



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 4, 2024 – 01:02 am GMT

PDB ID : 5IB7
Title : Structure of *T. thermophilus* 70S ribosome complex with mRNA, tRNA^{fMet}, near-cognate tRNA^{Lys} with U-G mismatch in the A-site and antibiotic paromomycin
Authors : Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2016-02-22
Resolution : 2.99 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

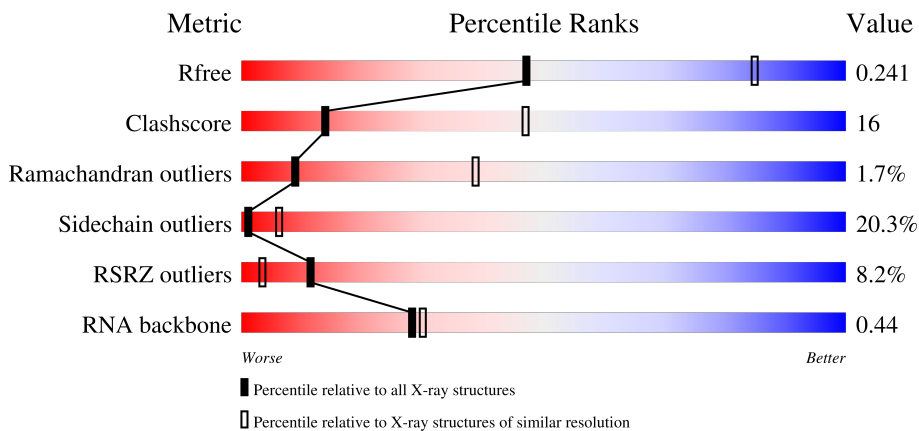
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.99 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	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)
RNA backbone	3102	1173 (3.30-2.70)

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	 37% 45% 15% ..
1	1G	1522	 39% 44% 14% ..
2	12	256	 10% 34% 36% 9% . 19%

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Mol	Chain	Length	Quality of chain
2	1E	256	5% 39% 38% 12% 10%
3	22	239	21% 41% 34% 7% 18%
3	2E	239	9% 53% 26% 6% 14%
4	32	209	7% 49% 42% 8%
4	3E	209	6% 44% 44% 11%
5	42	162	7% 51% 33% 8% 7%
5	4E	162	2% 51% 35% 6% 8%
6	52	101	66% 27% 7%
6	5E	101	7% 50% 44% 5%
7	62	156	21% 38% 43% 8% 12%
7	6E	156	23% 55% 36% 8%
8	72	138	11% 52% 41% 7%
8	7E	138	21% 52% 38% 9%
9	82	128	39% 39% 46% 9% 5%
9	8E	128	4% 44% 41% 13%
10	1A	105	21% 35% 29% 10% 24%
10	1I	105	27% 51% 33% 5% 10%
11	2A	129	21% 55% 22% 9% 12%
11	2I	129	19% 50% 29% 7% 14%
12	3A	132	34% 48% 33% 11% 8%
12	3I	132	11% 60% 26% 7% 8%
13	4A	126	21% 37% 39% 10% 13%
13	4I	126	3% 38% 44% 11% 7%
14	5A	61	67% 44% 44% 7%
14	5I	61	13% 49% 31% 16%




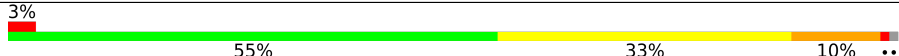
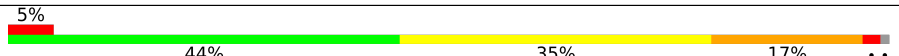
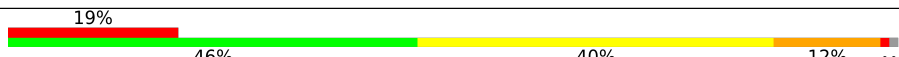

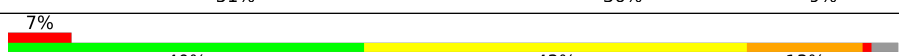

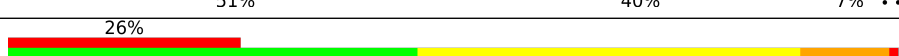










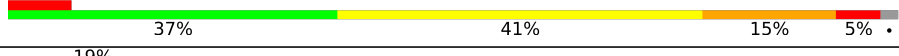
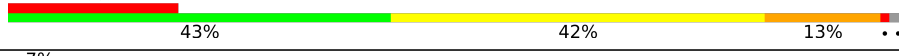
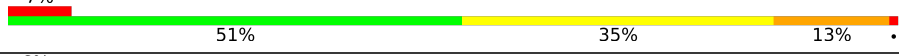


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Mol	Chain	Length	Quality of chain
15	6A	89	3% 61% 35% ..
15	6I	89	3% 55% 35% 8% .
16	7A	88	2% 58% 34% . 5%
16	7I	88	23% 40% 44% 10% 6%
17	8A	105	26% 63% 30% . 6%
17	8I	105	17% 48% 42% 5% 6%
18	9A	88	5% 43% 28% 5% 24%
18	9I	88	2% 44% 27% 6% 23%
19	AA	93	14% 40% 27% .. 30%
19	AI	93	3% 46% 30% 12% 12%
20	BA	106	17% 48% 37% 8% . 7%
20	BI	106	25% 42% 41% 8% 8%
21	1B	27	30% 48% 30% . 19%
21	1F	27	44% 26% 15% 15%
22	1K	76	7% 26% 47% 18% . 5%
23	2K	77	% 42% 40% 14% .
23	2L	77	40% 44% 12% .
24	1L	76	14% 32% 38% 14% . 13%
24	3K	76	13% 17% 37% 36% . 8%
24	3L	76	4% 21% 46% 26% . 5%
25	4K	30	13% 23% 23% 17% 37%
25	4L	30	10% 10% 30% 20% . 37%
26	14	2917	% 34% 41% 18% . .
26	1H	2917	32% 41% 21% . .
27	16	122	% 44% 35% 15% 6%

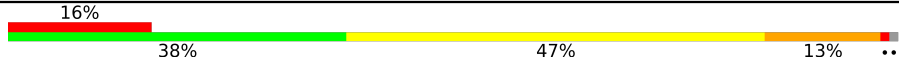

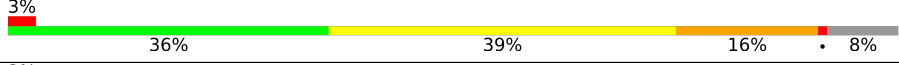

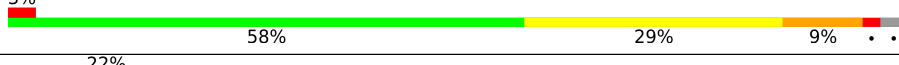
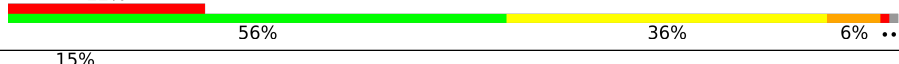
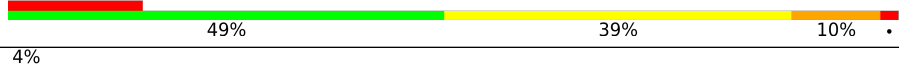

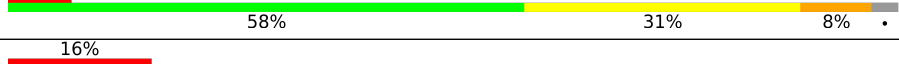


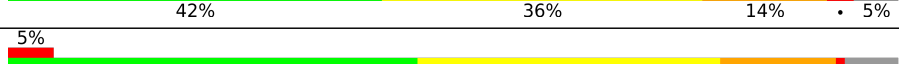
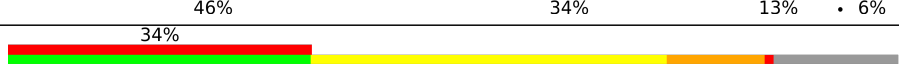
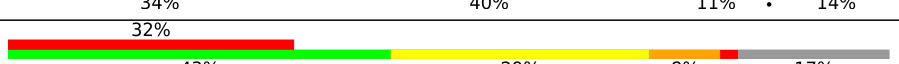




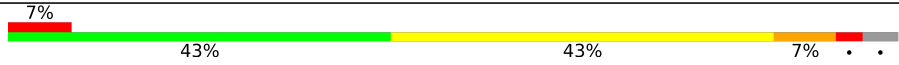

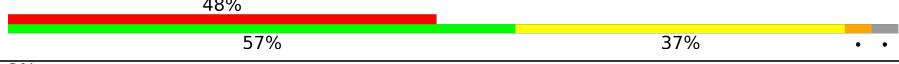
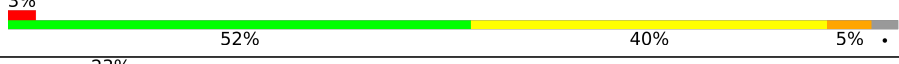
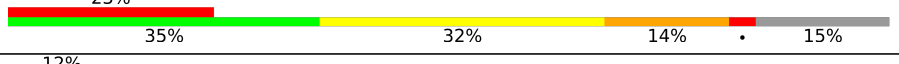


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Mol	Chain	Length	Quality of chain
27	1J	122	
28	71	229	
29	11	276	
29	19	276	
30	21	206	
30	29	206	
31	31	210	
31	39	210	
32	41	182	
32	49	182	
33	51	180	
33	59	180	
34	61	148	
34	69	148	
35	15	140	
35	58	140	
36	25	122	
36	68	122	
37	35	150	
37	78	150	
38	45	141	
38	88	141	
39	55	118	
39	98	118	
40	65	112	


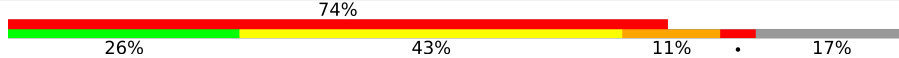
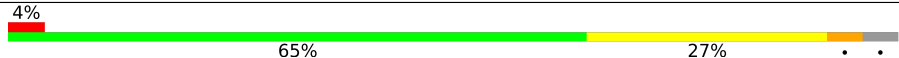
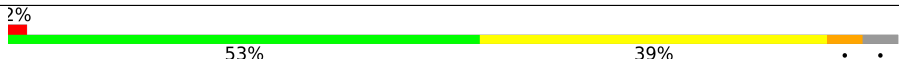

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Mol	Chain	Length	Quality of chain
40	A8	112	
41	75	146	
41	B8	146	
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	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	O8	54	
55	L5	49	
55	P8	49	
56	M5	65	
56	Q8	65	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	13	1647	-	-	-	X
57	MG	13	1662	-	-	-	X
57	MG	13	1664	-	-	-	X
57	MG	13	1669	-	-	-	X
57	MG	13	1671	-	-	-	X
57	MG	13	1673	-	-	-	X
57	MG	13	1676	-	-	-	X
57	MG	14	3064	-	-	-	X
57	MG	14	3069	-	-	-	X
57	MG	14	3103	-	-	-	X
57	MG	14	3109	-	-	-	X
57	MG	14	3115	-	-	-	X
57	MG	14	3118	-	-	-	X
57	MG	14	3127	-	-	-	X
57	MG	14	3128	-	-	-	X
57	MG	14	3132	-	-	-	X
57	MG	14	3138	-	-	-	X
57	MG	14	3161	-	-	-	X
57	MG	14	3166	-	-	-	X
57	MG	14	3173	-	-	-	X
57	MG	14	3185	-	-	-	X
57	MG	14	3197	-	-	-	X
57	MG	14	3208	-	-	-	X
57	MG	19	301	-	-	-	X
57	MG	1G	1609	-	-	-	X
57	MG	1G	1618	-	-	-	X
57	MG	1G	1634	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	1H	3004	-	-	-	X
57	MG	1H	3053	-	-	-	X
57	MG	1H	3065	-	-	-	X
57	MG	1H	3081	-	-	-	X
57	MG	1H	3111	-	-	-	X
57	MG	1H	3130	-	-	-	X
57	MG	1H	3135	-	-	-	X
57	MG	1H	3144	-	-	-	X
57	MG	1H	3145	-	-	-	X
57	MG	1H	3150	-	-	-	X
57	MG	1H	3153	-	-	-	X
57	MG	1H	3163	-	-	-	X
57	MG	1H	3168	-	-	-	X
57	MG	1H	3177	-	-	-	X
57	MG	1H	3180	-	-	-	X
57	MG	1H	3205	-	-	-	X
57	MG	1H	3206	-	-	-	X
57	MG	1H	3211	-	-	-	X
57	MG	1H	3217	-	-	-	X
57	MG	1H	3225	-	-	-	X
57	MG	1H	3237	-	-	-	X
57	MG	E5	101	-	-	-	X
57	MG	P8	101	-	-	-	X
59	SF4	32	302	-	-	X	-

2 Entry composition [i](#)

There are 62 unique types of molecules in this entry. The entry contains 297444 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	13	1499	Total 32223	C 14342	N 5973	O 10409	P 1499	0	0	0
1	1G	1508	Total 32414	C 14427	N 6005	O 10474	P 1508	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	207	Total 1696	C 1083	N 306	O 303	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	195	Total 1537	C 973	N 297	O 266	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
			1698	1064	338	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	150	Total	C	N	O	S	0	0	0
			1141	719	217	201	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	138	Total	C	N	O	S	0	0	0
			1110	689	221	194	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	7E	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			
8	72	137	Total	C	N	O	S	0	0	0
			1107	700	214	191	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	8E	126	Total	C	N	O	0	0	0
			1000	634	196	170			

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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	94	Total	C	N	O	S	0	0	0
			749	468	147	133	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	121	Total	C	N	O	S	0	0	0
			947	597	191	158	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	4I	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			
13	4A	109	Total	C	N	O	S	0	0	0
			879	544	181	152	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	5I	59	Total	C	N	O	S	0	0	0
			486	309	103	70	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	87	Total	C	N	O	S	0	0	0
			729	457	146	124	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	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	99	Total	C	N	O	S	0	0	0
			823	528	151	142	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	82	Total	C	N	O	S	0	0	0
			661	422	123	114	2			
19	AA	65	Total	C	N	O	S	0	0	0
			510	324	92	92	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	72	Total	C	N	O	P	S	0	0	0
			1542	691	269	509	72	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	3K	70	Total	C	N	O	P	0	0	0
			1483	664	260	490	69			
24	1L	66	Total	C	N	O	P	0	0	0
			1401	626	244	465	66			
24	3L	72	Total	C	N	O	P	0	0	0
			1528	684	270	503	71			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	19	Total	C	N	O	P	0	0	0
			420	188	89	124	19			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
25	4L	19	419	188	89	123	19	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
26	1H	2860	61609	27418	11525	19806	2860	0	0	0
26	14	2826	60877	27092	11393	19566	2826	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	1059B	U	G	conflict	GB 55771382
1H	1080	A	C	conflict	GB 55771382
14	158	U	UNK	conflict	GB 55771382
14	654A	A	G	conflict	GB 55771382
14	654E	C	G	conflict	GB 55771382
14	654P	G	C	conflict	GB 55771382
14	654T	A	C	conflict	GB 55771382
14	1058	U	G	conflict	GB 55771382
14	1080	A	C	conflict	GB 55771382

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			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	132	1027	648	193	185	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
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
			Total	C	N	O	S			
30	21	203	Total	C	N	O	S	0	0	0
			1546	978	295	267	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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
32	41	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			
32	49	180	Total	C	N	O	S	0	0	0
			1459	931	266	258	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
33	51	174	Total	C	N	O	S	0	0	0
			1328	842	249	236	1			
33	59	169	Total	C	N	O	S	0	0	0
			1295	823	241	230	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	58	137	Total	C	N	O	S	0	0	0
			1096	706	205	181	4			
35	15	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	141	Total	C	N	O	S	0	0	0
			1117	712	211	187	7			
38	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
41	B8	135	Total 1119	C 697	N 230	O 191	S 1	0	0	0
41	75	133	Total 1109	C 691	N 228	O 189	S 1	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
43	D8	100	Total 774	C 499	N 141	O 133	S 1	0	0	0
43	95	100	Total 770	C 496	N 140	O 133	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
44	E8	110	Total 876	C 552	N 171	O 151	S 2	0	0	0
44	A5	111	Total 886	C 558	N 174	O 152	S 2	0	0	0

- 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
			750	488	135	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	103	Total	C	N	O	S	0	0	0
			783	504	148	126	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	170	Total	C	N	O	S	0	0	0
			1365	870	246	246	3			
47	D5	177	Total	C	N	O	S	0	0	0
			1411	901	253	255	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	77	Total	C	N	O	S	0	0	0
			611	378	129	103	1			
48	E5	76	Total	C	N	O	S	0	0	0
			603	372	128	102	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	J8	96	Total	C	N	O	S	0	0	0
			747	469	148	129	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
			575	358	116	100	1			
50	G5	69	Total	C	N	O	S	0	0	0
			576	358	116	101	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M8	60	Total	C	N	O	S	0	0	0
			475	300	84	86	5			

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

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

- Molecule 54 is a protein called 50S ribosomal protein L33.

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

- Molecule 55 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	P8	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			
55	L5	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			

- Molecule 56 is a protein called 50S ribosomal protein L35.

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

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

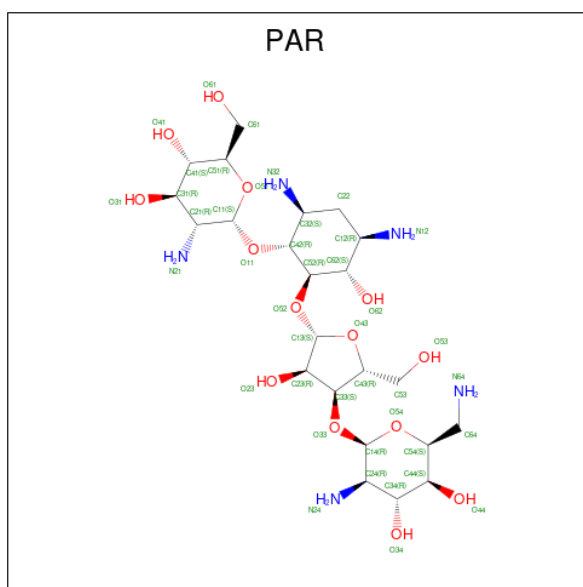
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	13	140	Total	Mg	0	0
			140	140		
57	3I	1	Total	Mg	0	0
			1	1		
57	4I	1	Total	Mg	0	0
			1	1		
57	5I	1	Total	Mg	0	0
			1	1		
57	2K	2	Total	Mg	0	0
			2	2		
57	1H	525	Total	Mg	0	0
			525	525		
57	16	11	Total	Mg	0	0
			11	11		
57	21	3	Total	Mg	0	0
			3	3		
57	31	2	Total	Mg	0	0
			2	2		
57	41	1	Total	Mg	0	0
			1	1		
57	78	1	Total	Mg	0	0
			1	1		
57	88	3	Total	Mg	0	0
			3	3		
57	I8	2	Total	Mg	0	0
			2	2		
57	P8	1	Total	Mg	0	0
			1	1		
57	Q8	1	Total	Mg	0	0
			1	1		
57	1G	102	Total	Mg	0	0
			102	102		
57	32	1	Total	Mg	0	0
			1	1		
57	42	1	Total	Mg	0	0
			1	1		

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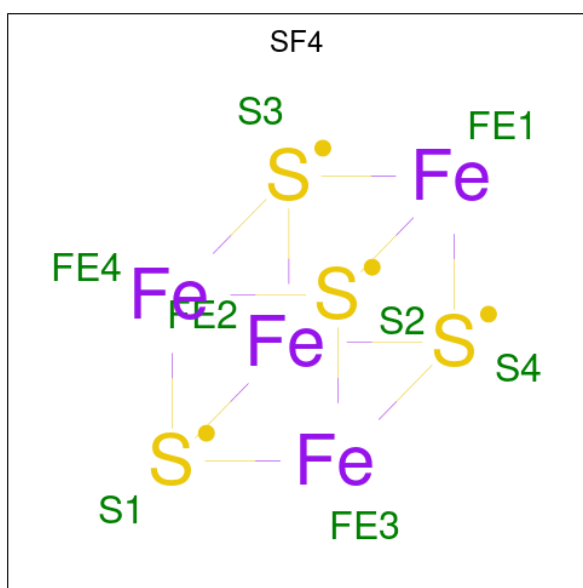
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	52	1	Total Mg 1 1	0	0
57	7A	1	Total Mg 1 1	0	0
57	2L	2	Total Mg 2 2	0	0
57	4L	1	Total Mg 1 1	0	0
57	14	435	Total Mg 435 435	0	0
57	1J	8	Total Mg 8 8	0	0
57	19	1	Total Mg 1 1	0	0
57	29	1	Total Mg 1 1	0	0
57	39	2	Total Mg 2 2	0	0
57	25	1	Total Mg 1 1	0	0
57	35	1	Total Mg 1 1	0	0
57	45	2	Total Mg 2 2	0	0
57	C5	1	Total Mg 1 1	0	0
57	E5	1	Total Mg 1 1	0	0
57	M5	1	Total Mg 1 1	0	0

- Molecule 58 is PAROMOMYCIN (three-letter code: PAR) (formula: $C_{23}H_{45}N_5O_{14}$).



