L28



- Molecule 50: 50S ribosomal protein L29



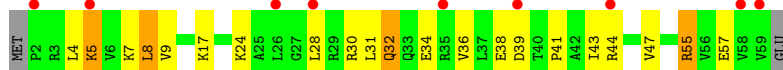
- Molecule 50: 50S ribosomal protein L29



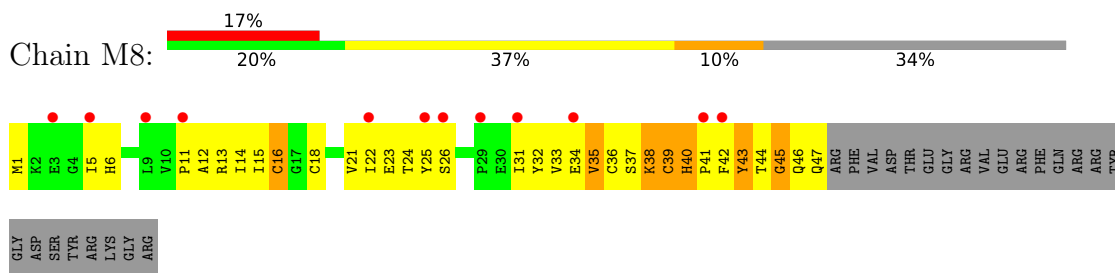
- Molecule 51: 50S ribosomal protein L30



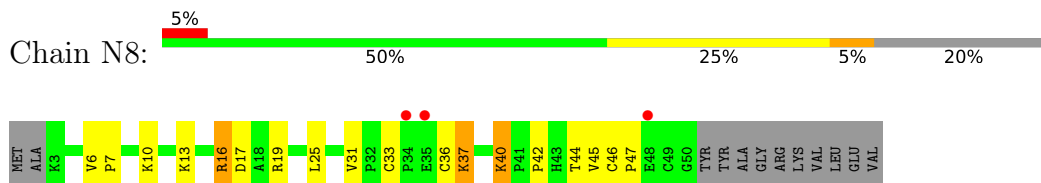
- Molecule 51: 50S ribosomal protein L30



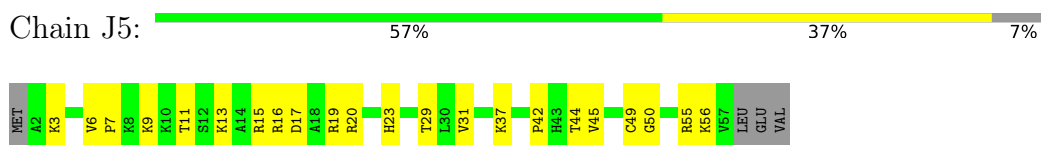
- Molecule 52: 50S ribosomal protein L31



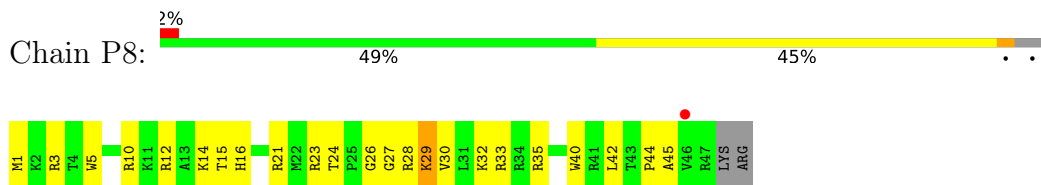
- Molecule 53: 50S ribosomal protein L32



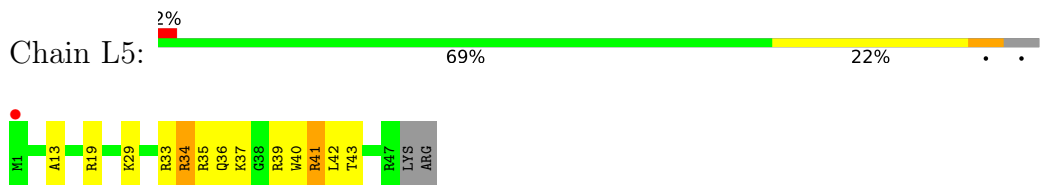
- Molecule 53: 50S ribosomal protein L32



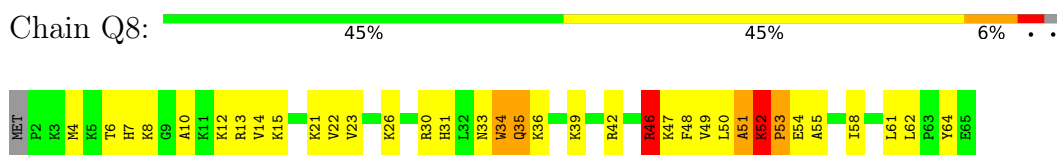
- Molecule 54: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L34

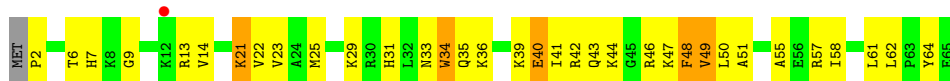


- Molecule 55: 50S ribosomal protein L35



- Molecule 55: 50S ribosomal protein L35





● Molecule 56: tRNA^{Lys}



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.70Å 449.50Å 620.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	152.17 – 3.15 152.17 – 3.15	Depositor EDS
% Data completeness (in resolution range)	99.9 (152.17-3.15) 91.9 (152.17-3.15)	Depositor EDS
R_{merge}	0.30	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.83 (at 3.13Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.192 , 0.247 0.194 , 0.249	Depositor DCC
R_{free} test set	2000 reflections (0.20%)	wwPDB-VP
Wilson B-factor (Å ²)	80.1	Xtrriage
Anisotropy	0.356	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 63.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	296184	wwPDB-VP
Average B, all atoms (Å ²)	102.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.43% 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: PSU, PAR, 5MU, OMC, U8U, T6A, ZN, MG, 4SU, SF4, G7M

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	13	0.67	2/35994 (0.0%)	1.31	276/56171 (0.5%)
1	1G	0.58	0/36231	1.17	128/56544 (0.2%)
2	12	0.39	0/1752	0.71	0/2360
2	1E	0.46	1/1908 (0.1%)	0.69	3/2573 (0.1%)
3	22	0.39	0/1564	0.62	0/2109
3	2E	0.51	2/1629 (0.1%)	0.64	1/2195 (0.0%)
4	32	0.50	1/1732 (0.1%)	0.70	3/2318 (0.1%)
4	3E	0.54	2/1720 (0.1%)	0.69	0/2305
5	42	0.44	0/1150	0.66	1/1548 (0.1%)
5	4E	0.47	0/1158	0.68	1/1559 (0.1%)
6	52	0.52	0/855	0.66	1/1154 (0.1%)
6	5E	0.48	0/850	0.68	1/1147 (0.1%)
7	62	0.50	0/1127	0.67	0/1507
7	6E	0.39	0/1259	0.57	0/1686
8	72	0.36	0/1127	0.57	0/1517
8	7E	0.45	0/1135	0.72	2/1527 (0.1%)
9	82	0.37	0/971	0.71	0/1304
9	8E	0.42	0/1019	0.66	0/1367
10	1A	0.66	1/658 (0.2%)	0.63	0/885
10	1I	0.47	0/747	0.68	1/1006 (0.1%)
11	2A	0.38	0/850	0.58	0/1150
11	2I	0.40	0/838	0.62	0/1133
12	3A	0.44	0/972	0.70	0/1301
12	3I	0.55	0/972	0.78	1/1301 (0.1%)
13	4A	0.40	0/903	0.68	1/1211 (0.1%)
13	4I	0.49	0/952	0.67	0/1277
14	5A	0.40	0/495	0.71	1/657 (0.2%)
14	5I	0.45	0/500	0.73	1/664 (0.2%)
15	6A	0.42	0/744	0.58	0/992
15	6I	0.41	0/740	0.60	0/987
16	7A	0.48	1/721 (0.1%)	0.66	0/970
16	7I	0.44	0/716	0.69	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.41	0/836	0.59	0/1117
17	8I	0.48	2/847 (0.2%)	0.68	1/1131 (0.1%)
18	9A	0.44	0/549	0.63	0/732
18	9I	0.42	0/554	0.69	1/739 (0.1%)
19	AA	0.43	0/490	0.69	0/662
19	AI	0.49	0/668	0.73	0/899
20	BA	0.37	0/764	0.69	1/1007 (0.1%)
20	BI	0.40	0/748	0.76	1/986 (0.1%)
21	1B	0.44	0/192	0.63	0/252
21	1F	0.45	0/203	0.66	0/266
22	1K	0.58	0/1516	1.24	17/2350 (0.7%)
22	1L	0.48	0/1613	1.08	10/2504 (0.4%)
23	2K	0.74	0/1721	1.38	13/2682 (0.5%)
23	2L	0.63	0/1721	1.22	8/2682 (0.3%)
24	3K	0.49	0/1777	1.21	15/2767 (0.5%)
25	4K	0.77	0/495	1.38	6/771 (0.8%)
25	4L	0.69	0/470	1.27	2/732 (0.3%)
26	14	0.79	24/69023 (0.0%)	1.44	778/107740 (0.7%)
26	1H	0.88	50/68351 (0.1%)	1.58	1425/106700 (1.3%)
27	16	0.72	0/2928	1.46	42/4568 (0.9%)
27	1J	0.63	0/2928	1.30	18/4568 (0.4%)
28	71	0.34	0/1055	0.63	0/1425
28	79	0.31	0/459	0.57	0/608
29	11	0.75	6/2170 (0.3%)	0.93	4/2926 (0.1%)
29	19	0.58	0/2175	0.84	4/2933 (0.1%)
30	21	0.54	0/1591	0.86	2/2146 (0.1%)
30	29	0.68	5/1596 (0.3%)	1.00	7/2153 (0.3%)
31	31	0.55	0/1620	0.79	0/2194
31	39	0.48	0/1637	0.78	2/2218 (0.1%)
32	41	0.43	0/1481	0.74	1/1994 (0.1%)
32	49	0.53	3/1482 (0.2%)	0.72	1/1994 (0.1%)
33	51	0.56	1/1337 (0.1%)	0.85	4/1809 (0.2%)
33	59	0.50	1/582 (0.2%)	0.77	1/783 (0.1%)
34	61	0.42	0/1151	0.77	2/1558 (0.1%)
34	69	0.49	1/1146 (0.1%)	0.76	3/1551 (0.2%)
35	15	0.40	0/1131	0.65	1/1525 (0.1%)
35	58	0.49	1/1131 (0.1%)	0.73	1/1525 (0.1%)
36	25	0.56	2/942 (0.2%)	0.72	1/1269 (0.1%)
36	68	0.48	0/942	0.72	0/1269
37	35	0.61	1/1139 (0.1%)	0.90	1/1514 (0.1%)
37	78	0.54	0/1139	0.89	4/1514 (0.3%)
38	45	0.72	4/1120 (0.4%)	0.84	1/1498 (0.1%)
38	88	0.72	2/1134 (0.2%)	0.90	0/1519

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	55	0.50	0/981	0.80	1/1312 (0.1%)
39	98	0.45	0/981	0.80	1/1312 (0.1%)
40	65	0.49	0/886	0.83	2/1180 (0.2%)
40	A8	0.56	0/884	0.76	0/1178
41	75	0.61	3/1123 (0.3%)	0.72	0/1500
41	B8	0.62	2/1123 (0.2%)	0.76	1/1500 (0.1%)
42	85	0.49	0/977	0.70	0/1301
42	C8	0.55	1/968 (0.1%)	0.76	1/1289 (0.1%)
43	95	0.57	0/785	0.85	2/1052 (0.2%)
43	D8	0.52	0/785	0.81	2/1052 (0.2%)
44	A5	0.56	0/910	0.73	0/1220
44	E8	0.51	0/901	0.77	0/1209
45	B5	0.55	0/749	0.77	1/1007 (0.1%)
45	F8	0.60	0/757	0.81	2/1017 (0.2%)
46	C5	0.51	0/807	0.89	2/1076 (0.2%)
46	G8	0.68	2/809 (0.2%)	1.05	4/1080 (0.4%)
47	D5	0.49	0/1098	0.75	0/1487
47	H8	0.46	0/1403	0.75	2/1901 (0.1%)
48	E5	0.50	0/616	0.77	0/821
48	I8	0.75	2/614 (0.3%)	0.86	1/819 (0.1%)
49	F5	0.52	0/744	0.81	0/989
49	J8	0.59	0/744	0.83	1/989 (0.1%)
50	G5	0.52	0/560	0.75	0/741
50	K8	0.84	4/570 (0.7%)	0.86	0/755
51	H5	0.42	0/464	0.65	1/623 (0.2%)
51	L8	0.53	0/464	0.73	0/623
52	M8	0.41	0/375	0.86	2/507 (0.4%)
53	J5	0.49	0/448	0.70	0/606
53	N8	0.59	0/381	0.77	0/516
54	L5	0.54	0/409	0.84	1/540 (0.2%)
54	P8	0.62	0/409	0.88	0/540
55	M5	0.66	1/524 (0.2%)	0.81	1/691 (0.1%)
55	Q8	0.56	0/524	1.02	2/691 (0.3%)
56	3L	0.54	0/1729	1.28	17/2690 (0.6%)
All	All	0.70	128/317045 (0.0%)	1.28	2847/474982 (0.6%)

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	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	4
4	32	0	3
4	3E	0	1
8	7E	0	1
9	82	0	1
9	8E	0	2
10	1A	0	1
11	2A	0	1
11	2I	0	1
12	3I	0	4
13	4A	0	3
13	4I	0	2
14	5A	0	3
14	5I	0	1
16	7I	0	2
18	9I	0	1
19	AA	0	1
19	AI	0	3
20	BA	0	3
20	BI	0	1
29	11	0	7
29	19	0	5
30	21	0	8
30	29	0	7
31	31	0	2
31	39	0	8
32	41	0	1
32	49	0	6
33	51	0	5
33	59	0	5
34	61	0	4
34	69	0	3
35	58	0	2
37	35	0	4
37	78	0	4
38	45	0	4
39	55	0	1
40	65	0	1
40	A8	0	1
41	75	0	1
42	85	0	4
42	C8	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
43	95	0	3
43	D8	0	3
44	A5	0	1
45	F8	0	1
46	C5	0	3
46	G8	0	4
47	D5	0	1
47	H8	0	4
49	F5	0	1
49	J8	0	1
50	G5	0	4
50	K8	0	3
52	M8	0	4
54	P8	0	1
55	M5	0	2
55	Q8	0	2
All	All	0	169

The worst 5 of 128 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	14	2572	A	N7-C5	24.38	1.53	1.39
26	14	2572	A	N9-C8	-21.02	1.21	1.37
26	14	2572	A	C5-C4	-18.45	1.25	1.38
26	14	2572	A	C5-C6	-15.84	1.26	1.41
26	1H	774	A	N9-C4	-12.29	1.30	1.37

The worst 5 of 2847 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	14	2572	A	N9-C4-C5	28.35	117.14	105.80
26	14	2572	A	C4-C5-C6	24.01	129.00	117.00
26	14	2572	A	C4-C5-N7	-20.90	100.25	110.70
26	1H	1899	G	N3-C4-N9	-19.20	114.48	126.00
26	14	2572	A	N7-C8-N9	18.60	123.10	113.80

There are no chirality outliers.

5 of 169 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	11	LEU	Peptide

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Mol	Chain	Res	Type	Group
2	1E	15	VAL	Peptide
2	1E	169	LYS	Peptide
2	1E	234	PRO	Peptide
4	3E	82	ALA	Peptide

5.2 Too-close contacts [i](#)

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	32157	0	16234	754	0
1	1G	32368	0	16343	752	1
2	12	1721	0	1758	119	0
2	1E	1874	0	1926	112	0
3	22	1541	0	1606	76	0
3	2E	1605	0	1668	59	0
4	32	1702	0	1765	101	0
4	3E	1690	0	1738	92	0
5	42	1134	0	1200	69	0
5	4E	1142	0	1204	51	0
6	52	842	0	857	28	0
6	5E	837	0	852	29	0
7	62	1115	0	1165	57	0
7	6E	1242	0	1286	51	0
8	72	1107	0	1165	54	0
8	7E	1115	0	1177	69	0
9	82	953	0	983	72	0
9	8E	1000	0	1031	69	0
10	1A	646	0	662	48	0
10	1I	734	0	761	53	0
11	2A	835	0	847	47	0
11	2I	823	0	833	37	0
12	3A	956	0	1046	54	0
12	3I	956	0	1046	39	0
13	4A	893	0	946	55	0
13	4I	942	0	997	48	0
14	5A	486	0	524	28	0
14	5I	491	0	530	36	0
15	6A	733	0	771	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	6I	729	0	768	26	0
16	7A	705	0	725	37	0
16	7I	700	0	720	51	0
17	8A	823	0	891	41	0
17	8I	834	0	904	59	0
18	9A	544	0	605	25	0
18	9I	549	0	607	22	0
19	AA	481	0	468	19	0
19	AI	654	0	675	52	0
20	BA	762	0	861	39	0
20	BI	746	0	843	50	0
21	1B	188	0	195	17	0
21	1F	199	0	208	15	0
22	1K	1477	0	758	30	0
22	1L	1563	0	799	31	0
23	2K	1646	0	844	19	0
23	2L	1646	0	844	33	0
24	3K	1611	0	817	74	0
25	4K	439	0	218	10	0
25	4L	417	0	207	11	0
26	14	61630	0	31072	1406	1
26	1H	61028	0	30762	1443	0
27	16	2617	0	1328	70	0
27	1J	2617	0	1328	79	0
28	71	1033	0	1048	71	0
28	79	456	0	460	31	0
29	11	2120	0	2197	151	0
29	19	2125	0	2199	133	0
30	21	1558	0	1624	96	0
30	29	1563	0	1629	134	0
31	31	1585	0	1632	94	0
31	39	1602	0	1649	96	0
32	41	1457	0	1514	91	0
32	49	1458	0	1516	72	0
33	51	1312	0	1384	64	0
33	59	573	0	597	43	0
34	61	1136	0	1223	60	0
34	69	1131	0	1218	73	0
35	15	1104	0	1180	51	0
35	58	1104	0	1180	58	0
36	25	932	0	996	55	0
36	68	932	0	996	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
37	35	1122	0	1206	93	0
37	78	1122	0	1206	109	0
38	45	1099	0	1154	94	0
38	88	1113	0	1157	56	0
39	55	967	0	1033	56	0
39	98	967	0	1033	64	0
40	65	876	0	938	57	0
40	A8	875	0	936	54	0
41	75	1109	0	1169	74	0
41	B8	1109	0	1170	60	0
42	85	959	0	1019	54	0
42	C8	950	0	1011	53	0
43	95	774	0	849	82	0
43	D8	774	0	849	58	0
44	A5	899	0	964	34	0
44	E8	890	0	951	33	0
45	B5	735	0	785	43	0
45	F8	743	0	794	39	0
46	C5	794	0	886	74	0
46	G8	796	0	886	53	0
47	D5	1074	0	1086	63	0
47	H8	1373	0	1402	81	0
48	E5	608	0	622	37	0
48	I8	606	0	625	31	0
49	F5	737	0	813	41	0
49	J8	737	0	813	28	0
50	G5	558	0	610	33	0
50	K8	568	0	614	31	0
51	H5	459	0	512	15	0
51	L8	459	0	512	18	0
52	M8	366	0	370	31	0
53	J5	434	0	454	24	0
53	N8	369	0	388	22	0
54	L5	401	0	436	13	0
54	P8	401	0	436	17	0
55	M5	516	0	582	34	0
55	Q8	516	0	582	49	0
56	3L	1601	0	814	69	0
57	11	3	0	0	0	0
57	13	150	0	0	0	0
57	14	454	0	0	0	0
57	16	12	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	1G	93	0	0	0	0
57	1H	502	0	0	0	0
57	1I	1	0	0	0	0
57	1J	6	0	0	0	0
57	2I	3	0	0	0	0
57	29	4	0	0	0	0
57	2K	3	0	0	0	0
57	2L	4	0	0	0	0
57	3I	1	0	0	0	0
57	31	1	0	0	0	0
57	35	2	0	0	0	0
57	39	2	0	0	0	0
57	3I	1	0	0	0	0
57	4I	2	0	0	0	0
57	45	3	0	0	0	0
57	55	1	0	0	0	0
57	5E	1	0	0	0	0
57	5I	1	0	0	0	0
57	78	1	0	0	0	0
57	7A	1	0	0	0	0
57	85	1	0	0	0	0
57	88	1	0	0	0	0
57	BI	1	0	0	0	0
57	C5	1	0	0	0	0
57	E5	1	0	0	0	0
57	I8	1	0	0	0	0
57	L8	1	0	0	0	0
57	M5	1	0	0	0	0
57	P8	1	0	0	0	0
57	Q8	1	0	0	0	0
58	13	42	0	45	3	0
58	1G	42	0	45	2	0
59	32	8	0	0	2	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	12	0	0	1	0
61	13	319	0	0	23	0
61	14	1015	0	0	117	0
61	16	26	0	0	6	0
61	19	12	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	1F	1	0	0	0	0
61	1G	226	0	0	16	0
61	1H	1158	0	0	132	0
61	1I	1	0	0	0	0
61	1J	18	0	0	2	0
61	1K	1	0	0	0	0
61	2I	6	0	0	1	0
61	29	6	0	0	0	0
61	2K	7	0	0	0	0
61	2L	1	0	0	0	0
61	3I	9	0	0	0	0
61	32	3	0	0	0	0
61	35	5	0	0	1	0
61	39	8	0	0	1	0
61	3A	1	0	0	0	0
61	3E	3	0	0	0	0
61	3I	3	0	0	1	0
61	3K	1	0	0	0	0
61	42	1	0	0	0	0
61	4E	3	0	0	1	0
61	4K	4	0	0	0	0
61	4L	3	0	0	0	0
61	55	1	0	0	0	0
61	58	1	0	0	0	0
61	5I	1	0	0	1	0
61	6A	3	0	0	0	0
61	6I	2	0	0	0	0
61	75	1	0	0	0	0
61	78	6	0	0	1	0
61	85	2	0	0	0	0
61	88	2	0	0	0	0
61	8A	1	0	0	0	0
61	8E	1	0	0	0	0
61	8I	2	0	0	0	0
61	A5	2	0	0	0	0
61	B5	1	0	0	0	0
61	BA	3	0	0	1	0
61	BI	5	0	0	0	0
61	C5	4	0	0	0	0
61	C8	2	0	0	0	0
61	E8	3	0	0	0	0
61	F8	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	G8	2	0	0	0	0
61	H5	3	0	0	0	0
61	I8	5	0	0	1	0
61	J8	3	0	0	0	0
61	K8	2	0	0	0	0
61	L5	2	0	0	0	0
61	L8	2	0	0	0	0
61	M5	10	0	0	0	0
61	P8	1	0	0	0	0
61	Q8	9	0	0	2	0
All	All	296184	0	196367	8846	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 19.