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

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

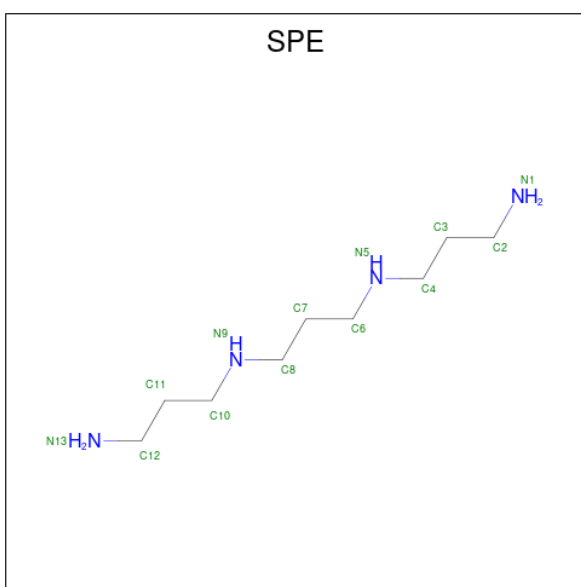


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
59	3E	1	Total	Fe	S	0	0
			8	4	4		
59	32	1	Total	Fe	S	0	0
			8	4	4		

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

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

- Molecule 61 is THERMINE (three-letter code: SPE) (formula: C₉H₂₄N₄).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	1G	1	Total C N 13 9 4	0	0
61	14	1	Total C N 13 9 4	0	0
61	14	1	Total C N 13 9 4	0	0

- Molecule 62 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
62	13	320	Total O 320 320	0	0
62	4E	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
62	8E	2	Total O 2 2	0	0
62	1I	2	Total O 2 2	0	0
62	3I	2	Total O 2 2	0	0
62	5I	2	Total O 2 2	0	0
62	6I	3	Total O 3 3	0	0
62	7I	1	Total O 1 1	0	0
62	BI	2	Total O 2 2	0	0
62	1F	1	Total O 1 1	0	0
62	1K	2	Total O 2 2	0	0
62	2K	8	Total O 8 8	0	0
62	4K	5	Total O 5 5	0	0
62	1H	1470	Total O 1470 1470	0	0
62	16	12	Total O 12 12	0	0
62	11	17	Total O 17 17	0	0
62	21	7	Total O 7 7	0	0
62	31	5	Total O 5 5	0	0
62	41	1	Total O 1 1	0	0
62	58	2	Total O 2 2	0	0
62	78	10	Total O 10 10	0	0
62	B8	1	Total O 1 1	0	0
62	C8	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
62	F8	2	Total O 2 2	0	0
62	G8	2	Total O 2 2	0	0
62	I8	6	Total O 6 6	0	0
62	J8	4	Total O 4 4	0	0
62	L8	3	Total O 3 3	0	0
62	P8	1	Total O 1 1	0	0
62	Q8	5	Total O 5 5	0	0
62	1G	317	Total O 317 317	0	0
62	32	1	Total O 1 1	0	0
62	52	4	Total O 4 4	0	0
62	1A	1	Total O 1 1	0	0
62	6A	2	Total O 2 2	0	0
62	7A	5	Total O 5 5	0	0
62	9A	2	Total O 2 2	0	0
62	BA	2	Total O 2 2	0	0
62	2L	6	Total O 6 6	0	0
62	4L	6	Total O 6 6	0	0
62	14	1144	Total O 1144 1144	0	0
62	1J	12	Total O 12 12	0	0
62	19	15	Total O 15 15	0	0
62	29	4	Total O 4 4	0	0

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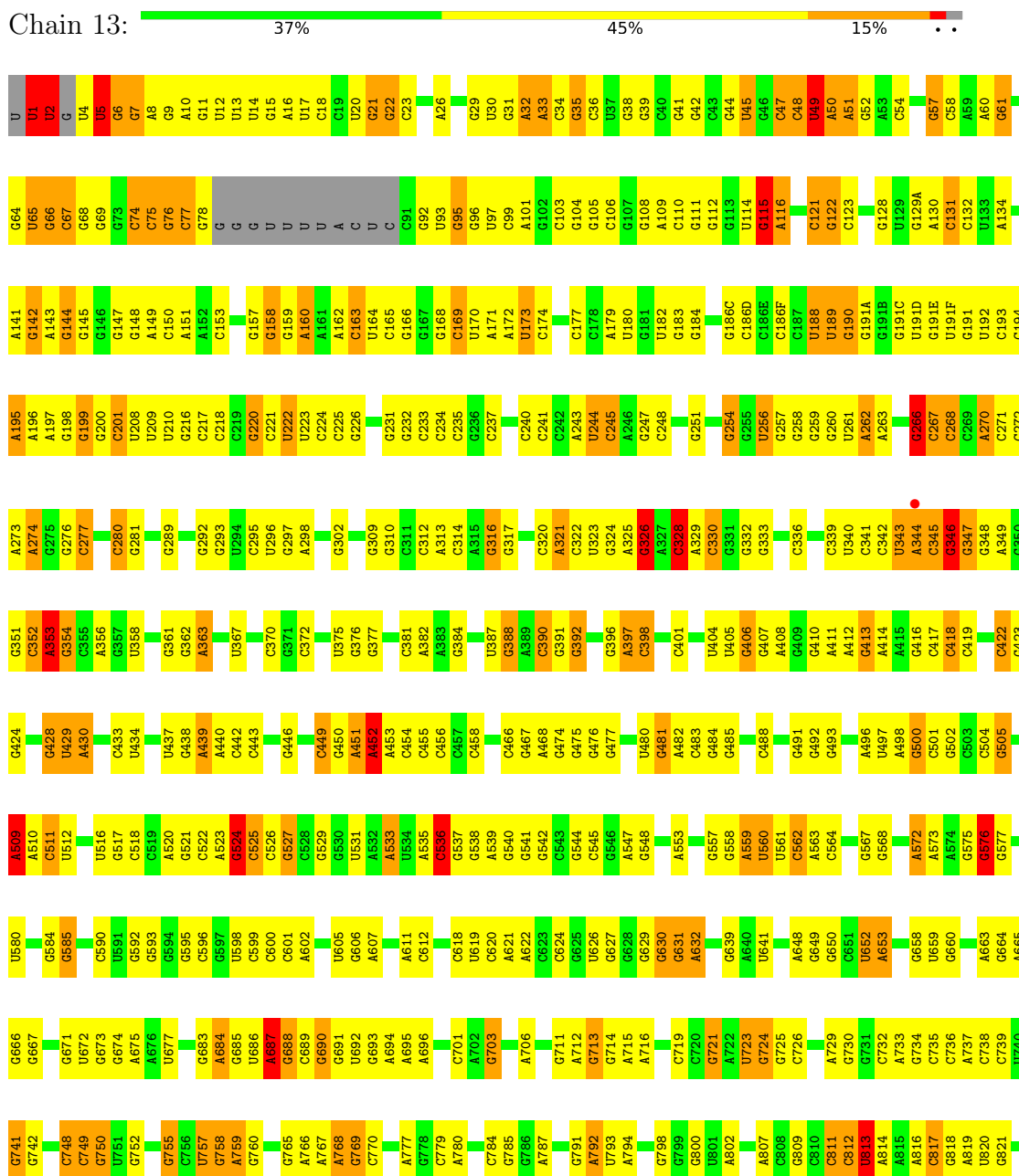
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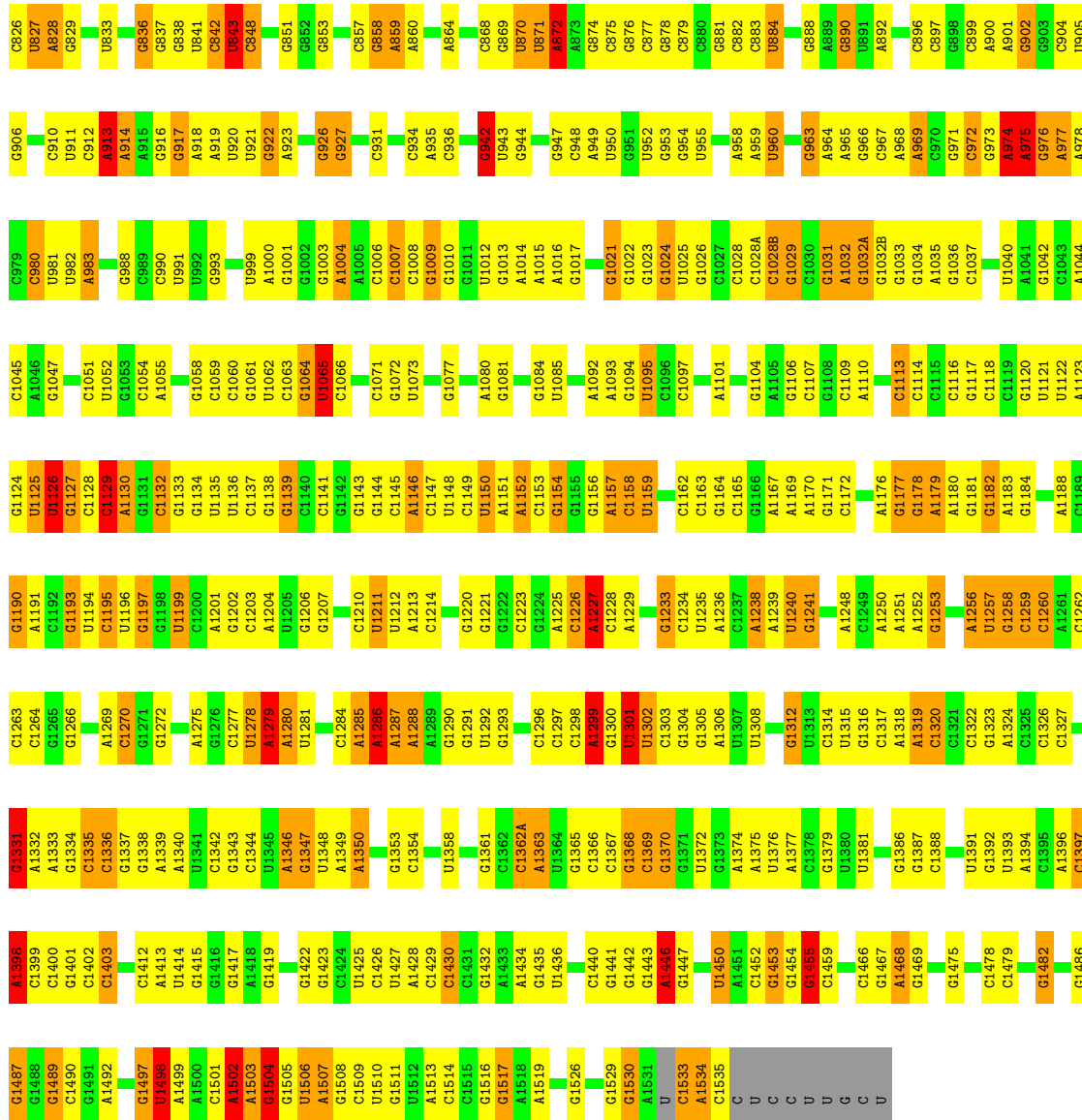
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	39	5	Total 5	O 5	0	0
62	15	1	Total 1	O 1	0	0
62	25	6	Total 6	O 6	0	0
62	35	8	Total 8	O 8	0	0
62	55	3	Total 3	O 3	0	0
62	85	2	Total 2	O 2	0	0
62	A5	1	Total 1	O 1	0	0
62	B5	1	Total 1	O 1	0	0
62	C5	3	Total 3	O 3	0	0
62	F5	1	Total 1	O 1	0	0
62	H5	2	Total 2	O 2	0	0
62	M5	9	Total 9	O 9	0	0

3 Residue-property plots

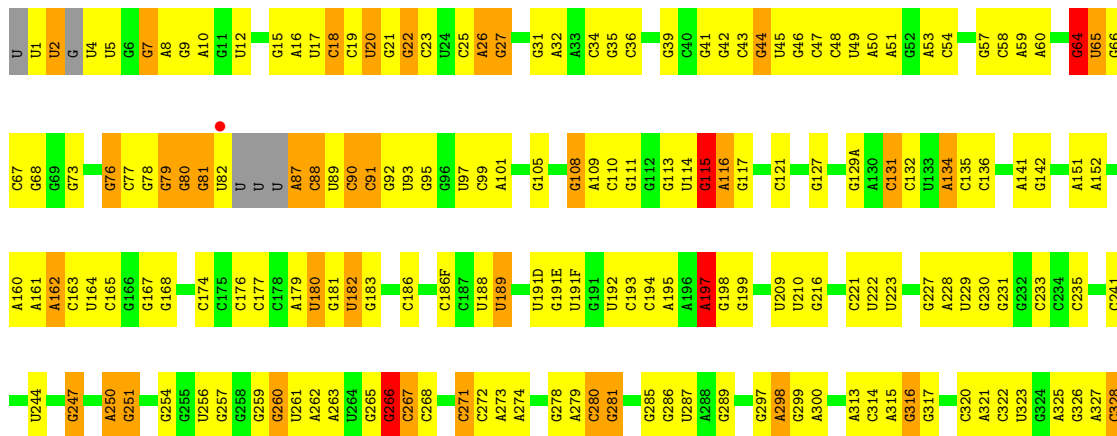
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: 16S ribosomal RNA





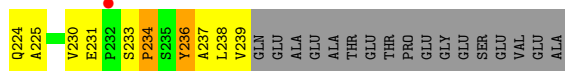
• Molecule 1: 16S ribosomal RNA



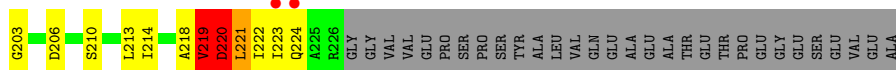
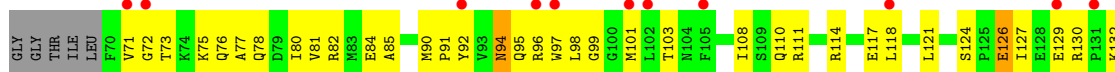
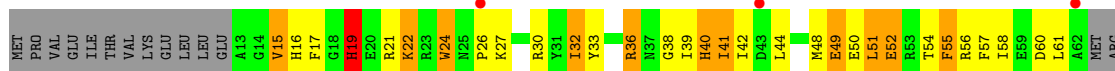
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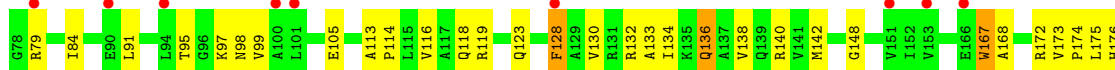
• Molecule 2: 30S ribosomal protein S2

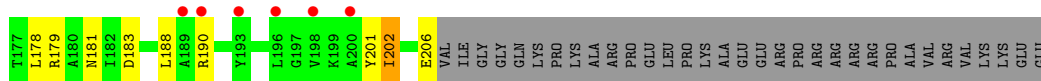


• Molecule 2: 30S ribosomal protein S2

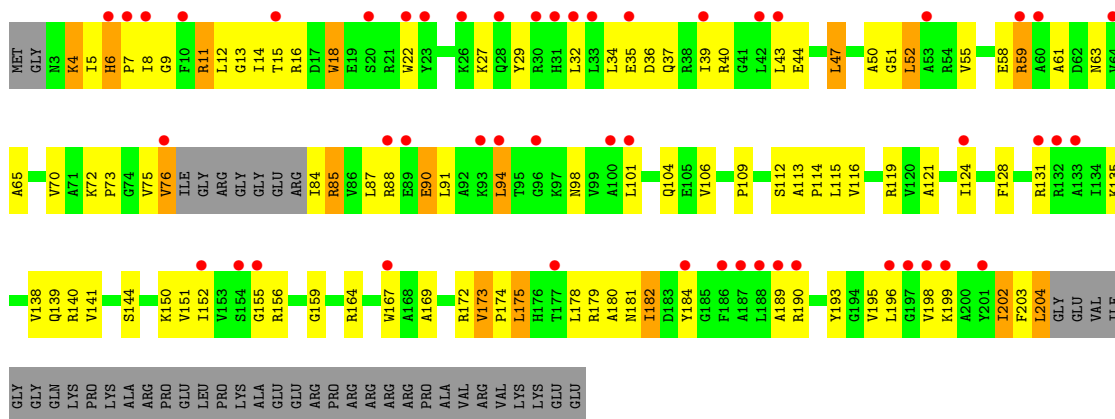


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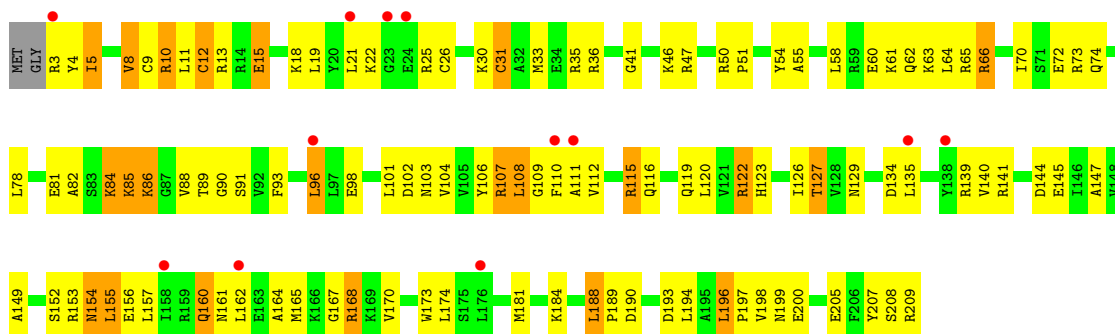
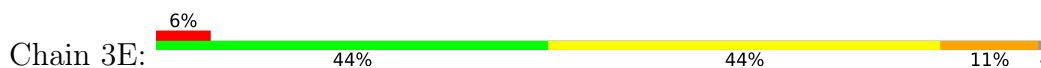




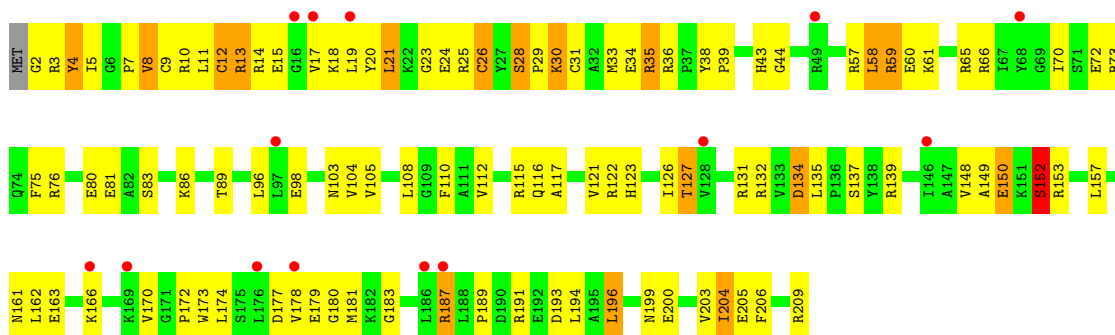
- Molecule 3: 30S ribosomal protein S3



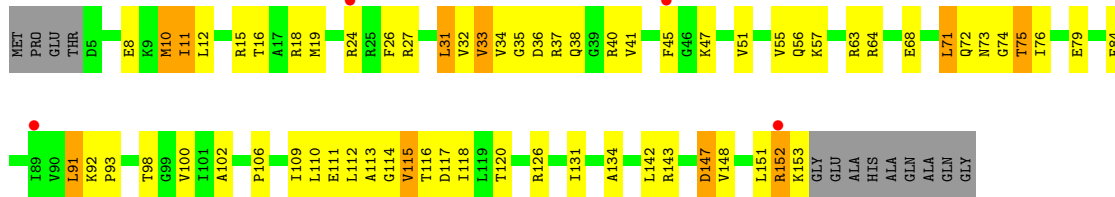
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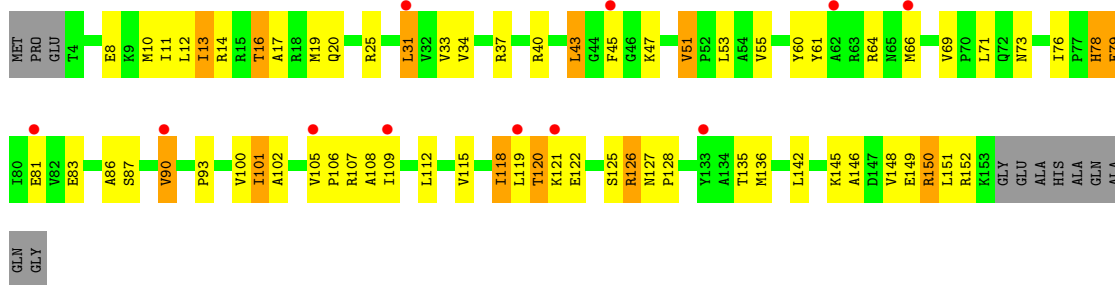
- Molecule 4: 30S ribosomal protein S4



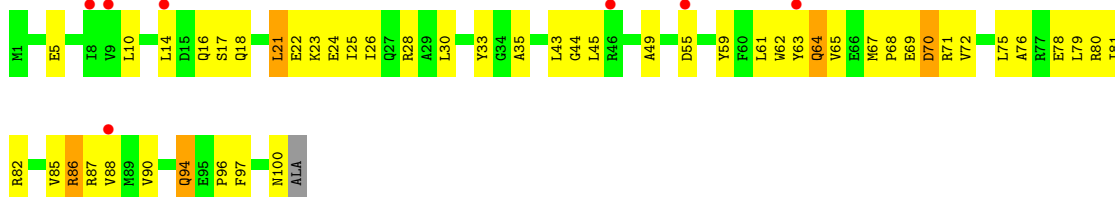
- Molecule 5: 30S ribosomal protein S5



• Molecule 5: 30S ribosomal protein S5



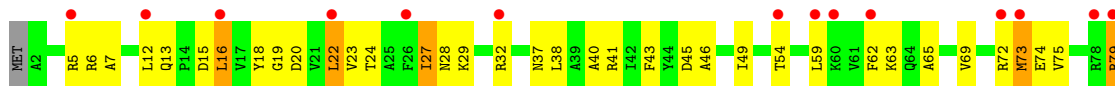
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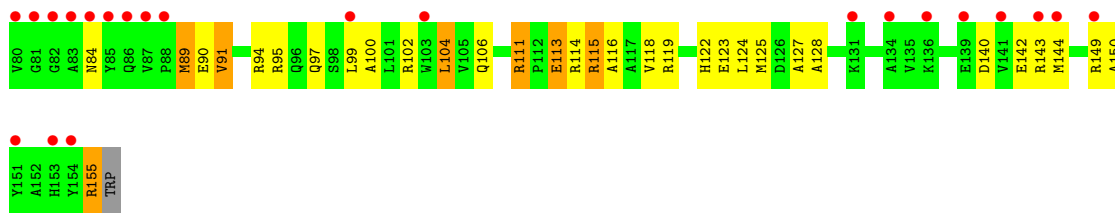


• Molecule 6: 30S ribosomal protein S6

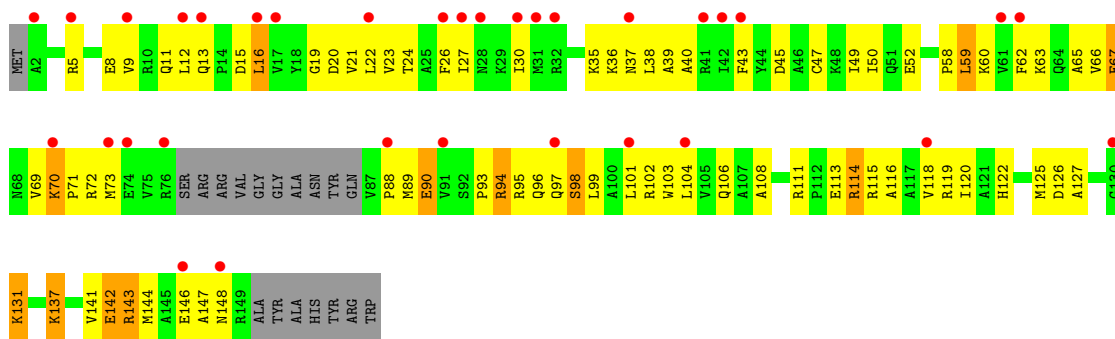


• Molecule 7: 30S ribosomal protein S7

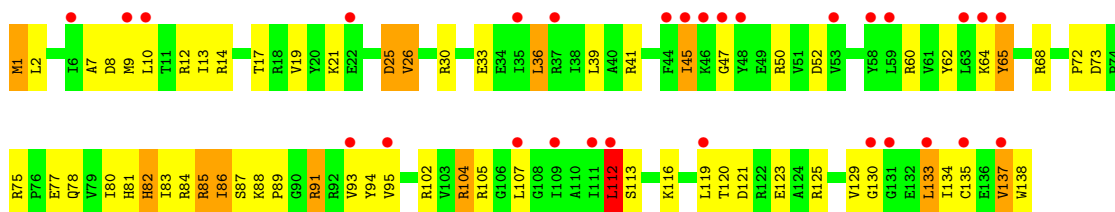




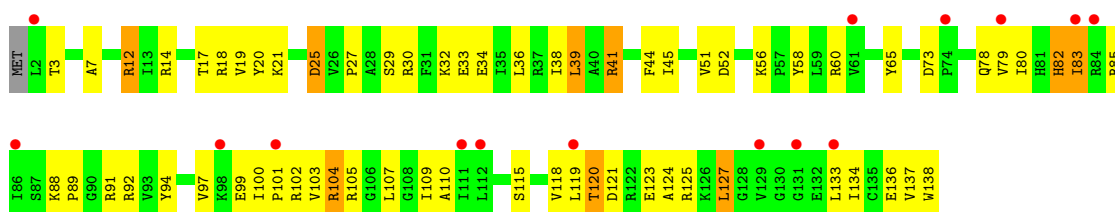
• Molecule 7: 30S ribosomal protein S7



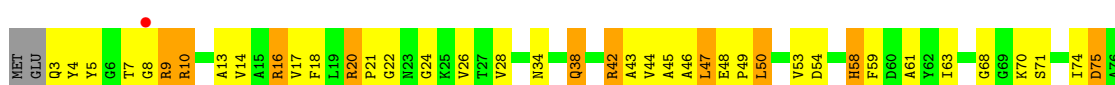
• Molecule 8: 30S ribosomal protein S8

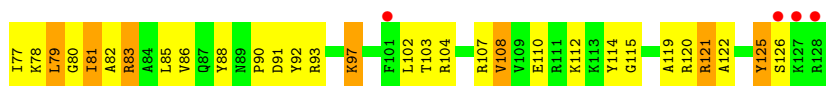


• Molecule 8: 30S ribosomal protein S8

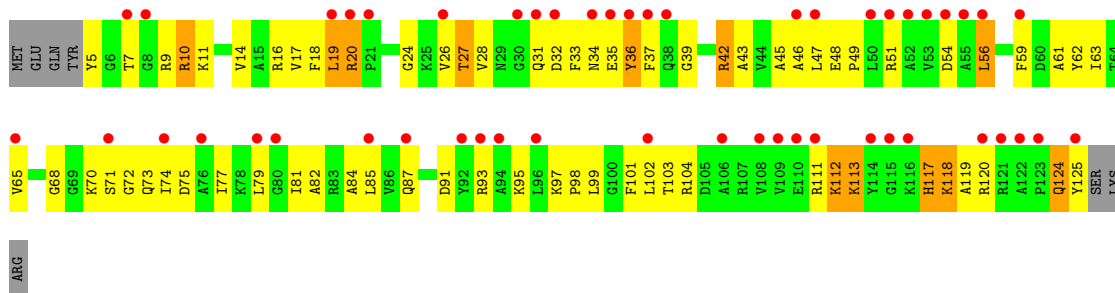
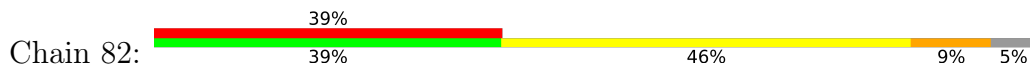