The worst 5 of 8846 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)
37:35:81:GLN:NE2	37:35:106:LEU:HA	1.45	1.29
15:6A:27:VAL:O	15:6A:31:LEU:HD13	1.26	1.27
26:14:2572:A:C5	30:29:144:ARG:NH1	2.04	1.25
37:35:81:GLN:CD	37:35:106:LEU:HA	1.58	1.24
29:19:69:ARG:NH2	29:19:130:ALA:H	1.33	1.21

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:82:U:O2'	26:14:271(C):U:O4[3_545]	2.17	0.03

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	206/256 (80%)	175 (85%)	24 (12%)	7 (3%)	3	21
2	1E	227/256 (89%)	188 (83%)	37 (16%)	2 (1%)	17	53
3	22	192/239 (80%)	169 (88%)	23 (12%)	0	100	100
3	2E	203/239 (85%)	185 (91%)	18 (9%)	0	100	100
4	32	206/209 (99%)	182 (88%)	22 (11%)	2 (1%)	15	51
4	3E	205/209 (98%)	188 (92%)	16 (8%)	1 (0%)	29	65
5	42	146/162 (90%)	136 (93%)	10 (7%)	0	100	100
5	4E	147/162 (91%)	141 (96%)	5 (3%)	1 (1%)	22	59
6	52	99/101 (98%)	96 (97%)	3 (3%)	0	100	100
6	5E	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
7	62	135/156 (86%)	122 (90%)	12 (9%)	1 (1%)	22	59
7	6E	152/156 (97%)	140 (92%)	12 (8%)	0	100	100
8	72	135/138 (98%)	126 (93%)	7 (5%)	2 (2%)	10	41
8	7E	136/138 (99%)	124 (91%)	11 (8%)	1 (1%)	22	59
9	82	119/128 (93%)	108 (91%)	9 (8%)	2 (2%)	9	38
9	8E	124/128 (97%)	105 (85%)	18 (14%)	1 (1%)	19	55
10	1A	76/105 (72%)	71 (93%)	5 (7%)	0	100	100
10	1I	89/105 (85%)	82 (92%)	7 (8%)	0	100	100
11	2A	111/129 (86%)	98 (88%)	11 (10%)	2 (2%)	8	37
11	2I	109/129 (84%)	95 (87%)	12 (11%)	2 (2%)	8	37
12	3A	120/132 (91%)	103 (86%)	13 (11%)	4 (3%)	4	22
12	3I	120/132 (91%)	103 (86%)	16 (13%)	1 (1%)	19	55
13	4A	109/126 (86%)	92 (84%)	15 (14%)	2 (2%)	8	37
13	4I	117/126 (93%)	98 (84%)	18 (15%)	1 (1%)	17	53
14	5A	57/61 (93%)	47 (82%)	9 (16%)	1 (2%)	8	37
14	5I	58/61 (95%)	47 (81%)	9 (16%)	2 (3%)	3	21
15	6A	86/89 (97%)	79 (92%)	7 (8%)	0	100	100
15	6I	85/89 (96%)	80 (94%)	5 (6%)	0	100	100
16	7A	82/88 (93%)	75 (92%)	7 (8%)	0	100	100
16	7I	81/88 (92%)	79 (98%)	2 (2%)	0	100	100
17	8A	97/105 (92%)	91 (94%)	6 (6%)	0	100	100
17	8I	98/105 (93%)	94 (96%)	4 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	9A	65/88 (74%)	62 (95%)	3 (5%)	0	100	100
18	9I	66/88 (75%)	63 (96%)	2 (3%)	1 (2%)	10	41
19	AA	56/93 (60%)	49 (88%)	4 (7%)	3 (5%)	2	12
19	AI	79/93 (85%)	70 (89%)	7 (9%)	2 (2%)	5	29
20	BA	97/106 (92%)	83 (86%)	12 (12%)	2 (2%)	7	33
20	BI	95/106 (90%)	82 (86%)	13 (14%)	0	100	100
21	1B	20/27 (74%)	18 (90%)	2 (10%)	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	71	129/229 (56%)	120 (93%)	9 (7%)	0	100	100
28	79	45/229 (20%)	41 (91%)	4 (9%)	0	100	100
29	11	271/276 (98%)	244 (90%)	17 (6%)	10 (4%)	3	19
29	19	272/276 (99%)	245 (90%)	21 (8%)	6 (2%)	6	32
30	21	201/206 (98%)	156 (78%)	36 (18%)	9 (4%)	2	16
30	29	202/206 (98%)	154 (76%)	39 (19%)	9 (4%)	2	16
31	31	200/210 (95%)	179 (90%)	20 (10%)	1 (0%)	29	65
31	39	202/210 (96%)	161 (80%)	31 (15%)	10 (5%)	2	14
32	41	177/182 (97%)	153 (86%)	21 (12%)	3 (2%)	9	38
32	49	177/182 (97%)	153 (86%)	22 (12%)	2 (1%)	14	48
33	51	169/180 (94%)	135 (80%)	24 (14%)	10 (6%)	1	11
33	59	68/180 (38%)	49 (72%)	14 (21%)	5 (7%)	1	6
34	61	144/148 (97%)	116 (81%)	26 (18%)	2 (1%)	11	43
34	69	143/148 (97%)	113 (79%)	27 (19%)	3 (2%)	7	33
35	15	136/140 (97%)	125 (92%)	10 (7%)	1 (1%)	22	59
35	58	136/140 (97%)	116 (85%)	16 (12%)	4 (3%)	4	25
36	25	120/122 (98%)	110 (92%)	9 (8%)	1 (1%)	19	55
36	68	120/122 (98%)	116 (97%)	4 (3%)	0	100	100
37	35	145/150 (97%)	116 (80%)	25 (17%)	4 (3%)	5	26
37	78	145/150 (97%)	115 (79%)	26 (18%)	4 (3%)	5	26
38	45	136/141 (96%)	109 (80%)	23 (17%)	4 (3%)	4	25
38	88	139/141 (99%)	119 (86%)	15 (11%)	5 (4%)	3	20
39	55	116/118 (98%)	109 (94%)	6 (5%)	1 (1%)	17	53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
39	98	116/118 (98%)	102 (88%)	13 (11%)	1 (1%)	17	53
40	65	108/112 (96%)	88 (82%)	18 (17%)	2 (2%)	8	36
40	A8	109/112 (97%)	90 (83%)	19 (17%)	0	100	100
41	75	131/146 (90%)	116 (88%)	15 (12%)	0	100	100
41	B8	131/146 (90%)	118 (90%)	12 (9%)	1 (1%)	19	55
42	85	114/118 (97%)	101 (89%)	12 (10%)	1 (1%)	17	53
42	C8	113/118 (96%)	100 (88%)	10 (9%)	3 (3%)	5	27
43	95	98/101 (97%)	75 (76%)	19 (19%)	4 (4%)	3	18
43	D8	98/101 (97%)	86 (88%)	8 (8%)	4 (4%)	3	18
44	A5	111/113 (98%)	104 (94%)	6 (5%)	1 (1%)	17	53
44	E8	110/113 (97%)	100 (91%)	10 (9%)	0	100	100
45	B5	92/96 (96%)	83 (90%)	7 (8%)	2 (2%)	6	32
45	F8	93/96 (97%)	84 (90%)	8 (9%)	1 (1%)	14	48
46	C5	102/110 (93%)	74 (72%)	21 (21%)	7 (7%)	1	7
46	G8	103/110 (94%)	85 (82%)	13 (13%)	5 (5%)	2	14
47	D5	126/206 (61%)	99 (79%)	20 (16%)	7 (6%)	2	12
47	H8	169/206 (82%)	132 (78%)	31 (18%)	6 (4%)	3	20
48	E5	75/85 (88%)	64 (85%)	9 (12%)	2 (3%)	5	27
48	I8	74/85 (87%)	68 (92%)	6 (8%)	0	100	100
49	F5	92/98 (94%)	84 (91%)	7 (8%)	1 (1%)	14	48
49	J8	92/98 (94%)	85 (92%)	4 (4%)	3 (3%)	4	22
50	G5	64/72 (89%)	57 (89%)	6 (9%)	1 (2%)	9	40
50	K8	66/72 (92%)	58 (88%)	6 (9%)	2 (3%)	4	24
51	H5	56/60 (93%)	54 (96%)	2 (4%)	0	100	100
51	L8	56/60 (93%)	52 (93%)	4 (7%)	0	100	100
52	M8	45/71 (63%)	30 (67%)	14 (31%)	1 (2%)	6	32
53	J5	54/60 (90%)	49 (91%)	5 (9%)	0	100	100
53	N8	46/60 (77%)	44 (96%)	2 (4%)	0	100	100
54	L5	45/49 (92%)	42 (93%)	3 (7%)	0	100	100
54	P8	45/49 (92%)	41 (91%)	4 (9%)	0	100	100
55	M5	62/65 (95%)	50 (81%)	10 (16%)	2 (3%)	4	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
55	Q8	62/65 (95%)	51 (82%)	8 (13%)	3 (5%)	2	15
All	All	10975/12333 (89%)	9578 (87%)	1200 (11%)	197 (2%)	8	37

5 of 197 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
18	9I	22	VAL
29	11	28	GLU
29	11	40	THR
29	11	237	GLU
29	11	273	ARG

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	182/220 (83%)	172 (94%)	10 (6%)	21	54
2	1E	200/220 (91%)	183 (92%)	17 (8%)	10	36
3	22	154/188 (82%)	147 (96%)	7 (4%)	27	61
3	2E	159/188 (85%)	151 (95%)	8 (5%)	24	57
4	32	180/181 (99%)	167 (93%)	13 (7%)	14	43
4	3E	178/181 (98%)	166 (93%)	12 (7%)	16	47
5	42	114/123 (93%)	104 (91%)	10 (9%)	10	34
5	4E	115/123 (94%)	112 (97%)	3 (3%)	46	74
6	52	90/90 (100%)	86 (96%)	4 (4%)	28	61
6	5E	90/90 (100%)	85 (94%)	5 (6%)	21	53
7	62	114/127 (90%)	105 (92%)	9 (8%)	12	40
7	6E	125/127 (98%)	109 (87%)	16 (13%)	4	18
8	72	118/119 (99%)	107 (91%)	11 (9%)	9	31
8	7E	119/119 (100%)	111 (93%)	8 (7%)	16	47
9	82	92/99 (93%)	80 (87%)	12 (13%)	4	18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	8E	97/99 (98%)	91 (94%)	6 (6%)	18	50
10	1A	71/92 (77%)	63 (89%)	8 (11%)	6	23
10	1I	81/92 (88%)	79 (98%)	2 (2%)	47	75
11	2A	85/99 (86%)	82 (96%)	3 (4%)	36	67
11	2I	84/99 (85%)	82 (98%)	2 (2%)	49	76
12	3A	103/109 (94%)	92 (89%)	11 (11%)	6	25
12	3I	103/109 (94%)	97 (94%)	6 (6%)	20	52
13	4A	91/101 (90%)	81 (89%)	10 (11%)	6	24
13	4I	94/101 (93%)	85 (90%)	9 (10%)	8	29
14	5A	49/50 (98%)	43 (88%)	6 (12%)	5	20
14	5I	49/50 (98%)	47 (96%)	2 (4%)	30	63
15	6A	79/80 (99%)	74 (94%)	5 (6%)	18	49
15	6I	79/80 (99%)	75 (95%)	4 (5%)	24	56
16	7A	72/74 (97%)	66 (92%)	6 (8%)	11	37
16	7I	72/74 (97%)	69 (96%)	3 (4%)	30	62
17	8A	94/97 (97%)	89 (95%)	5 (5%)	22	55
17	8I	95/97 (98%)	87 (92%)	8 (8%)	11	37
18	9A	58/77 (75%)	56 (97%)	2 (3%)	37	68
18	9I	58/77 (75%)	55 (95%)	3 (5%)	23	55
19	AA	52/80 (65%)	49 (94%)	3 (6%)	20	52
19	AI	71/80 (89%)	64 (90%)	7 (10%)	8	28
20	BA	76/82 (93%)	72 (95%)	4 (5%)	22	55
20	BI	75/82 (92%)	72 (96%)	3 (4%)	31	64
21	1B	17/22 (77%)	16 (94%)	1 (6%)	19	51
21	1F	18/22 (82%)	18 (100%)	0	100	100
28	71	109/181 (60%)	104 (95%)	5 (5%)	27	60
28	79	48/181 (26%)	41 (85%)	7 (15%)	3	14
29	11	214/218 (98%)	194 (91%)	20 (9%)	9	31
29	19	214/218 (98%)	198 (92%)	16 (8%)	13	42
30	21	165/166 (99%)	158 (96%)	7 (4%)	30	62
30	29	165/166 (99%)	155 (94%)	10 (6%)	18	50

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	31	161/166 (97%)	151 (94%)	10 (6%)	18	50
31	39	163/166 (98%)	159 (98%)	4 (2%)	47	75
32	41	153/156 (98%)	142 (93%)	11 (7%)	14	43
32	49	153/156 (98%)	141 (92%)	12 (8%)	12	40
33	51	142/148 (96%)	134 (94%)	8 (6%)	21	53
33	59	59/148 (40%)	54 (92%)	5 (8%)	10	36
34	61	122/124 (98%)	114 (93%)	8 (7%)	16	47
34	69	122/124 (98%)	115 (94%)	7 (6%)	20	53
35	15	117/119 (98%)	112 (96%)	5 (4%)	29	62
35	58	117/119 (98%)	107 (92%)	10 (8%)	10	36
36	25	100/100 (100%)	96 (96%)	4 (4%)	31	64
36	68	100/100 (100%)	98 (98%)	2 (2%)	55	79
37	35	114/116 (98%)	106 (93%)	8 (7%)	15	45
37	78	114/116 (98%)	109 (96%)	5 (4%)	28	61
38	45	109/111 (98%)	98 (90%)	11 (10%)	7	27
38	88	109/111 (98%)	99 (91%)	10 (9%)	9	31
39	55	101/101 (100%)	96 (95%)	5 (5%)	24	57
39	98	101/101 (100%)	93 (92%)	8 (8%)	12	40
40	65	87/88 (99%)	79 (91%)	8 (9%)	9	31
40	A8	86/88 (98%)	75 (87%)	11 (13%)	4	18
41	75	117/127 (92%)	104 (89%)	13 (11%)	6	24
41	B8	117/127 (92%)	105 (90%)	12 (10%)	7	26
42	85	93/94 (99%)	86 (92%)	7 (8%)	13	42
42	C8	92/94 (98%)	83 (90%)	9 (10%)	8	28
43	95	82/82 (100%)	75 (92%)	7 (8%)	10	36
43	D8	82/82 (100%)	79 (96%)	3 (4%)	34	66
44	A5	92/92 (100%)	84 (91%)	8 (9%)	10	34
44	E8	91/92 (99%)	81 (89%)	10 (11%)	6	24
45	B5	74/78 (95%)	69 (93%)	5 (7%)	16	46
45	F8	75/78 (96%)	72 (96%)	3 (4%)	31	64
46	C5	85/91 (93%)	77 (91%)	8 (9%)	8	30

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	G8	85/91 (93%)	77 (91%)	8 (9%)	8	30
47	D5	118/179 (66%)	111 (94%)	7 (6%)	19	51
47	H8	152/179 (85%)	143 (94%)	9 (6%)	19	51
48	E5	61/67 (91%)	59 (97%)	2 (3%)	38	69
48	I8	61/67 (91%)	60 (98%)	1 (2%)	62	83
49	F5	79/83 (95%)	74 (94%)	5 (6%)	18	49
49	J8	79/83 (95%)	76 (96%)	3 (4%)	33	65
50	G5	62/67 (92%)	57 (92%)	5 (8%)	11	39
50	K8	62/67 (92%)	58 (94%)	4 (6%)	17	48
51	H5	50/52 (96%)	45 (90%)	5 (10%)	7	28
51	L8	50/52 (96%)	47 (94%)	3 (6%)	19	51
52	M8	42/63 (67%)	38 (90%)	4 (10%)	8	30
53	J5	48/52 (92%)	46 (96%)	2 (4%)	30	62
53	N8	43/52 (83%)	40 (93%)	3 (7%)	15	45
54	L5	38/42 (90%)	35 (92%)	3 (8%)	12	40
54	P8	38/42 (90%)	34 (90%)	4 (10%)	7	26
55	M5	54/55 (98%)	52 (96%)	2 (4%)	34	66
55	Q8	54/55 (98%)	52 (96%)	2 (4%)	34	66
All	All	9274/10193 (91%)	8636 (93%)	638 (7%)	15	46

5 of 638 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
28	79	223	ARG
42	85	12	ARG
29	19	169	GLU
28	79	210	ARG
35	15	48	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 24 such sidechains are listed below:

Mol	Chain	Res	Type
6	52	27	GLN
18	9A	63	GLN
10	1A	84	GLN

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Mol	Chain	Res	Type
29	19	44	ASN
29	11	231	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1493/1522 (98%)	362 (24%)	32 (2%)
1	1G	1503/1522 (98%)	365 (24%)	35 (2%)
22	1K	65/76 (85%)	32 (49%)	3 (4%)
22	1L	69/76 (90%)	37 (53%)	3 (4%)
23	2K	76/77 (98%)	19 (25%)	2 (2%)
23	2L	76/77 (98%)	18 (23%)	1 (1%)
24	3K	75/76 (98%)	49 (65%)	3 (4%)
25	4K	19/27 (70%)	10 (52%)	1 (5%)
25	4L	18/27 (66%)	10 (55%)	1 (5%)
26	14	2852/2917 (97%)	745 (26%)	45 (1%)
26	1H	2828/2917 (96%)	684 (24%)	52 (1%)
27	16	121/122 (99%)	26 (21%)	3 (2%)
27	1J	121/122 (99%)	31 (25%)	3 (2%)
56	3L	73/76 (96%)	44 (60%)	5 (6%)
All	All	9389/9634 (97%)	2432 (25%)	189 (2%)

5 of 2432 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	28	G

5 of 189 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	913	A
26	14	71	A
1	1G	1126	U
1	1G	1533	C
26	14	479	A

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

23 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
23	PSU	2K	56	23	18,21,22	1.15	1 (5%)	22,30,33	1.89	5 (22%)
22	T6A	1K	37	22	27,34,35	2.77	6 (22%)	29,49,52	2.48	9 (31%)
22	U8U	1K	34	22,25	19,24,25	2.52	7 (36%)	23,34,37	1.09	2 (8%)
22	U8U	1L	34	22,25	19,24,25	2.59	7 (36%)	23,34,37	1.27	3 (13%)
23	OMC	2K	33	23	19,22,23	1.81	3 (15%)	26,31,34	0.80	0
23	4SU	2L	8	23	18,21,22	1.83	3 (16%)	26,30,33	2.71	6 (23%)
22	PSU	1K	55	22	18,21,22	1.15	1 (5%)	22,30,33	1.83	4 (18%)
56	PSU	3L	39	56	18,21,22	1.14	2 (11%)	22,30,33	1.99	5 (22%)
22	PSU	1K	39	22	18,21,22	1.10	1 (5%)	22,30,33	1.73	4 (18%)
23	PSU	2L	56	23	18,21,22	1.06	1 (5%)	22,30,33	1.80	5 (22%)
23	5MU	2L	55	23	19,22,23	3.93	5 (26%)	28,32,35	3.41	10 (35%)
23	G7M	2K	47	23	20,26,27	2.39	6 (30%)	17,39,42	0.85	1 (5%)
22	PSU	1L	55	22	18,21,22	1.09	1 (5%)	22,30,33	1.70	5 (22%)
22	PSU	1L	39	22	18,21,22	1.01	1 (5%)	22,30,33	1.73	3 (13%)
22	5MU	1K	54	22	19,22,23	3.80	5 (26%)	28,32,35	3.18	9 (32%)
23	G7M	2L	47	23	20,26,27	2.38	6 (30%)	17,39,42	1.05	1 (5%)
23	4SU	2K	8	23	18,21,22	1.89	5 (27%)	26,30,33	2.54	5 (19%)
24	PSU	3K	39	24	18,21,22	1.28	1 (5%)	22,30,33	1.72	4 (18%)
23	5MU	2K	55	23	19,22,23	3.81	5 (26%)	28,32,35	3.40	6 (21%)
23	OMC	2L	33	23	19,22,23	1.97	4 (21%)	26,31,34	1.07	1 (3%)
56	T6A	3L	37	56	27,34,35	2.60	5 (18%)	29,49,52	2.24	11 (37%)
22	5MU	1L	54	22	19,22,23	3.90	5 (26%)	28,32,35	3.27	8 (28%)
22	T6A	1L	37	22	27,34,35	2.57	6 (22%)	29,49,52	2.37	8 (27%)

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
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
22	T6A	1K	37	22	-	4/19/41/42	0/3/3/3
22	U8U	1K	34	22,25	-	2/9/28/29	0/2/2/2
22	U8U	1L	34	22,25	-	2/9/28/29	0/2/2/2
23	OMC	2K	33	23	-	0/9/27/28	0/2/2/2
23	4SU	2L	8	23	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
56	PSU	3L	39	56	-	2/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	2/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	3/7/25/26	0/2/2/2
23	G7M	2K	47	23	-	1/3/25/26	0/3/3/3
22	PSU	1L	55	22	-	3/7/25/26	0/2/2/2
22	PSU	1L	39	22	-	2/7/25/26	0/2/2/2
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
23	G7M	2L	47	23	-	2/3/25/26	0/3/3/3
23	4SU	2K	8	23	-	0/7/25/26	0/2/2/2
24	PSU	3K	39	24	-	3/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	1/9/27/28	0/2/2/2
56	T6A	3L	37	56	-	10/19/41/42	0/3/3/3
22	5MU	1L	54	22	-	0/7/25/26	0/2/2/2
22	T6A	1L	37	22	-	7/19/41/42	0/3/3/3

The worst 5 of 87 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1L	54	5MU	C2-N1	12.57	1.58	1.38
23	2L	55	5MU	C2-N1	12.55	1.58	1.38
23	2K	55	5MU	C2-N1	12.48	1.58	1.38
22	1K	54	5MU	C2-N1	12.00	1.57	1.38
56	3L	37	T6A	C6-N6	8.37	1.51	1.36

The worst 5 of 115 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2K	55	5MU	C5-C4-N3	11.43	125.06	115.31
23	2L	55	5MU	C5-C4-N3	11.29	124.95	115.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	1L	54	5MU	C5-C4-N3	10.66	124.41	115.31
22	1K	54	5MU	C5-C4-N3	10.55	124.32	115.31
23	2L	8	4SU	C4-N3-C2	-9.01	118.59	127.34

There are no chirality outliers.