• Molecule 9: 30S ribosomal protein S9

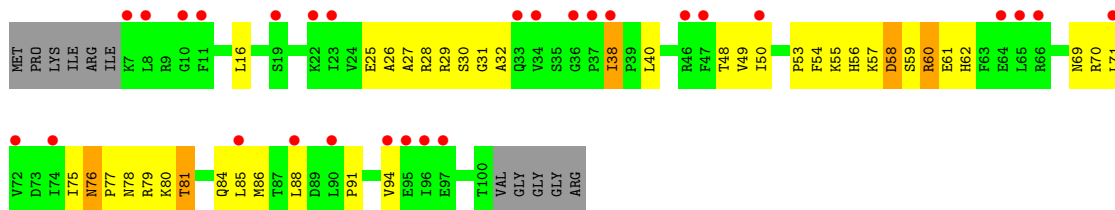




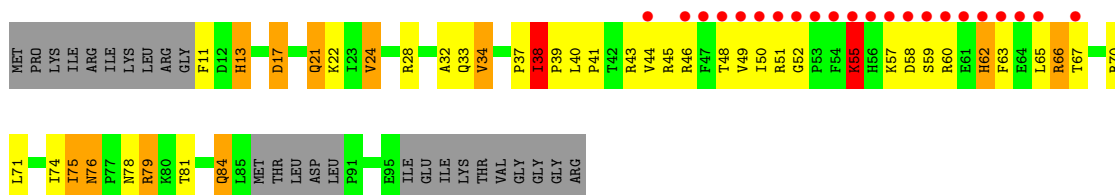
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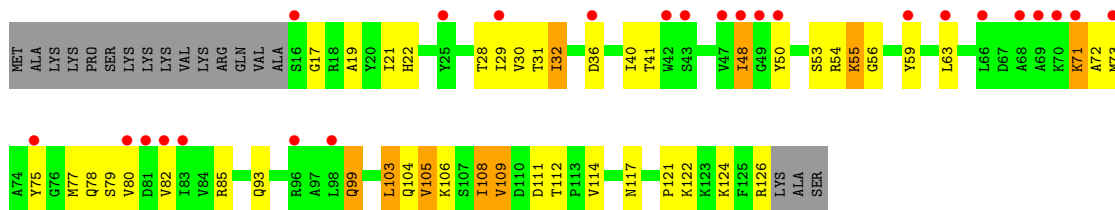
• Molecule 10: 30S ribosomal protein S10



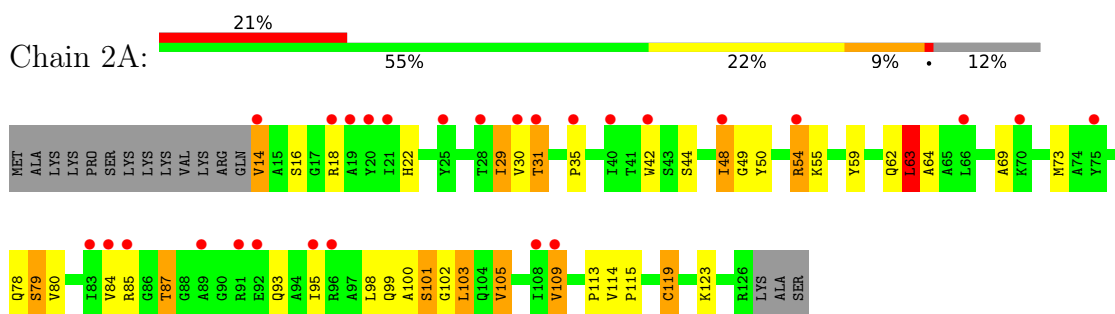
• Molecule 10: 30S ribosomal protein S10



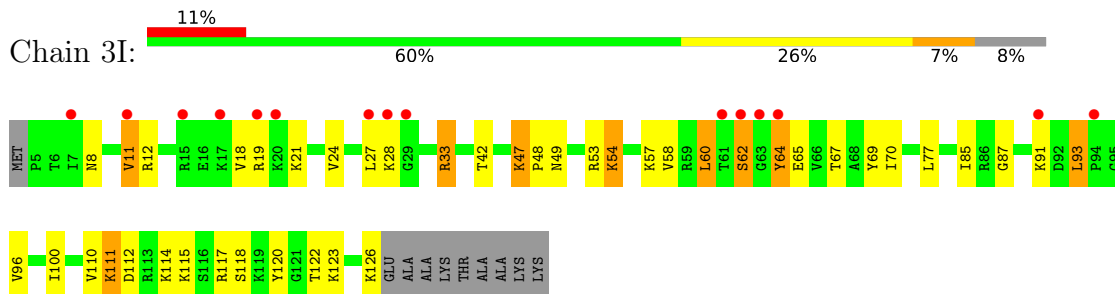
• Molecule 11: 30S ribosomal protein S11



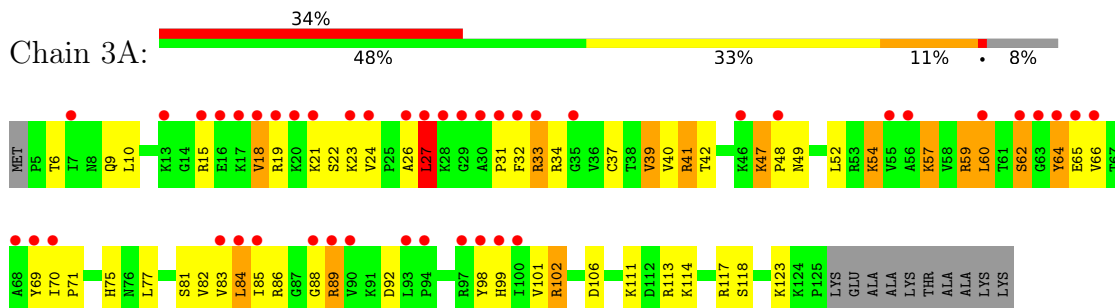
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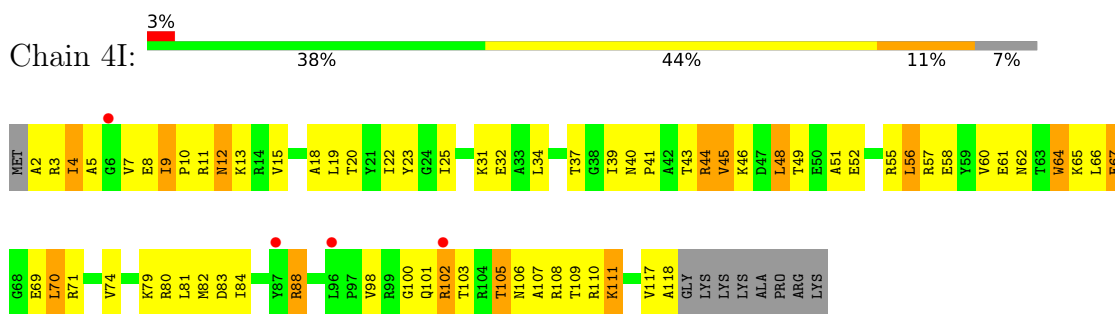
- Molecule 12: 30S ribosomal protein S12



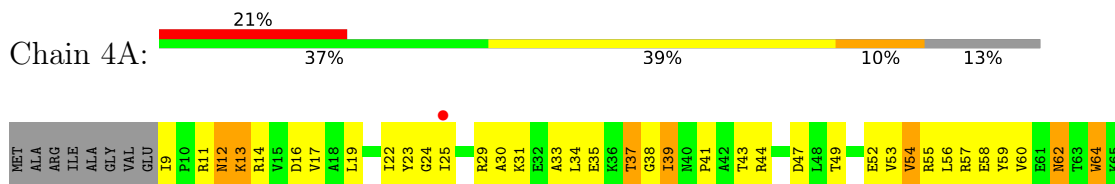
- Molecule 12: 30S ribosomal protein S12

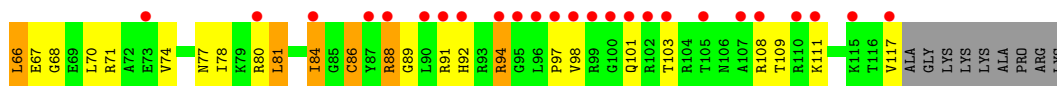


- Molecule 13: 30S ribosomal protein S13

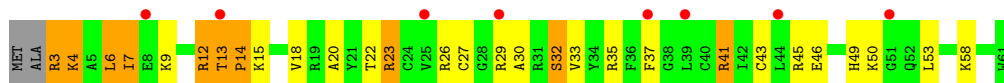


- Molecule 13: 30S ribosomal protein S13





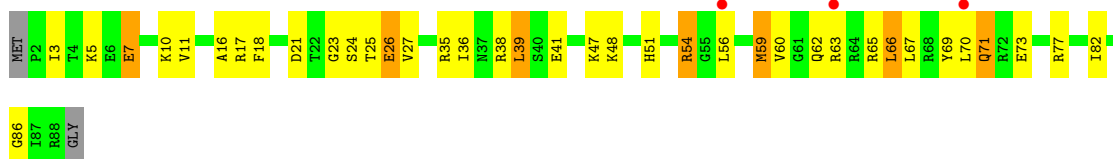
- Molecule 14: 30S ribosomal protein S14 type Z



- Molecule 14: 30S ribosomal protein S14 type Z



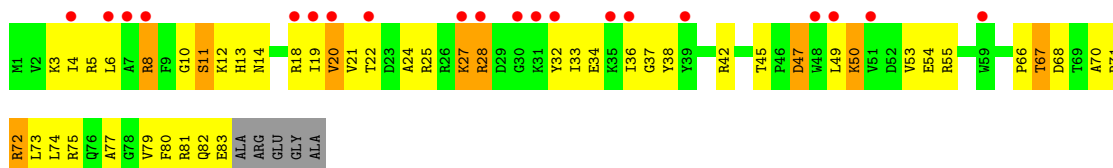
- Molecule 15: 30S ribosomal protein S15



- Molecule 15: 30S ribosomal protein S15

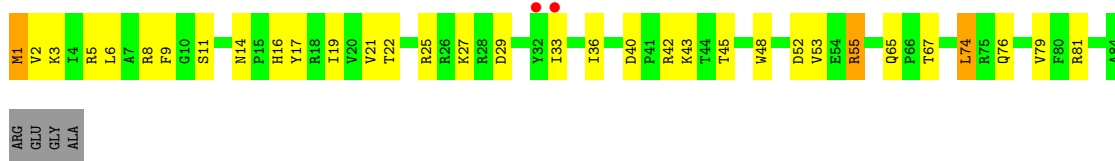


- Molecule 16: 30S ribosomal protein S16

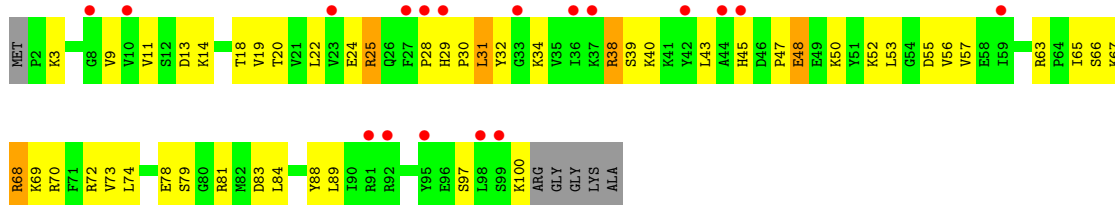


- Molecule 16: 30S ribosomal protein S16

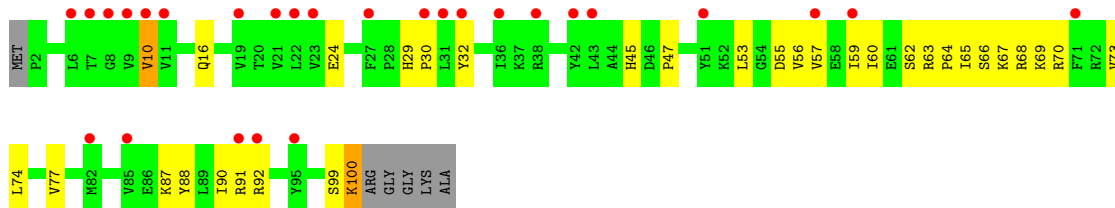




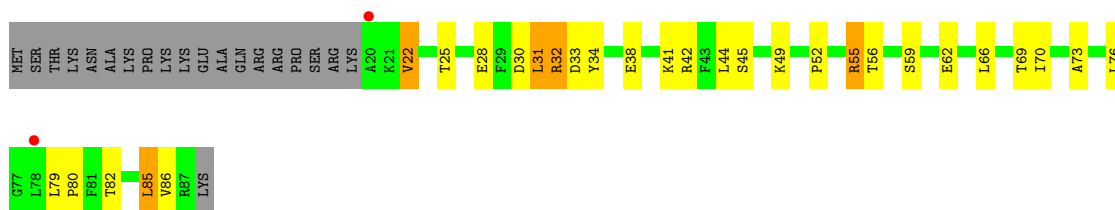
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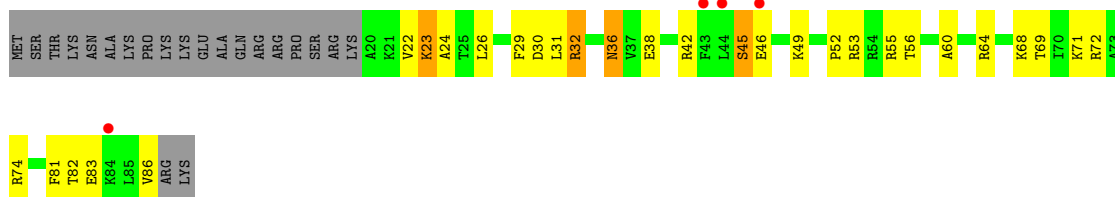
• Molecule 17: 30S ribosomal protein S17



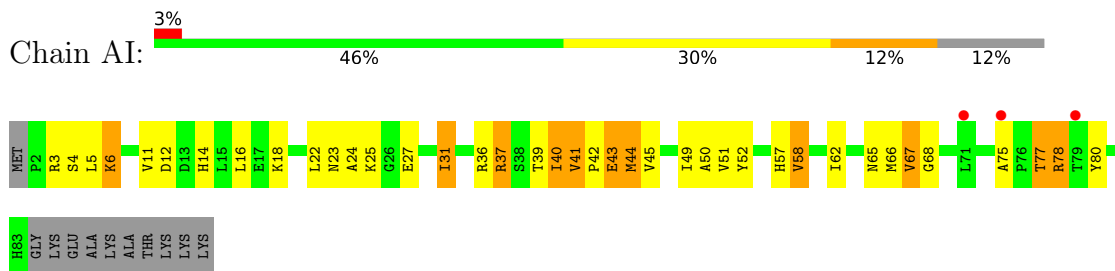
• Molecule 18: 30S ribosomal protein S18



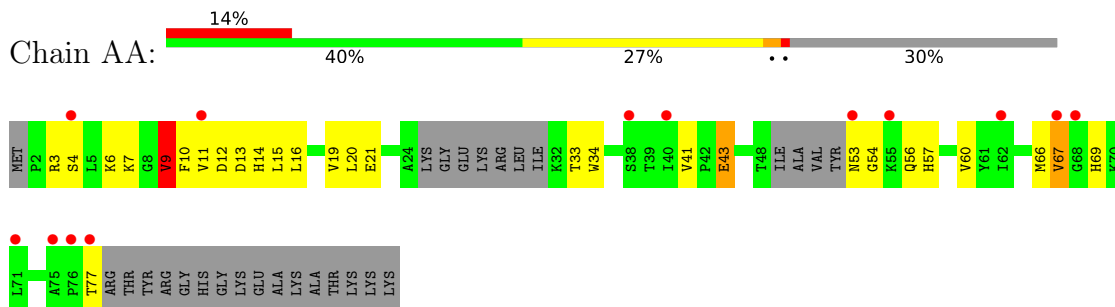
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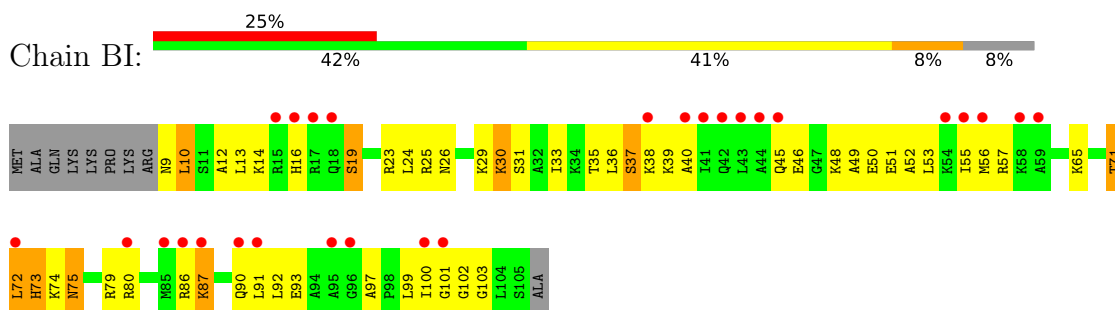
- Molecule 19: 30S ribosomal protein S19



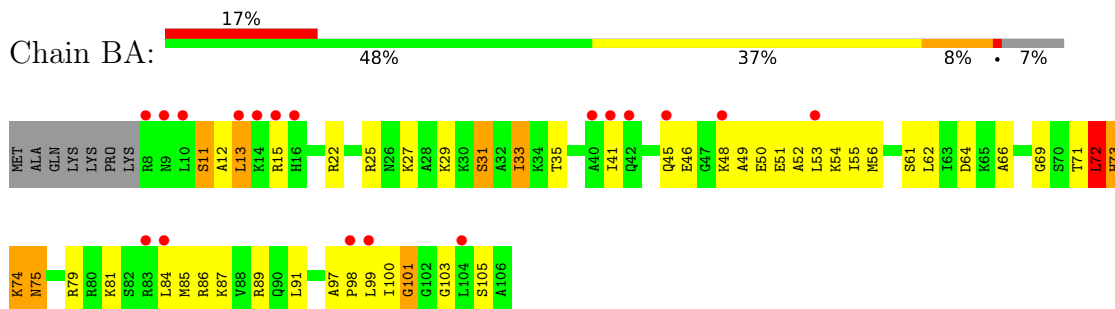
- Molecule 19: 30S ribosomal protein S19



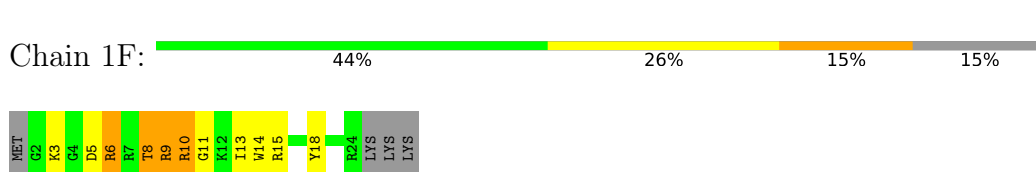
- Molecule 20: 30S ribosomal protein S20



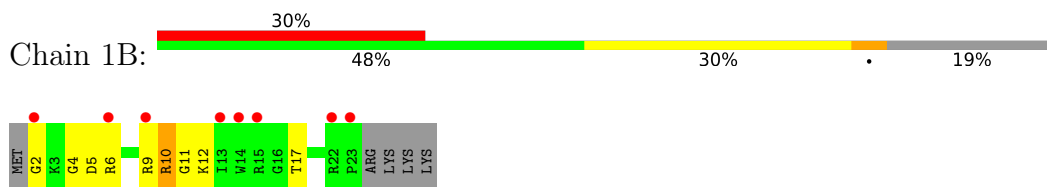
- Molecule 20: 30S ribosomal protein S20



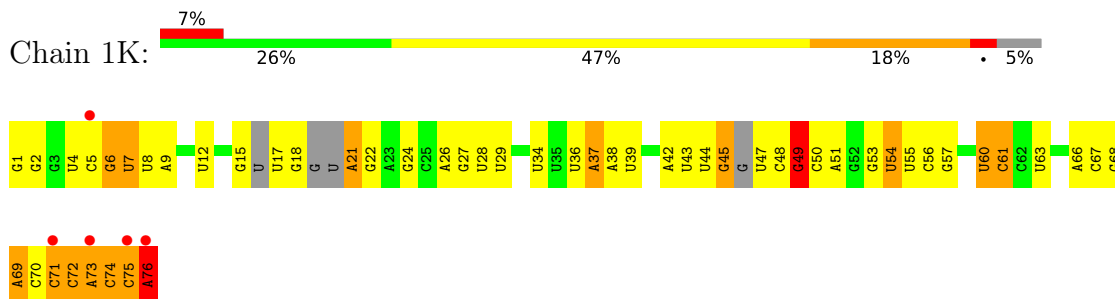
- Molecule 21: 30S ribosomal protein Thx



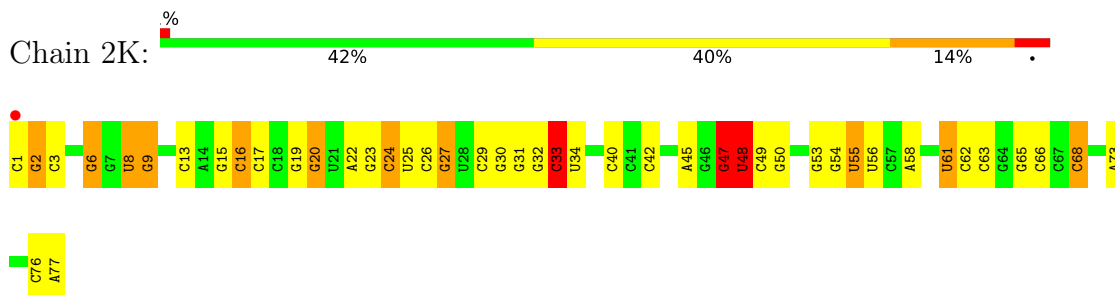
- Molecule 21: 30S ribosomal protein Thx



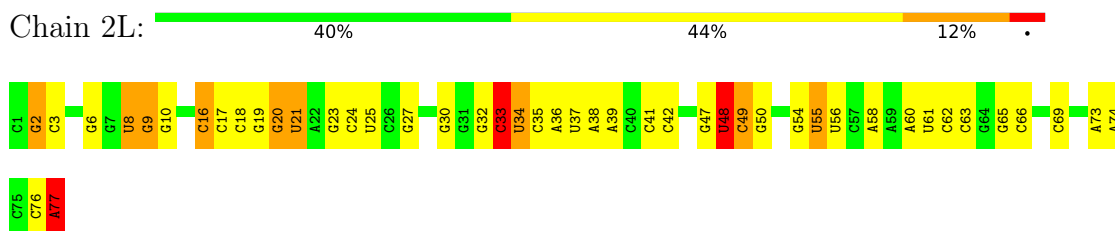
- Molecule 22: tRNA^{Lys}



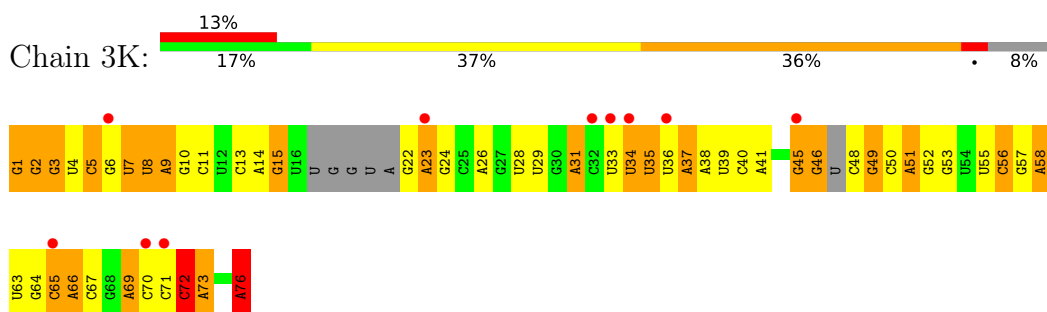
- Molecule 23: tRNA^{fMet}



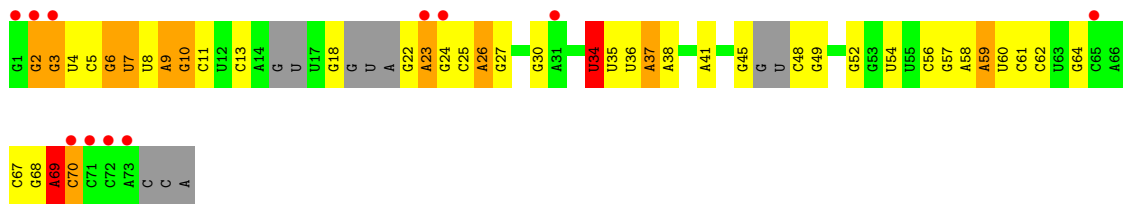
- Molecule 23: tRNA^{fMet}



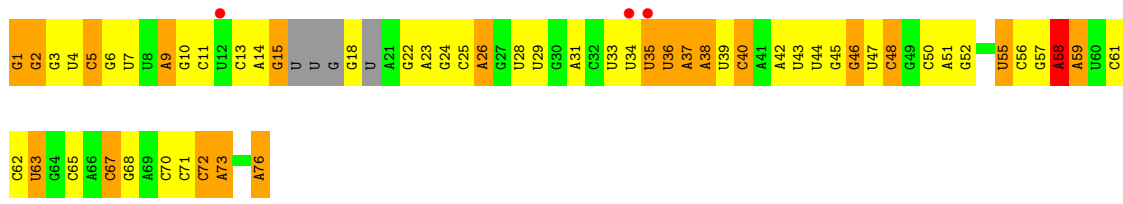
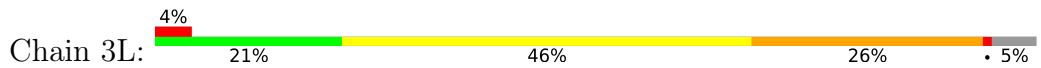
- Molecule 24: tRNA^{Lys}