5 of 44 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
24	3K	39	PSU	C3'-C4'-C5'-O5'
22	1L	34	U8U	N-C-C5-C4
22	1L	34	U8U	N-C-C5-C6
22	1L	37	T6A	C5-C6-N6-C10
22	1L	37	T6A	N1-C6-N6-C10

There are no ring outliers.

11 monomers are involved in 20 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	1K	34	U8U	1	0
23	2L	8	4SU	2	0
56	3L	39	PSU	1	0
23	2L	56	PSU	3	0
23	2L	55	5MU	3	0
22	1K	54	5MU	1	0
23	2L	47	G7M	4	0
23	2K	8	4SU	1	0
23	2K	55	5MU	2	0
56	3L	37	T6A	2	0
22	1L	37	T6A	2	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1269 ligands modelled in this entry, 1265 are monoatomic - leaving 4 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
59	SF4	3E	301	4	0,12,12	-	-	-		
58	PAR	13	1749	-	45,45,45	0.85	0	64,67,67	2.01	16 (25%)
59	SF4	32	301	-	0,12,12	-	-	-		
58	PAR	1G	1691	-	45,45,45	0.71	0	64,67,67	1.73	17 (26%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
59	SF4	3E	301	4	-	-	0/6/5/5
58	PAR	13	1749	-	-	4/18/94/94	0/4/4/4
59	SF4	32	301	-	-	-	0/6/5/5
58	PAR	1G	1691	-	-	6/18/94/94	0/4/4/4

There are no bond length outliers.

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	13	1749	PAR	C22-C12-C62	-4.86	102.69	110.04
58	13	1749	PAR	C14-O33-C33	-4.70	106.32	117.96
58	1G	1691	PAR	O11-C11-C21	-4.60	100.30	108.22
58	13	1749	PAR	C11-O51-C51	4.53	122.58	113.69
58	13	1749	PAR	C14-O54-C54	4.32	122.17	113.69

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

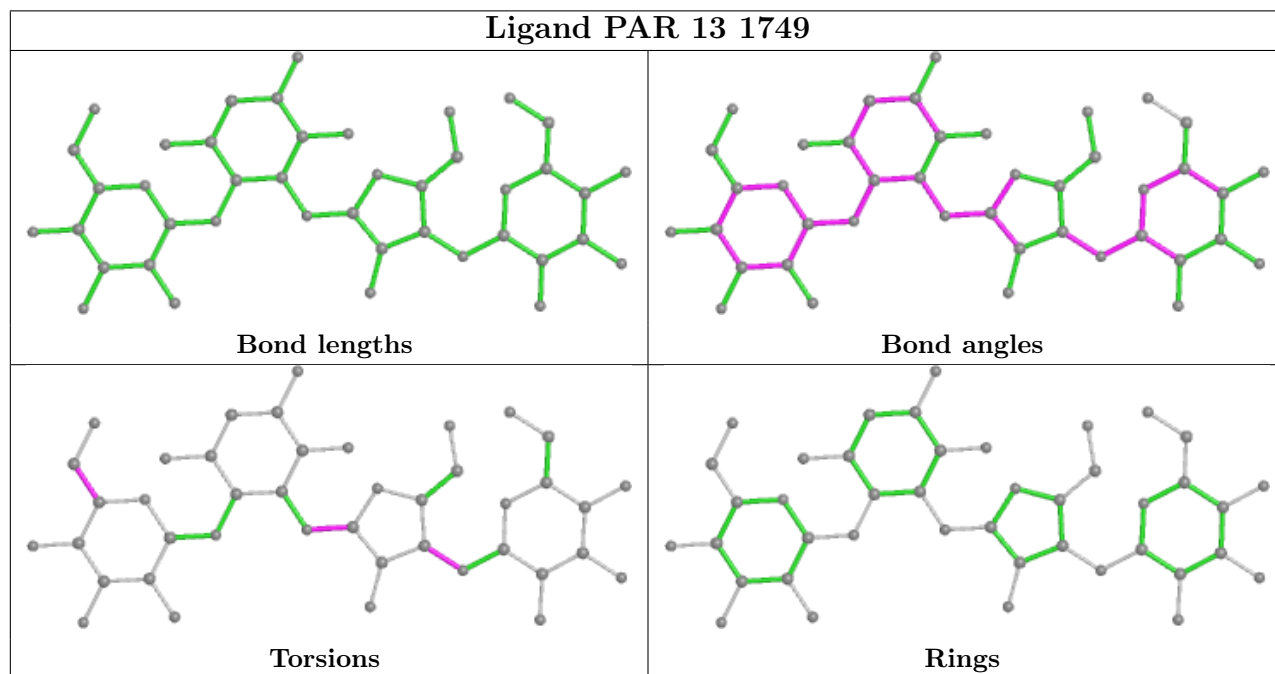
Mol	Chain	Res	Type	Atoms
58	13	1749	PAR	C41-C51-C61-O61
58	1G	1691	PAR	C33-C43-C53-O53
58	1G	1691	PAR	O43-C43-C53-O53
58	13	1749	PAR	O51-C51-C61-O61
58	1G	1691	PAR	O43-C13-O52-C52

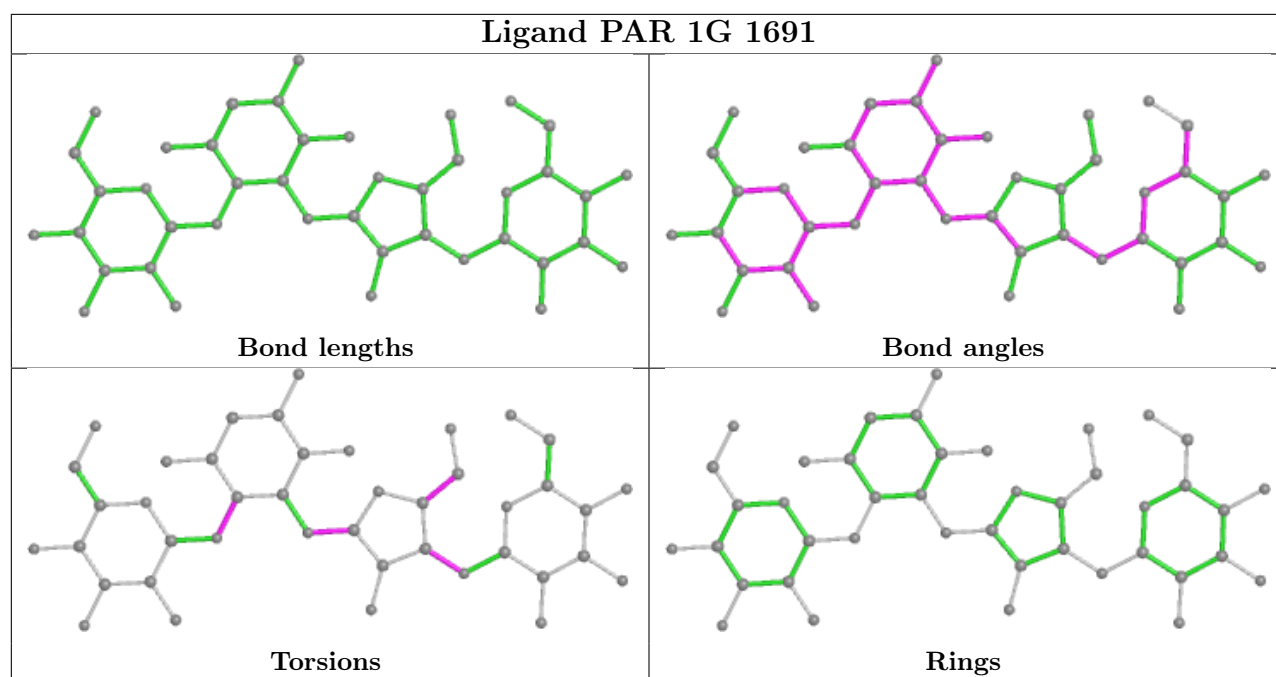
There are no ring outliers.

3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
58	13	1749	PAR	3	0
59	32	301	SF4	2	0
58	1G	1691	PAR	2	0

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
4	3E	1
34	69	1
10	1A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	3E	36:ARG	C	37:PRO	N	1.17
1	69	79:ILE	C	80:PRO	N	1.16
1	1A	76:ASN	C	77:PRO	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	1496/1522 (98%)	-0.82	2 (0%) 95 95	58, 99, 162, 246	0
1	1G	1506/1522 (98%)	-0.86	1 (0%) 95 95	73, 114, 168, 253	0
2	12	210/256 (82%)	0.45	15 (7%) 16 8	127, 152, 169, 182	0
2	1E	231/256 (90%)	0.44	16 (6%) 16 9	105, 136, 157, 168	0
3	22	196/239 (82%)	1.11	45 (22%) 0 0	122, 138, 165, 170	0
3	2E	205/239 (85%)	0.46	11 (5%) 25 13	81, 103, 128, 138	0
4	32	208/209 (99%)	0.99	43 (20%) 1 0	98, 118, 136, 144	0
4	3E	207/209 (99%)	0.54	20 (9%) 7 4	80, 101, 121, 129	0
5	42	148/162 (91%)	0.40	6 (4%) 37 22	104, 121, 137, 147	0
5	4E	149/162 (91%)	0.55	13 (8%) 10 5	79, 96, 112, 121	0
6	52	101/101 (100%)	0.58	10 (9%) 7 4	83, 101, 118, 131	0
6	5E	100/101 (99%)	0.88	13 (13%) 3 2	83, 100, 115, 121	0
7	62	139/156 (89%)	0.17	4 (2%) 51 35	111, 124, 135, 141	0
7	6E	154/156 (98%)	-0.07	3 (1%) 66 53	101, 115, 132, 141	0
8	72	137/138 (99%)	0.41	8 (5%) 23 12	104, 124, 136, 142	0
8	7E	138/138 (100%)	0.57	11 (7%) 12 6	91, 106, 118, 127	0
9	82	121/128 (94%)	0.20	3 (2%) 57 42	110, 151, 165, 175	0
9	8E	126/128 (98%)	-0.18	0 100 100	89, 128, 147, 153	0
10	1A	80/105 (76%)	-0.01	1 (1%) 77 66	116, 145, 154, 156	0
10	1I	91/105 (86%)	0.24	7 (7%) 13 6	80, 121, 156, 161	0
11	2A	113/129 (87%)	0.82	16 (14%) 2 1	86, 110, 123, 130	0
11	2I	111/129 (86%)	0.91	15 (13%) 3 2	77, 102, 118, 125	0
12	3A	122/132 (92%)	1.17	31 (25%) 0 0	84, 102, 126, 145	0
12	3I	122/132 (92%)	0.40	5 (4%) 37 22	67, 77, 99, 122	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	111/126 (88%)	0.61	9 (8%) 12 6	109, 138, 154, 162	0
13	4I	119/126 (94%)	0.12	2 (1%) 70 57	84, 113, 128, 142	0
14	5A	59/61 (96%)	0.79	13 (22%) 0 0	122, 135, 145, 150	0
14	5I	60/61 (98%)	-0.33	0 100 100	82, 92, 108, 112	0
15	6A	88/89 (98%)	0.07	3 (3%) 45 28	89, 109, 128, 132	0
15	6I	87/89 (97%)	0.29	1 (1%) 80 70	83, 99, 116, 124	0
16	7A	84/88 (95%)	0.07	1 (1%) 79 68	92, 107, 125, 140	0
16	7I	83/88 (94%)	-0.26	0 100 100	97, 106, 136, 155	0
17	8A	99/105 (94%)	0.48	9 (9%) 9 5	95, 114, 127, 134	0
17	8I	100/105 (95%)	0.32	5 (5%) 28 15	88, 104, 115, 121	0
18	9A	67/88 (76%)	0.90	9 (13%) 3 2	93, 111, 130, 132	0
18	9I	68/88 (77%)	1.64	22 (32%) 0 0	87, 102, 124, 127	0
19	AA	62/93 (66%)	0.43	5 (8%) 12 6	123, 142, 153, 156	0
19	AI	81/93 (87%)	0.41	3 (3%) 41 25	91, 110, 132, 138	0
20	BA	99/106 (93%)	-0.06	2 (2%) 65 50	90, 110, 133, 142	0
20	BI	97/106 (91%)	-0.12	1 (1%) 82 73	104, 121, 147, 152	0
21	1B	22/27 (81%)	0.04	2 (9%) 9 5	119, 130, 141, 145	0
21	1F	23/27 (85%)	-0.35	0 100 100	89, 102, 110, 112	0
22	1K	64/76 (84%)	0.37	8 (12%) 3 2	84, 173, 191, 198	0
22	1L	68/76 (89%)	1.45	19 (27%) 0 0	115, 198, 216, 220	0
23	2K	72/77 (93%)	-0.54	0 100 100	74, 96, 123, 139	0
23	2L	72/77 (93%)	-0.48	0 100 100	81, 109, 138, 153	0
24	3K	75/76 (98%)	-0.33	3 (4%) 38 23	76, 207, 224, 234	0
25	4K	20/27 (74%)	0.14	2 (10%) 7 4	73, 133, 219, 222	0
25	4L	19/27 (70%)	0.29	2 (10%) 6 3	92, 146, 215, 217	0
26	14	2861/2917 (98%)	-0.59	18 (0%) 89 84	54, 86, 192, 250	0
26	1H	2833/2917 (97%)	-0.61	12 (0%) 92 89	44, 76, 171, 250	0
27	16	122/122 (100%)	-0.83	1 (0%) 86 78	69, 93, 114, 188	0
27	1J	122/122 (100%)	-0.87	0 100 100	87, 113, 134, 182	0
28	71	133/229 (58%)	1.48	45 (33%) 0 0	135, 198, 223, 231	0
28	79	57/229 (24%)	1.56	22 (38%) 0 0	141, 174, 199, 206	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	11	273/276 (98%)	0.32	7 (2%) 56 40	43, 68, 86, 96	0
29	19	274/276 (99%)	0.45	13 (4%) 31 17	52, 75, 91, 115	0
30	21	203/206 (98%)	0.66	29 (14%) 2 1	55, 93, 129, 137	0
30	29	204/206 (99%)	0.40	16 (7%) 13 6	63, 94, 125, 142	0
31	31	202/210 (96%)	0.11	6 (2%) 50 33	49, 80, 114, 128	0
31	39	204/210 (97%)	0.52	20 (9%) 7 4	60, 101, 144, 170	0
32	41	179/182 (98%)	0.45	15 (8%) 11 5	80, 101, 132, 143	0
32	49	179/182 (98%)	1.36	47 (26%) 0 0	107, 123, 144, 167	0
33	51	171/180 (95%)	0.34	11 (6%) 19 10	84, 103, 118, 126	0
33	59	74/180 (41%)	0.50	10 (13%) 3 2	127, 155, 176, 191	0
34	61	146/148 (98%)	0.68	17 (11%) 4 2	80, 125, 142, 155	0
34	69	145/148 (97%)	0.86	23 (15%) 1 1	86, 121, 142, 152	0
35	15	138/140 (98%)	0.74	14 (10%) 7 3	80, 104, 132, 141	0
35	58	138/140 (98%)	0.65	13 (9%) 8 4	67, 94, 126, 137	0
36	25	122/122 (100%)	0.37	4 (3%) 46 29	69, 87, 103, 112	0
36	68	122/122 (100%)	0.25	4 (3%) 46 29	61, 79, 95, 103	0
37	35	147/150 (98%)	0.52	13 (8%) 10 5	60, 102, 129, 139	0
37	78	147/150 (98%)	0.03	4 (2%) 54 38	50, 84, 111, 117	0
38	45	138/141 (97%)	1.28	29 (21%) 1 0	74, 100, 118, 130	0
38	88	141/141 (100%)	0.47	8 (5%) 23 12	61, 80, 100, 123	0
39	55	118/118 (100%)	-0.11	0 100 100	64, 80, 96, 107	0
39	98	118/118 (100%)	0.51	8 (6%) 17 9	66, 89, 106, 118	0
40	65	110/112 (98%)	0.55	6 (5%) 25 13	84, 106, 121, 127	0
40	A8	111/112 (99%)	0.58	8 (7%) 15 8	76, 88, 107, 116	0
41	75	133/146 (91%)	0.03	4 (3%) 50 33	76, 95, 122, 143	0
41	B8	133/146 (91%)	-0.17	1 (0%) 86 78	71, 94, 126, 141	0
42	85	116/118 (98%)	0.27	6 (5%) 27 14	67, 90, 121, 132	0
42	C8	115/118 (97%)	0.19	5 (4%) 35 21	60, 84, 111, 120	0
43	95	100/101 (99%)	1.72	39 (39%) 0 0	68, 117, 131, 142	0
43	D8	100/101 (99%)	0.82	11 (11%) 5 3	62, 103, 123, 129	0
44	A5	113/113 (100%)	0.18	2 (1%) 68 55	61, 75, 104, 155	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	E8	112/113 (99%)	0.44	4 (3%) 42 26	60, 76, 104, 136	0
45	B5	94/96 (97%)	0.35	6 (6%) 19 10	72, 83, 104, 119	0
45	F8	95/96 (98%)	0.21	3 (3%) 47 30	59, 74, 97, 107	0
46	C5	104/110 (94%)	1.12	23 (22%) 0 0	89, 114, 147, 154	0
46	G8	105/110 (95%)	0.11	2 (1%) 66 53	72, 94, 124, 135	0
47	D5	132/206 (64%)	1.65	54 (40%) 0 0	104, 132, 155, 163	0
47	H8	171/206 (83%)	1.27	45 (26%) 0 0	87, 118, 188, 193	0
48	E5	77/85 (90%)	0.66	4 (5%) 27 14	69, 87, 102, 123	0
48	I8	76/85 (89%)	-0.12	1 (1%) 77 66	59, 72, 85, 100	0
49	F5	94/98 (95%)	0.57	7 (7%) 14 8	66, 84, 115, 128	0
49	J8	94/98 (95%)	0.41	9 (9%) 8 4	54, 77, 114, 120	0
50	G5	66/72 (91%)	0.25	2 (3%) 50 33	81, 101, 121, 132	0
50	K8	68/72 (94%)	0.29	1 (1%) 73 61	67, 84, 98, 115	0
51	H5	58/60 (96%)	0.94	9 (15%) 2 1	77, 98, 128, 136	0
51	L8	58/60 (96%)	0.33	2 (3%) 45 28	65, 83, 107, 123	0
52	M8	47/71 (66%)	1.16	12 (25%) 0 0	102, 135, 150, 157	0
53	J5	56/60 (93%)	-0.10	0 100 100	59, 87, 127, 134	0
53	N8	48/60 (80%)	0.21	3 (6%) 20 10	55, 86, 128, 132	0
54	L5	47/49 (95%)	-0.19	1 (2%) 63 49	54, 62, 83, 88	0
54	P8	47/49 (95%)	-0.39	1 (2%) 63 49	49, 55, 72, 81	0
55	M5	64/65 (98%)	0.18	1 (1%) 72 59	68, 78, 93, 111	0
55	Q8	64/65 (98%)	-0.14	0 100 100	62, 70, 84, 97	0
56	3L	73/76 (96%)	0.11	3 (4%) 37 22	84, 205, 228, 235	0
All	All	20602/21967 (93%)	-0.02	1104 (5%) 25 13	43, 99, 165, 253	0

The worst 5 of 1104 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
26	14	2902	C	12.8
26	14	2901	C	9.8
32	49	138	GLN	8.4
44	A5	113	LYS	8.2
22	1L	71	C	8.2

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
56	PSU	3L	39	20/21	0.85	0.17	118,132,140,141	0
22	T6A	1K	37	32/33	0.87	0.28	66,85,127,129	0
22	PSU	1L	55	20/21	0.88	0.21	126,149,158,158	0
22	T6A	1L	37	32/33	0.88	0.23	104,115,143,144	0
56	T6A	3L	37	32/33	0.89	0.19	121,132,147,147	0
22	5MU	1K	54	21/22	0.91	0.18	118,126,140,143	0
22	U8U	1L	34	23/24	0.91	0.17	115,123,131,134	0
22	PSU	1K	55	20/21	0.92	0.14	107,132,143,147	0
23	PSU	2L	56	20/21	0.92	0.10	106,110,116,120	0
23	4SU	2L	8	20/21	0.93	0.14	100,111,114,121	0
23	G7M	2K	47	24/25	0.93	0.12	90,101,110,116	0
22	PSU	1L	39	20/21	0.93	0.13	104,123,128,130	0
23	5MU	2L	55	21/22	0.94	0.10	105,114,119,125	0
23	OMC	2L	33	21/22	0.94	0.15	96,100,104,113	0
22	U8U	1K	34	23/24	0.95	0.14	81,89,100,107	0
22	5MU	1L	54	21/22	0.95	0.20	131,141,157,158	0
23	5MU	2K	55	21/22	0.95	0.09	90,103,110,112	0
23	4SU	2K	8	20/21	0.95	0.13	87,92,97,98	0
24	PSU	3K	39	20/21	0.95	0.09	109,116,128,137	0
22	PSU	1K	39	20/21	0.96	0.11	79,97,103,106	0
23	OMC	2K	33	21/22	0.96	0.14	73,80,83,87	0
23	PSU	2K	56	20/21	0.96	0.08	95,100,104,111	0
23	G7M	2L	47	24/25	0.96	0.12	114,121,128,132	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(\AA^2)	Q<0.9
57	MG	14	3031	1/1	0.32	0.26	105,105,105,105	0
57	MG	13	1646	1/1	0.44	0.17	109,109,109,109	0
57	MG	1H	3282	1/1	0.45	0.25	96,96,96,96	0
57	MG	1H	3183	1/1	0.46	0.35	92,92,92,92	0
57	MG	14	3266	1/1	0.53	0.24	84,84,84,84	0
57	MG	13	1643	1/1	0.57	0.21	89,89,89,89	0
57	MG	1H	3277	1/1	0.59	0.18	77,77,77,77	0
57	MG	13	1689	1/1	0.59	0.40	99,99,99,99	0
57	MG	55	201	1/1	0.59	0.33	83,83,83,83	0
57	MG	13	1661	1/1	0.62	0.11	102,102,102,102	0
57	MG	35	202	1/1	0.62	0.22	75,75,75,75	0
57	MG	13	1635	1/1	0.62	0.07	85,85,85,85	0
57	MG	14	3116	1/1	0.63	0.39	87,87,87,87	0
57	MG	14	3206	1/1	0.64	0.55	95,95,95,95	0
57	MG	1G	1620	1/1	0.64	0.77	79,79,79,79	0
57	MG	1G	1621	1/1	0.65	0.18	103,103,103,103	0
57	MG	14	3162	1/1	0.65	0.30	67,67,67,67	0
57	MG	1H	3210	1/1	0.65	0.32	74,74,74,74	0
57	MG	14	3267	1/1	0.66	0.15	83,83,83,83	0
57	MG	14	3272	1/1	0.66	0.30	77,77,77,77	0
57	MG	14	3237	1/1	0.66	0.50	72,72,72,72	0
57	MG	1H	3496	1/1	0.66	0.06	94,94,94,94	0
57	MG	14	3268	1/1	0.67	0.44	60,60,60,60	0
57	MG	14	3120	1/1	0.67	0.35	67,67,67,67	0
57	MG	1H	3180	1/1	0.67	0.38	76,76,76,76	0
57	MG	14	3016	1/1	0.67	0.56	73,73,73,73	0
57	MG	14	3155	1/1	0.68	0.26	66,66,66,66	0
57	MG	14	3157	1/1	0.68	0.32	99,99,99,99	0
57	MG	16	206	1/1	0.68	0.41	81,81,81,81	0
57	MG	14	3179	1/1	0.68	0.35	74,74,74,74	0
57	MG	2L	103	1/1	0.68	0.57	80,80,80,80	0
57	MG	13	1667	1/1	0.68	0.43	97,97,97,97	0
57	MG	14	3224	1/1	0.69	0.38	80,80,80,80	0
57	MG	1H	3129	1/1	0.69	0.31	76,76,76,76	0
57	MG	14	3243	1/1	0.69	0.41	86,86,86,86	0
57	MG	29	304	1/1	0.69	0.23	71,71,71,71	0
57	MG	14	3265	1/1	0.69	0.51	79,79,79,79	0
57	MG	13	1628	1/1	0.69	0.37	96,96,96,96	0
57	MG	13	1665	1/1	0.70	0.46	82,82,82,82	0
57	MG	1H	3207	1/1	0.70	0.16	56,56,56,56	0
57	MG	14	3013	1/1	0.70	0.24	74,74,74,74	0
57	MG	14	3248	1/1	0.70	0.35	75,75,75,75	0
57	MG	14	3063	1/1	0.71	0.31	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1650	1/1	0.71	0.38	100,100,100,100	0
57	MG	13	1625	1/1	0.72	0.27	96,96,96,96	0
57	MG	1H	3493	1/1	0.72	0.19	94,94,94,94	0
57	MG	13	1655	1/1	0.72	0.46	71,71,71,71	0
57	MG	16	203	1/1	0.72	0.16	79,79,79,79	0
57	MG	14	3202	1/1	0.72	0.23	90,90,90,90	0
57	MG	16	205	1/1	0.72	0.20	81,81,81,81	0
57	MG	14	3171	1/1	0.73	0.22	73,73,73,73	0
57	MG	1H	3284	1/1	0.73	0.62	75,75,75,75	0
57	MG	1H	3190	1/1	0.73	0.47	74,74,74,74	0
57	MG	1H	3205	1/1	0.73	0.17	77,77,77,77	0
57	MG	1H	3289	1/1	0.74	0.40	82,82,82,82	0
57	MG	1H	3278	1/1	0.74	0.20	82,82,82,82	0
57	MG	14	3374	1/1	0.74	0.07	96,96,96,96	0
57	MG	29	301	1/1	0.74	0.44	80,80,80,80	0
57	MG	14	3223	1/1	0.74	0.42	75,75,75,75	0
57	MG	1H	3019	1/1	0.74	0.27	78,78,78,78	0
57	MG	1H	3020	1/1	0.74	0.19	107,107,107,107	0
57	MG	1H	3121	1/1	0.75	0.42	79,79,79,79	0
57	MG	14	3190	1/1	0.75	0.88	82,82,82,82	0
57	MG	14	3075	1/1	0.75	0.46	70,70,70,70	0
57	MG	1H	3198	1/1	0.75	0.26	76,76,76,76	0
57	MG	7A	101	1/1	0.75	0.23	89,89,89,89	0
57	MG	14	3357	1/1	0.75	0.11	84,84,84,84	0
57	MG	13	1684	1/1	0.75	0.22	85,85,85,85	0
57	MG	1J	203	1/1	0.75	0.30	93,93,93,93	0
57	MG	5I	101	1/1	0.75	0.08	88,88,88,88	0
57	MG	1H	3069	1/1	0.75	0.46	65,65,65,65	0
57	MG	11	303	1/1	0.75	0.51	65,65,65,65	0
57	MG	14	3257	1/1	0.75	0.58	87,87,87,87	0
57	MG	1H	3220	1/1	0.76	0.40	73,73,73,73	0
57	MG	1H	3233	1/1	0.76	0.34	70,70,70,70	0
57	MG	1H	3287	1/1	0.76	0.37	80,80,80,80	0
57	MG	14	3236	1/1	0.76	0.21	88,88,88,88	0
57	MG	1G	1641	1/1	0.76	0.34	78,78,78,78	0
57	MG	1H	3244	1/1	0.77	0.41	84,84,84,84	0
57	MG	1H	3128	1/1	0.77	0.22	64,64,64,64	0
57	MG	16	207	1/1	0.77	0.26	77,77,77,77	0
57	MG	14	3037	1/1	0.77	0.21	63,63,63,63	0
57	MG	14	3241	1/1	0.77	0.33	84,84,84,84	0
57	MG	1G	1626	1/1	0.78	0.29	73,73,73,73	0
57	MG	13	1659	1/1	0.78	0.42	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	2K	101	1/1	0.78	0.29	95,95,95,95	0
57	MG	13	1656	1/1	0.78	0.50	62,62,62,62	0
57	MG	14	3443	1/1	0.78	0.07	108,108,108,108	0
57	MG	14	3097	1/1	0.78	0.51	65,65,65,65	0
57	MG	14	3005	1/1	0.78	0.37	70,70,70,70	0
57	MG	1H	3125	1/1	0.78	0.34	61,61,61,61	0
57	MG	14	3143	1/1	0.78	0.24	73,73,73,73	0
57	MG	1H	3249	1/1	0.78	0.22	61,61,61,61	0
57	MG	1I	201	1/1	0.79	0.12	100,100,100,100	0
57	MG	1H	3103	1/1	0.79	0.43	82,82,82,82	0
57	MG	1H	3107	1/1	0.79	0.19	64,64,64,64	0
57	MG	14	3423	1/1	0.79	0.06	144,144,144,144	0
57	MG	1H	3136	1/1	0.79	0.84	73,73,73,73	0
57	MG	1H	3108	1/1	0.79	0.41	82,82,82,82	0
57	MG	1H	3280	1/1	0.79	0.42	80,80,80,80	0
57	MG	1H	3054	1/1	0.79	0.34	59,59,59,59	0
57	MG	14	3226	1/1	0.79	0.27	78,78,78,78	0
57	MG	1G	1657	1/1	0.79	0.13	105,105,105,105	0
57	MG	14	3232	1/1	0.80	0.26	130,130,130,130	0
57	MG	14	3191	1/1	0.80	0.44	73,73,73,73	0
57	MG	1G	1609	1/1	0.80	0.19	108,108,108,108	0
57	MG	1H	3139	1/1	0.80	0.35	71,71,71,71	0
57	MG	1H	3144	1/1	0.80	0.48	75,75,75,75	0
57	MG	35	201	1/1	0.80	0.33	71,71,71,71	0
57	MG	1H	3199	1/1	0.80	0.38	75,75,75,75	0
57	MG	P8	101	1/1	0.80	0.44	66,66,66,66	0
57	MG	1H	3066	1/1	0.81	0.21	57,57,57,57	0
57	MG	1G	1618	1/1	0.81	0.19	86,86,86,86	0
57	MG	14	3180	1/1	0.81	0.31	69,69,69,69	0
57	MG	1G	1692	1/1	0.81	0.36	105,105,105,105	0
57	MG	29	303	1/1	0.81	0.16	67,67,67,67	0
57	MG	14	3036	1/1	0.81	0.24	76,76,76,76	0
57	MG	1H	3208	1/1	0.81	0.23	76,76,76,76	0
57	MG	1H	3242	1/1	0.81	0.27	80,80,80,80	0
57	MG	13	1603	1/1	0.81	0.36	76,76,76,76	0
57	MG	14	3258	1/1	0.82	0.77	83,83,83,83	0
57	MG	13	1618	1/1	0.82	0.33	64,64,64,64	0
57	MG	1G	1631	1/1	0.82	0.29	107,107,107,107	0
57	MG	1H	3036	1/1	0.82	0.20	78,78,78,78	0
57	MG	14	3192	1/1	0.82	0.36	100,100,100,100	0
57	MG	21	303	1/1	0.82	0.22	69,69,69,69	0
57	MG	14	3108	1/1	0.82	0.11	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	13	1648	1/1	0.82	0.30	90,90,90,90	0
57	MG	1H	3192	1/1	0.82	0.32	82,82,82,82	0
57	MG	14	3427	1/1	0.82	0.08	102,102,102,102	0
57	MG	1G	1613	1/1	0.82	0.52	73,73,73,73	0
57	MG	14	3454	1/1	0.82	0.20	79,79,79,79	0
57	MG	14	3144	1/1	0.82	0.52	80,80,80,80	0
57	MG	14	3154	1/1	0.82	0.69	74,74,74,74	0
57	MG	1G	1616	1/1	0.82	0.23	86,86,86,86	0
57	MG	1H	3018	1/1	0.82	0.45	80,80,80,80	0
57	MG	13	1645	1/1	0.82	0.23	93,93,93,93	0
57	MG	1H	3200	1/1	0.82	0.35	73,73,73,73	0
57	MG	1G	1623	1/1	0.82	0.31	77,77,77,77	0
57	MG	1H	3291	1/1	0.83	0.46	88,88,88,88	0
57	MG	14	3204	1/1	0.83	0.19	90,90,90,90	0
57	MG	14	3129	1/1	0.83	0.16	69,69,69,69	0
57	MG	14	3212	1/1	0.83	0.43	80,80,80,80	0
57	MG	14	3213	1/1	0.83	0.46	87,87,87,87	0
57	MG	1H	3471	1/1	0.83	0.12	82,82,82,82	0
57	MG	14	3421	1/1	0.83	0.15	75,75,75,75	0
57	MG	1H	3246	1/1	0.83	0.38	85,85,85,85	0
57	MG	1H	3188	1/1	0.83	0.38	74,74,74,74	0
57	MG	1H	3120	1/1	0.83	0.16	63,63,63,63	0
57	MG	16	204	1/1	0.83	0.27	90,90,90,90	0
57	MG	13	1663	1/1	0.83	0.35	71,71,71,71	0
57	MG	1H	3023	1/1	0.83	0.39	81,81,81,81	0
57	MG	1H	3177	1/1	0.83	0.25	81,81,81,81	0
57	MG	1G	1639	1/1	0.83	0.18	97,97,97,97	0
57	MG	1H	3241	1/1	0.83	0.55	71,71,71,71	0
57	MG	1H	3093	1/1	0.83	0.63	71,71,71,71	0
57	MG	1H	3115	1/1	0.83	0.29	82,82,82,82	0
57	MG	14	3135	1/1	0.84	0.37	71,71,71,71	0
57	MG	14	3199	1/1	0.84	0.38	84,84,84,84	0
57	MG	14	3435	1/1	0.84	0.08	103,103,103,103	0
57	MG	14	3264	1/1	0.84	0.32	90,90,90,90	0
57	MG	14	3229	1/1	0.84	0.29	74,74,74,74	0
57	MG	1H	3083	1/1	0.84	0.21	74,74,74,74	0
57	MG	13	1682	1/1	0.84	0.68	90,90,90,90	0
57	MG	1H	3269	1/1	0.84	0.22	73,73,73,73	0
57	MG	14	3185	1/1	0.84	0.28	89,89,89,89	0
57	MG	1G	1688	1/1	0.84	0.06	100,100,100,100	0
57	MG	14	3244	1/1	0.84	0.68	77,77,77,77	0
57	MG	1H	3275	1/1	0.84	0.21	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3455	1/1	0.85	0.06	103,103,103,103	0
57	MG	1H	3087	1/1	0.85	0.16	68,68,68,68	0
57	MG	14	3211	1/1	0.85	0.38	78,78,78,78	0
57	MG	1H	3092	1/1	0.85	0.34	57,57,57,57	0
57	MG	1H	3238	1/1	0.85	0.34	78,78,78,78	0
57	MG	1H	3279	1/1	0.85	0.99	71,71,71,71	0
57	MG	1H	3133	1/1	0.85	0.42	80,80,80,80	0
57	MG	13	1670	1/1	0.85	0.33	78,78,78,78	0
57	MG	13	1649	1/1	0.85	0.37	78,78,78,78	0
57	MG	1H	3086	1/1	0.85	0.07	71,71,71,71	0
57	MG	14	3173	1/1	0.85	0.28	69,69,69,69	0
57	MG	1G	1627	1/1	0.85	0.25	86,86,86,86	0
57	MG	14	3044	1/1	0.85	0.81	76,76,76,76	0
57	MG	16	211	1/1	0.85	0.08	84,84,84,84	0
57	MG	1G	1638	1/1	0.85	0.58	88,88,88,88	0
57	MG	1H	3209	1/1	0.85	0.23	78,78,78,78	0
57	MG	1H	3194	1/1	0.85	0.45	66,66,66,66	0
57	MG	1G	1655	1/1	0.85	0.07	120,120,120,120	0
57	MG	14	3259	1/1	0.85	0.19	97,97,97,97	0
57	MG	41	202	1/1	0.85	0.26	82,82,82,82	0
57	MG	14	3238	1/1	0.86	0.55	69,69,69,69	0
57	MG	1H	3286	1/1	0.86	0.23	82,82,82,82	0
57	MG	14	3242	1/1	0.86	0.11	95,95,95,95	0
57	MG	1H	3131	1/1	0.86	0.52	67,67,67,67	0
57	MG	14	3163	1/1	0.86	0.64	72,72,72,72	0
57	MG	14	3164	1/1	0.86	0.33	65,65,65,65	0
57	MG	14	3168	1/1	0.86	0.21	89,89,89,89	0
57	MG	1G	1604	1/1	0.86	0.17	87,87,87,87	0
57	MG	1H	3119	1/1	0.86	0.20	71,71,71,71	0
57	MG	14	3260	1/1	0.86	0.13	117,117,117,117	0
57	MG	1H	3077	1/1	0.86	0.55	74,74,74,74	0
57	MG	1H	3411	1/1	0.86	0.07	81,81,81,81	0
57	MG	1H	3428	1/1	0.86	0.08	87,87,87,87	0
57	MG	14	3188	1/1	0.86	0.40	66,66,66,66	0
57	MG	1H	3138	1/1	0.86	0.41	55,55,55,55	0
57	MG	1H	3255	1/1	0.86	0.14	88,88,88,88	0
57	MG	1H	3487	1/1	0.86	0.08	91,91,91,91	0
57	MG	1H	3259	1/1	0.86	0.36	74,74,74,74	0
57	MG	13	1741	1/1	0.86	0.14	79,79,79,79	0
57	MG	14	3107	1/1	0.86	0.42	81,81,81,81	0
57	MG	1H	3212	1/1	0.86	0.35	77,77,77,77	0
57	MG	14	3113	1/1	0.86	0.41	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3195	1/1	0.86	0.28	73,73,73,73	0
57	MG	1H	3226	1/1	0.86	0.15	64,64,64,64	0
57	MG	1H	3229	1/1	0.86	0.34	73,73,73,73	0
57	MG	1G	1646	1/1	0.86	0.67	84,84,84,84	0
57	MG	1H	3059	1/1	0.86	0.21	66,66,66,66	0
57	MG	1H	3281	1/1	0.86	0.52	69,69,69,69	0
57	MG	14	3152	1/1	0.86	0.32	67,67,67,67	0
57	MG	13	1626	1/1	0.86	0.14	87,87,87,87	0
57	MG	13	1668	1/1	0.86	0.23	95,95,95,95	0
57	MG	1H	3501	1/1	0.87	0.05	72,72,72,72	0
57	MG	13	1679	1/1	0.87	0.22	86,86,86,86	0
57	MG	14	3053	1/1	0.87	0.30	77,77,77,77	0
57	MG	1H	3007	1/1	0.87	0.29	68,68,68,68	0
57	MG	14	3069	1/1	0.87	0.42	67,67,67,67	0
57	MG	1G	1628	1/1	0.87	0.24	124,124,124,124	0
57	MG	14	3444	1/1	0.87	0.12	87,87,87,87	0
57	MG	1H	3452	1/1	0.87	0.09	89,89,89,89	0
57	MG	1H	3285	1/1	0.87	0.55	87,87,87,87	0
57	MG	1H	3011	1/1	0.87	0.68	72,72,72,72	0
57	MG	1H	3014	1/1	0.87	0.50	75,75,75,75	0
57	MG	13	1748	1/1	0.87	0.09	115,115,115,115	0
57	MG	1H	3272	1/1	0.87	0.73	95,95,95,95	0
57	MG	14	3121	1/1	0.87	0.31	77,77,77,77	0
57	MG	14	3366	1/1	0.87	0.12	76,76,76,76	0
57	MG	13	1674	1/1	0.88	0.36	78,78,78,78	0
57	MG	1H	3489	1/1	0.88	0.08	125,125,125,125	0
57	MG	1G	1633	1/1	0.88	0.41	100,100,100,100	0
57	MG	1G	1636	1/1	0.88	0.22	89,89,89,89	0
57	MG	1H	3271	1/1	0.88	0.20	74,74,74,74	0
57	MG	1H	3495	1/1	0.88	0.07	98,98,98,98	0
57	MG	14	3146	1/1	0.88	0.44	76,76,76,76	0
57	MG	14	3147	1/1	0.88	0.29	72,72,72,72	0
57	MG	1H	3047	1/1	0.88	0.28	61,61,61,61	0
57	MG	1H	3273	1/1	0.88	0.26	57,57,57,57	0
57	MG	13	1677	1/1	0.88	0.22	76,76,76,76	0
57	MG	13	1636	1/1	0.88	0.21	75,75,75,75	0
57	MG	13	1642	1/1	0.88	0.26	107,107,107,107	0
57	MG	13	1666	1/1	0.88	0.41	77,77,77,77	0
57	MG	1H	3186	1/1	0.88	0.24	57,57,57,57	0
57	MG	13	1620	1/1	0.88	0.35	58,58,58,58	0
57	MG	1H	3122	1/1	0.88	0.52	73,73,73,73	0
57	MG	14	3010	1/1	0.88	0.31	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3015	1/1	0.88	0.24	72,72,72,72	0
57	MG	1H	3193	1/1	0.88	0.61	84,84,84,84	0
57	MG	14	3324	1/1	0.88	0.09	107,107,107,107	0
57	MG	L8	101	1/1	0.88	0.39	72,72,72,72	0
57	MG	13	1713	1/1	0.88	0.08	89,89,89,89	0
57	MG	1H	3243	1/1	0.88	0.24	62,62,62,62	0
57	MG	13	1739	1/1	0.88	0.06	104,104,104,104	0
57	MG	13	1660	1/1	0.88	0.55	83,83,83,83	0
57	MG	14	3198	1/1	0.88	0.21	81,81,81,81	0
57	MG	14	3054	1/1	0.88	0.40	67,67,67,67	0
57	MG	14	3441	1/1	0.88	0.08	72,72,72,72	0
57	MG	1H	3247	1/1	0.88	0.61	77,77,77,77	0
57	MG	13	1622	1/1	0.88	0.21	81,81,81,81	0
57	MG	1H	3439	1/1	0.88	0.14	81,81,81,81	0
57	MG	1J	201	1/1	0.88	0.20	85,85,85,85	0
57	MG	14	3096	1/1	0.88	0.34	65,65,65,65	0
57	MG	1H	3134	1/1	0.88	0.31	76,76,76,76	0
57	MG	1H	3098	1/1	0.88	0.33	63,63,63,63	0
57	MG	14	3216	1/1	0.88	0.23	74,74,74,74	0
57	MG	39	301	1/1	0.88	0.14	95,95,95,95	0
57	MG	1G	1624	1/1	0.88	0.19	87,87,87,87	0
57	MG	1H	3466	1/1	0.88	0.05	83,83,83,83	0
57	MG	1H	3263	1/1	0.88	1.00	93,93,93,93	0
57	MG	14	3269	1/1	0.89	0.30	102,102,102,102	0
57	MG	13	1735	1/1	0.89	0.07	118,118,118,118	0
57	MG	14	3303	1/1	0.89	0.13	63,63,63,63	0
57	MG	14	3308	1/1	0.89	0.08	96,96,96,96	0
57	MG	14	3310	1/1	0.89	0.09	68,68,68,68	0
57	MG	1H	3114	1/1	0.89	0.41	78,78,78,78	0
57	MG	14	3227	1/1	0.89	0.34	83,83,83,83	0
57	MG	1H	3021	1/1	0.89	0.16	90,90,90,90	0
57	MG	1H	3116	1/1	0.89	0.30	63,63,63,63	0
57	MG	14	3380	1/1	0.89	0.12	93,93,93,93	0
57	MG	14	3416	1/1	0.89	0.07	66,66,66,66	0
57	MG	1G	1637	1/1	0.89	0.20	77,77,77,77	0
57	MG	14	3123	1/1	0.89	0.49	70,70,70,70	0
57	MG	1H	3148	1/1	0.89	0.23	65,65,65,65	0
57	MG	1H	3213	1/1	0.89	0.14	92,92,92,92	0
57	MG	1H	3171	1/1	0.89	0.43	68,68,68,68	0
57	MG	1G	1619	1/1	0.89	0.21	92,92,92,92	0
57	MG	1H	3176	1/1	0.89	0.33	67,67,67,67	0
57	MG	14	3055	1/1	0.89	0.35	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3058	1/1	0.89	0.25	66,66,66,66	0
57	MG	1H	3084	1/1	0.89	0.14	82,82,82,82	0
57	MG	1G	1683	1/1	0.89	0.09	96,96,96,96	0
57	MG	1H	3178	1/1	0.89	0.12	93,93,93,93	0
57	MG	1H	3006	1/1	0.89	0.14	86,86,86,86	0
57	MG	1H	3075	1/1	0.89	0.12	60,60,60,60	0
57	MG	14	3215	1/1	0.89	0.30	64,64,64,64	0
57	MG	78	201	1/1	0.89	0.24	75,75,75,75	0
57	MG	14	3165	1/1	0.89	0.11	78,78,78,78	0
57	MG	14	3102	1/1	0.90	0.20	86,86,86,86	0
57	MG	1G	1635	1/1	0.90	0.45	97,97,97,97	0
57	MG	14	3225	1/1	0.90	0.36	80,80,80,80	0
57	MG	1H	3211	1/1	0.90	0.34	80,80,80,80	0
57	MG	1H	3254	1/1	0.90	0.62	82,82,82,82	0
57	MG	1H	3149	1/1	0.90	0.15	61,61,61,61	0
57	MG	1H	3157	1/1	0.90	0.28	64,64,64,64	0
57	MG	14	3233	1/1	0.90	0.26	79,79,79,79	0
57	MG	1H	3262	1/1	0.90	0.17	68,68,68,68	0
57	MG	1G	1642	1/1	0.90	0.30	82,82,82,82	0
57	MG	1G	1643	1/1	0.90	0.39	67,67,67,67	0
57	MG	16	212	1/1	0.90	0.08	88,88,88,88	0
57	MG	14	3139	1/1	0.90	0.22	58,58,58,58	0
57	MG	14	3142	1/1	0.90	0.31	82,82,82,82	0
57	MG	1H	3376	1/1	0.90	0.06	88,88,88,88	0
57	MG	1H	3159	1/1	0.90	0.37	56,56,56,56	0
57	MG	1G	1666	1/1	0.90	0.05	106,106,106,106	0
57	MG	41	201	1/1	0.90	0.14	75,75,75,75	0
57	MG	14	3149	1/1	0.90	0.29	96,96,96,96	0
57	MG	1G	1686	1/1	0.90	0.07	92,92,92,92	0
57	MG	14	3261	1/1	0.90	0.21	102,102,102,102	0
57	MG	1H	3267	1/1	0.90	0.17	67,67,67,67	0
57	MG	1H	3434	1/1	0.90	0.10	73,73,73,73	0
57	MG	1H	3221	1/1	0.90	0.21	60,60,60,60	0
57	MG	1H	3097	1/1	0.90	0.16	51,51,51,51	0
57	MG	14	3001	1/1	0.90	0.05	103,103,103,103	0
57	MG	1H	3196	1/1	0.90	0.56	88,88,88,88	0
57	MG	14	3271	1/1	0.90	0.45	80,80,80,80	0
57	MG	14	3009	1/1	0.90	0.20	68,68,68,68	0
57	MG	1G	1607	1/1	0.90	0.22	91,91,91,91	0
57	MG	1H	3231	1/1	0.90	0.42	65,65,65,65	0
57	MG	1H	3470	1/1	0.90	0.08	100,100,100,100	0
57	MG	14	3318	1/1	0.90	0.15	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3176	1/1	0.90	0.08	88,88,88,88	0
57	MG	14	3326	1/1	0.90	0.09	74,74,74,74	0
57	MG	14	3330	1/1	0.90	0.06	113,113,113,113	0
57	MG	14	3027	1/1	0.90	0.31	83,83,83,83	0
57	MG	13	1658	1/1	0.90	0.12	88,88,88,88	0
57	MG	14	3182	1/1	0.90	0.57	67,67,67,67	0
57	MG	14	3183	1/1	0.90	0.59	74,74,74,74	0
57	MG	1G	1617	1/1	0.90	0.22	61,61,61,61	0
57	MG	1H	3476	1/1	0.90	0.07	93,93,93,93	0
57	MG	14	3038	1/1	0.90	0.08	76,76,76,76	0
57	MG	14	3424	1/1	0.90	0.05	107,107,107,107	0
57	MG	1H	3484	1/1	0.90	0.07	90,90,90,90	0
57	MG	13	1631	1/1	0.90	0.10	73,73,73,73	0
57	MG	14	3194	1/1	0.90	0.21	68,68,68,68	0
57	MG	1H	3488	1/1	0.90	0.05	113,113,113,113	0
57	MG	1H	3105	1/1	0.90	0.24	79,79,79,79	0
57	MG	14	3448	1/1	0.90	0.06	92,92,92,92	0
57	MG	14	3057	1/1	0.90	0.36	41,41,41,41	0
57	MG	13	1722	1/1	0.90	0.05	92,92,92,92	0
57	MG	1H	3091	1/1	0.90	0.26	57,57,57,57	0
57	MG	1H	3143	1/1	0.90	0.45	89,89,89,89	0
57	MG	1H	3498	1/1	0.90	0.12	85,85,85,85	0
57	MG	13	1612	1/1	0.90	0.26	85,85,85,85	0
57	MG	13	1738	1/1	0.90	0.09	97,97,97,97	0
57	MG	39	302	1/1	0.90	0.10	63,63,63,63	0
57	MG	14	3098	1/1	0.90	0.22	67,67,67,67	0
57	MG	14	3219	1/1	0.90	0.29	64,64,64,64	0
57	MG	14	3221	1/1	0.90	0.51	73,73,73,73	0
57	MG	1H	3265	1/1	0.91	0.12	89,89,89,89	0
57	MG	14	3175	1/1	0.91	0.24	90,90,90,90	0
57	MG	13	1736	1/1	0.91	0.06	95,95,95,95	0
57	MG	14	3178	1/1	0.91	0.09	71,71,71,71	0
57	MG	1H	3189	1/1	0.91	0.31	87,87,87,87	0
57	MG	88	201	1/1	0.91	0.18	82,82,82,82	0
57	MG	14	3086	1/1	0.91	0.22	61,61,61,61	0
57	MG	14	3089	1/1	0.91	0.22	56,56,56,56	0
57	MG	BI	201	1/1	0.91	0.03	103,103,103,103	0
57	MG	1H	3228	1/1	0.91	0.49	69,69,69,69	0
57	MG	13	1672	1/1	0.91	0.11	96,96,96,96	0
57	MG	1H	3230	1/1	0.91	0.37	78,78,78,78	0
57	MG	1H	3109	1/1	0.91	0.33	65,65,65,65	0
57	MG	14	3193	1/1	0.91	0.15	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1G	1610	1/1	0.91	0.13	114,114,114,114	0
57	MG	14	3296	1/1	0.91	0.09	59,59,59,59	0
57	MG	14	3111	1/1	0.91	0.15	79,79,79,79	0
57	MG	1G	1689	1/1	0.91	0.06	126,126,126,126	0
57	MG	14	3200	1/1	0.91	0.21	69,69,69,69	0
57	MG	1H	3482	1/1	0.91	0.06	72,72,72,72	0