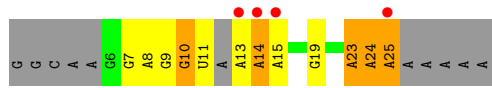
- Molecule 24: tRNA^{Lys}



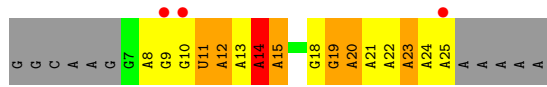
• Molecule 24: tRNALys



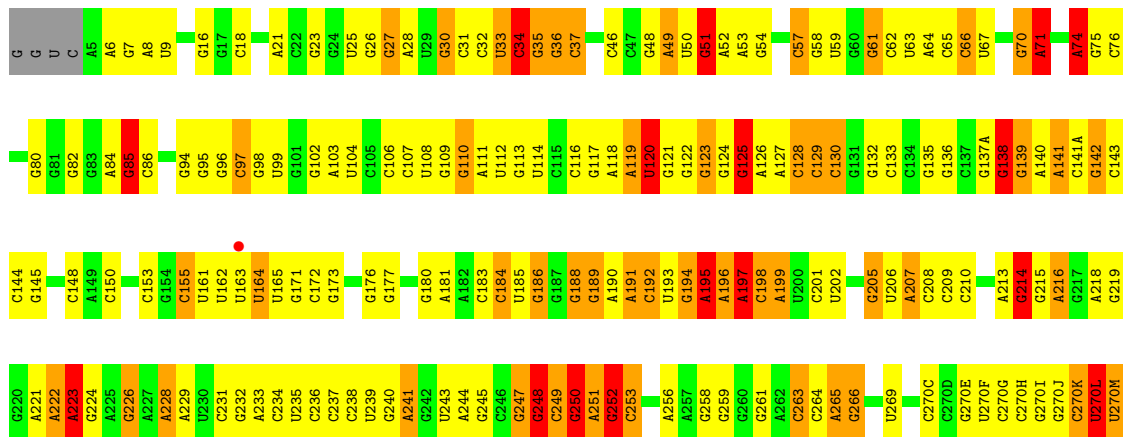
• Molecule 25: mRNA



• Molecule 25: mRNA

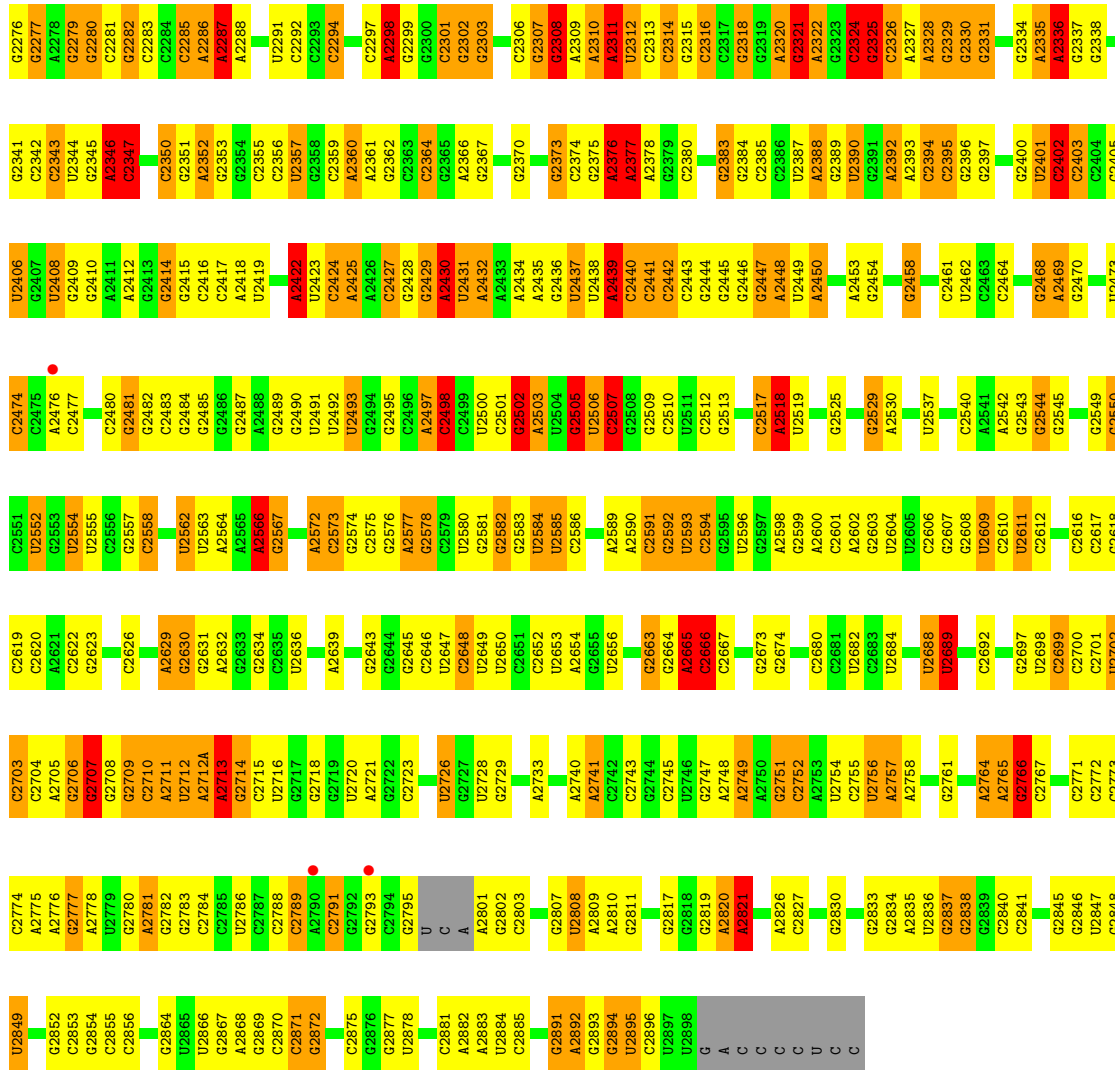


• Molecule 26: 23S ribosomal RNA

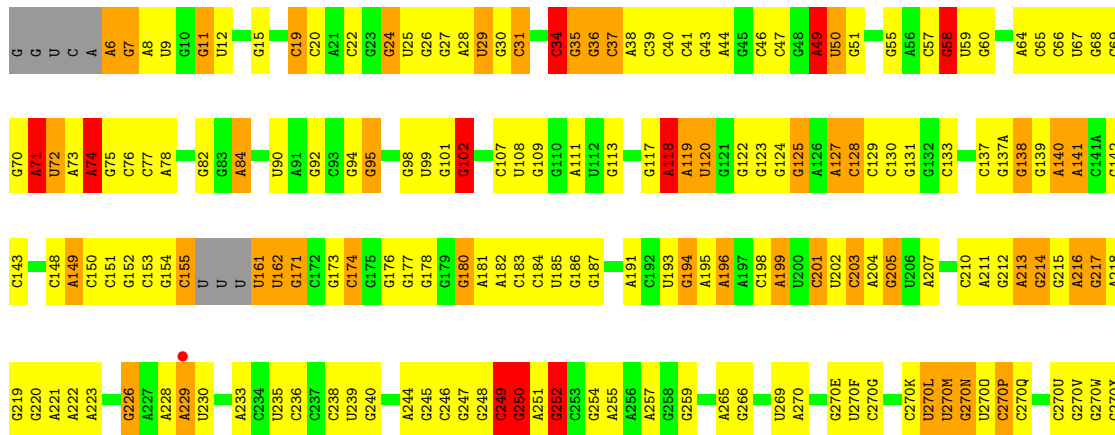


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G2216	A2134	C2065	U1935	C1767	A1664	C1600	U1536	C1407	C1407	G1346	A1278
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A2219	C2137	U2068	A1938	G1771	C1669	A1602	G1538	A1349	G1410	G1349	G1281
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C2222	C2140	A2071	G1839	G1774	U1671	C1605	U1541	U1352	G1413	U1352	A1294
C2223	C2141	G2072	U1840	C1775	C1672	G1606	G1542	A1353	G1414	A1353	C1290
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U2226	G2144	U2075	C1843	U1776	G1675	A1609	C1545	G1356	G1417	G1356	U1293
G2227	U2145	A2076	A1847	U1777	A1676	A1610	A1545	U1357	C1417	U1357	C1293
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U2231	G2149	C2081	G1858	C1781	U1680	C1616	C1551	A1361	G1423	G1361	G1297
C2232	G2149	A2082	A1859	C1782	G1681	A1616	G1552	C1362	G1424	C1362	C1298
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G2234	U2151	C2084	U1955	A1784	C1683	A1618	A1554	G1364	G1426	G1364	U1300
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C2254	A2169	C2105	U1984	A1803	U1706	U1639	A1581	C1384	C1447	A1384	A1321
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C2264	A2114	C1982	G1904	C1806	G1734	A1819	C1586	A1394	G1456	A1394	A1331
U2265	G2181	C1982	C1905	G1806	G1735	U1820	A1587	A1395	A1457	A1395	G1332
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A2267	G2186	G2048	U1984	G1811	C1753	A1822	C1589	A1460	G1459	A1460	G1334
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G2270	U2189	G2052	A1916	A1819	G1734	G1648	C1584	A1463	A1463	A1463	G1337
G2271	G2190	G2053	U1917	U1820	G1735	G1649	A1585	A1464	A1464	A1464	G1338
U2272	G2191	A2054	U1918	A1821	C1754	A1821	G1587	A1465	A1465	A1465	G1339
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A2274	G2124	G2056	U1991	G1823	C1756	A1823	U1589	A1467	A1467	A1467	G1341
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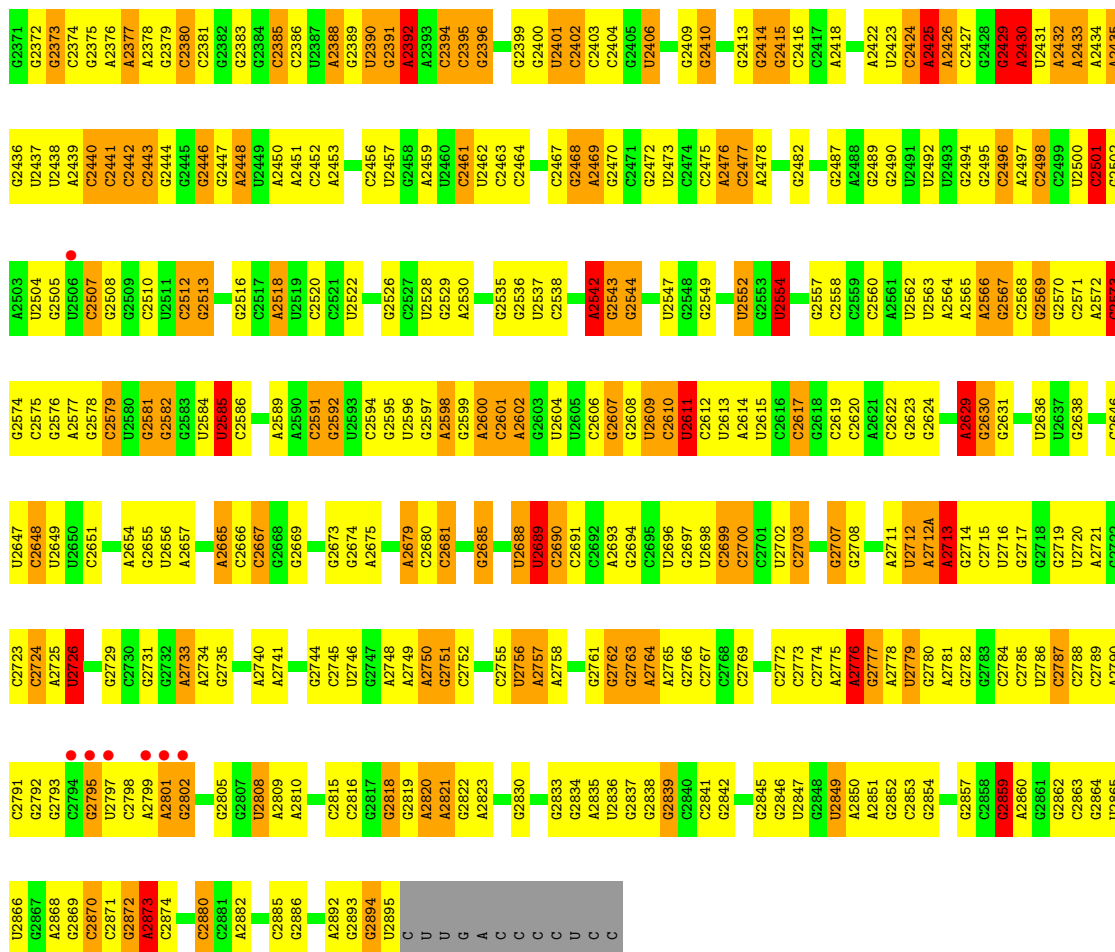


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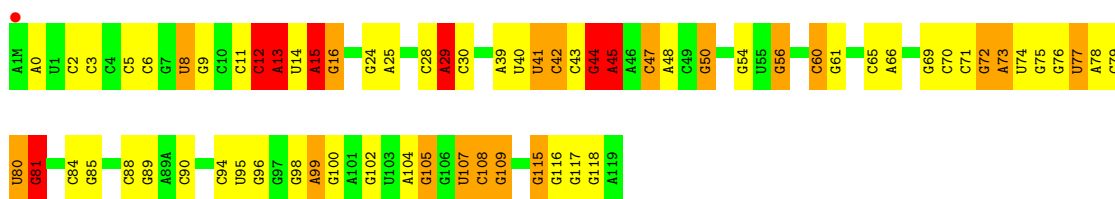
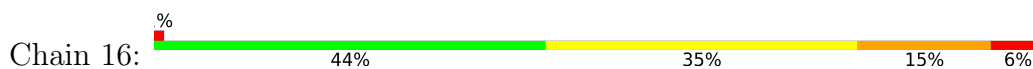


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A449	G362	A449	U606	G654R	G729	A793	C956	G922	G988	C	G112	C1180	C1258
G450	G363	G450	U607	G654S	U922	C796	C957	U922	G989	C	U113	C1181	G1259
C451	A363A	C451	A608	A654T	C730	C797	U858	C923	G990	A	G114	A1182	G1260
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G452	G363C	G452	A613	A655	C732	C799	U860	G925	C992	G	C116	C1185	C1261
C273C	G363D	C273C	U613	A656	G733	A800	A861	A926	G993	A	G117	C1185	A1265
C273D	U363E	C273D	G617	U657	A734	G801	G862	G928	G994	U	C118	U1188	G1266
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G274	G366	G274	G618B	C662	G737	A804	C865	G932	G997	U	C121	A1269	A1269
G275	G370	G275	G620	G663	G738	G805	A866	A933	C998	G	G122	G1191	G1270
A276	A371	A276	G621	G664	G739	G806	G867	G934	U999	G	A122	A1194	G1271
C277	G372	C277	A621	C664	U740	U807	U868	C935	C1000	C	G125	G1195	U1272
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A283	C376	A283	C624	G669	G743	U810	U871	G939	U1003	A	A128	U1199	U1274
C288	C377	C288	A627	A670	G744	U811	A872	G940	C1004	G	A129	C1200	C1279
A289	C377	A289	G627	A671	G745	C812	G873	A941	C1005	A	U130	C1201	G1279
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C296	U384	C296	G629	C672	U747	C814	A878	G945	C1007	G	A132	G1203	A1284
C297	G385	C297	G630	C673	G748	C815	A879	G946	C1008	C	U133	A1204	G1285
G304	G386	G304	A631	A674	C749	C816	G880	G947	A	G	C135	U1205	A1286
U305	U387	U305	A632	A675	A750	C817	G881	G948	G	G	U136	U1206	A1287
U306	G388	U306	A633	A676	A751	C818	G882	G949	C	C	G137	G1207	U1288
G307	G388	G307	C634	A677	A752	C819	G883	G950	U	U	G138	G1209	U1288
G308	G389	G308	C635	A678	C753	A820	A820	G951	A	A	C139	A1210	C1289
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A310	G391	A310	G637	C680	C755	U822	U822	G953	U	U	C141	G1215	G1291
G312	G392	G312	G638	G681	C756	G823	G823	A953	G	G	U142	G1216	U1292
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A324	G396	A324	G642	U688	A761	U827	A890	A957	A	A	G147	C1222	G1299
U328	G399	U328	C645	A689	A764	U828	A892	U958	C	C	A148	C1223	U1300
G329	U403	G329	A646	A690	G765	A829	A829	A959	A	A	G149	G1224	A1301
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G333	C409	G333	C651	G695	C772	A835	C836	C967	U	U	G155	U1240	A1307
C334	C409	C334	A654	G697	U773	A836	C837	G968	C	C	A156	A1241	A1308
C335	C410	C335	A654A	C697	A774	A837	C838	G969	U	U	G157	G1239	U1312
C336	G411	C336	C654B	G702	G775	A838	C839	G970	A	A	C161	U1240	U1313
A347	G411	A347	G654C	G703	G776	A839	C840	C971	C	C	G162	A1241	C1314
U350	U421	U350	G654D	U703	A777	A841	C841	C972	U	U	G163	G1244	C1315
G351	A428	G351	C	G704	G778	A842	C842	G973	U	U	G164	G1245	U1316
G352	A443	G352	C	A705	U779	A843	C843	A974	C	C	U165	A1246	A1317
G353	C444	G353	C	A706	G780	A844	C844	C974	U	U	C166	A1247	A1321
	C446		C	G707	A781	A845	C845	C975	U	U	G169	G1248	A1322
			C	C	A782	A846	C846	G976	A	A	C170	G1249	A1323
			C	C	A783	A847	C847	A980	C	C	G171	U1250	U1324
			C	C	A784	A848	C848	A981	A	A	G173	G1251	G1325
			C	C	A785	A849	C849	A982	A	A	A174	U1252	U1326
			C	C	A786	A850	C850	A983	A	A	U175	G1253	U1327
			C	C	A787	U851	C851	A984	U	U	G176	A1254	G1328
			C	C	A788	G852	C852	A985	U	U	C177	U1255	U1329
			C	C	A603	G853	C853	C985	U	U	C1049	U1255	U1329

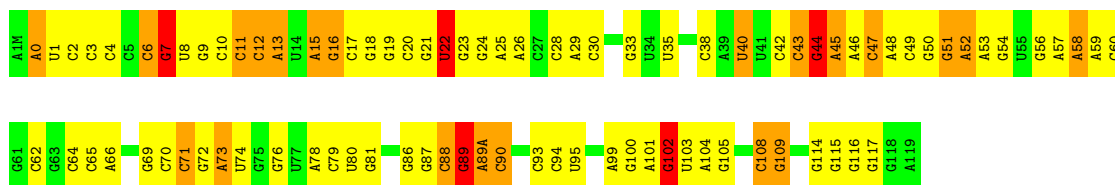
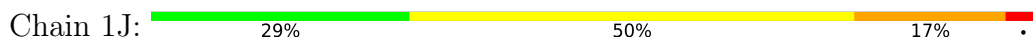
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C1333	G1467	C1468	G1552	U1629	A1701	A1791	A1872	G1949	G2027	G2093	A2158	U2246	G2308
G1338	C1404	A1469	C1556	G1635	G1704	C1794	G1878	G1950	U2028	U2099	G2159	G2247	A2309
G1339	U1405	A1471	C1557	G1638	U1709	C1795	A1885	G1951	G2100	G2101	G2160	C2248	A2310
U1341	U1406	A1472	A1558	U1639	C1710	U1796	A1886	G1952	A2030	G2102	G2161	U2249	U2312
U1342	C1408	A1476	A1559	G1640	C1711	U1797	C1887	G1953	A2031	U2103	C2162	G2250	C2313
A1343	C1411	G1475	G1560	U1641	U1716	U1798	C1888	U1954	G2032	C2104	C2163	G2251	C2314
G1344	A1412	A1477	A1566	A1641	G1717	G1799	C1889	A1960	U2034	G2105	G2164	G2252	G2315
C1345	G1413	G1478	A1567	G1642	G1718	G1799	A1889	C1961	G2035	G2106	G2165	G2253	C2316
G1348	G1416	U1482	G1568	G1643	G1719	C1800	A1890	C1962	G2036	C2107	U2167	G2254	G2317
C1349	C1417	G1483	A1569	G1644	G1720	G1801	A1891	U1963	G2037	C2108	G2168	G2255	C2318
C1350	C1418	U1484	A1570	G1645	U1716	U1805	C1894	G1964	G2038	U2109	A2170	U2257	A2319
C1351	G1419	G1484	A1571	C1646	U1717	C1806	C1895	C1965	G2039	G2110	A2171	C2258	G2320
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A1353	G1421	A1486	C1574	C1648	U1730	U1810	G1899	C1967	U2041	G	A2173	C2260	G2322
G1354	G1422	U1487	C1577	G1651	G1731	A1811	A1900	G1968	A2042	U2113	C2174	U2261	C2323
G1355	G1423	C1493	C1578	A1652	A1732	G1811	A1901	A1969	C2043	A2114	C2175	C2262	G2324
G1356	G1424	A1494	U1578	G1653	G1733	A1812	C1902	A1970	G2046	G2115	A2176	C2263	G2325
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A1360	C1428	U1510	A1510	G1658	C1752	G1816	G1906	C1974	A2051	G2119	G2185	G2270	G2330
G1361	U1428	C1505	C1505	U1659	G1753	U1918	C1907	G1975	G2052	G2120	G2186	G2271	G2331
A1362	G1429	G1506	C1506	C1660	G1754	A1819	C1908	G1985	G2053	G2121	G2187	G2272	U2332
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A1367	G1434	C1515	C1515	A1665	G1759	G1824	U1915	G1992	A2057	A2126	C2191	G2277	G2337
G1368	G1435	U1516	C1516	A1666	G1760	G1825	A1916	U1993	A2058	G2127	G2192	G2278	G2338
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A1373	G1442	G1527	G1595	A1669	A1763	C1828	A1919	G1998	G2061	U2130	A2198	G2281	G2341
G1374	G1443	G1522	C1598	C1670	G1764	A1829	G1921	G1999	G2063	U2132	C2207	G2282	C2342
C1375	U1444	G1522	C1599	U1671	G1764	C1830	G1922	G2000	C2064	G2133	C2207	C2283	U2344
C1376	A1444	G1525	C1600	G1674	C1767	G1831	C1925	G2001	C2065	A2134	A2286	A2287	G2345
A1379	C1445	G1526	G1601	C1675	C1768	U1832	U1926	A2001	C2066	A2135	G2288	A2288	A2346
G1380	C1446	G1527	U1602	A1676	G1771	U1833	A1927	G2002	G2067	C2136	G2289	A2289	C2347
G1381	G1447	A1528	A1608	G1677	A1772	C1836	A1928	G2003	U2068	C2137	A2290	G2290	C2350
G1382	U1448	G1530	A1609	G1678	A1773	G1839	G1929	C2006	G2070	C2138	G2291	G2291	G2351
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G1385	C1451	G1534	A1614	G1681	G1776	C1843	G1932	G2009	C2073	C2009	C2142	C2293	C2354
C1386	A1453	U1535	C1615	G1682	U1777	G1844	C1934	G2010	U2074	G2010	C2143	A2227	C2355
C1387	U1454	A1536	A1616	G1685	U1778	G1844	G1935	U2011	U2075	G2011	U2144	G2228	C2356
G1388	G1455	G1537	A1617	C1686	U1779	G1845	U1936	G2012	U2076	A2012	C2145	C2229	U2357
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• Molecule 27: 5S ribosomal RNA

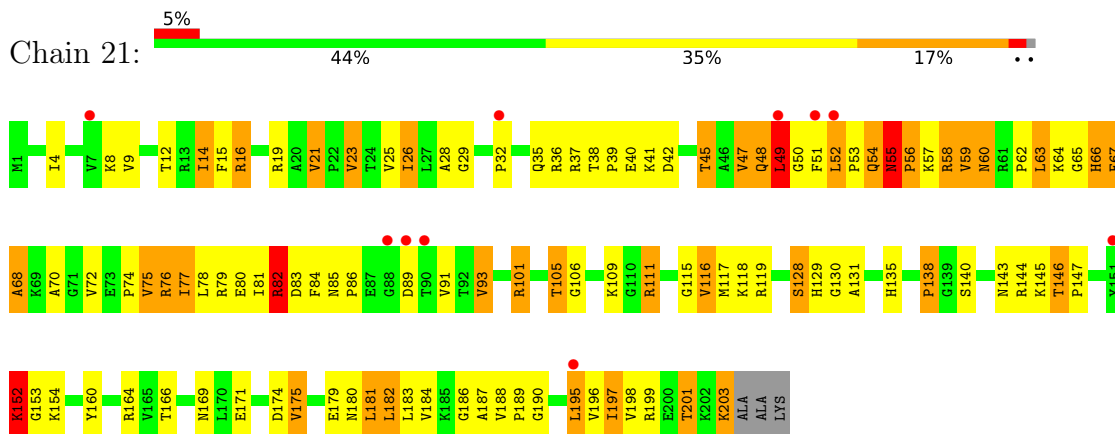


• Molecule 27: 5S ribosomal RNA

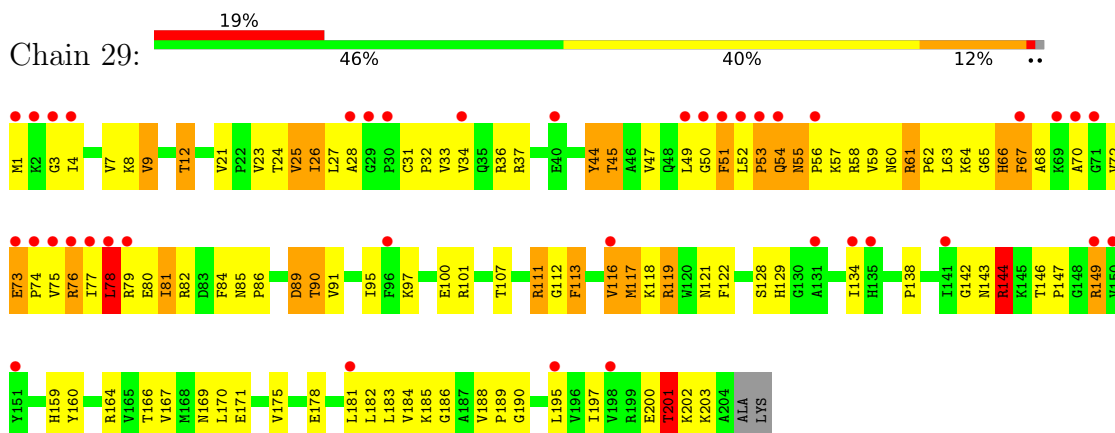


• Molecule 28: 50S ribosomal protein L1

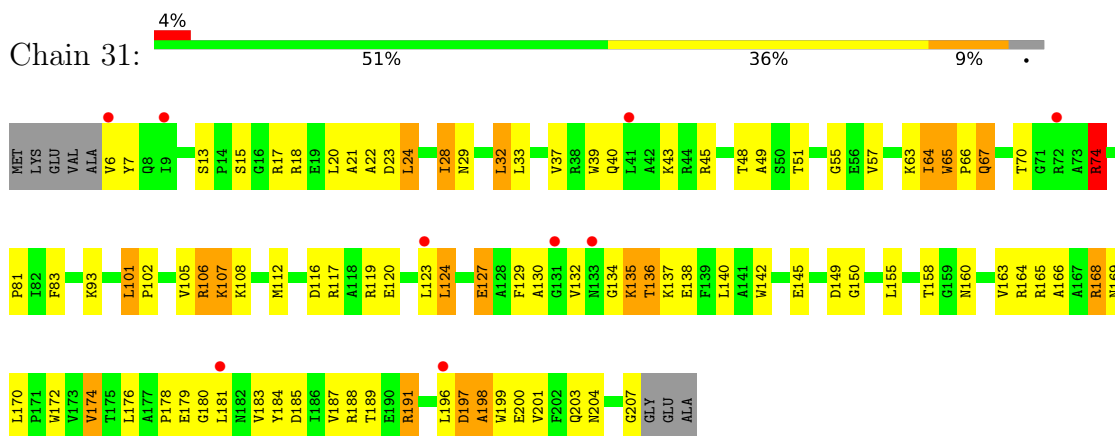
- Molecule 30: 50S ribosomal protein L3



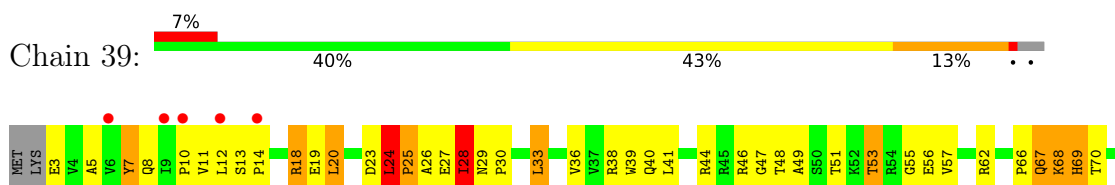
- Molecule 30: 50S ribosomal protein L3

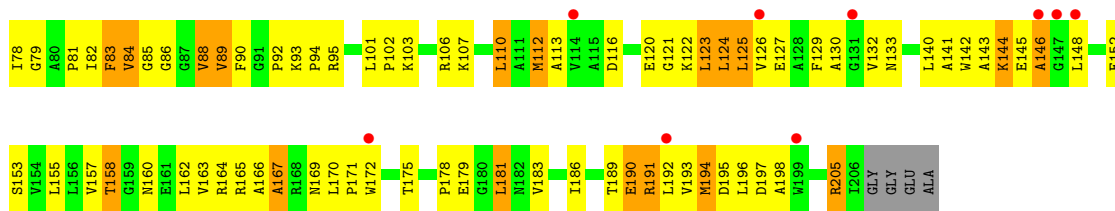


- Molecule 31: 50S ribosomal protein L4

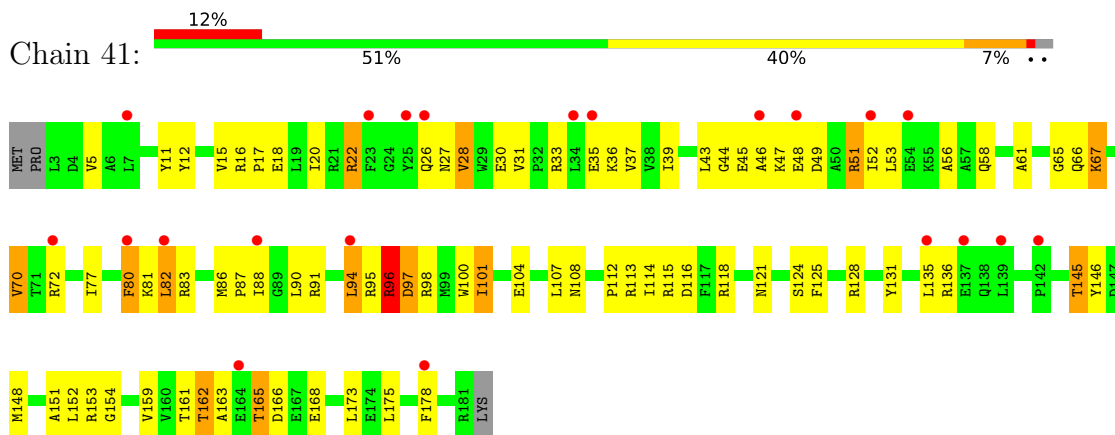


- Molecule 31: 50S ribosomal protein L4

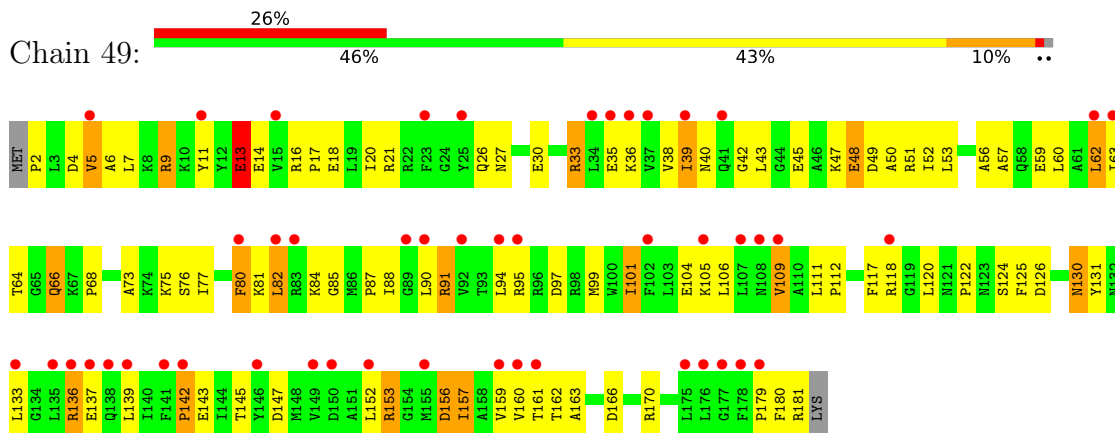




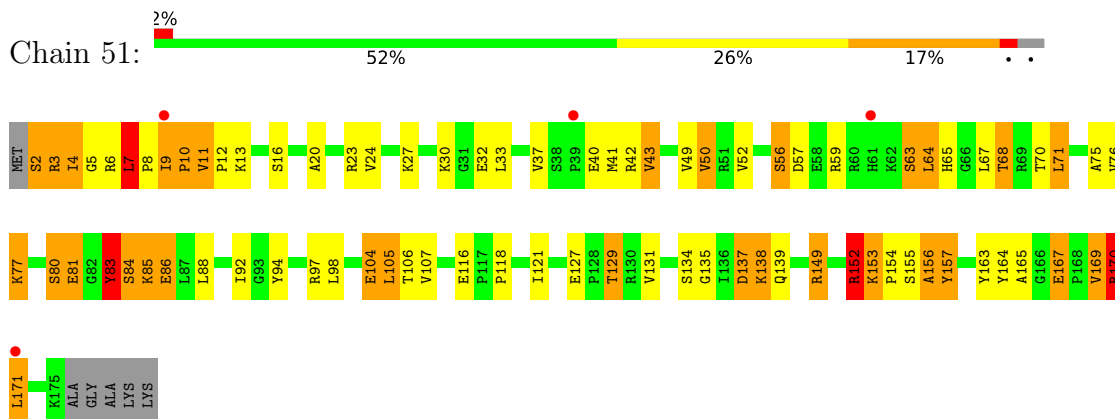
• Molecule 32: 50S ribosomal protein L5

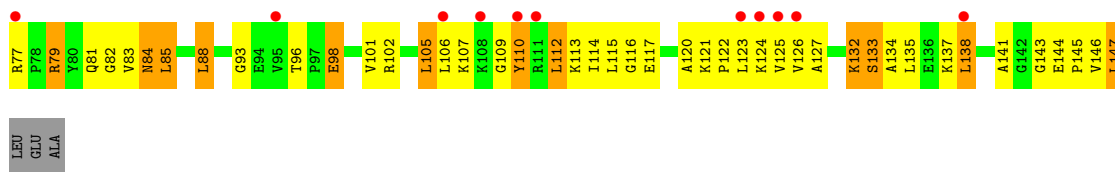


• Molecule 32: 50S ribosomal protein L5

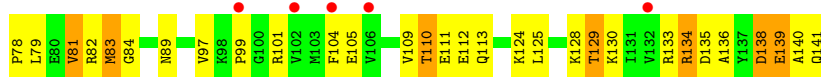


• Molecule 33: 50S ribosomal protein L6

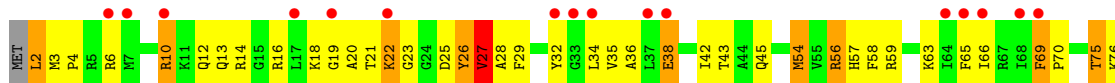
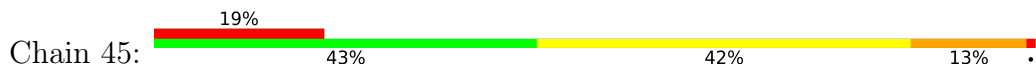




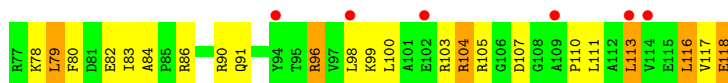
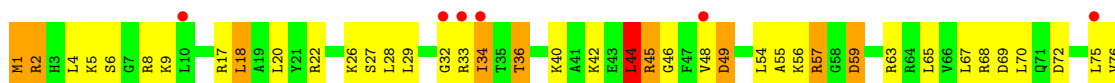
- Molecule 38: 50S ribosomal protein L16



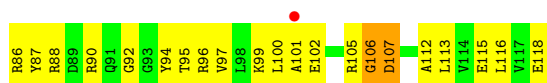
- Molecule 38: 50S ribosomal protein L16



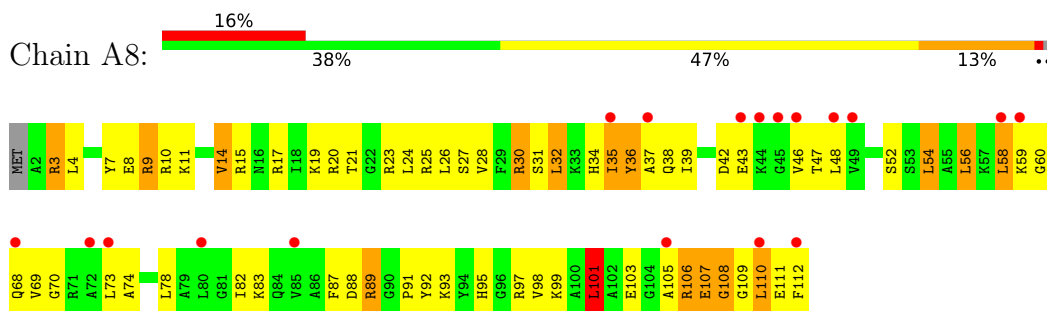
- Molecule 39: 50S ribosomal protein L17



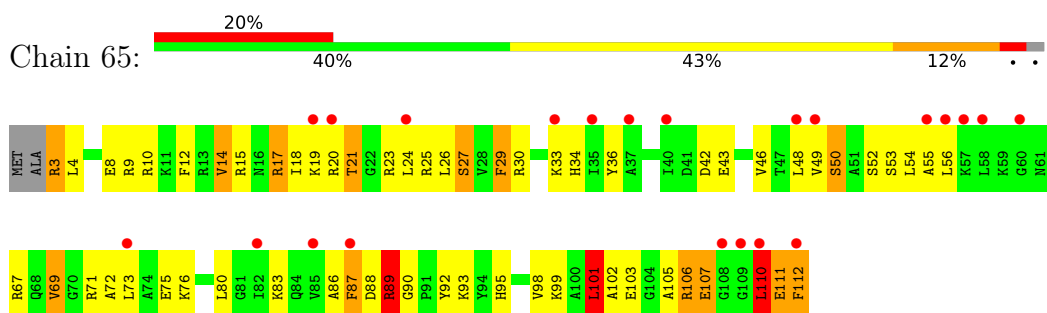
- Molecule 39: 50S ribosomal protein L17



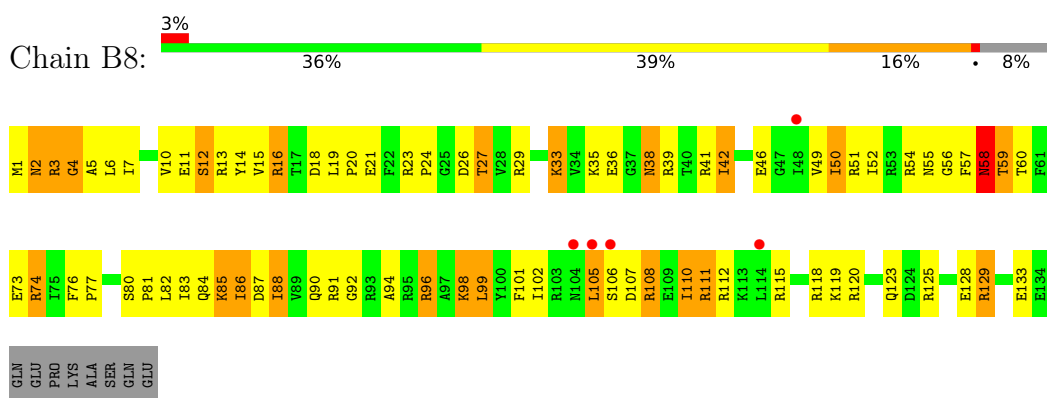
- Molecule 40: 50S ribosomal protein L18



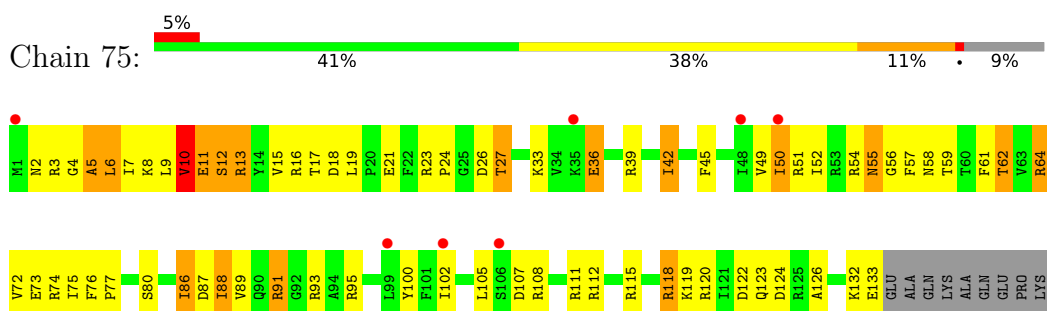
- Molecule 40: 50S ribosomal protein L18



- Molecule 41: 50S ribosomal protein L19

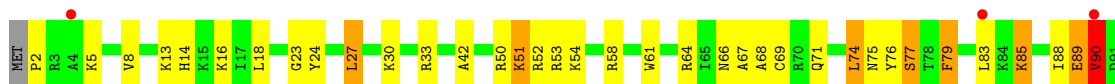


- Molecule 41: 50S ribosomal protein L19

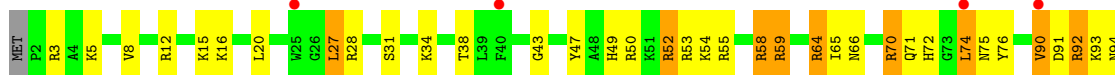


- Molecule 42: 50S ribosomal protein L20

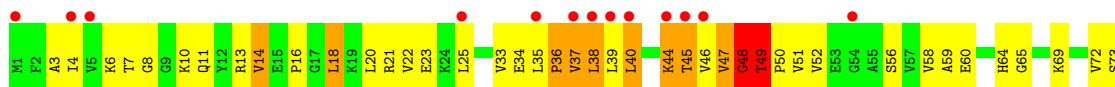




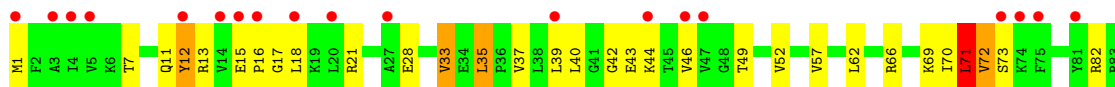
- Molecule 42: 50S ribosomal protein L20



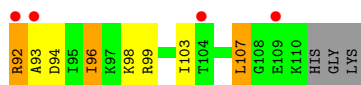
- Molecule 43: 50S ribosomal protein L21



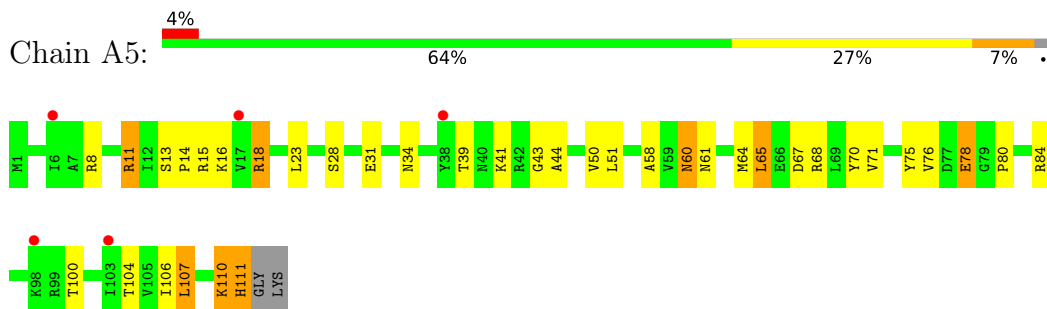
- Molecule 43: 50S ribosomal protein L21



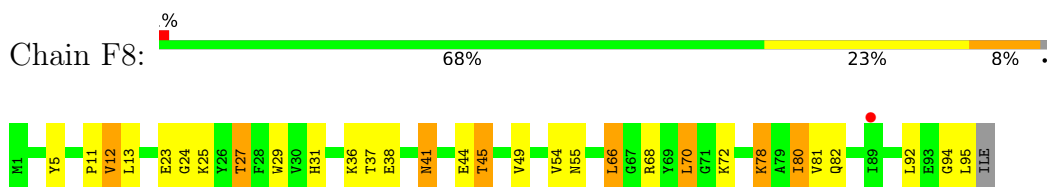
- Molecule 44: 50S ribosomal protein L22



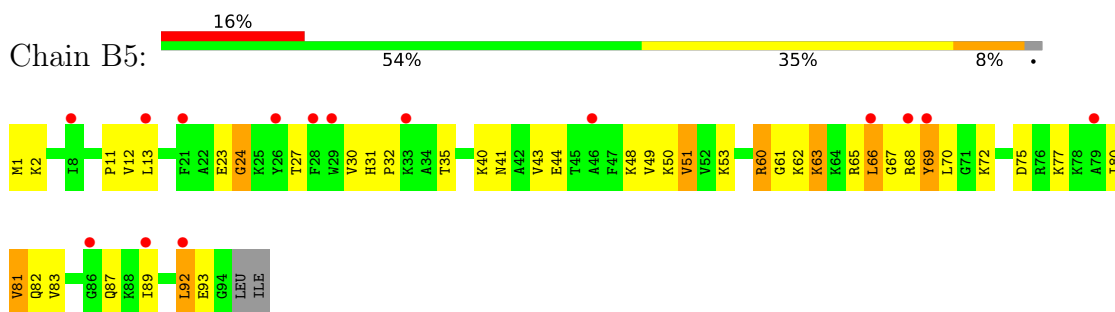
- Molecule 44: 50S ribosomal protein L22



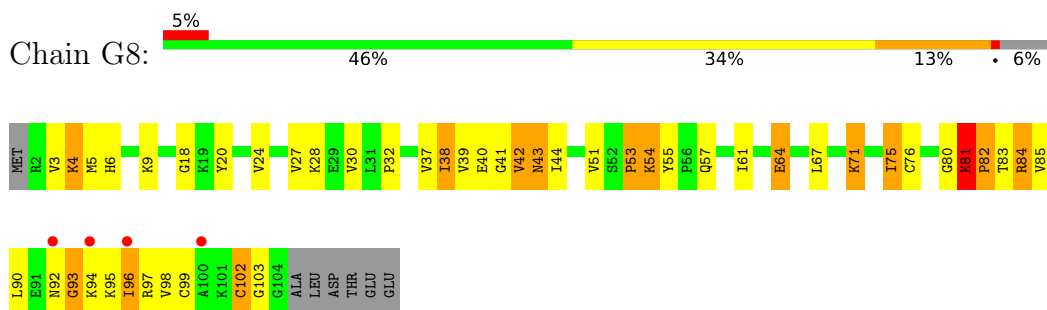
- Molecule 45: 50S ribosomal protein L23