57	MG	1H	3110	1/1	0.91	0.15	84,84,84,84	0
57	MG	1H	3112	1/1	0.91	0.39	66,66,66,66	0
57	MG	14	3207	1/1	0.91	0.10	71,71,71,71	0
57	MG	14	3208	1/1	0.91	0.31	75,75,75,75	0
57	MG	13	1662	1/1	0.91	0.21	119,119,119,119	0
57	MG	14	3124	1/1	0.91	0.27	64,64,64,64	0
57	MG	1H	3022	1/1	0.91	0.18	81,81,81,81	0
57	MG	13	1637	1/1	0.91	0.26	86,86,86,86	0
57	MG	1H	3283	1/1	0.91	0.47	82,82,82,82	0
57	MG	1H	3008	1/1	0.91	0.26	57,57,57,57	0
57	MG	14	3015	1/1	0.91	0.27	77,77,77,77	0
57	MG	14	3425	1/1	0.91	0.06	122,122,122,122	0
57	MG	14	3222	1/1	0.91	0.41	64,64,64,64	0
57	MG	14	3428	1/1	0.91	0.09	104,104,104,104	0
57	MG	1H	3090	1/1	0.91	0.48	57,57,57,57	0
57	MG	14	3436	1/1	0.91	0.07	108,108,108,108	0
57	MG	14	3017	1/1	0.91	0.23	97,97,97,97	0
57	MG	14	3442	1/1	0.91	0.07	95,95,95,95	0
57	MG	14	3024	1/1	0.91	0.26	58,58,58,58	0
57	MG	1H	3010	1/1	0.91	0.47	59,59,59,59	0
57	MG	1H	3053	1/1	0.91	0.47	56,56,56,56	0
57	MG	14	3452	1/1	0.91	0.09	113,113,113,113	0
57	MG	13	1664	1/1	0.91	0.30	81,81,81,81	0
57	MG	1H	3290	1/1	0.91	0.23	62,62,62,62	0
57	MG	1H	3126	1/1	0.91	0.45	70,70,70,70	0
57	MG	14	3234	1/1	0.91	0.16	64,64,64,64	0
57	MG	1H	3334	1/1	0.91	0.10	82,82,82,82	0
57	MG	14	3045	1/1	0.91	0.23	64,64,64,64	0
57	MG	1H	3371	1/1	0.91	0.05	85,85,85,85	0
57	MG	14	3239	1/1	0.91	0.36	87,87,87,87	0
57	MG	1H	3057	1/1	0.91	0.40	53,53,53,53	0
57	MG	13	1750	1/1	0.91	0.18	76,76,76,76	0
57	MG	45	202	1/1	0.91	0.10	102,102,102,102	0
57	MG	13	1652	1/1	0.91	0.48	89,89,89,89	0
57	MG	E5	101	1/1	0.91	0.43	72,72,72,72	0
57	MG	M5	101	1/1	0.91	0.17	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3315	1/1	0.92	0.05	81,81,81,81	0
57	MG	1H	3222	1/1	0.92	0.11	68,68,68,68	0
57	MG	1H	3481	1/1	0.92	0.06	92,92,92,92	0
57	MG	1H	3258	1/1	0.92	0.21	79,79,79,79	0
57	MG	14	3228	1/1	0.92	0.15	81,81,81,81	0
57	MG	14	3351	1/1	0.92	0.06	72,72,72,72	0
57	MG	1H	3140	1/1	0.92	0.22	62,62,62,62	0
57	MG	14	3181	1/1	0.92	0.20	63,63,63,63	0
57	MG	13	1678	1/1	0.92	0.21	83,83,83,83	0
57	MG	13	1724	1/1	0.92	0.08	114,114,114,114	0
57	MG	14	3383	1/1	0.92	0.07	101,101,101,101	0
57	MG	14	3400	1/1	0.92	0.06	86,86,86,86	0
57	MG	14	3407	1/1	0.92	0.10	74,74,74,74	0
57	MG	1H	3181	1/1	0.92	0.53	77,77,77,77	0
57	MG	14	3033	1/1	0.92	0.14	74,74,74,74	0
57	MG	14	3422	1/1	0.92	0.09	84,84,84,84	0
57	MG	1H	3182	1/1	0.92	0.44	72,72,72,72	0
57	MG	1H	3206	1/1	0.92	0.21	56,56,56,56	0
57	MG	1G	1653	1/1	0.92	0.08	110,110,110,110	0
57	MG	1H	3236	1/1	0.92	0.32	75,75,75,75	0
57	MG	1H	3035	1/1	0.92	0.24	57,57,57,57	0
57	MG	14	3429	1/1	0.92	0.05	98,98,98,98	0
57	MG	14	3195	1/1	0.92	0.23	105,105,105,105	0
57	MG	13	1704	1/1	0.92	0.13	105,105,105,105	0
57	MG	14	3255	1/1	0.92	0.13	87,87,87,87	0
57	MG	1G	1668	1/1	0.92	0.07	111,111,111,111	0
57	MG	1G	1674	1/1	0.92	0.06	107,107,107,107	0
57	MG	1G	1679	1/1	0.92	0.05	91,91,91,91	0
57	MG	16	201	1/1	0.92	0.17	87,87,87,87	0
57	MG	1H	3096	1/1	0.92	0.15	67,67,67,67	0
57	MG	14	3263	1/1	0.92	0.44	80,80,80,80	0
57	MG	13	1686	1/1	0.92	0.21	96,96,96,96	0
57	MG	1H	3162	1/1	0.92	0.15	61,61,61,61	0
57	MG	14	3158	1/1	0.92	0.12	70,70,70,70	0
57	MG	1H	3245	1/1	0.92	0.57	69,69,69,69	0
57	MG	1H	3170	1/1	0.92	0.73	72,72,72,72	0
57	MG	1H	3459	1/1	0.92	0.10	91,91,91,91	0
57	MG	14	3270	1/1	0.92	0.28	83,83,83,83	0
57	MG	1H	3052	1/1	0.92	0.32	57,57,57,57	0
57	MG	1H	3467	1/1	0.92	0.08	77,77,77,77	0
57	MG	14	3169	1/1	0.92	0.18	65,65,65,65	0
57	MG	1H	3174	1/1	0.92	0.28	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3105	1/1	0.92	0.26	55,55,55,55	0
57	MG	1H	3101	1/1	0.92	0.18	58,58,58,58	0
57	MG	1H	3168	1/1	0.93	0.27	80,80,80,80	0
57	MG	14	3184	1/1	0.93	0.33	60,60,60,60	0
57	MG	1H	3046	1/1	0.93	0.56	73,73,73,73	0
57	MG	1G	1670	1/1	0.93	0.08	108,108,108,108	0
57	MG	13	1671	1/1	0.93	0.32	71,71,71,71	0
57	MG	1G	1678	1/1	0.93	0.03	115,115,115,115	0
57	MG	1H	3123	1/1	0.93	0.21	71,71,71,71	0
57	MG	14	3104	1/1	0.93	0.36	81,81,81,81	0
57	MG	1H	3215	1/1	0.93	0.27	65,65,65,65	0
57	MG	14	3280	1/1	0.93	0.12	54,54,54,54	0
57	MG	1H	3218	1/1	0.93	0.74	70,70,70,70	0
57	MG	1H	3248	1/1	0.93	0.14	79,79,79,79	0
57	MG	14	3110	1/1	0.93	0.18	86,86,86,86	0
57	MG	1H	3065	1/1	0.93	0.17	56,56,56,56	0
57	MG	14	3112	1/1	0.93	0.37	88,88,88,88	0
57	MG	1H	3480	1/1	0.93	0.08	78,78,78,78	0
57	MG	13	1621	1/1	0.93	0.23	67,67,67,67	0
57	MG	2L	102	1/1	0.93	0.36	96,96,96,96	0
57	MG	1H	3099	1/1	0.93	0.13	60,60,60,60	0
57	MG	14	3210	1/1	0.93	0.34	80,80,80,80	0
57	MG	13	1630	1/1	0.93	0.28	92,92,92,92	0
57	MG	14	3004	1/1	0.93	0.88	77,77,77,77	0
57	MG	14	3370	1/1	0.93	0.08	81,81,81,81	0
57	MG	1H	3130	1/1	0.93	0.23	67,67,67,67	0
57	MG	14	3007	1/1	0.93	0.29	50,50,50,50	0
57	MG	1H	3288	1/1	0.93	0.38	80,80,80,80	0
57	MG	14	3387	1/1	0.93	0.05	97,97,97,97	0
57	MG	1H	3073	1/1	0.93	0.20	36,36,36,36	0
57	MG	14	3220	1/1	0.93	0.53	88,88,88,88	0
57	MG	1G	1622	1/1	0.93	0.35	76,76,76,76	0
57	MG	1H	3203	1/1	0.93	0.28	64,64,64,64	0
57	MG	13	1714	1/1	0.93	0.10	93,93,93,93	0
57	MG	1H	3325	1/1	0.93	0.11	69,69,69,69	0
57	MG	1H	3266	1/1	0.93	0.15	75,75,75,75	0
57	MG	14	3150	1/1	0.93	0.46	68,68,68,68	0
57	MG	14	3151	1/1	0.93	0.23	72,72,72,72	0
57	MG	1H	3500	1/1	0.93	0.06	71,71,71,71	0
57	MG	1H	3185	1/1	0.93	0.36	90,90,90,90	0
57	MG	14	3434	1/1	0.93	0.06	82,82,82,82	0
57	MG	14	3230	1/1	0.93	0.23	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3235	1/1	0.93	0.14	65,65,65,65	0
57	MG	14	3439	1/1	0.93	0.06	96,96,96,96	0
57	MG	16	202	1/1	0.93	0.28	73,73,73,73	0
57	MG	1H	3380	1/1	0.93	0.14	55,55,55,55	0
57	MG	14	3235	1/1	0.93	0.50	69,69,69,69	0
57	MG	1H	3385	1/1	0.93	0.08	57,57,57,57	0
57	MG	1H	3395	1/1	0.93	0.11	59,59,59,59	0
57	MG	1H	3076	1/1	0.93	0.25	76,76,76,76	0
57	MG	14	3049	1/1	0.93	0.27	63,63,63,63	0
57	MG	14	3240	1/1	0.93	0.30	85,85,85,85	0
57	MG	14	3166	1/1	0.93	0.24	61,61,61,61	0
57	MG	1H	3187	1/1	0.93	0.08	88,88,88,88	0
57	MG	1H	3431	1/1	0.93	0.16	52,52,52,52	0
57	MG	1H	3163	1/1	0.93	0.28	59,59,59,59	0
57	MG	1H	3435	1/1	0.93	0.05	94,94,94,94	0
57	MG	1G	1648	1/1	0.93	0.23	86,86,86,86	0
57	MG	1H	3438	1/1	0.93	0.05	75,75,75,75	0
57	MG	14	3067	1/1	0.93	0.34	68,68,68,68	0
57	MG	1H	3274	1/1	0.93	0.29	70,70,70,70	0
57	MG	14	3074	1/1	0.93	0.27	62,62,62,62	0
57	MG	C5	201	1/1	0.93	0.04	110,110,110,110	0
57	MG	1H	3451	1/1	0.93	0.04	95,95,95,95	0
57	MG	14	3082	1/1	0.93	0.40	55,55,55,55	0
57	MG	14	3088	1/1	0.94	0.29	65,65,65,65	0
57	MG	1G	1634	1/1	0.94	0.18	93,93,93,93	0
57	MG	14	3090	1/1	0.94	0.13	60,60,60,60	0
57	MG	14	3095	1/1	0.94	0.22	85,85,85,85	0
57	MG	13	1669	1/1	0.94	0.46	74,74,74,74	0
57	MG	1H	3472	1/1	0.94	0.07	93,93,93,93	0
57	MG	13	1651	1/1	0.94	0.21	68,68,68,68	0
57	MG	1H	3478	1/1	0.94	0.06	85,85,85,85	0
57	MG	1H	3224	1/1	0.94	0.28	63,63,63,63	0
57	MG	1G	1640	1/1	0.94	0.18	100,100,100,100	0
57	MG	14	3106	1/1	0.94	0.49	82,82,82,82	0
57	MG	1H	3225	1/1	0.94	0.40	67,67,67,67	0
57	MG	13	1719	1/1	0.94	0.15	72,72,72,72	0
57	MG	1H	3483	1/1	0.94	0.05	106,106,106,106	0
57	MG	1G	1644	1/1	0.94	0.35	67,67,67,67	0
57	MG	1H	3227	1/1	0.94	0.11	70,70,70,70	0
57	MG	1G	1647	1/1	0.94	0.25	115,115,115,115	0
57	MG	13	1680	1/1	0.94	0.36	75,75,75,75	0
57	MG	1G	1649	1/1	0.94	0.12	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3048	1/1	0.94	0.06	80,80,80,80	0
57	MG	14	3245	1/1	0.94	0.36	79,79,79,79	0
57	MG	1H	3049	1/1	0.94	0.28	68,68,68,68	0
57	MG	14	3253	1/1	0.94	0.18	63,63,63,63	0
57	MG	14	3254	1/1	0.94	0.21	81,81,81,81	0
57	MG	2K	102	1/1	0.94	0.06	92,92,92,92	0
57	MG	14	3128	1/1	0.94	0.12	60,60,60,60	0
57	MG	1G	1665	1/1	0.94	0.13	97,97,97,97	0
57	MG	14	3131	1/1	0.94	0.22	78,78,78,78	0
57	MG	14	3132	1/1	0.94	0.17	58,58,58,58	0
57	MG	14	3134	1/1	0.94	0.26	98,98,98,98	0
57	MG	13	1640	1/1	0.94	0.24	71,71,71,71	0
57	MG	14	3136	1/1	0.94	0.37	59,59,59,59	0
57	MG	1G	1667	1/1	0.94	0.06	100,100,100,100	0
57	MG	1H	3135	1/1	0.94	0.34	81,81,81,81	0
57	MG	13	1733	1/1	0.94	0.06	73,73,73,73	0
57	MG	1G	1671	1/1	0.94	0.07	117,117,117,117	0
57	MG	1H	3191	1/1	0.94	0.13	95,95,95,95	0
57	MG	1H	3055	1/1	0.94	0.33	72,72,72,72	0
57	MG	13	1734	1/1	0.94	0.06	86,86,86,86	0
57	MG	1H	3104	1/1	0.94	0.20	62,62,62,62	0
57	MG	1H	3323	1/1	0.94	0.06	61,61,61,61	0
57	MG	1G	1687	1/1	0.94	0.06	95,95,95,95	0
57	MG	1H	3142	1/1	0.94	0.52	85,85,85,85	0
57	MG	1H	3326	1/1	0.94	0.07	49,49,49,49	0
57	MG	14	3309	1/1	0.94	0.14	73,73,73,73	0
57	MG	1G	1690	1/1	0.94	0.07	118,118,118,118	0
57	MG	1H	3058	1/1	0.94	0.28	53,53,53,53	0
57	MG	14	3159	1/1	0.94	0.18	71,71,71,71	0
57	MG	14	3319	1/1	0.94	0.11	91,91,91,91	0
57	MG	14	3321	1/1	0.94	0.06	89,89,89,89	0
57	MG	1H	3337	1/1	0.94	0.07	73,73,73,73	0
57	MG	14	3325	1/1	0.94	0.05	78,78,78,78	0
57	MG	1H	3360	1/1	0.94	0.09	60,60,60,60	0
57	MG	1H	3366	1/1	0.94	0.08	65,65,65,65	0
57	MG	2L	104	1/1	0.94	0.40	72,72,72,72	0
57	MG	1H	3369	1/1	0.94	0.16	74,74,74,74	0
57	MG	21	301	1/1	0.94	0.36	66,66,66,66	0
57	MG	21	302	1/1	0.94	0.32	50,50,50,50	0
57	MG	14	3372	1/1	0.94	0.09	73,73,73,73	0
57	MG	13	1619	1/1	0.94	0.12	90,90,90,90	0
57	MG	1H	3372	1/1	0.94	0.07	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3174	1/1	0.94	0.16	71,71,71,71	0
57	MG	1H	3062	1/1	0.94	0.42	66,66,66,66	0
57	MG	14	3390	1/1	0.94	0.06	82,82,82,82	0
57	MG	13	1617	1/1	0.94	0.23	53,53,53,53	0
57	MG	14	3405	1/1	0.94	0.04	83,83,83,83	0
57	MG	14	3406	1/1	0.94	0.15	76,76,76,76	0
57	MG	1H	3202	1/1	0.94	0.39	58,58,58,58	0
57	MG	1H	3386	1/1	0.94	0.06	84,84,84,84	0
57	MG	1H	3393	1/1	0.94	0.09	56,56,56,56	0
57	MG	1G	1601	1/1	0.94	0.46	86,86,86,86	0
57	MG	1H	3252	1/1	0.94	0.32	80,80,80,80	0
57	MG	14	3030	1/1	0.94	0.22	68,68,68,68	0
57	MG	1G	1606	1/1	0.94	0.27	67,67,67,67	0
57	MG	1H	3397	1/1	0.94	0.07	85,85,85,85	0
57	MG	14	3034	1/1	0.94	0.36	57,57,57,57	0
57	MG	1H	3403	1/1	0.94	0.18	89,89,89,89	0
57	MG	1H	3154	1/1	0.94	0.18	75,75,75,75	0
57	MG	13	1737	1/1	0.94	0.10	147,147,147,147	0
57	MG	14	3043	1/1	0.94	0.27	75,75,75,75	0
57	MG	14	3438	1/1	0.94	0.07	93,93,93,93	0
57	MG	1G	1614	1/1	0.94	0.27	99,99,99,99	0
57	MG	1H	3111	1/1	0.94	0.31	80,80,80,80	0
57	MG	14	3048	1/1	0.94	0.75	75,75,75,75	0
57	MG	1H	3068	1/1	0.94	0.61	69,69,69,69	0
57	MG	14	3052	1/1	0.94	0.32	62,62,62,62	0
57	MG	14	3446	1/1	0.94	0.04	109,109,109,109	0
57	MG	13	1688	1/1	0.94	0.25	90,90,90,90	0
57	MG	14	3449	1/1	0.94	0.09	95,95,95,95	0
57	MG	1H	3436	1/1	0.94	0.10	65,65,65,65	0
57	MG	1H	3165	1/1	0.94	0.32	72,72,72,72	0
57	MG	14	3056	1/1	0.94	0.67	82,82,82,82	0
57	MG	1H	3017	1/1	0.94	0.18	55,55,55,55	0
57	MG	1J	205	1/1	0.94	0.05	95,95,95,95	0
57	MG	1H	3450	1/1	0.94	0.04	87,87,87,87	0
57	MG	13	1676	1/1	0.94	0.26	101,101,101,101	0
57	MG	13	1616	1/1	0.94	0.31	48,48,48,48	0
57	MG	14	3068	1/1	0.94	0.32	67,67,67,67	0
57	MG	13	1742	1/1	0.94	0.08	100,100,100,100	0
57	MG	14	3071	1/1	0.94	0.15	73,73,73,73	0
57	MG	14	3217	1/1	0.94	0.30	76,76,76,76	0
57	MG	1H	3270	1/1	0.94	0.10	71,71,71,71	0
57	MG	13	1744	1/1	0.94	0.16	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3076	1/1	0.94	0.20	77,77,77,77	0
57	MG	13	1708	1/1	0.94	0.07	76,76,76,76	0
57	MG	13	1710	1/1	0.94	0.12	108,108,108,108	0
57	MG	1H	3141	1/1	0.95	0.21	67,67,67,67	0
57	MG	1H	3033	1/1	0.95	0.26	62,62,62,62	0
57	MG	14	3039	1/1	0.95	0.19	73,73,73,73	0
57	MG	14	3041	1/1	0.95	0.20	64,64,64,64	0
57	MG	1G	1632	1/1	0.95	0.15	132,132,132,132	0
57	MG	14	3262	1/1	0.95	0.14	72,72,72,72	0
57	MG	1H	3067	1/1	0.95	0.33	52,52,52,52	0
57	MG	1H	3197	1/1	0.95	0.34	67,67,67,67	0
57	MG	1H	3106	1/1	0.95	0.43	74,74,74,74	0
57	MG	1H	3004	1/1	0.95	0.23	54,54,54,54	0
57	MG	13	1609	1/1	0.95	0.25	58,58,58,58	0
57	MG	14	3170	1/1	0.95	0.31	86,86,86,86	0
57	MG	1H	3348	1/1	0.95	0.11	65,65,65,65	0
57	MG	1H	3359	1/1	0.95	0.12	52,52,52,52	0
57	MG	1H	3201	1/1	0.95	0.37	65,65,65,65	0
57	MG	1H	3251	1/1	0.95	0.22	78,78,78,78	0
57	MG	1H	3072	1/1	0.95	0.69	73,73,73,73	0
57	MG	14	3177	1/1	0.95	0.35	79,79,79,79	0
57	MG	1H	3156	1/1	0.95	0.33	61,61,61,61	0
57	MG	1H	3037	1/1	0.95	0.17	55,55,55,55	0
57	MG	1H	3374	1/1	0.95	0.07	55,55,55,55	0
57	MG	1H	3038	1/1	0.95	0.23	53,53,53,53	0
57	MG	14	3311	1/1	0.95	0.07	66,66,66,66	0
57	MG	14	3312	1/1	0.95	0.06	77,77,77,77	0
57	MG	14	3313	1/1	0.95	0.07	72,72,72,72	0
57	MG	1H	3042	1/1	0.95	0.17	79,79,79,79	0
57	MG	14	3316	1/1	0.95	0.07	102,102,102,102	0
57	MG	1H	3260	1/1	0.95	0.25	65,65,65,65	0
57	MG	1H	3045	1/1	0.95	0.29	54,54,54,54	0
57	MG	1H	3078	1/1	0.95	0.35	60,60,60,60	0
57	MG	1H	3080	1/1	0.95	0.72	82,82,82,82	0
57	MG	14	3081	1/1	0.95	0.74	74,74,74,74	0
57	MG	1G	1663	1/1	0.95	0.07	87,87,87,87	0
57	MG	14	3328	1/1	0.95	0.07	93,93,93,93	0
57	MG	16	210	1/1	0.95	0.09	88,88,88,88	0
57	MG	14	3336	1/1	0.95	0.05	83,83,83,83	0
57	MG	14	3338	1/1	0.95	0.06	72,72,72,72	0
57	MG	1H	3082	1/1	0.95	0.23	49,49,49,49	0
57	MG	14	3353	1/1	0.95	0.10	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3400	1/1	0.95	0.21	67,67,67,67	0
57	MG	14	3365	1/1	0.95	0.09	88,88,88,88	0
57	MG	13	1712	1/1	0.95	0.08	75,75,75,75	0
57	MG	14	3091	1/1	0.95	0.23	85,85,85,85	0
57	MG	14	3371	1/1	0.95	0.05	83,83,83,83	0
57	MG	1H	3409	1/1	0.95	0.08	69,69,69,69	0
57	MG	1H	3173	1/1	0.95	0.15	63,63,63,63	0
57	MG	14	3378	1/1	0.95	0.04	93,93,93,93	0
57	MG	1H	3427	1/1	0.95	0.04	88,88,88,88	0
57	MG	1G	1675	1/1	0.95	0.07	88,88,88,88	0
57	MG	14	3099	1/1	0.95	0.17	57,57,57,57	0
57	MG	1G	1677	1/1	0.95	0.05	105,105,105,105	0
57	MG	13	1632	1/1	0.95	0.13	77,77,77,77	0
57	MG	14	3403	1/1	0.95	0.08	76,76,76,76	0
57	MG	14	3209	1/1	0.95	0.79	64,64,64,64	0
57	MG	13	1687	1/1	0.95	0.23	70,70,70,70	0
57	MG	1H	3433	1/1	0.95	0.11	86,86,86,86	0
57	MG	14	3408	1/1	0.95	0.08	78,78,78,78	0
57	MG	14	3412	1/1	0.95	0.04	120,120,120,120	0
57	MG	1G	1684	1/1	0.95	0.08	121,121,121,121	0
57	MG	13	1673	1/1	0.95	0.14	90,90,90,90	0
57	MG	1H	3124	1/1	0.95	0.24	74,74,74,74	0
57	MG	1H	3179	1/1	0.95	0.25	49,49,49,49	0
57	MG	1H	3088	1/1	0.95	0.34	53,53,53,53	0
57	MG	13	1743	1/1	0.95	0.05	87,87,87,87	0
57	MG	14	3114	1/1	0.95	0.39	63,63,63,63	0
57	MG	14	3115	1/1	0.95	0.39	71,71,71,71	0
57	MG	1G	1605	1/1	0.95	0.29	92,92,92,92	0
57	MG	14	3431	1/1	0.95	0.06	90,90,90,90	0
57	MG	14	3118	1/1	0.95	0.30	66,66,66,66	0
57	MG	1G	1694	1/1	0.95	0.48	98,98,98,98	0
57	MG	1H	3442	1/1	0.95	0.11	86,86,86,86	0
57	MG	2L	101	1/1	0.95	0.36	70,70,70,70	0
57	MG	1H	3448	1/1	0.95	0.09	62,62,62,62	0
57	MG	1G	1608	1/1	0.95	0.23	91,91,91,91	0
57	MG	13	1721	1/1	0.95	0.07	70,70,70,70	0
57	MG	13	1657	1/1	0.95	0.43	73,73,73,73	0
57	MG	14	3231	1/1	0.95	0.44	76,76,76,76	0
57	MG	1G	1611	1/1	0.95	0.39	74,74,74,74	0
57	MG	1G	1612	1/1	0.95	0.34	67,67,67,67	0
57	MG	13	1692	1/1	0.95	0.07	81,81,81,81	0
57	MG	1H	3454	1/1	0.95	0.08	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3138	1/1	0.95	0.08	68,68,68,68	0
57	MG	1G	1615	1/1	0.95	0.20	92,92,92,92	0
57	MG	1H	3095	1/1	0.95	0.36	65,65,65,65	0
57	MG	1H	3457	1/1	0.95	0.10	82,82,82,82	0
57	MG	1J	206	1/1	0.95	0.05	94,94,94,94	0
57	MG	13	1729	1/1	0.95	0.05	91,91,91,91	0
57	MG	1H	3463	1/1	0.95	0.07	82,82,82,82	0
57	MG	13	1698	1/1	0.95	0.04	93,93,93,93	0
57	MG	1H	3232	1/1	0.95	0.31	65,65,65,65	0
57	MG	13	1699	1/1	0.95	0.06	73,73,73,73	0
57	MG	1H	3061	1/1	0.95	0.29	68,68,68,68	0
57	MG	13	1681	1/1	0.95	0.40	86,86,86,86	0
57	MG	45	201	1/1	0.95	0.15	72,72,72,72	0
57	MG	14	3251	1/1	0.95	0.23	82,82,82,82	0
57	MG	1H	3102	1/1	0.95	0.46	70,70,70,70	0
57	MG	13	1624	1/1	0.95	0.12	81,81,81,81	0
57	MG	14	3156	1/1	0.95	0.41	75,75,75,75	0
57	MG	14	3256	1/1	0.95	0.12	91,91,91,91	0
57	MG	14	3026	1/1	0.96	0.32	72,72,72,72	0
57	MG	1H	3146	1/1	0.96	0.25	51,51,51,51	0
57	MG	1H	3147	1/1	0.96	0.16	51,51,51,51	0
57	MG	1H	3240	1/1	0.96	0.25	72,72,72,72	0
57	MG	13	1627	1/1	0.96	0.29	64,64,64,64	0
57	MG	13	1696	1/1	0.96	0.03	86,86,86,86	0
57	MG	1H	3458	1/1	0.96	0.11	87,87,87,87	0
57	MG	13	1605	1/1	0.96	0.31	68,68,68,68	0
57	MG	1H	3301	1/1	0.96	0.15	49,49,49,49	0
57	MG	1H	3313	1/1	0.96	0.11	72,72,72,72	0
57	MG	14	3276	1/1	0.96	0.11	62,62,62,62	0
57	MG	1H	3315	1/1	0.96	0.10	73,73,73,73	0
57	MG	1H	3316	1/1	0.96	0.14	63,63,63,63	0
57	MG	1G	1630	1/1	0.96	0.22	113,113,113,113	0
57	MG	1H	3322	1/1	0.96	0.04	82,82,82,82	0
57	MG	14	3172	1/1	0.96	0.19	63,63,63,63	0
57	MG	13	1751	1/1	0.96	0.14	87,87,87,87	0
57	MG	1H	3474	1/1	0.96	0.09	89,89,89,89	0
57	MG	13	1641	1/1	0.96	0.43	69,69,69,69	0
57	MG	1H	3158	1/1	0.96	0.58	68,68,68,68	0
57	MG	1H	3479	1/1	0.96	0.04	89,89,89,89	0
57	MG	13	1730	1/1	0.96	0.15	82,82,82,82	0
57	MG	14	3317	1/1	0.96	0.09	59,59,59,59	0
57	MG	1H	3335	1/1	0.96	0.09	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3161	1/1	0.96	0.29	72,72,72,72	0
57	MG	1H	3345	1/1	0.96	0.15	56,56,56,56	0
57	MG	14	3062	1/1	0.96	0.25	85,85,85,85	0
57	MG	13	1701	1/1	0.96	0.07	70,70,70,70	0
57	MG	1H	3485	1/1	0.96	0.05	76,76,76,76	0
57	MG	13	1633	1/1	0.96	0.13	85,85,85,85	0
57	MG	14	3186	1/1	0.96	0.24	84,84,84,84	0
57	MG	1H	3164	1/1	0.96	0.22	47,47,47,47	0
57	MG	1G	1645	1/1	0.96	0.55	88,88,88,88	0
57	MG	14	3344	1/1	0.96	0.09	72,72,72,72	0
57	MG	14	3348	1/1	0.96	0.05	88,88,88,88	0
57	MG	1H	3363	1/1	0.96	0.09	61,61,61,61	0
57	MG	13	1685	1/1	0.96	0.12	101,101,101,101	0
57	MG	14	3354	1/1	0.96	0.15	78,78,78,78	0
57	MG	1H	3166	1/1	0.96	0.12	70,70,70,70	0
57	MG	14	3361	1/1	0.96	0.09	69,69,69,69	0
57	MG	1H	3034	1/1	0.96	0.19	54,54,54,54	0
57	MG	1G	1650	1/1	0.96	0.21	87,87,87,87	0
57	MG	1H	3003	1/1	0.96	0.19	57,57,57,57	0
57	MG	1H	3127	1/1	0.96	0.34	56,56,56,56	0
57	MG	13	1629	1/1	0.96	0.29	98,98,98,98	0
57	MG	1H	3377	1/1	0.96	0.11	76,76,76,76	0
57	MG	14	3203	1/1	0.96	0.18	89,89,89,89	0
57	MG	1H	3378	1/1	0.96	0.06	84,84,84,84	0
57	MG	14	3205	1/1	0.96	0.17	77,77,77,77	0
57	MG	14	3092	1/1	0.96	0.27	56,56,56,56	0
57	MG	14	3388	1/1	0.96	0.07	82,82,82,82	0
57	MG	14	3094	1/1	0.96	0.28	85,85,85,85	0
57	MG	14	3391	1/1	0.96	0.09	86,86,86,86	0
57	MG	1H	3379	1/1	0.96	0.11	86,86,86,86	0
57	MG	14	3402	1/1	0.96	0.08	88,88,88,88	0
57	MG	1H	3100	1/1	0.96	0.19	44,44,44,44	0
57	MG	1H	3264	1/1	0.96	0.18	74,74,74,74	0
57	MG	1G	1669	1/1	0.96	0.08	114,114,114,114	0
57	MG	1H	3175	1/1	0.96	0.31	65,65,65,65	0
57	MG	14	3100	1/1	0.96	0.32	43,43,43,43	0
57	MG	14	3411	1/1	0.96	0.05	74,74,74,74	0
57	MG	14	3101	1/1	0.96	0.47	64,64,64,64	0
57	MG	1H	3214	1/1	0.96	0.43	92,92,92,92	0
57	MG	16	209	1/1	0.96	0.10	73,73,73,73	0
57	MG	1H	3005	1/1	0.96	0.34	74,74,74,74	0
57	MG	13	1711	1/1	0.96	0.05	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3132	1/1	0.96	0.23	75,75,75,75	0
57	MG	1H	3040	1/1	0.96	0.15	60,60,60,60	0