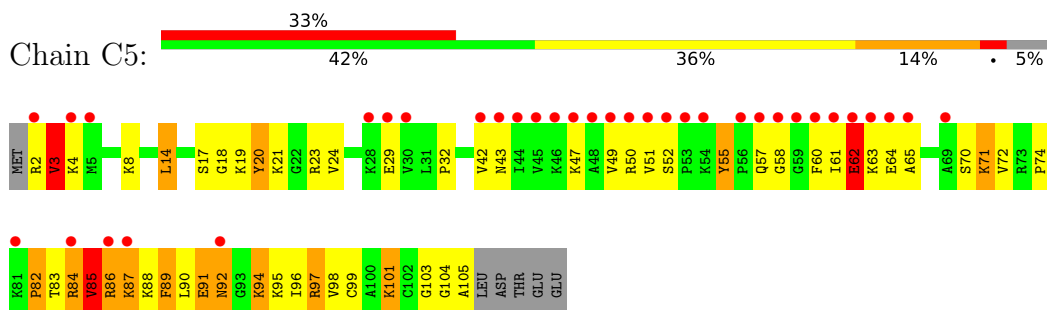
- Molecule 45: 50S ribosomal protein L23

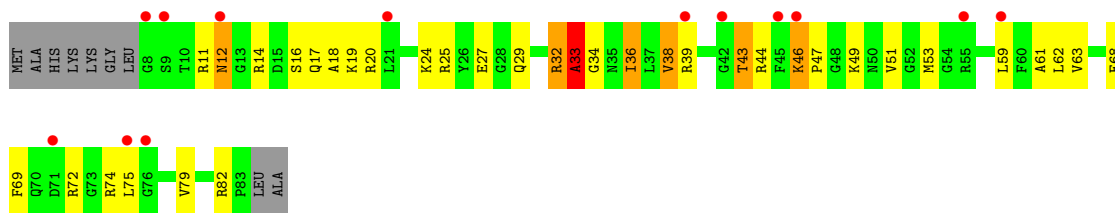


- Molecule 46: 50S ribosomal protein L24

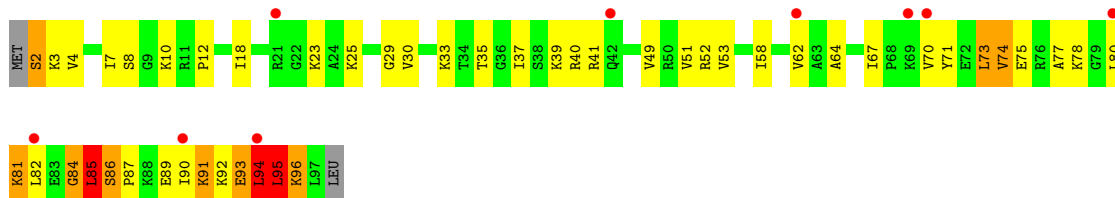


- Molecule 46: 50S ribosomal protein L24

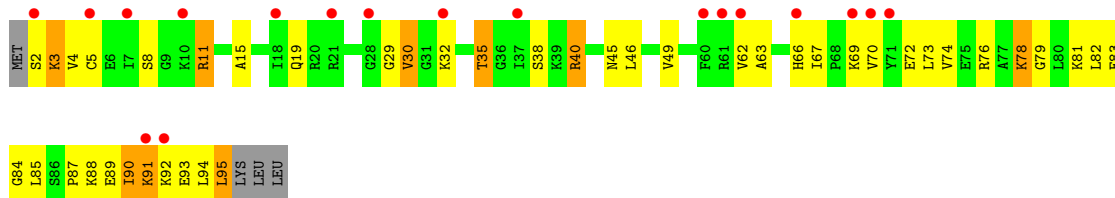




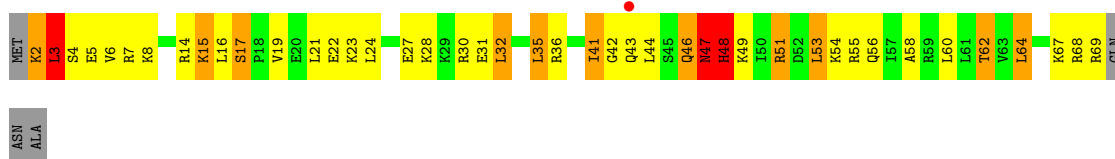
● Molecule 49: 50S ribosomal protein L28



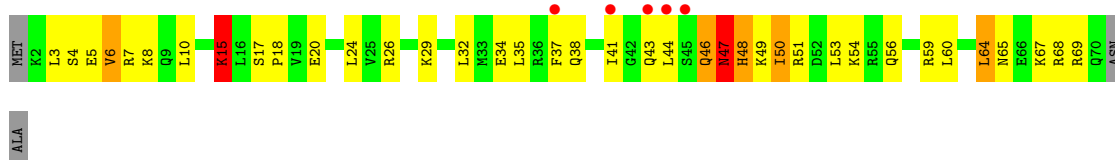
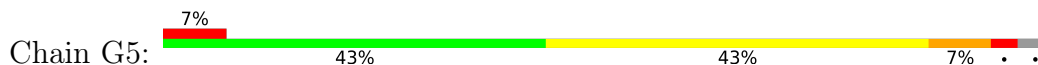
● Molecule 49: 50S ribosomal protein L28



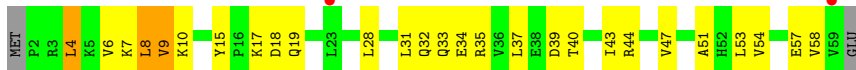
● Molecule 50: 50S ribosomal protein L29



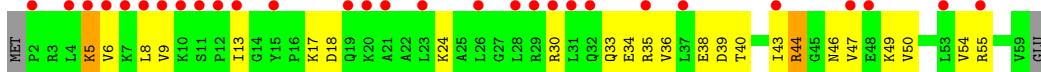
● Molecule 50: 50S ribosomal protein L29



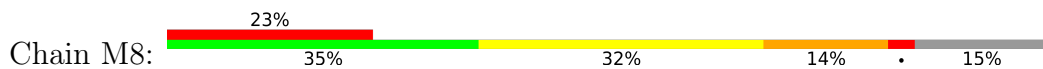
● Molecule 51: 50S ribosomal protein L30



- Molecule 51: 50S ribosomal protein L30



- Molecule 52: 50S ribosomal protein L31



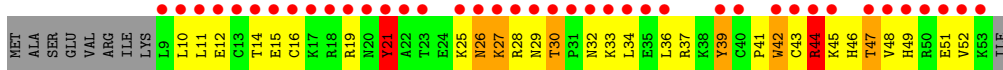
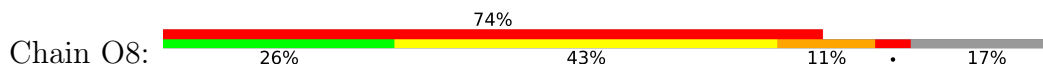
- Molecule 53: 50S ribosomal protein L32



- Molecule 53: 50S ribosomal protein L32



- Molecule 54: 50S ribosomal protein L33



- Molecule 55: 50S ribosomal protein L34

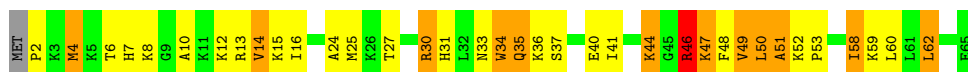




- Molecule 55: 50S ribosomal protein L34



- Molecule 56: 50S ribosomal protein L35



- Molecule 56: 50S ribosomal protein L35



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.30Å 448.80Å 620.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	147.08 – 2.99 161.81 – 2.99	Depositor EDS
% Data completeness (in resolution range)	99.9 (147.08-2.99) 90.8 (161.81-2.99)	Depositor EDS
R_{merge}	0.34	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.92 (at 3.01Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.202 , 0.241 0.202 , 0.241	Depositor DCC
R_{free} test set	2000 reflections (0.17%)	wwPDB-VP
Wilson B-factor (Å ²)	81.3	Xtrriage
Anisotropy	0.342	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 75.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	297444	wwPDB-VP
Average B, all atoms (Å ²)	104.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.49% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, PAR, 5MU, OMC, PSU, 4SU, SF4, 7MG, U8U, T6A, MG, SPE

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	0.70	1/36068 (0.0%)	1.35	292/56287 (0.5%)
1	1G	0.61	0/36282	1.22	170/56623 (0.3%)
2	12	0.37	0/1727	0.61	1/2326 (0.0%)
2	1E	0.40	0/1908	0.63	2/2573 (0.1%)
3	22	0.43	1/1560 (0.1%)	0.56	0/2104
3	2E	0.47	1/1629 (0.1%)	0.62	1/2195 (0.0%)
4	32	0.45	1/1732 (0.1%)	0.64	0/2318
4	3E	0.48	1/1728 (0.1%)	0.62	1/2313 (0.0%)
5	42	0.38	0/1156	0.60	0/1557
5	4E	0.45	0/1158	0.63	0/1559
6	52	0.49	0/855	0.66	1/1154 (0.1%)
6	5E	0.46	0/850	0.61	0/1147
7	62	0.39	0/1122	0.61	0/1500
7	6E	0.39	0/1259	0.54	0/1686
8	72	0.37	0/1127	0.57	0/1517
8	7E	0.41	0/1135	0.64	1/1527 (0.1%)
9	82	0.36	0/971	0.62	0/1304
9	8E	0.39	0/1019	0.61	0/1367
10	1A	1.00	2/658 (0.3%)	0.56	0/885
10	1I	0.40	0/762	0.62	0/1027
11	2A	0.40	0/850	0.61	1/1150 (0.1%)
11	2I	0.47	0/838	0.65	0/1133
12	3A	0.44	0/963	0.66	1/1290 (0.1%)
12	3I	0.63	0/972	0.80	1/1301 (0.1%)
13	4A	0.35	0/889	0.59	0/1192
13	4I	0.50	0/943	0.67	0/1265
14	5A	0.34	0/495	0.65	0/657
14	5I	0.47	0/495	0.69	1/657 (0.2%)
15	6A	0.40	0/740	0.58	0/987
15	6I	0.44	0/740	0.61	0/987
16	7A	0.43	0/721	0.65	0/970
16	7I	0.43	0/716	0.68	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.45	0/836	0.59	0/1117
17	8I	0.51	0/836	0.65	0/1117
18	9A	0.46	0/549	0.67	0/732
18	9I	0.42	0/554	0.63	0/739
19	AA	0.38	0/520	0.67	0/700
19	AI	0.42	0/676	0.72	0/910
20	BA	0.35	0/764	0.67	1/1007 (0.1%)
20	BI	0.50	1/748 (0.1%)	0.63	0/986
21	1B	0.40	0/192	0.61	0/252
21	1F	0.42	0/203	0.71	0/266
22	1K	0.56	0/1589	1.11	6/2464 (0.2%)
23	2K	0.77	0/1721	1.42	16/2682 (0.6%)
23	2L	0.66	1/1721 (0.1%)	1.22	7/2682 (0.3%)
24	1L	0.39	0/1560	0.96	3/2418 (0.1%)
24	3K	0.52	0/1654	1.19	13/2570 (0.5%)
24	3L	0.52	0/1705	1.12	9/2650 (0.3%)
25	4K	0.74	0/473	1.15	0/735
25	4L	0.69	0/473	1.29	3/737 (0.4%)
26	14	0.84	45/68181 (0.1%)	1.54	1291/106432 (1.2%)
26	1H	1.01	117/68997 (0.2%)	1.75	2061/107696 (1.9%)
27	16	0.83	0/2928	1.57	59/4568 (1.3%)
27	1J	0.70	0/2928	1.37	32/4568 (0.7%)
28	7I	0.29	0/1049	0.54	0/1417
29	11	0.66	1/2170 (0.0%)	0.90	4/2926 (0.1%)
29	19	0.64	1/2175 (0.0%)	0.85	2/2933 (0.1%)
30	21	0.57	0/1579	0.92	3/2131 (0.1%)
30	29	0.53	0/1596	0.80	3/2153 (0.1%)
31	31	0.63	1/1620 (0.1%)	0.90	3/2194 (0.1%)
31	39	0.51	0/1637	0.80	1/2218 (0.0%)
32	41	0.47	0/1481	0.68	0/1994
32	49	0.38	0/1483	0.63	1/1997 (0.1%)
33	51	0.53	0/1354	0.86	4/1833 (0.2%)
33	59	0.35	0/1320	0.69	3/1787 (0.2%)
34	61	0.41	0/1146	0.71	1/1551 (0.1%)
34	69	0.41	0/1146	0.70	1/1551 (0.1%)
35	15	0.41	0/1123	0.61	0/1515
35	58	0.52	0/1123	0.75	0/1514
36	25	0.48	0/942	0.71	1/1269 (0.1%)
36	68	0.55	0/942	0.76	2/1269 (0.2%)
37	35	0.53	0/1139	0.83	2/1514 (0.1%)
37	78	0.61	0/1139	1.04	8/1514 (0.5%)
38	45	0.61	2/1120 (0.2%)	0.81	0/1498
38	88	0.69	0/1138	0.92	1/1523 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	55	0.51	0/981	0.83	0/1312
39	98	0.49	0/981	0.81	1/1312 (0.1%)
40	65	0.47	0/886	0.83	3/1180 (0.3%)
40	A8	0.59	0/891	0.83	2/1187 (0.2%)
41	75	0.51	0/1123	0.74	2/1500 (0.1%)
41	B8	0.58	0/1133	0.83	2/1514 (0.1%)
42	85	0.50	0/977	0.67	0/1301
42	C8	0.61	0/968	0.82	2/1289 (0.2%)
43	95	0.47	0/781	0.76	0/1048
43	D8	0.53	0/785	0.74	1/1052 (0.1%)
44	A5	0.55	0/897	0.77	1/1204 (0.1%)
44	E8	0.57	0/886	0.81	0/1189
45	B5	0.57	0/749	0.71	0/1007
45	F8	0.64	0/764	0.80	1/1025 (0.1%)
46	C5	0.52	0/807	0.81	1/1076 (0.1%)
46	G8	0.65	0/796	0.95	2/1062 (0.2%)
47	D5	0.54	1/1443 (0.1%)	0.64	1/1960 (0.1%)
47	H8	0.44	0/1395	0.73	1/1890 (0.1%)
48	E5	0.52	0/611	0.77	0/814
48	I8	0.76	1/619 (0.2%)	0.94	1/825 (0.1%)
49	F5	0.52	0/744	0.90	1/989 (0.1%)
49	J8	0.69	0/754	0.96	4/1003 (0.4%)
50	G5	0.53	0/578	0.73	0/766
50	K8	0.69	0/577	1.02	3/763 (0.4%)
51	H5	0.46	0/464	0.64	0/623
51	L8	0.50	0/464	0.73	0/623
52	M8	0.47	0/485	0.83	0/652
53	J5	0.58	0/448	0.76	0/606
53	N8	0.61	0/381	0.83	1/516 (0.2%)
54	O8	0.63	1/396 (0.3%)	0.90	1/529 (0.2%)
55	L5	0.57	0/409	0.78	0/540
55	P8	0.75	0/409	0.98	2/540 (0.4%)
56	M5	0.65	0/524	0.87	1/691 (0.1%)
56	Q8	0.69	0/524	1.02	3/691 (0.4%)
All	All	0.76	179/317928 (0.1%)	1.36	4051/476129 (0.9%)

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	2
9	82	0	1
9	8E	0	2
10	1A	0	1
11	2A	0	1
12	3A	0	1
12	3I	0	2
13	4A	0	1
13	4I	0	1
14	5A	0	1
19	AA	0	2
19	AI	0	1
20	BA	0	2
29	11	0	5
29	19	0	3
30	21	0	8
30	29	0	5
31	39	0	7
32	41	0	1
32	49	0	2
33	51	0	5
33	59	0	1
34	61	0	3
34	69	0	4
35	58	0	1
37	35	0	2
37	78	0	6
38	45	0	2
38	88	0	4
39	55	0	1
39	98	0	2
40	65	0	1
40	A8	0	2
41	75	0	3
41	B8	0	3
42	85	0	4
42	C8	0	2
43	D8	0	3
44	A5	0	1
45	B5	0	2
46	C5	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
46	G8	0	5
47	D5	0	3
47	H8	0	6
48	E5	0	2
48	I8	0	1
49	F5	0	1
49	J8	0	1
50	G5	0	2
50	K8	0	2
52	M8	0	3
54	O8	0	1
55	P8	0	1
56	M5	0	2
56	Q8	0	3
All	All	0	145

The worst 5 of 179 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	1A	38	ILE	C-N	19.47	1.71	1.34
47	D5	94	GLU	C-N	14.46	1.61	1.34
10	1A	76	ASN	C-N	14.15	1.61	1.34
26	1H	774	A	N9-C4	-13.65	1.29	1.37
26	14	783	A	N9-C4	-12.02	1.30	1.37

The worst 5 of 4051 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	1H	1899	G	N3-C4-N9	-23.89	111.67	126.00
26	1H	945	A	C6-C5-N7	-20.89	117.67	132.30
26	1H	945	A	N1-C6-N6	20.76	131.05	118.60
26	1H	1899	G	N3-C4-C5	20.42	138.81	128.60
26	1H	2430	A	C2-N3-C4	-20.30	100.45	110.60

There are no chirality outliers.

5 of 145 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1E	15	VAL	Peptide
2	1E	194	PRO	Peptide
2	1E	234	PRO	Peptide

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Mol	Chain	Res	Type	Group
2	1E	236	TYR	Peptide
9	8E	4	TYR	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	32223	0	16267	692	0
1	1G	32414	0	16360	752	0
2	12	1696	0	1730	89	0
2	1E	1874	0	1926	95	0
3	22	1537	0	1603	84	0
3	2E	1605	0	1668	54	0
4	32	1702	0	1765	93	0
4	3E	1698	0	1759	84	0
5	42	1141	0	1199	40	0
5	4E	1142	0	1204	40	0
6	52	842	0	857	19	0
6	5E	837	0	852	34	0
7	62	1110	0	1163	53	0
7	6E	1242	0	1286	51	0
8	72	1107	0	1165	49	0
8	7E	1115	0	1177	46	0
9	82	953	0	983	62	0
9	8E	1000	0	1031	63	0
10	1A	646	0	662	45	0
10	1I	749	0	767	42	0
11	2A	835	0	847	25	0
11	2I	823	0	833	29	0
12	3A	947	0	1033	45	0
12	3I	956	0	1046	35	0
13	4A	879	0	935	46	0
13	4I	933	0	992	57	0
14	5A	486	0	525	35	0
14	5I	486	0	524	29	0
15	6A	729	0	768	26	0
15	6I	729	0	768	23	0
16	7A	705	0	725	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	7I	700	0	720	45	0
17	8A	823	0	891	22	0
17	8I	823	0	891	34	0
18	9A	544	0	605	19	0
18	9I	549	0	607	21	0
19	AA	510	0	507	21	0
19	AI	661	0	683	43	0
20	BA	762	0	861	43	0
20	BI	746	0	843	44	0
21	1B	188	0	195	8	0
21	1F	199	0	208	9	0
22	1K	1542	0	790	25	0
23	2K	1646	0	845	18	0
23	2L	1646	0	845	25	0
24	1L	1401	0	713	22	0
24	3K	1483	0	756	50	0
24	3L	1528	0	778	42	0
25	4K	420	0	209	7	0
25	4L	419	0	208	17	0
26	14	60877	0	30690	1171	0
26	1H	61609	0	31058	1189	0
27	16	2617	0	1328	50	0
27	1J	2617	0	1328	76	0
28	71	1027	0	1043	57	0
29	11	2120	0	2197	100	0
29	19	2125	0	2199	105	0
30	21	1546	0	1602	86	0
30	29	1563	0	1629	93	0
31	31	1585	0	1632	70	0
31	39	1602	0	1649	88	0
32	41	1457	0	1514	68	0
32	49	1459	0	1507	65	0
33	51	1328	0	1396	64	0
33	59	1295	0	1366	58	0
34	61	1131	0	1218	36	0
34	69	1131	0	1218	49	0
35	15	1096	0	1168	47	0
35	58	1096	0	1169	48	0
36	25	932	0	996	46	0
36	68	932	0	996	41	0
37	35	1122	0	1206	75	0
37	78	1122	0	1206	80	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
38	45	1099	0	1154	73	0
38	88	1117	0	1168	58	0
39	55	967	0	1033	42	0
39	98	967	0	1033	45	0
40	65	876	0	938	63	0
40	A8	881	0	943	54	0
41	75	1109	0	1170	61	0
41	B8	1119	0	1177	72	0
42	85	959	0	1019	40	0
42	C8	950	0	1011	58	0
43	95	770	0	838	32	0
43	D8	774	0	849	40	0
44	A5	886	0	948	23	0
44	E8	876	0	941	30	0
45	B5	735	0	785	30	0
45	F8	750	0	814	19	0
46	C5	794	0	885	52	0
46	G8	783	0	869	49	0
47	D5	1411	0	1436	82	0
47	H8	1365	0	1391	57	0
48	E5	603	0	620	33	0
48	I8	611	0	631	34	0
49	F5	737	0	813	32	0
49	J8	747	0	817	42	0
50	G5	576	0	625	27	0
50	K8	575	0	634	42	0
51	H5	459	0	512	11	0
51	L8	459	0	512	13	0
52	M8	475	0	465	34	0
53	J5	434	0	454	22	0
53	N8	369	0	388	21	0
54	O8	389	0	404	26	0
55	L5	401	0	436	10	0
55	P8	401	0	436	11	0
56	M5	516	0	582	25	0
56	Q8	516	0	582	37	0
57	13	140	0	0	0	0
57	14	435	0	0	0	0
57	16	11	0	0	0	0
57	19	1	0	0	0	0
57	1G	102	0	0	0	0
57	1H	525	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	1J	8	0	0	0	0
57	2I	3	0	0	0	0
57	25	1	0	0	0	0
57	29	1	0	0	0	0
57	2K	2	0	0	0	0
57	2L	2	0	0	0	0
57	3I	2	0	0	0	0
57	32	1	0	0	0	0
57	35	1	0	0	0	0
57	39	2	0	0	0	0
57	3I	1	0	0	0	0
57	4I	1	0	0	0	0
57	42	1	0	0	0	0
57	45	2	0	0	0	0
57	4I	1	0	0	0	0
57	4L	1	0	0	0	0
57	52	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	88	3	0	0	0	0
57	C5	1	0	0	0	0
57	E5	1	0	0	0	0
57	I8	2	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	43	0	0
58	1G	42	0	45	1	0
59	32	8	0	0	3	0
59	3E	8	0	0	1	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	14	26	0	45	8	0
61	1G	13	0	24	0	0
62	11	17	0	0	4	0
62	13	320	0	0	12	0
62	14	1144	0	0	65	0
62	15	1	0	0	0	0
62	16	12	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
62	19	15	0	0	3	0
62	1A	1	0	0	0	0
62	1F	1	0	0	0	0
62	1G	317	0	0	21	0
62	1H	1470	0	0	90	0
62	1I	2	0	0	0	0
62	1J	12	0	0	1	0
62	1K	2	0	0	0	0
62	21	7	0	0	1	0
62	25	6	0	0	0	0
62	29	4	0	0	0	0
62	2K	8	0	0	1	0
62	2L	6	0	0	0	0
62	31	5	0	0	0	0
62	32	1	0	0	0	0
62	35	8	0	0	1	0
62	39	5	0	0	1	0
62	3I	2	0	0	0	0
62	41	1	0	0	0	0
62	4E	3	0	0	0	0
62	4K	5	0	0	0	0
62	4L	6	0	0	0	0
62	52	4	0	0	0	0
62	55	3	0	0	0	0
62	58	2	0	0	0	0
62	5I	2	0	0	0	0
62	6A	2	0	0	0	0
62	6I	3	0	0	0	0
62	78	10	0	0	0	0
62	7A	5	0	0	0	0
62	7I	1	0	0	0	0
62	85	2	0	0	0	0
62	8E	2	0	0	0	0
62	9A	2	0	0	0	0
62	A5	1	0	0	0	0
62	B5	1	0	0	0	0
62	B8	1	0	0	0	0
62	BA	2	0	0	0	0
62	BI	2	0	0	1	0
62	C5	3	0	0	0	0
62	C8	3	0	0	0	0
62	F5	1	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
62	F8	2	0	0	0	0
62	G8	2	0	0	0	0
62	H5	2	0	0	1	0
62	I8	6	0	0	1	0
62	J8	4	0	0	0	0
62	L8	3	0	0	1	0
62	M5	9	0	0	1	0
62	P8	1	0	0	0	0
62	Q8	5	0	0	2	0
All	All	297444	0	197360	7486	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

The worst 5 of 7486 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)
10:1A:38:ILE:C	10:1A:39:PRO:N	1.71	1.44
38:45:27:VAL:HB	38:45:28:ALA:HA	1.19	1.13
29:11:182:LEU:H	29:11:272:ALA:HB3	1.23	1.02
37:78:63:PRO:HB2	56:Q8:30:ARG:HH21	1.23	1.01
26:1H:1496:A:H8	26:1H:1577:C:HO2'	1.00	0.99

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	12	203/256 (79%)	173 (85%)	25 (12%)	5 (2%)	5 28
2	1E	227/256 (89%)	185 (82%)	39 (17%)	3 (1%)	12 45

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	22	191/239 (80%)	171 (90%)	20 (10%)	0	100	100
3	2E	203/239 (85%)	186 (92%)	17 (8%)	0	100	100
4	32	206/209 (99%)	184 (89%)	21 (10%)	1 (0%)	29	68
4	3E	205/209 (98%)	192 (94%)	12 (6%)	1 (0%)	29	68
5	42	148/162 (91%)	141 (95%)	7 (5%)	0	100	100
5	4E	147/162 (91%)	141 (96%)	5 (3%)	1 (1%)	22	60
6	52	99/101 (98%)	96 (97%)	3 (3%)	0	100	100
6	5E	98/101 (97%)	94 (96%)	4 (4%)	0	100	100
7	62	134/156 (86%)	123 (92%)	10 (8%)	1 (1%)	22	60
7	6E	152/156 (97%)	144 (95%)	8 (5%)	0	100	100
8	72	135/138 (98%)	125 (93%)	8 (6%)	2 (2%)	10	42
8	7E	136/138 (99%)	125 (92%)	10 (7%)	1 (1%)	22	60
9	82	119/128 (93%)	109 (92%)	9 (8%)	1 (1%)	19	57
9	8E	124/128 (97%)	108 (87%)	16 (13%)	0	100	100
10	1A	76/105 (72%)	71 (93%)	5 (7%)	0	100	100
10	1I	92/105 (88%)	85 (92%)	7 (8%)	0	100	100
11	2A	111/129 (86%)	101 (91%)	8 (7%)	2 (2%)	8	37
11	2I	109/129 (84%)	94 (86%)	12 (11%)	3 (3%)	5	25
12	3A	119/132 (90%)	100 (84%)	15 (13%)	4 (3%)	3	20
12	3I	120/132 (91%)	107 (89%)	12 (10%)	1 (1%)	19	57
13	4A	107/126 (85%)	88 (82%)	18 (17%)	1 (1%)	17	55
13	4I	115/126 (91%)	96 (84%)	18 (16%)	1 (1%)	17	55
14	5A	57/61 (93%)	48 (84%)	8 (14%)	1 (2%)	8	37
14	5I	57/61 (93%)	48 (84%)	7 (12%)	2 (4%)	3	20
15	6A	85/89 (96%)	81 (95%)	4 (5%)	0	100	100
15	6I	85/89 (96%)	77 (91%)	8 (9%)	0	100	100
16	7A	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
16	7I	81/88 (92%)	77 (95%)	4 (5%)	0	100	100
17	8A	97/105 (92%)	90 (93%)	7 (7%)	0	100	100
17	8I	97/105 (92%)	92 (95%)	4 (4%)	1 (1%)	15	53
18	9A	65/88 (74%)	62 (95%)	3 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	9I	66/88 (75%)	64 (97%)	1 (2%)	1 (2%)	10	42
19	AA	59/93 (63%)	49 (83%)	8 (14%)	2 (3%)	3	20
19	AI	80/93 (86%)	68 (85%)	9 (11%)	3 (4%)	3	18
20	BA	97/106 (92%)	83 (86%)	13 (13%)	1 (1%)	15	53
20	BI	95/106 (90%)	84 (88%)	10 (10%)	1 (1%)	14	50
21	1B	20/27 (74%)	19 (95%)	1 (5%)	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	71	128/229 (56%)	120 (94%)	8 (6%)	0	100	100
29	11	271/276 (98%)	249 (92%)	17 (6%)	5 (2%)	8	37
29	19	272/276 (99%)	246 (90%)	23 (8%)	3 (1%)	14	50
30	21	201/206 (98%)	158 (79%)	33 (16%)	10 (5%)	2	12
30	29	202/206 (98%)	149 (74%)	42 (21%)	11 (5%)	2	11
31	31	200/210 (95%)	181 (90%)	17 (8%)	2 (1%)	15	53
31	39	202/210 (96%)	162 (80%)	34 (17%)	6 (3%)	4	24
32	41	177/182 (97%)	156 (88%)	18 (10%)	3 (2%)	9	39
32	49	178/182 (98%)	155 (87%)	22 (12%)	1 (1%)	25	64
33	51	172/180 (96%)	141 (82%)	20 (12%)	11 (6%)	1	7
33	59	167/180 (93%)	129 (77%)	32 (19%)	6 (4%)	3	19
34	61	143/148 (97%)	122 (85%)	19 (13%)	2 (1%)	11	43
34	69	143/148 (97%)	111 (78%)	29 (20%)	3 (2%)	7	33
35	15	135/140 (96%)	122 (90%)	13 (10%)	0	100	100
35	58	135/140 (96%)	114 (84%)	17 (13%)	4 (3%)	4	24
36	25	120/122 (98%)	112 (93%)	8 (7%)	0	100	100
36	68	120/122 (98%)	115 (96%)	5 (4%)	0	100	100
37	35	145/150 (97%)	119 (82%)	26 (18%)	0	100	100
37	78	145/150 (97%)	114 (79%)	22 (15%)	9 (6%)	1	8
38	45	136/141 (96%)	115 (85%)	19 (14%)	2 (2%)	10	42
38	88	139/141 (99%)	116 (84%)	18 (13%)	5 (4%)	3	19
39	55	116/118 (98%)	110 (95%)	5 (4%)	1 (1%)	17	55
39	98	116/118 (98%)	104 (90%)	11 (10%)	1 (1%)	17	55
40	65	108/112 (96%)	89 (82%)	16 (15%)	3 (3%)	5	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	A8	109/112 (97%)	90 (83%)	19 (17%)	0	100	100
41	75	131/146 (90%)	117 (89%)	12 (9%)	2 (2%)	10	42
41	B8	133/146 (91%)	118 (89%)	15 (11%)	0	100	100
42	85	114/118 (97%)	104 (91%)	9 (8%)	1 (1%)	17	55
42	C8	113/118 (96%)	104 (92%)	6 (5%)	3 (3%)	5	26
43	95	98/101 (97%)	80 (82%)	15 (15%)	3 (3%)	4	23
43	D8	98/101 (97%)	88 (90%)	6 (6%)	4 (4%)	3	16
44	A5	109/113 (96%)	101 (93%)	7 (6%)	1 (1%)	17	55
44	E8	108/113 (96%)	100 (93%)	8 (7%)	0	100	100
45	B5	92/96 (96%)	84 (91%)	6 (6%)	2 (2%)	6	31
45	F8	93/96 (97%)	88 (95%)	5 (5%)	0	100	100
46	C5	102/110 (93%)	74 (72%)	21 (21%)	7 (7%)	1	6
46	G8	101/110 (92%)	81 (80%)	16 (16%)	4 (4%)	3	17
47	D5	175/206 (85%)	136 (78%)	31 (18%)	8 (5%)	2	14
47	H8	168/206 (82%)	136 (81%)	25 (15%)	7 (4%)	3	16
48	E5	74/85 (87%)	66 (89%)	6 (8%)	2 (3%)	5	26
48	I8	75/85 (88%)	67 (89%)	7 (9%)	1 (1%)	12	45
49	F5	92/98 (94%)	79 (86%)	12 (13%)	1 (1%)	14	50
49	J8	94/98 (96%)	83 (88%)	9 (10%)	2 (2%)	7	33
50	G5	67/72 (93%)	61 (91%)	4 (6%)	2 (3%)	4	24
50	K8	66/72 (92%)	60 (91%)	3 (4%)	3 (4%)	2	14
51	H5	56/60 (93%)	53 (95%)	3 (5%)	0	100	100
51	L8	56/60 (93%)	54 (96%)	2 (4%)	0	100	100
52	M8	56/71 (79%)	40 (71%)	15 (27%)	1 (2%)	8	37
53	J5	54/60 (90%)	50 (93%)	4 (7%)	0	100	100
53	N8	46/60 (77%)	43 (94%)	3 (6%)	0	100	100
54	O8	43/54 (80%)	30 (70%)	12 (28%)	1 (2%)	6	30
55	L5	45/49 (92%)	42 (93%)	3 (7%)	0	100	100
55	P8	45/49 (92%)	42 (93%)	3 (7%)	0	100	100
56	M5	62/65 (95%)	52 (84%)	9 (14%)	1 (2%)	9	40
56	Q8	62/65 (95%)	53 (86%)	7 (11%)	2 (3%)	4	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	11128/12158 (92%)	9762 (88%)	1180 (11%)	186 (2%)	9	39

5 of 186 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	2I	55	LYS
12	3I	48	PRO
18	9I	22	VAL
19	AI	41	VAL
30	2I	83	ASP

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	179/220 (81%)	143 (80%)	36 (20%)	1	6
2	1E	200/220 (91%)	154 (77%)	46 (23%)	1	4
3	22	154/188 (82%)	128 (83%)	26 (17%)	2	11
3	2E	159/188 (85%)	131 (82%)	28 (18%)	2	10
4	32	180/181 (99%)	151 (84%)	29 (16%)	2	12
4	3E	180/181 (99%)	146 (81%)	34 (19%)	1	8
5	42	114/123 (93%)	87 (76%)	27 (24%)	1	3
5	4E	115/123 (94%)	93 (81%)	22 (19%)	1	8
6	52	90/90 (100%)	74 (82%)	16 (18%)	2	9
6	5E	90/90 (100%)	80 (89%)	10 (11%)	6	25
7	62	114/127 (90%)	88 (77%)	26 (23%)	1	4
7	6E	125/127 (98%)	105 (84%)	20 (16%)	2	12
8	72	118/119 (99%)	101 (86%)	17 (14%)	3	15
8	7E	119/119 (100%)	99 (83%)	20 (17%)	2	11
9	82	92/99 (93%)	73 (79%)	19 (21%)	1	6
9	8E	97/99 (98%)	75 (77%)	22 (23%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	1A	71/92 (77%)	51 (72%)	20 (28%)	0	2
10	1I	81/92 (88%)	73 (90%)	8 (10%)	8	30
11	2A	85/99 (86%)	67 (79%)	18 (21%)	1	5
11	2I	84/99 (85%)	70 (83%)	14 (17%)	2	11
12	3A	102/109 (94%)	79 (78%)	23 (22%)	1	4
12	3I	103/109 (94%)	91 (88%)	12 (12%)	5	22
13	4A	90/101 (89%)	68 (76%)	22 (24%)	0	3
13	4I	94/101 (93%)	74 (79%)	20 (21%)	1	5
14	5A	49/50 (98%)	41 (84%)	8 (16%)	2	11
14	5I	49/50 (98%)	36 (74%)	13 (26%)	0	2
15	6A	79/80 (99%)	71 (90%)	8 (10%)	7	29
15	6I	79/80 (99%)	65 (82%)	14 (18%)	2	9
16	7A	72/74 (97%)	61 (85%)	11 (15%)	2	13
16	7I	72/74 (97%)	58 (81%)	14 (19%)	1	7
17	8A	94/97 (97%)	82 (87%)	12 (13%)	4	19
17	8I	94/97 (97%)	82 (87%)	12 (13%)	4	19
18	9A	58/77 (75%)	47 (81%)	11 (19%)	1	8
18	9I	58/77 (75%)	49 (84%)	9 (16%)	2	13
19	AA	56/80 (70%)	47 (84%)	9 (16%)	2	12
19	AI	72/80 (90%)	61 (85%)	11 (15%)	2	13
20	BA	76/82 (93%)	66 (87%)	10 (13%)	4	18
20	BI	75/82 (92%)	61 (81%)	14 (19%)	1	8
21	1B	17/22 (77%)	16 (94%)	1 (6%)	19	54
21	1F	18/22 (82%)	14 (78%)	4 (22%)	1	4
28	7I	108/181 (60%)	87 (81%)	21 (19%)	1	7
29	11	214/218 (98%)	173 (81%)	41 (19%)	1	8
29	19	214/218 (98%)	171 (80%)	43 (20%)	1	6
30	21	162/166 (98%)	118 (73%)	44 (27%)	0	2
30	29	165/166 (99%)	135 (82%)	30 (18%)	1	9
31	31	161/166 (97%)	128 (80%)	33 (20%)	1	6
31	39	163/166 (98%)	126 (77%)	37 (23%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	41	153/156 (98%)	126 (82%)	27 (18%)	2	10
32	49	152/156 (97%)	125 (82%)	27 (18%)	2	9
33	51	143/148 (97%)	106 (74%)	37 (26%)	0	2
33	59	140/148 (95%)	106 (76%)	34 (24%)	0	3
34	61	122/124 (98%)	86 (70%)	36 (30%)	0	1
34	69	122/124 (98%)	89 (73%)	33 (27%)	0	2
35	15	116/119 (98%)	90 (78%)	26 (22%)	1	4
35	58	116/119 (98%)	87 (75%)	29 (25%)	0	3
36	25	100/100 (100%)	76 (76%)	24 (24%)	0	3
36	68	100/100 (100%)	90 (90%)	10 (10%)	7	29
37	35	114/116 (98%)	82 (72%)	32 (28%)	0	2
37	78	114/116 (98%)	78 (68%)	36 (32%)	0	1
38	45	109/111 (98%)	88 (81%)	21 (19%)	1	8
38	88	110/111 (99%)	90 (82%)	20 (18%)	1	9
39	55	101/101 (100%)	80 (79%)	21 (21%)	1	5
39	98	101/101 (100%)	72 (71%)	29 (29%)	0	2
40	65	87/88 (99%)	61 (70%)	26 (30%)	0	1
40	A8	87/88 (99%)	66 (76%)	21 (24%)	0	3
41	75	117/127 (92%)	95 (81%)	22 (19%)	1	8
41	B8	117/127 (92%)	83 (71%)	34 (29%)	0	2
42	85	93/94 (99%)	73 (78%)	20 (22%)	1	5
42	C8	92/94 (98%)	76 (83%)	16 (17%)	2	10
43	95	81/82 (99%)	68 (84%)	13 (16%)	2	12
43	D8	82/82 (100%)	63 (77%)	19 (23%)	1	4
44	A5	91/92 (99%)	74 (81%)	17 (19%)	1	8
44	E8	90/92 (98%)	73 (81%)	17 (19%)	1	8
45	B5	74/78 (95%)	56 (76%)	18 (24%)	0	3
45	F8	77/78 (99%)	64 (83%)	13 (17%)	2	11
46	C5	85/91 (93%)	63 (74%)	22 (26%)	0	2
46	G8	84/91 (92%)	66 (79%)	18 (21%)	1	5
47	D5	156/179 (87%)	124 (80%)	32 (20%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
47	H8	151/179 (84%)	124 (82%)	27 (18%)	2	9
48	E5	61/67 (91%)	55 (90%)	6 (10%)	8	30
48	I8	62/67 (92%)	53 (86%)	9 (14%)	3	15
49	F5	79/83 (95%)	63 (80%)	16 (20%)	1	6
49	J8	79/83 (95%)	67 (85%)	12 (15%)	3	14
50	G5	63/67 (94%)	46 (73%)	17 (27%)	0	2
50	K8	64/67 (96%)	43 (67%)	21 (33%)	0	1
51	H5	50/52 (96%)	38 (76%)	12 (24%)	0	3
51	L8	50/52 (96%)	40 (80%)	10 (20%)	1	7
52	M8	52/63 (82%)	38 (73%)	14 (27%)	0	2
53	J5	48/52 (92%)	41 (85%)	7 (15%)	3	15
53	N8	43/52 (83%)	34 (79%)	9 (21%)	1	5
54	O8	44/52 (85%)	29 (66%)	15 (34%)	0	1
55	L5	38/42 (90%)	32 (84%)	6 (16%)	2	12
55	P8	38/42 (90%)	31 (82%)	7 (18%)	1	9
56	M5	54/55 (98%)	43 (80%)	11 (20%)	1	6
56	Q8	54/55 (98%)	44 (82%)	10 (18%)	1	8
All	All	9397/10064 (93%)	7493 (80%)	1904 (20%)	1	6

5 of 1904 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
51	L8	58	VAL
45	B5	82	GLN
8	72	41	ARG
44	A5	107	LEU
55	L5	43	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
18	9A	36	ASN
29	19	227	ASN
51	H5	33	GLN
40	65	95	HIS

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Mol	Chain	Res	Type
50	G5	47	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1497/1522 (98%)	331 (22%)	33 (2%)
1	1G	1506/1522 (98%)	352 (23%)	33 (2%)
22	1K	68/76 (89%)	27 (39%)	4 (5%)
23	2K	76/77 (98%)	21 (27%)	2 (2%)
23	2L	76/77 (98%)	15 (19%)	2 (2%)
24	1L	61/76 (80%)	24 (39%)	2 (3%)
24	3K	67/76 (88%)	37 (55%)	2 (2%)
24	3L	69/76 (90%)	30 (43%)	2 (2%)
25	4K	17/30 (56%)	9 (52%)	1 (5%)
25	4L	18/30 (60%)	12 (66%)	1 (5%)
26	14	2821/2917 (96%)	675 (23%)	42 (1%)
26	1H	2850/2917 (97%)	630 (22%)	52 (1%)
27	16	121/122 (99%)	24 (19%)	1 (0%)
27	1J	121/122 (99%)	32 (26%)	3 (2%)
All	All	9368/9640 (97%)	2219 (23%)	180 (1%)

5 of 2219 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	5	U
1	13	6	G
1	13	7	G
1	13	9	G

5 of 180 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1G	992	U
26	14	503	A
1	1G	1145	C
23	2L	33	OMC
26	14	960	A

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

15 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	7MG	2K	47	23	22,26,27	2.88	7 (31%)	29,39,42	2.89	10 (34%)
23	PSU	2K	56	23	18,21,22	1.32	2 (11%)	22,30,33	1.79	3 (13%)
23	4SU	2L	8	23	18,21,22	1.95	4 (22%)	26,30,33	2.36	5 (19%)
23	PSU	2L	56	23	18,21,22	1.25	2 (11%)	22,30,33	1.45	2 (9%)
22	U8U	1K	34	25,22	19,24,25	2.61	7 (36%)	23,34,37	1.18	2 (8%)
22	T6A	1K	37	22	27,34,35	2.48	5 (18%)	29,49,52	2.41	7 (24%)
23	4SU	2K	8	23	18,21,22	1.66	3 (16%)	26,30,33	2.38	4 (15%)
23	5MU	2L	55	23	19,22,23	4.00	5 (26%)	28,32,35	3.11	8 (28%)
23	5MU	2K	55	23	19,22,23	3.89	5 (26%)	28,32,35	3.15	9 (32%)
23	7MG	2L	47	23	22,26,27	3.01	8 (36%)	29,39,42	2.86	10 (34%)
22	5MU	1K	54	22	19,22,23	3.94	5 (26%)	28,32,35	2.92	7 (25%)
23	OMC	2L	33	23	19,22,23	1.78	4 (21%)	26,31,34	1.26	2 (7%)
22	PSU	1K	39	22	18,21,22	1.02	1 (5%)	22,30,33	1.53	4 (18%)
22	PSU	1K	55	22	18,21,22	1.28	1 (5%)	22,30,33	1.56	4 (18%)
23	OMC	2K	33	23	19,22,23	1.82	3 (15%)	26,31,34	1.03	2 (7%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	7MG	2K	47	23	-	4/7/37/38	0/3/3/3
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
23	4SU	2L	8	23	-	3/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	0/7/25/26	0/2/2/2
22	U8U	1K	34	25,22	-	0/9/28/29	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	T6A	1K	37	22	-	6/19/41/42	0/3/3/3
23	4SU	2K	8	23	-	2/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	0/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
23	7MG	2L	47	23	-	2/7/37/38	0/3/3/3
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	1/9/27/28	0/2/2/2
22	PSU	1K	39	22	-	0/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	2/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	0/9/27/28	0/2/2/2

The worst 5 of 62 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	2L	55	5MU	C2-N1	12.89	1.59	1.38
22	1K	54	5MU	C2-N1	12.63	1.58	1.38
23	2K	55	5MU	C2-N1	12.52	1.58	1.38
23	2L	47	7MG	C5-N7	8.90	1.45	1.35
23	2K	47	7MG	C5-N7	8.03	1.44	1.35

The worst 5 of 79 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2L	55	5MU	C5-C4-N3	9.89	123.75	115.31
23	2K	55	5MU	C5-C4-N3	9.69	123.58	115.31
22	1K	54	5MU	C5-C4-N3	9.41	123.34	115.31
23	2L	8	4SU	C4-N3-C2	-8.13	119.44	127.34
23	2K	8	4SU	C4-N3-C2	-7.63	119.93	127.34

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1K	37	T6A	C14-C12-N11-C10
22	1K	37	T6A	N11-C12-C14-O14
22	1K	37	T6A	C13-C12-C14-O14
22	1K	37	T6A	C13-C12-C14-C15
23	2K	8	4SU	C3'-C4'-C5'-O5'

There are no ring outliers.

7 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2K	47	7MG	2	0
22	1K	37	T6A	1	0
23	2L	55	5MU	2	0
23	2K	55	5MU	3	0
22	1K	54	5MU	1	0
23	2L	33	OMC	3	0
23	2K	33	OMC	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1269 ligands modelled in this entry, 1262 are monoatomic - leaving 7 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	$\# Z > 2$
61	SPE	14	3437	26	12,12,12	0.83	0	11,11,11	0.96	1 (9%)
58	PAR	13	1741	1	45,45,45	0.68	0	64,67,67	1.48	10 (15%)
59	SF4	32	302	4	0,12,12	-	-	-	-	-
59	SF4	3E	301	4	0,12,12	-	-	-	-	-
61	SPE	1G	1703	-	12,12,12	0.35	0	11,11,11	0.76	0
58	PAR	1G	1702	-	45,45,45	0.67	1 (2%)	64,67,67	1.39	9 (14%)
61	SPE	14	3436	-	12,12,12	0.43	0	11,11,11	0.65	0

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
61	SPE	14	3437	26	-	5/10/10/10	-
58	PAR	13	1741	1	-	5/18/94/94	0/4/4/4
59	SF4	32	302	4	-	-	0/6/5/5
59	SF4	3E	301	4	-	-	0/6/5/5
61	SPE	1G	1703	-	-	3/10/10/10	-
58	PAR	1G	1702	-	-	1/18/94/94	0/4/4/4
61	SPE	14	3436	-	-	5/10/10/10	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	1G	1702	PAR	C24-N24	-2.22	1.43	1.47

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	13	1741	PAR	C32-C22-C12	3.69	118.76	111.18
58	13	1741	PAR	C11-O51-C51	3.65	120.85	113.69
58	1G	1702	PAR	C14-O33-C33	-3.57	109.14	117.96
58	13	1741	PAR	C22-C12-C62	3.28	115.00	110.04
58	1G	1702	PAR	C13-O52-C52	-3.28	109.84	117.96

There are no chirality outliers.