57	MG	14	3426	1/1	0.96	0.04	80,80,80,80	0
57	MG	1G	1682	1/1	0.96	0.10	127,127,127,127	0
57	MG	1H	3406	1/1	0.96	0.05	87,87,87,87	0
57	MG	1H	3074	1/1	0.96	0.21	48,48,48,48	0
57	MG	14	3430	1/1	0.96	0.04	90,90,90,90	0
57	MG	1H	3410	1/1	0.96	0.10	56,56,56,56	0
57	MG	3I	301	1/1	0.96	0.06	61,61,61,61	0
57	MG	13	1613	1/1	0.96	0.28	65,65,65,65	0
57	MG	1H	3418	1/1	0.96	0.05	69,69,69,69	0
57	MG	14	3117	1/1	0.96	0.36	66,66,66,66	0
57	MG	1H	3421	1/1	0.96	0.05	78,78,78,78	0
57	MG	1H	3422	1/1	0.96	0.07	79,79,79,79	0
57	MG	1G	1693	1/1	0.96	0.09	92,92,92,92	0
57	MG	1H	3425	1/1	0.96	0.07	83,83,83,83	0
57	MG	1H	3044	1/1	0.96	0.28	62,62,62,62	0
57	MG	Q8	101	1/1	0.96	0.15	73,73,73,73	0
57	MG	14	3447	1/1	0.96	0.06	101,101,101,101	0
57	MG	1H	3137	1/1	0.96	0.09	72,72,72,72	0
57	MG	14	3130	1/1	0.96	0.32	71,71,71,71	0
57	MG	1H	3276	1/1	0.96	0.12	98,98,98,98	0
57	MG	1H	3184	1/1	0.96	0.41	67,67,67,67	0
57	MG	13	1653	1/1	0.96	0.15	66,66,66,66	0
57	MG	1J	202	1/1	0.96	0.22	94,94,94,94	0
57	MG	14	3003	1/1	0.96	0.19	65,65,65,65	0
57	MG	13	1654	1/1	0.96	0.32	75,75,75,75	0
57	MG	13	1691	1/1	0.96	0.12	79,79,79,79	0
57	MG	1H	3012	1/1	0.96	0.41	42,42,42,42	0
57	MG	1H	3013	1/1	0.96	0.34	60,60,60,60	0
57	MG	1H	3440	1/1	0.96	0.04	87,87,87,87	0
57	MG	14	3011	1/1	0.96	0.47	72,72,72,72	0
57	MG	14	3145	1/1	0.96	0.44	74,74,74,74	0
57	MG	14	3012	1/1	0.96	0.20	68,68,68,68	0
57	MG	13	1720	1/1	0.96	0.07	86,86,86,86	0
57	MG	14	3148	1/1	0.96	0.37	69,69,69,69	0
57	MG	14	3014	1/1	0.96	0.17	72,72,72,72	0
57	MG	45	203	1/1	0.96	0.48	71,71,71,71	0
57	MG	1H	3444	1/1	0.96	0.07	77,77,77,77	0
57	MG	1H	3447	1/1	0.96	0.12	97,97,97,97	0
57	MG	1H	3234	1/1	0.96	0.19	72,72,72,72	0
57	MG	1H	3113	1/1	0.96	0.36	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	PAR	13	1749	42/42	0.96	0.20	64,70,78,81	0
58	PAR	1G	1691	42/42	0.96	0.16	70,82,88,95	0
60	ZN	C5	202	1/1	0.96	0.15	169,169,169,169	0
57	MG	1H	3432	1/1	0.97	0.09	75,75,75,75	0
57	MG	13	1638	1/1	0.97	0.46	58,58,58,58	0
57	MG	1H	3250	1/1	0.97	0.19	67,67,67,67	0
57	MG	14	3006	1/1	0.97	0.24	66,66,66,66	0
57	MG	1H	3321	1/1	0.97	0.09	77,77,77,77	0
57	MG	14	3141	1/1	0.97	0.36	50,50,50,50	0
57	MG	14	3008	1/1	0.97	0.11	72,72,72,72	0
57	MG	1H	3028	1/1	0.97	0.26	51,51,51,51	0
57	MG	1H	3437	1/1	0.97	0.04	57,57,57,57	0
57	MG	13	1731	1/1	0.97	0.05	86,86,86,86	0
57	MG	1H	3253	1/1	0.97	0.69	76,76,76,76	0
57	MG	13	1707	1/1	0.97	0.04	90,90,90,90	0
57	MG	1H	3441	1/1	0.97	0.10	94,94,94,94	0
57	MG	1H	3330	1/1	0.97	0.12	57,57,57,57	0
57	MG	1H	3333	1/1	0.97	0.16	75,75,75,75	0
57	MG	13	1639	1/1	0.97	0.10	84,84,84,84	0
57	MG	14	3279	1/1	0.97	0.09	62,62,62,62	0
57	MG	14	3018	1/1	0.97	0.26	49,49,49,49	0
57	MG	14	3021	1/1	0.97	0.32	53,53,53,53	0
57	MG	14	3022	1/1	0.97	0.41	60,60,60,60	0
57	MG	14	3304	1/1	0.97	0.07	59,59,59,59	0
57	MG	1H	3001	1/1	0.97	0.16	53,53,53,53	0
57	MG	14	3025	1/1	0.97	0.19	58,58,58,58	0
57	MG	1H	3070	1/1	0.97	0.29	45,45,45,45	0
57	MG	1H	3340	1/1	0.97	0.11	54,54,54,54	0
57	MG	14	3161	1/1	0.97	0.30	73,73,73,73	0
57	MG	1H	3344	1/1	0.97	0.08	49,49,49,49	0
57	MG	14	3314	1/1	0.97	0.06	75,75,75,75	0
57	MG	1H	3453	1/1	0.97	0.04	83,83,83,83	0
57	MG	14	3032	1/1	0.97	0.18	47,47,47,47	0
57	MG	13	1615	1/1	0.97	0.24	91,91,91,91	0
57	MG	1H	3347	1/1	0.97	0.10	69,69,69,69	0
57	MG	14	3167	1/1	0.97	0.14	65,65,65,65	0
57	MG	14	3320	1/1	0.97	0.09	83,83,83,83	0
57	MG	14	3035	1/1	0.97	0.39	83,83,83,83	0
57	MG	14	3323	1/1	0.97	0.08	72,72,72,72	0
57	MG	13	1608	1/1	0.97	0.23	75,75,75,75	0
57	MG	1H	3350	1/1	0.97	0.12	69,69,69,69	0
57	MG	1H	3352	1/1	0.97	0.15	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3461	1/1	0.97	0.05	85,85,85,85	0
57	MG	14	3329	1/1	0.97	0.06	90,90,90,90	0
57	MG	1H	3354	1/1	0.97	0.10	62,62,62,62	0
57	MG	1H	3464	1/1	0.97	0.08	62,62,62,62	0
57	MG	1H	3465	1/1	0.97	0.26	53,53,53,53	0
57	MG	14	3340	1/1	0.97	0.11	73,73,73,73	0
57	MG	14	3342	1/1	0.97	0.09	58,58,58,58	0
57	MG	14	3343	1/1	0.97	0.09	63,63,63,63	0
57	MG	1H	3357	1/1	0.97	0.09	68,68,68,68	0
57	MG	14	3047	1/1	0.97	0.33	42,42,42,42	0
57	MG	14	3350	1/1	0.97	0.11	56,56,56,56	0
57	MG	1H	3216	1/1	0.97	0.21	57,57,57,57	0
57	MG	1H	3469	1/1	0.97	0.04	100,100,100,100	0
57	MG	1H	3217	1/1	0.97	0.16	59,59,59,59	0
57	MG	1H	3362	1/1	0.97	0.07	60,60,60,60	0
57	MG	13	1675	1/1	0.97	0.41	79,79,79,79	0
57	MG	14	3363	1/1	0.97	0.11	68,68,68,68	0
57	MG	1H	3473	1/1	0.97	0.07	85,85,85,85	0
57	MG	1H	3364	1/1	0.97	0.03	106,106,106,106	0
57	MG	1H	3475	1/1	0.97	0.13	88,88,88,88	0
57	MG	1H	3041	1/1	0.97	0.28	72,72,72,72	0
57	MG	14	3187	1/1	0.97	0.15	80,80,80,80	0
57	MG	1H	3477	1/1	0.97	0.10	65,65,65,65	0
57	MG	14	3376	1/1	0.97	0.11	52,52,52,52	0
57	MG	14	3377	1/1	0.97	0.16	67,67,67,67	0
57	MG	14	3189	1/1	0.97	0.48	69,69,69,69	0
57	MG	1H	3367	1/1	0.97	0.09	54,54,54,54	0
57	MG	14	3066	1/1	0.97	0.18	53,53,53,53	0
57	MG	14	3384	1/1	0.97	0.06	95,95,95,95	0
57	MG	1H	3368	1/1	0.97	0.15	60,60,60,60	0
57	MG	13	1604	1/1	0.97	0.14	112,112,112,112	0
57	MG	13	1611	1/1	0.97	0.24	79,79,79,79	0
57	MG	14	3070	1/1	0.97	0.38	52,52,52,52	0
57	MG	14	3392	1/1	0.97	0.06	87,87,87,87	0
57	MG	14	3393	1/1	0.97	0.09	79,79,79,79	0
57	MG	14	3394	1/1	0.97	0.05	78,78,78,78	0
57	MG	14	3396	1/1	0.97	0.08	62,62,62,62	0
57	MG	14	3398	1/1	0.97	0.13	83,83,83,83	0
57	MG	14	3399	1/1	0.97	0.09	78,78,78,78	0
57	MG	14	3196	1/1	0.97	0.17	90,90,90,90	0
57	MG	14	3197	1/1	0.97	0.14	56,56,56,56	0
57	MG	13	1740	1/1	0.97	0.04	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3404	1/1	0.97	0.09	94,94,94,94	0
57	MG	14	3072	1/1	0.97	0.25	69,69,69,69	0
57	MG	14	3073	1/1	0.97	0.23	57,57,57,57	0
57	MG	14	3201	1/1	0.97	0.47	58,58,58,58	0
57	MG	1H	3373	1/1	0.97	0.14	66,66,66,66	0
57	MG	14	3410	1/1	0.97	0.05	85,85,85,85	0
57	MG	13	1644	1/1	0.97	0.20	80,80,80,80	0
57	MG	1H	3375	1/1	0.97	0.18	57,57,57,57	0
57	MG	14	3413	1/1	0.97	0.10	97,97,97,97	0
57	MG	14	3414	1/1	0.97	0.06	85,85,85,85	0
57	MG	14	3415	1/1	0.97	0.06	77,77,77,77	0
57	MG	14	3077	1/1	0.97	0.41	80,80,80,80	0
57	MG	14	3078	1/1	0.97	0.28	86,86,86,86	0
57	MG	1H	3486	1/1	0.97	0.18	61,61,61,61	0
57	MG	1H	3145	1/1	0.97	0.24	46,46,46,46	0
57	MG	14	3083	1/1	0.97	0.21	61,61,61,61	0
57	MG	1G	1652	1/1	0.97	0.11	82,82,82,82	0
57	MG	14	3087	1/1	0.97	0.09	97,97,97,97	0
57	MG	1H	3081	1/1	0.97	0.19	47,47,47,47	0
57	MG	13	1693	1/1	0.97	0.13	72,72,72,72	0
57	MG	1H	3490	1/1	0.97	0.07	83,83,83,83	0
57	MG	1G	1662	1/1	0.97	0.11	76,76,76,76	0
57	MG	13	1601	1/1	0.97	0.21	68,68,68,68	0
57	MG	14	3433	1/1	0.97	0.05	71,71,71,71	0
57	MG	14	3218	1/1	0.97	0.28	54,54,54,54	0
57	MG	14	3093	1/1	0.97	0.39	51,51,51,51	0
57	MG	1H	3494	1/1	0.97	0.03	126,126,126,126	0
57	MG	13	1606	1/1	0.97	0.28	52,52,52,52	0
57	MG	1H	3382	1/1	0.97	0.04	70,70,70,70	0
57	MG	14	3440	1/1	0.97	0.04	94,94,94,94	0
57	MG	1H	3150	1/1	0.97	0.09	50,50,50,50	0
57	MG	1H	3151	1/1	0.97	0.18	91,91,91,91	0
57	MG	1H	3387	1/1	0.97	0.10	64,64,64,64	0
57	MG	1H	3502	1/1	0.97	0.32	59,59,59,59	0
57	MG	14	3445	1/1	0.97	0.03	87,87,87,87	0
57	MG	1G	1672	1/1	0.97	0.03	91,91,91,91	0
57	MG	1H	3153	1/1	0.97	0.18	59,59,59,59	0
57	MG	1H	3118	1/1	0.97	0.12	60,60,60,60	0
57	MG	1H	3050	1/1	0.97	0.32	66,66,66,66	0
57	MG	13	1745	1/1	0.97	0.05	117,117,117,117	0
57	MG	1H	3237	1/1	0.97	0.18	61,61,61,61	0
57	MG	1G	1680	1/1	0.97	0.03	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3109	1/1	0.97	0.32	60,60,60,60	0
57	MG	13	1747	1/1	0.97	0.13	72,72,72,72	0
57	MG	13	1723	1/1	0.97	0.06	84,84,84,84	0
57	MG	13	1647	1/1	0.97	0.21	104,104,104,104	0
57	MG	1G	1685	1/1	0.97	0.06	109,109,109,109	0
57	MG	1H	3056	1/1	0.97	0.28	52,52,52,52	0
57	MG	1H	3413	1/1	0.97	0.08	78,78,78,78	0
57	MG	1H	3414	1/1	0.97	0.13	53,53,53,53	0
57	MG	1H	3416	1/1	0.97	0.16	48,48,48,48	0
57	MG	13	1727	1/1	0.97	0.07	110,110,110,110	0
57	MG	1H	3094	1/1	0.97	0.12	52,52,52,52	0
57	MG	5E	201	1/1	0.97	0.20	81,81,81,81	0
57	MG	14	3247	1/1	0.97	0.25	67,67,67,67	0
57	MG	1H	3204	1/1	0.97	0.22	86,86,86,86	0
57	MG	14	3250	1/1	0.97	0.18	65,65,65,65	0
57	MG	13	1614	1/1	0.97	0.59	64,64,64,64	0
57	MG	1H	3303	1/1	0.97	0.11	63,63,63,63	0
57	MG	1H	3429	1/1	0.97	0.11	75,75,75,75	0
57	MG	1H	3430	1/1	0.97	0.06	85,85,85,85	0
57	MG	I8	101	1/1	0.97	0.04	65,65,65,65	0
60	ZN	G8	201	1/1	0.97	0.18	146,146,146,146	0
57	MG	3I	201	1/1	0.97	0.16	57,57,57,57	0
57	MG	14	3290	1/1	0.98	0.09	64,64,64,64	0
57	MG	14	3292	1/1	0.98	0.13	61,61,61,61	0
57	MG	1H	3298	1/1	0.98	0.10	61,61,61,61	0
57	MG	14	3300	1/1	0.98	0.14	57,57,57,57	0
57	MG	14	3302	1/1	0.98	0.10	68,68,68,68	0
57	MG	1H	3381	1/1	0.98	0.11	95,95,95,95	0
57	MG	1H	3299	1/1	0.98	0.06	50,50,50,50	0
57	MG	1H	3384	1/1	0.98	0.11	73,73,73,73	0
57	MG	1H	3085	1/1	0.98	0.29	71,71,71,71	0
57	MG	14	3160	1/1	0.98	0.30	51,51,51,51	0
57	MG	14	3040	1/1	0.98	0.33	64,64,64,64	0
57	MG	1H	3024	1/1	0.98	0.31	45,45,45,45	0
57	MG	14	3042	1/1	0.98	0.24	58,58,58,58	0
57	MG	1H	3310	1/1	0.98	0.10	58,58,58,58	0
57	MG	1H	3391	1/1	0.98	0.13	49,49,49,49	0
57	MG	1H	3392	1/1	0.98	0.06	69,69,69,69	0
57	MG	1H	3117	1/1	0.98	0.51	72,72,72,72	0
57	MG	1H	3394	1/1	0.98	0.14	70,70,70,70	0
57	MG	1H	3314	1/1	0.98	0.13	75,75,75,75	0
57	MG	14	3050	1/1	0.98	0.29	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3051	1/1	0.98	0.39	62,62,62,62	0
57	MG	1H	3025	1/1	0.98	0.32	56,56,56,56	0
57	MG	1H	3398	1/1	0.98	0.12	50,50,50,50	0
57	MG	1H	3399	1/1	0.98	0.13	61,61,61,61	0
57	MG	1H	3256	1/1	0.98	0.34	71,71,71,71	0
57	MG	1H	3402	1/1	0.98	0.09	73,73,73,73	0
57	MG	1H	3320	1/1	0.98	0.05	67,67,67,67	0
57	MG	1H	3404	1/1	0.98	0.09	76,76,76,76	0
57	MG	14	3332	1/1	0.98	0.07	63,63,63,63	0
57	MG	14	3333	1/1	0.98	0.14	59,59,59,59	0
57	MG	14	3334	1/1	0.98	0.11	61,61,61,61	0
57	MG	14	3335	1/1	0.98	0.07	87,87,87,87	0
57	MG	14	3060	1/1	0.98	0.30	74,74,74,74	0
57	MG	14	3337	1/1	0.98	0.05	76,76,76,76	0
57	MG	14	3061	1/1	0.98	0.34	61,61,61,61	0
57	MG	1H	3405	1/1	0.98	0.11	69,69,69,69	0
57	MG	1H	3257	1/1	0.98	0.25	84,84,84,84	0
57	MG	14	3064	1/1	0.98	0.36	58,58,58,58	0
57	MG	14	3065	1/1	0.98	0.28	54,54,54,54	0
57	MG	14	3345	1/1	0.98	0.08	68,68,68,68	0
57	MG	14	3346	1/1	0.98	0.11	75,75,75,75	0
57	MG	14	3347	1/1	0.98	0.13	67,67,67,67	0
57	MG	1G	1651	1/1	0.98	0.08	81,81,81,81	0
57	MG	14	3349	1/1	0.98	0.08	81,81,81,81	0
57	MG	1H	3492	1/1	0.98	0.06	105,105,105,105	0
57	MG	1H	3407	1/1	0.98	0.06	50,50,50,50	0
57	MG	14	3352	1/1	0.98	0.06	65,65,65,65	0
57	MG	1G	1654	1/1	0.98	0.09	93,93,93,93	0
57	MG	1H	3219	1/1	0.98	0.14	62,62,62,62	0
57	MG	14	3356	1/1	0.98	0.13	61,61,61,61	0
57	MG	1H	3026	1/1	0.98	0.44	40,40,40,40	0
57	MG	14	3358	1/1	0.98	0.12	54,54,54,54	0
57	MG	14	3359	1/1	0.98	0.11	67,67,67,67	0
57	MG	14	3360	1/1	0.98	0.06	83,83,83,83	0
57	MG	1G	1658	1/1	0.98	0.05	94,94,94,94	0
57	MG	1G	1659	1/1	0.98	0.13	79,79,79,79	0
57	MG	14	3364	1/1	0.98	0.05	73,73,73,73	0
57	MG	1G	1661	1/1	0.98	0.05	111,111,111,111	0
57	MG	1H	3324	1/1	0.98	0.13	47,47,47,47	0
57	MG	14	3368	1/1	0.98	0.07	72,72,72,72	0
57	MG	14	3369	1/1	0.98	0.19	56,56,56,56	0
57	MG	1H	3497	1/1	0.98	0.07	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1G	1664	1/1	0.98	0.05	91,91,91,91	0
57	MG	1H	3412	1/1	0.98	0.13	66,66,66,66	0
57	MG	14	3373	1/1	0.98	0.06	93,93,93,93	0
57	MG	14	3079	1/1	0.98	0.30	64,64,64,64	0
57	MG	14	3375	1/1	0.98	0.05	91,91,91,91	0
57	MG	14	3080	1/1	0.98	0.38	46,46,46,46	0
57	MG	13	1725	1/1	0.98	0.06	71,71,71,71	0
57	MG	1H	3261	1/1	0.98	0.22	67,67,67,67	0
57	MG	14	3379	1/1	0.98	0.10	94,94,94,94	0
57	MG	1H	3328	1/1	0.98	0.08	52,52,52,52	0
57	MG	14	3381	1/1	0.98	0.05	52,52,52,52	0
57	MG	14	3382	1/1	0.98	0.09	91,91,91,91	0
57	MG	14	3084	1/1	0.98	0.34	56,56,56,56	0
57	MG	14	3085	1/1	0.98	0.31	65,65,65,65	0
57	MG	14	3385	1/1	0.98	0.07	70,70,70,70	0
57	MG	14	3386	1/1	0.98	0.07	56,56,56,56	0
57	MG	1H	3329	1/1	0.98	0.13	55,55,55,55	0
57	MG	1H	3420	1/1	0.98	0.07	64,64,64,64	0
57	MG	14	3389	1/1	0.98	0.07	81,81,81,81	0
57	MG	1H	3031	1/1	0.98	0.38	53,53,53,53	0
57	MG	1H	3332	1/1	0.98	0.07	63,63,63,63	0
57	MG	1G	1673	1/1	0.98	0.09	84,84,84,84	0
57	MG	1H	3424	1/1	0.98	0.05	68,68,68,68	0
57	MG	1H	3223	1/1	0.98	0.18	64,64,64,64	0
57	MG	14	3395	1/1	0.98	0.04	78,78,78,78	0
57	MG	1G	1676	1/1	0.98	0.04	86,86,86,86	0
57	MG	14	3397	1/1	0.98	0.14	64,64,64,64	0
57	MG	1H	3426	1/1	0.98	0.08	57,57,57,57	0
57	MG	14	3214	1/1	0.98	0.15	73,73,73,73	0
57	MG	1H	3152	1/1	0.98	0.19	87,87,87,87	0
57	MG	1H	3032	1/1	0.98	0.14	61,61,61,61	0
57	MG	1H	3336	1/1	0.98	0.13	61,61,61,61	0
57	MG	13	1726	1/1	0.98	0.08	85,85,85,85	0
57	MG	11	301	1/1	0.98	0.10	46,46,46,46	0
57	MG	11	302	1/1	0.98	0.11	57,57,57,57	0
57	MG	1H	3155	1/1	0.98	0.18	75,75,75,75	0
57	MG	1H	3341	1/1	0.98	0.09	57,57,57,57	0
57	MG	14	3103	1/1	0.98	0.52	68,68,68,68	0
57	MG	1H	3342	1/1	0.98	0.06	71,71,71,71	0
57	MG	1H	3268	1/1	0.98	0.25	81,81,81,81	0
57	MG	1H	3063	1/1	0.98	0.27	52,52,52,52	0
57	MG	13	1610	1/1	0.98	0.15	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	13	1728	1/1	0.98	0.08	91,91,91,91	0
57	MG	13	1746	1/1	0.98	0.08	83,83,83,83	0
57	MG	14	3419	1/1	0.98	0.05	70,70,70,70	0
57	MG	1H	3160	1/1	0.98	0.46	67,67,67,67	0
57	MG	13	1702	1/1	0.98	0.12	76,76,76,76	0
57	MG	1H	3356	1/1	0.98	0.10	58,58,58,58	0
57	MG	1H	3009	1/1	0.98	0.25	54,54,54,54	0
57	MG	13	1703	1/1	0.98	0.07	95,95,95,95	0
57	MG	1H	3445	1/1	0.98	0.03	97,97,97,97	0
57	MG	1G	1602	1/1	0.98	0.28	72,72,72,72	0
57	MG	1G	1603	1/1	0.98	0.20	81,81,81,81	0
57	MG	1H	3446	1/1	0.98	0.04	93,93,93,93	0
57	MG	14	3119	1/1	0.98	0.50	63,63,63,63	0
57	MG	1H	3071	1/1	0.98	0.43	54,54,54,54	0
57	MG	13	1623	1/1	0.98	0.35	61,61,61,61	0
57	MG	14	3122	1/1	0.98	0.07	104,104,104,104	0
57	MG	1H	3449	1/1	0.98	0.12	69,69,69,69	0
57	MG	13	1715	1/1	0.98	0.09	110,110,110,110	0
57	MG	14	3437	1/1	0.98	0.03	93,93,93,93	0
57	MG	14	3125	1/1	0.98	0.17	54,54,54,54	0
57	MG	14	3246	1/1	0.98	0.23	76,76,76,76	0
57	MG	14	3126	1/1	0.98	0.43	64,64,64,64	0
57	MG	13	1716	1/1	0.98	0.08	66,66,66,66	0
57	MG	1H	3169	1/1	0.98	0.20	85,85,85,85	0
57	MG	13	1718	1/1	0.98	0.09	78,78,78,78	0
57	MG	13	1705	1/1	0.98	0.07	76,76,76,76	0
57	MG	13	1706	1/1	0.98	0.12	71,71,71,71	0
57	MG	1H	3456	1/1	0.98	0.05	72,72,72,72	0
57	MG	1H	3370	1/1	0.98	0.11	70,70,70,70	0
57	MG	13	1607	1/1	0.98	0.27	74,74,74,74	0
57	MG	14	3137	1/1	0.98	0.22	72,72,72,72	0
57	MG	14	3450	1/1	0.98	0.10	63,63,63,63	0
57	MG	14	3451	1/1	0.98	0.14	77,77,77,77	0
57	MG	1H	3079	1/1	0.98	0.30	47,47,47,47	0
57	MG	1H	3460	1/1	0.98	0.14	62,62,62,62	0
57	MG	14	3140	1/1	0.98	0.31	81,81,81,81	0
57	MG	14	3020	1/1	0.98	0.38	51,51,51,51	0
57	MG	13	1634	1/1	0.98	0.70	71,71,71,71	0
57	MG	1J	204	1/1	0.98	0.06	82,82,82,82	0
57	MG	1H	3462	1/1	0.98	0.07	54,54,54,54	0
57	MG	13	1709	1/1	0.98	0.09	75,75,75,75	0
57	MG	2K	103	1/1	0.98	0.36	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1700	1/1	0.98	0.07	93,93,93,93	0
57	MG	1H	3002	1/1	0.98	0.31	39,39,39,39	0
57	MG	14	3029	1/1	0.98	0.26	59,59,59,59	0
57	MG	1G	1625	1/1	0.98	0.20	89,89,89,89	0
57	MG	1H	3292	1/1	0.98	0.10	50,50,50,50	0
57	MG	1H	3468	1/1	0.98	0.11	71,71,71,71	0
57	MG	14	3273	1/1	0.98	0.19	58,58,58,58	0
57	MG	1H	3293	1/1	0.98	0.06	63,63,63,63	0
57	MG	14	3277	1/1	0.98	0.08	67,67,67,67	0
57	MG	14	3278	1/1	0.98	0.05	65,65,65,65	0
57	MG	14	3153	1/1	0.98	0.09	79,79,79,79	0
57	MG	1G	1629	1/1	0.98	0.67	83,83,83,83	0
57	MG	14	3282	1/1	0.98	0.09	58,58,58,58	0
57	MG	14	3283	1/1	0.98	0.09	74,74,74,74	0
57	MG	14	3285	1/1	0.98	0.05	59,59,59,59	0
57	MG	14	3286	1/1	0.98	0.05	63,63,63,63	0
60	ZN	5A	101	1/1	0.98	0.09	128,128,128,128	0
57	MG	14	3289	1/1	0.98	0.12	58,58,58,58	0
57	MG	14	3275	1/1	0.99	0.09	61,61,61,61	0
57	MG	1H	3317	1/1	0.99	0.20	45,45,45,45	0
57	MG	14	3127	1/1	0.99	0.34	48,48,48,48	0
57	MG	1H	3318	1/1	0.99	0.15	54,54,54,54	0
57	MG	1H	3319	1/1	0.99	0.13	67,67,67,67	0
57	MG	13	1694	1/1	0.99	0.17	79,79,79,79	0
57	MG	14	3281	1/1	0.99	0.16	66,66,66,66	0
57	MG	14	3059	1/1	0.99	0.41	69,69,69,69	0
57	MG	1H	3039	1/1	0.99	0.12	90,90,90,90	0
57	MG	14	3284	1/1	0.99	0.07	57,57,57,57	0
57	MG	14	3133	1/1	0.99	0.33	71,71,71,71	0
57	MG	1H	3089	1/1	0.99	0.44	51,51,51,51	0
57	MG	14	3287	1/1	0.99	0.17	56,56,56,56	0
57	MG	14	3288	1/1	0.99	0.14	50,50,50,50	0
57	MG	1H	3491	1/1	0.99	0.13	75,75,75,75	0
57	MG	1H	3027	1/1	0.99	0.40	63,63,63,63	0
57	MG	14	3291	1/1	0.99	0.12	66,66,66,66	0
57	MG	13	1695	1/1	0.99	0.11	76,76,76,76	0
57	MG	14	3295	1/1	0.99	0.11	58,58,58,58	0
57	MG	1H	3029	1/1	0.99	0.35	49,49,49,49	0
57	MG	14	3297	1/1	0.99	0.08	74,74,74,74	0
57	MG	14	3298	1/1	0.99	0.03	79,79,79,79	0
57	MG	14	3299	1/1	0.99	0.06	60,60,60,60	0
57	MG	1H	3043	1/1	0.99	0.28	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3301	1/1	0.99	0.15	56,56,56,56	0
57	MG	1H	3327	1/1	0.99	0.05	55,55,55,55	0
57	MG	14	3401	1/1	0.99	0.10	66,66,66,66	0
57	MG	1H	3030	1/1	0.99	0.23	45,45,45,45	0
57	MG	1H	3167	1/1	0.99	0.16	63,63,63,63	0
57	MG	14	3305	1/1	0.99	0.17	57,57,57,57	0
57	MG	14	3306	1/1	0.99	0.10	55,55,55,55	0
57	MG	14	3307	1/1	0.99	0.12	79,79,79,79	0
57	MG	1H	3499	1/1	0.99	0.26	67,67,67,67	0
57	MG	1H	3060	1/1	0.99	0.37	55,55,55,55	0
57	MG	14	3409	1/1	0.99	0.14	80,80,80,80	0
57	MG	1H	3331	1/1	0.99	0.07	66,66,66,66	0
57	MG	14	3002	1/1	0.99	0.12	49,49,49,49	0
57	MG	13	1602	1/1	0.99	0.41	88,88,88,88	0
57	MG	13	1697	1/1	0.99	0.10	90,90,90,90	0
57	MG	1H	3443	1/1	0.99	0.08	67,67,67,67	0
57	MG	1H	3383	1/1	0.99	0.05	78,78,78,78	0
57	MG	1H	3294	1/1	0.99	0.13	56,56,56,56	0
57	MG	14	3417	1/1	0.99	0.07	87,87,87,87	0
57	MG	14	3418	1/1	0.99	0.05	75,75,75,75	0
57	MG	1H	3295	1/1	0.99	0.11	52,52,52,52	0
57	MG	14	3420	1/1	0.99	0.12	65,65,65,65	0
57	MG	1H	3296	1/1	0.99	0.18	49,49,49,49	0
57	MG	1H	3297	1/1	0.99	0.14	49,49,49,49	0
57	MG	16	208	1/1	0.99	0.05	67,67,67,67	0
57	MG	1H	3388	1/1	0.99	0.14	57,57,57,57	0
57	MG	14	3322	1/1	0.99	0.14	74,74,74,74	0
57	MG	1H	3389	1/1	0.99	0.16	59,59,59,59	0
57	MG	1H	3338	1/1	0.99	0.18	53,53,53,53	0
57	MG	1H	3339	1/1	0.99	0.09	50,50,50,50	0
57	MG	13	1683	1/1	0.99	0.21	67,67,67,67	0
57	MG	14	3327	1/1	0.99	0.06	67,67,67,67	0
57	MG	1H	3172	1/1	0.99	0.14	73,73,73,73	0
57	MG	14	3432	1/1	0.99	0.10	83,83,83,83	0
57	MG	1H	3300	1/1	0.99	0.11	54,54,54,54	0
57	MG	14	3019	1/1	0.99	0.33	58,58,58,58	0
57	MG	14	3331	1/1	0.99	0.09	66,66,66,66	0
57	MG	1H	3396	1/1	0.99	0.08	60,60,60,60	0
57	MG	1H	3343	1/1	0.99	0.07	74,74,74,74	0
57	MG	1H	3064	1/1	0.99	0.23	54,54,54,54	0
57	MG	14	3023	1/1	0.99	0.30	54,54,54,54	0
57	MG	1H	3302	1/1	0.99	0.07	47,47,47,47	0

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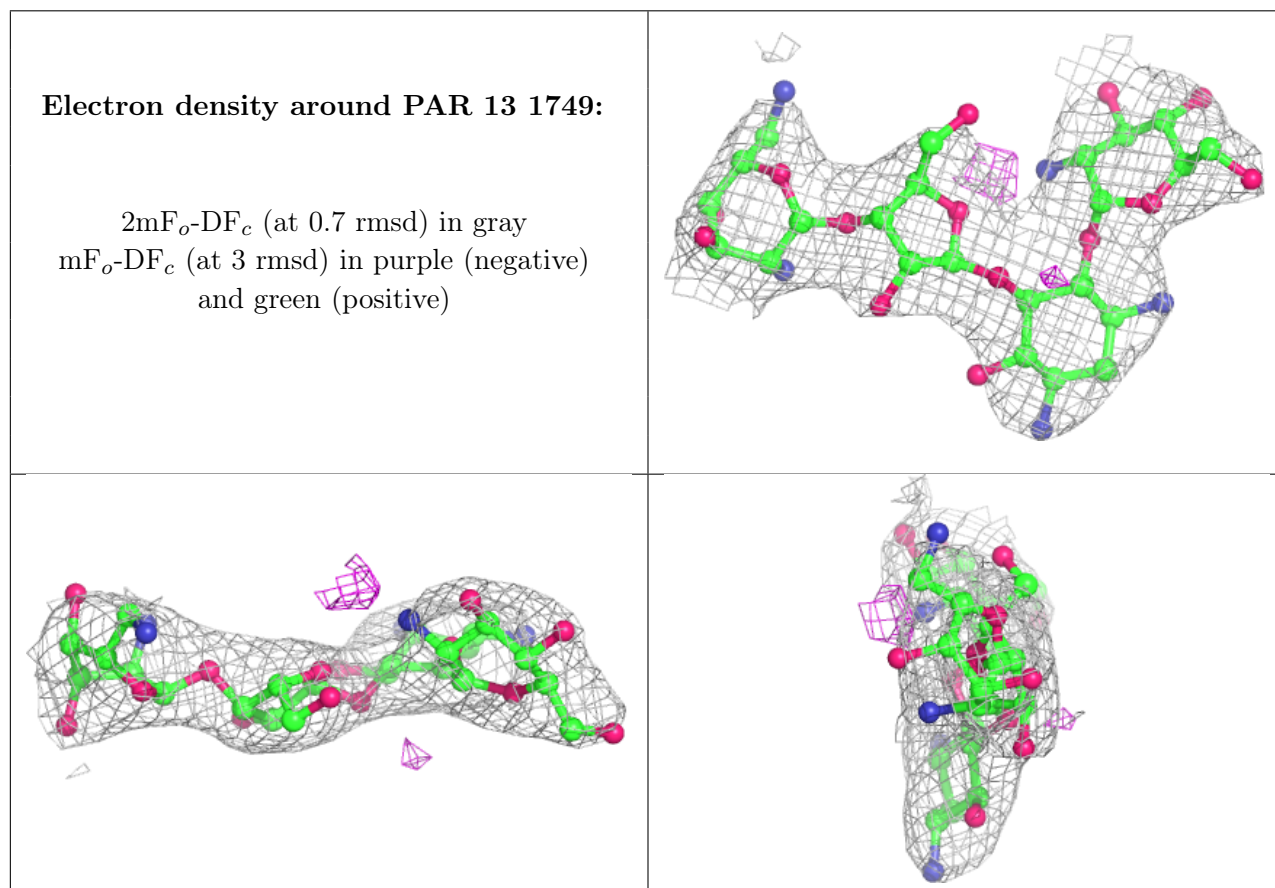
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3346	1/1	0.99	0.11	58,58,58,58	0
57	MG	1G	1656	1/1	0.99	0.19	105,105,105,105	0
57	MG	14	3339	1/1	0.99	0.07	86,86,86,86	0
57	MG	1H	3401	1/1	0.99	0.10	52,52,52,52	0
57	MG	14	3341	1/1	0.99	0.07	62,62,62,62	0
57	MG	14	3028	1/1	0.99	0.21	60,60,60,60	0
57	MG	13	1717	1/1	0.99	0.10	66,66,66,66	0
57	MG	1H	3304	1/1	0.99	0.11	55,55,55,55	0
57	MG	1G	1660	1/1	0.99	0.03	96,96,96,96	0
57	MG	14	3249	1/1	0.99	0.28	60,60,60,60	0
57	MG	1H	3349	1/1	0.99	0.17	53,53,53,53	0
57	MG	1H	3305	1/1	0.99	0.09	53,53,53,53	0
57	MG	14	3453	1/1	0.99	0.04	88,88,88,88	0
57	MG	14	3252	1/1	0.99	0.19	67,67,67,67	0
57	MG	1H	3351	1/1	0.99	0.08	69,69,69,69	0
57	MG	1H	3306	1/1	0.99	0.09	60,60,60,60	0
57	MG	1H	3408	1/1	0.99	0.11	50,50,50,50	0
57	MG	1H	3353	1/1	0.99	0.09	57,57,57,57	0
57	MG	1H	3307	1/1	0.99	0.06	57,57,57,57	0
57	MG	14	3355	1/1	0.99	0.12	59,59,59,59	0
57	MG	1H	3355	1/1	0.99	0.10	68,68,68,68	0
57	MG	29	302	1/1	0.99	0.29	40,40,40,40	0
57	MG	1H	3309	1/1	0.99	0.12	48,48,48,48	0
57	MG	13	1732	1/1	0.99	0.08	108,108,108,108	0
57	MG	1H	3358	1/1	0.99	0.12	67,67,67,67	0
57	MG	1H	3415	1/1	0.99	0.10	52,52,52,52	0
57	MG	1H	3311	1/1	0.99	0.10	53,53,53,53	0
57	MG	14	3362	1/1	0.99	0.05	62,62,62,62	0
57	MG	1H	3417	1/1	0.99	0.11	56,56,56,56	0
57	MG	14	3046	1/1	0.99	0.41	58,58,58,58	0
57	MG	13	1690	1/1	0.99	0.14	68,68,68,68	0
57	MG	1H	3419	1/1	0.99	0.06	63,63,63,63	0
57	MG	85	201	1/1	0.99	0.20	72,72,72,72	0
57	MG	14	3367	1/1	0.99	0.05	60,60,60,60	0
57	MG	1H	3361	1/1	0.99	0.08	53,53,53,53	0
57	MG	1H	3051	1/1	0.99	0.16	93,93,93,93	0
57	MG	1H	3016	1/1	0.99	0.40	49,49,49,49	0
57	MG	1H	3239	1/1	0.99	0.09	67,67,67,67	0
59	SF4	3E	301	8/8	0.99	0.19	71,78,87,91	0
59	SF4	32	301	8/8	0.99	0.17	100,111,117,118	0
60	ZN	5I	102	1/1	0.99	0.13	88,88,88,88	0
57	MG	1G	1681	1/1	0.99	0.04	85,85,85,85	0

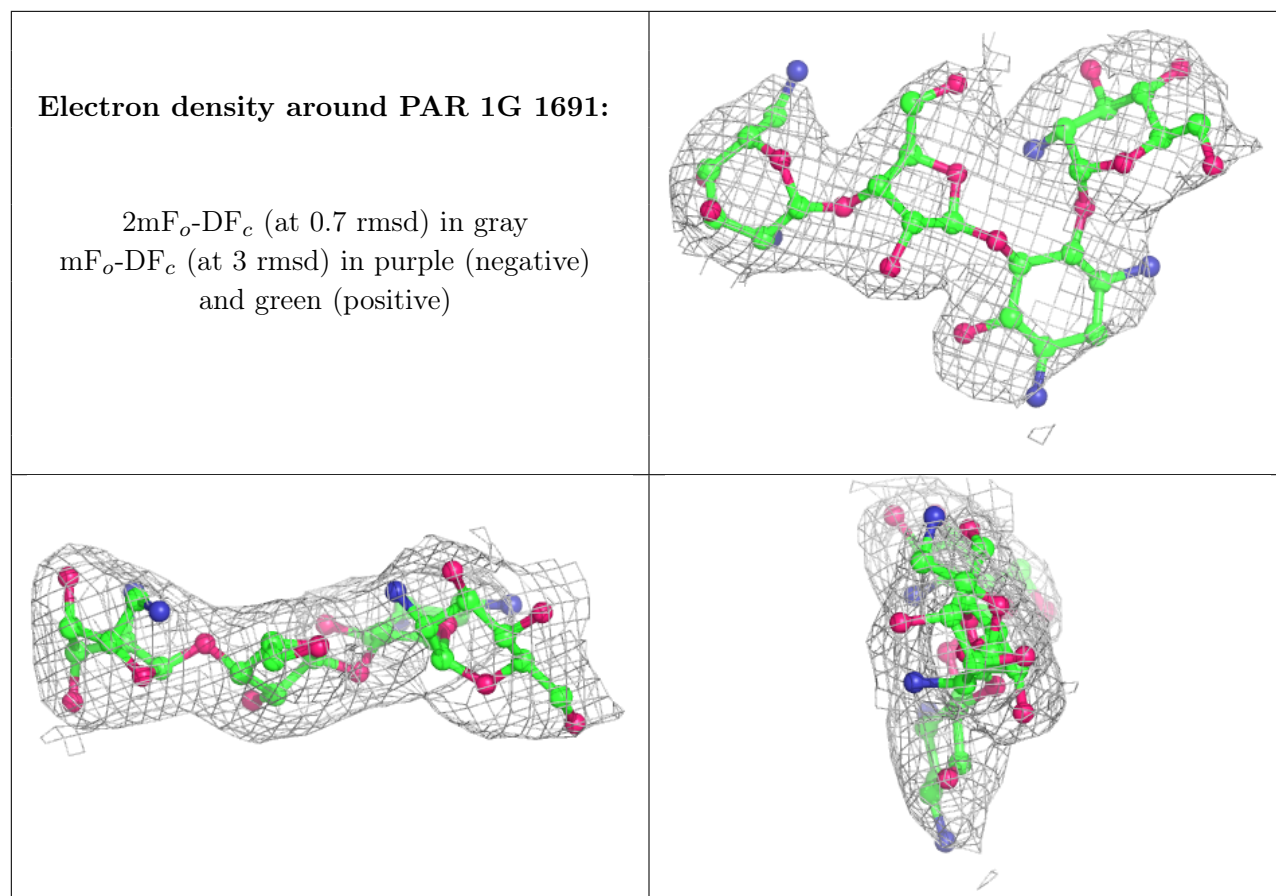
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3365	1/1	0.99	0.10	70,70,70,70	0
57	MG	14	3274	1/1	0.99	0.13	62,62,62,62	0
57	MG	14	3293	1/1	1.00	0.09	51,51,51,51	0
57	MG	14	3294	1/1	1.00	0.11	54,54,54,54	0
57	MG	1H	3390	1/1	1.00	0.08	57,57,57,57	0
57	MG	1H	3312	1/1	1.00	0.05	76,76,76,76	0
57	MG	1H	3308	1/1	1.00	0.08	61,61,61,61	0
57	MG	1H	3423	1/1	1.00	0.10	55,55,55,55	0

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





6.5 Other polymers [i](#)

There are no such residues in this entry.