5 of 19 torsion outliers are listed below:

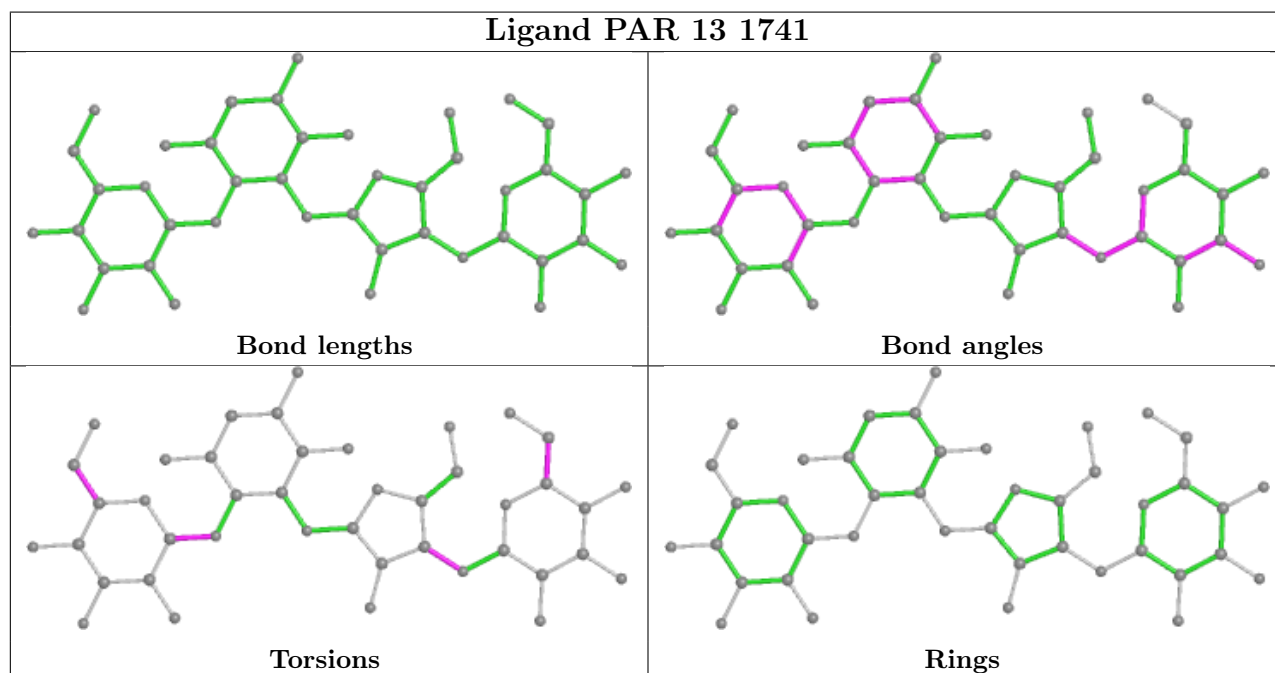
Mol	Chain	Res	Type	Atoms
58	13	1741	PAR	C44-C54-C64-N64
58	13	1741	PAR	O54-C54-C64-N64
61	1G	1703	SPE	C2-C3-C4-N5
61	14	3437	SPE	C6-C7-C8-N9
61	14	3437	SPE	N9-C10-C11-C12

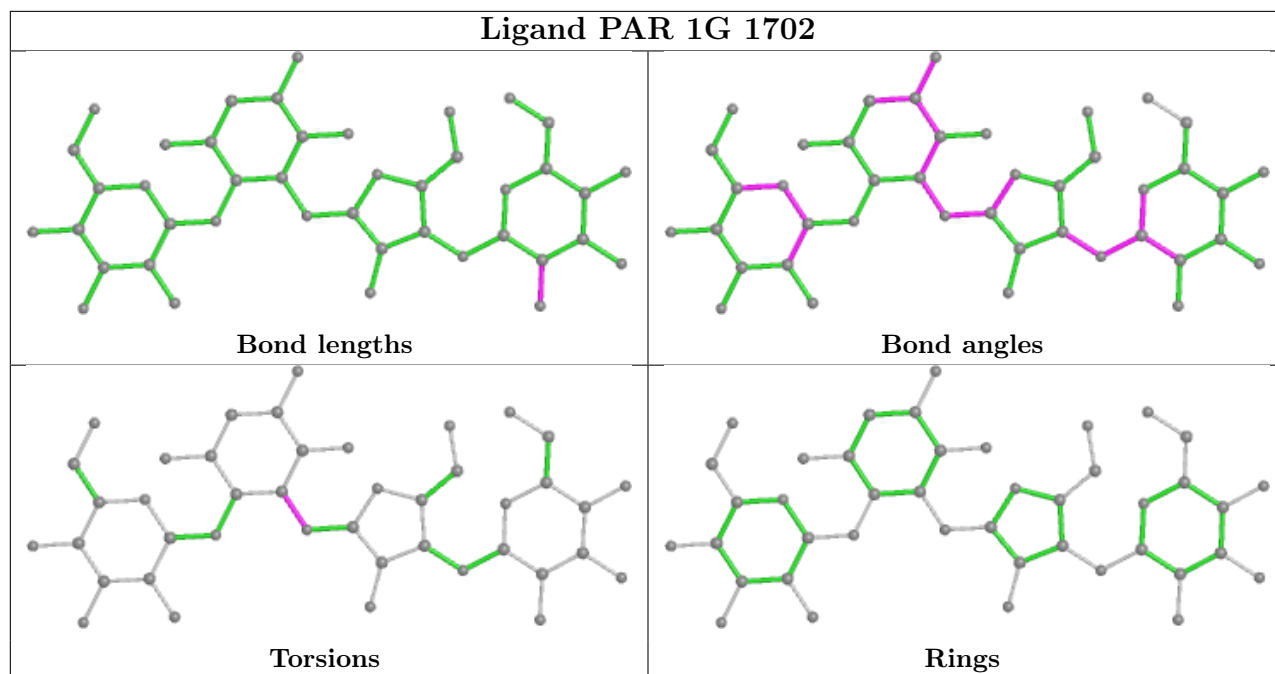
There are no ring outliers.

5 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
61	14	3437	SPE	6	0
59	32	302	SF4	3	0
59	3E	301	SF4	1	0
58	1G	1702	PAR	1	0
61	14	3436	SPE	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
10	1A	2
26	1H	1
24	1L	1
47	D5	1
4	3E	1

The worst 5 of 6 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1H	1055:G	O3'	1059:G	P	14.13
1	1L	72:C	O3'	73:A	P	3.25
1	1A	38:ILE	C	39:PRO	N	1.71
1	1A	76:ASN	C	77:PRO	N	1.61
1	D5	94:GLU	C	95:PRO	N	1.61

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	13	1499/1522 (98%)	-0.23	1 (0%) 95 89	57, 100, 176, 247	0
1	1G	1508/1522 (99%)	-0.17	10 (0%) 87 69	71, 119, 192, 267	0
2	12	207/256 (80%)	0.75	26 (12%) 3 1	131, 164, 184, 192	0
2	1E	231/256 (90%)	0.24	12 (5%) 27 10	112, 143, 169, 174	0
3	22	195/239 (81%)	1.21	50 (25%) 0 0	135, 160, 173, 178	0
3	2E	205/239 (85%)	0.67	22 (10%) 6 2	88, 111, 143, 151	0
4	32	208/209 (99%)	0.66	14 (6%) 17 5	92, 113, 136, 142	0
4	3E	207/209 (99%)	0.31	12 (5%) 23 7	84, 108, 132, 144	0
5	42	150/162 (92%)	0.49	11 (7%) 15 4	108, 128, 148, 160	0
5	4E	149/162 (91%)	0.30	4 (2%) 54 26	82, 103, 121, 131	0
6	52	101/101 (100%)	0.02	0 100 100	85, 104, 121, 132	0
6	5E	100/101 (99%)	0.52	7 (7%) 16 5	85, 105, 120, 132	0
7	62	138/156 (88%)	1.18	33 (23%) 0 0	116, 130, 141, 147	0
7	6E	154/156 (98%)	1.23	36 (23%) 0 0	102, 120, 150, 171	0
8	72	137/138 (99%)	0.73	15 (10%) 5 2	100, 131, 142, 149	0
8	7E	138/138 (100%)	1.07	29 (21%) 1 0	93, 110, 122, 134	0
9	82	121/128 (94%)	1.87	50 (41%) 0 0	116, 163, 174, 182	0
9	8E	126/128 (98%)	0.24	5 (3%) 38 15	87, 138, 157, 163	0
10	1A	80/105 (76%)	1.02	22 (27%) 0 0	133, 156, 169, 174	0
10	1I	94/105 (89%)	1.42	28 (29%) 0 0	81, 131, 168, 173	0
11	2A	113/129 (87%)	1.33	27 (23%) 0 0	84, 109, 124, 135	0
11	2I	111/129 (86%)	1.14	25 (22%) 0 0	72, 107, 123, 133	0
12	3A	121/132 (91%)	1.72	45 (37%) 0 0	90, 112, 135, 151	0
12	3I	122/132 (92%)	0.72	15 (12%) 4 1	66, 76, 102, 135	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	109/126 (86%)	0.85	26 (23%) 0 0	123, 150, 180, 194	0
13	4I	117/126 (92%)	0.32	4 (3%) 45 19	88, 116, 131, 138	0
14	5A	59/61 (96%)	3.90	41 (69%) 0 0	137, 158, 180, 183	0
14	5I	59/61 (96%)	0.83	8 (13%) 3 1	81, 96, 114, 122	0
15	6A	87/89 (97%)	0.13	3 (3%) 45 19	84, 113, 128, 131	0
15	6I	87/89 (97%)	0.35	3 (3%) 45 19	80, 98, 113, 123	0
16	7A	84/88 (95%)	0.26	2 (2%) 59 30	92, 105, 129, 155	0
16	7I	83/88 (94%)	1.13	20 (24%) 0 0	96, 111, 137, 155	0
17	8A	99/105 (94%)	1.30	27 (27%) 0 0	97, 113, 130, 135	0
17	8I	99/105 (94%)	1.10	18 (18%) 1 0	89, 106, 115, 124	0
18	9A	67/88 (76%)	0.35	4 (5%) 21 7	92, 112, 132, 138	0
18	9I	68/88 (77%)	0.20	2 (2%) 51 23	88, 107, 131, 135	0
19	AA	65/93 (69%)	1.17	13 (20%) 1 0	162, 178, 187, 192	0
19	AI	82/93 (88%)	0.24	3 (3%) 41 17	96, 117, 138, 151	0
20	BA	99/106 (93%)	1.15	18 (18%) 1 0	90, 114, 140, 152	0
20	BI	97/106 (91%)	1.37	27 (27%) 0 0	106, 119, 145, 151	0
21	1B	22/27 (81%)	1.72	8 (36%) 0 0	127, 141, 145, 148	0
21	1F	23/27 (85%)	0.24	0 100 100	92, 99, 107, 115	0
22	1K	67/76 (88%)	0.54	5 (7%) 14 4	90, 193, 226, 233	0
23	2K	72/77 (93%)	0.03	1 (1%) 75 49	67, 92, 124, 140	0
23	2L	72/77 (93%)	0.07	0 100 100	80, 116, 152, 163	0
24	1L	66/76 (86%)	1.06	11 (16%) 1 0	145, 224, 245, 249	0
24	3K	70/76 (92%)	0.91	10 (14%) 2 1	76, 229, 251, 253	0
24	3L	72/76 (94%)	0.16	3 (4%) 36 14	85, 220, 238, 240	0
25	4K	19/30 (63%)	0.97	4 (21%) 1 0	71, 140, 219, 219	0
25	4L	19/30 (63%)	1.35	3 (15%) 2 1	98, 158, 230, 230	0
26	14	2826/2917 (96%)	-0.06	17 (0%) 89 72	50, 85, 199, 264	0
26	1H	2860/2917 (98%)	-0.10	7 (0%) 95 87	40, 69, 186, 257	0
27	16	122/122 (100%)	-0.35	1 (0%) 86 65	61, 88, 107, 197	0
27	1J	122/122 (100%)	-0.45	0 100 100	85, 119, 145, 205	0
28	7I	132/229 (57%)	0.80	20 (15%) 2 1	146, 210, 235, 243	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	11	273/276 (98%)	0.46	5 (1%) 68 40	41, 63, 79, 93	0
29	19	274/276 (99%)	0.59	7 (2%) 56 27	47, 73, 88, 107	0
30	21	203/206 (98%)	0.63	10 (4%) 29 11	48, 84, 120, 130	0
30	29	204/206 (99%)	1.03	39 (19%) 1 0	60, 95, 134, 149	0
31	31	202/210 (96%)	0.63	9 (4%) 33 12	46, 76, 112, 127	0
31	39	204/210 (97%)	0.56	14 (6%) 16 5	57, 101, 148, 177	0
32	41	179/182 (98%)	0.77	21 (11%) 4 1	79, 100, 134, 146	0
32	49	180/182 (98%)	1.22	48 (26%) 0 0	117, 138, 156, 174	0
33	51	174/180 (96%)	0.30	4 (2%) 60 31	77, 102, 119, 130	0
33	59	169/180 (93%)	2.48	92 (54%) 0 0	152, 196, 220, 233	0
34	61	145/148 (97%)	0.52	17 (11%) 4 1	76, 131, 149, 157	0
34	69	145/148 (97%)	0.46	12 (8%) 11 3	86, 122, 149, 156	0
35	15	137/140 (97%)	1.16	25 (18%) 1 0	81, 108, 135, 151	0
35	58	137/140 (97%)	0.86	18 (13%) 3 1	63, 85, 121, 138	0
36	25	122/122 (100%)	0.91	14 (11%) 4 1	69, 88, 105, 117	0
36	68	122/122 (100%)	0.39	3 (2%) 57 29	56, 72, 90, 99	0
37	35	147/150 (98%)	0.86	21 (14%) 2 1	58, 102, 135, 152	0
37	78	147/150 (98%)	0.57	10 (6%) 17 5	47, 80, 104, 115	0
38	45	138/141 (97%)	0.95	27 (19%) 1 0	76, 105, 124, 155	0
38	88	141/141 (100%)	0.71	10 (7%) 16 5	54, 75, 95, 123	0
39	55	118/118 (100%)	0.60	7 (5%) 22 7	65, 80, 97, 112	0
39	98	118/118 (100%)	0.81	12 (10%) 6 2	60, 78, 94, 106	0
40	65	110/112 (98%)	1.06	22 (20%) 1 0	89, 112, 132, 137	0
40	A8	111/112 (99%)	1.09	18 (16%) 1 0	72, 85, 105, 116	0
41	75	133/146 (91%)	0.40	7 (5%) 26 10	80, 96, 128, 151	0
41	B8	135/146 (92%)	0.14	5 (3%) 41 17	67, 84, 128, 139	0
42	85	116/118 (98%)	0.54	4 (3%) 45 19	63, 96, 127, 134	0
42	C8	115/118 (97%)	0.31	3 (2%) 56 27	53, 77, 102, 108	0
43	95	100/101 (99%)	1.08	22 (22%) 0 0	65, 116, 135, 142	0
43	D8	100/101 (99%)	0.89	15 (15%) 2 1	53, 101, 119, 126	0
44	A5	111/113 (98%)	0.79	5 (4%) 33 12	57, 75, 101, 137	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	E8	110/113 (97%)	0.49	8 (7%) 15 4	53, 70, 94, 106	0
45	B5	94/96 (97%)	1.09	15 (15%) 1 1	68, 83, 104, 118	0
45	F8	95/96 (98%)	0.21	1 (1%) 80 56	49, 66, 97, 110	0
46	C5	104/110 (94%)	2.12	36 (34%) 0 0	92, 118, 156, 164	0
46	G8	103/110 (93%)	0.26	5 (4%) 29 11	73, 95, 122, 130	0
47	D5	177/206 (85%)	1.81	70 (39%) 0 0	108, 148, 226, 236	0
47	H8	170/206 (82%)	1.81	65 (38%) 0 0	80, 116, 202, 210	0
48	E5	76/85 (89%)	1.15	13 (17%) 1 0	66, 88, 102, 115	0
48	I8	77/85 (90%)	0.58	5 (6%) 18 5	54, 69, 91, 102	0
49	F5	94/98 (95%)	1.21	18 (19%) 1 0	60, 83, 122, 136	0
49	J8	96/98 (97%)	0.85	9 (9%) 8 3	51, 71, 126, 138	0
50	G5	69/72 (95%)	0.44	5 (7%) 15 4	81, 104, 124, 138	0
50	K8	68/72 (94%)	0.12	1 (1%) 73 46	59, 79, 96, 120	0
51	H5	58/60 (96%)	2.04	29 (50%) 0 0	77, 99, 122, 135	0
51	L8	58/60 (96%)	0.54	2 (3%) 45 19	60, 77, 103, 110	0
52	M8	60/71 (84%)	1.54	16 (26%) 0 0	102, 143, 168, 171	0
53	J5	56/60 (93%)	0.72	7 (12%) 3 1	58, 85, 131, 141	0
53	N8	48/60 (80%)	0.36	0 100 100	46, 78, 119, 127	0
54	O8	45/54 (83%)	4.57	40 (88%) 0 0	117, 153, 171, 177	0
55	L5	47/49 (95%)	0.47	2 (4%) 35 13	47, 60, 87, 97	0
55	P8	47/49 (95%)	0.09	1 (2%) 63 34	42, 50, 72, 87	0
56	M5	64/65 (98%)	1.47	18 (28%) 0 0	68, 80, 97, 117	0
56	Q8	64/65 (98%)	0.36	0 100 100	51, 65, 80, 98	0
All	All	20730/21798 (95%)	0.42	1700 (8%) 11 3	40, 99, 184, 267	0

The worst 5 of 1700 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
46	C5	59	GLY	14.7
14	5A	38	GLY	12.9
33	59	96	ALA	12.6
46	C5	49	VAL	12.1
52	M8	40	HIS	11.7

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
22	PSU	1K	55	20/21	0.87	0.16	107,127,140,145	0
23	4SU	2L	8	20/21	0.88	0.16	107,118,124,125	0
23	OMC	2L	33	21/22	0.90	0.19	94,103,107,109	0
23	PSU	2L	56	20/21	0.91	0.10	109,121,126,126	0
23	7MG	2L	47	24/25	0.92	0.14	118,128,137,141	0
23	PSU	2K	56	20/21	0.92	0.12	91,101,110,117	0
22	5MU	1K	54	21/22	0.92	0.16	104,125,133,143	0
22	PSU	1K	39	20/21	0.93	0.21	94,112,118,120	0
22	T6A	1K	37	32/33	0.94	0.20	81,92,114,116	0
23	5MU	2L	55	21/22	0.94	0.14	115,122,127,130	0
23	4SU	2K	8	20/21	0.94	0.17	89,95,101,103	0
23	7MG	2K	47	24/25	0.94	0.15	96,101,113,116	0
23	5MU	2K	55	21/22	0.95	0.14	98,105,112,114	0
23	OMC	2K	33	21/22	0.96	0.21	73,79,82,94	0
22	U8U	1K	34	23/24	0.96	0.17	83,98,108,110	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1678	1/1	0.02	0.16	112,112,112,112	0
57	MG	1H	3445	1/1	0.18	0.12	92,92,92,92	0
57	MG	1H	3081	1/1	0.19	0.45	83,83,83,83	0
57	MG	13	1704	1/1	0.32	0.13	106,106,106,106	0
57	MG	14	3393	1/1	0.32	0.08	165,165,165,165	0
57	MG	1G	1673	1/1	0.34	0.14	115,115,115,115	0
57	MG	1H	3180	1/1	0.34	0.42	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3350	1/1	0.39	0.16	101,101,101,101	0
57	MG	14	3115	1/1	0.40	0.78	87,87,87,87	0
57	MG	14	3377	1/1	0.47	0.10	131,131,131,131	0
57	MG	1H	3113	1/1	0.48	0.26	81,81,81,81	0
57	MG	1G	1609	1/1	0.50	0.87	92,92,92,92	0
57	MG	14	3163	1/1	0.51	0.38	93,93,93,93	0
57	MG	14	3422	1/1	0.52	0.24	108,108,108,108	0
57	MG	1H	3154	1/1	0.53	0.23	58,58,58,58	0
57	MG	13	1709	1/1	0.54	0.26	99,99,99,99	0
57	MG	1H	3157	1/1	0.54	0.38	89,89,89,89	0
57	MG	1H	3454	1/1	0.54	0.07	111,111,111,111	0
57	MG	1H	3520	1/1	0.54	0.10	105,105,105,105	0
57	MG	1G	1642	1/1	0.55	0.28	99,99,99,99	0
57	MG	1H	3145	1/1	0.56	0.53	80,80,80,80	0
57	MG	14	3127	1/1	0.56	1.02	87,87,87,87	0
57	MG	14	3355	1/1	0.56	0.10	104,104,104,104	0
57	MG	1G	1686	1/1	0.57	0.13	106,106,106,106	0
57	MG	13	1679	1/1	0.57	0.30	99,99,99,99	0
57	MG	1H	3237	1/1	0.57	0.46	81,81,81,81	0
57	MG	1G	1678	1/1	0.58	0.11	111,111,111,111	0
57	MG	14	3154	1/1	0.58	0.40	95,95,95,95	0
57	MG	13	1643	1/1	0.59	0.23	101,101,101,101	0
57	MG	13	1739	1/1	0.59	0.06	121,121,121,121	0
57	MG	1H	3141	1/1	0.59	0.29	83,83,83,83	0
57	MG	1H	3007	1/1	0.59	0.31	81,81,81,81	0
57	MG	1H	3050	1/1	0.59	0.38	72,72,72,72	0
57	MG	1H	3230	1/1	0.60	0.36	82,82,82,82	0
57	MG	1H	3120	1/1	0.60	0.18	88,88,88,88	0
57	MG	14	3008	1/1	0.60	0.21	77,77,77,77	0
57	MG	E5	101	1/1	0.60	0.58	89,89,89,89	0
57	MG	1H	3150	1/1	0.61	0.70	98,98,98,98	0
57	MG	14	3208	1/1	0.61	0.95	88,88,88,88	0
57	MG	14	3132	1/1	0.61	0.44	82,82,82,82	0
57	MG	14	3430	1/1	0.61	0.19	107,107,107,107	0
57	MG	1H	3339	1/1	0.61	0.12	106,106,106,106	0
57	MG	1H	3205	1/1	0.62	0.60	79,79,79,79	0
57	MG	1H	3500	1/1	0.62	0.14	94,94,94,94	0
57	MG	14	3384	1/1	0.63	0.14	78,78,78,78	0
57	MG	1H	3442	1/1	0.64	0.09	103,103,103,103	0
57	MG	14	3114	1/1	0.64	0.22	70,70,70,70	0
57	MG	1H	3503	1/1	0.64	0.12	91,91,91,91	0
57	MG	14	3347	1/1	0.64	0.10	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1685	1/1	0.64	0.16	90,90,90,90	0
57	MG	14	3433	1/1	0.64	0.26	114,114,114,114	0
57	MG	13	1738	1/1	0.64	0.10	133,133,133,133	0
57	MG	14	3332	1/1	0.65	0.09	102,102,102,102	0
57	MG	14	3064	1/1	0.65	0.48	63,63,63,63	0
57	MG	14	3166	1/1	0.65	0.46	79,79,79,79	0
57	MG	14	3426	1/1	0.65	0.16	104,104,104,104	0
57	MG	1H	3451	1/1	0.65	0.08	102,102,102,102	0
57	MG	14	3376	1/1	0.65	0.23	102,102,102,102	0
57	MG	1J	208	1/1	0.65	0.10	103,103,103,103	0
57	MG	C5	201	1/1	0.65	0.10	113,113,113,113	0
57	MG	14	3266	1/1	0.65	0.08	107,107,107,107	0
57	MG	1H	3079	1/1	0.66	0.34	63,63,63,63	0
57	MG	1H	3204	1/1	0.66	0.20	91,91,91,91	0
57	MG	1H	3388	1/1	0.66	0.13	55,55,55,55	0
57	MG	14	3344	1/1	0.66	0.09	93,93,93,93	0
57	MG	14	3135	1/1	0.66	0.32	79,79,79,79	0
57	MG	14	3152	1/1	0.66	0.17	78,78,78,78	0
57	MG	14	3434	1/1	0.66	0.12	110,110,110,110	0
57	MG	13	1671	1/1	0.66	0.51	79,79,79,79	0
57	MG	1H	3211	1/1	0.66	0.46	78,78,78,78	0
57	MG	13	1723	1/1	0.66	0.07	128,128,128,128	0
57	MG	1H	3423	1/1	0.67	0.18	84,84,84,84	0
57	MG	14	3429	1/1	0.67	0.30	95,95,95,95	0
57	MG	1H	3496	1/1	0.67	0.16	89,89,89,89	0
57	MG	14	3176	1/1	0.67	0.20	82,82,82,82	0
57	MG	14	3387	1/1	0.67	0.14	83,83,83,83	0
57	MG	14	3122	1/1	0.67	0.37	75,75,75,75	0
57	MG	14	3395	1/1	0.67	0.10	118,118,118,118	0
57	MG	1H	3004	1/1	0.67	0.51	89,89,89,89	0
57	MG	14	3277	1/1	0.68	0.16	84,84,84,84	0
57	MG	1H	3511	1/1	0.68	0.16	101,101,101,101	0
57	MG	13	1729	1/1	0.68	0.11	110,110,110,110	0
57	MG	1H	3499	1/1	0.68	0.09	112,112,112,112	0
57	MG	14	3017	1/1	0.68	0.34	119,119,119,119	0
57	MG	1H	3234	1/1	0.68	0.20	79,79,79,79	0
57	MG	1H	3487	1/1	0.68	0.11	85,85,85,85	0
57	MG	31	301	1/1	0.69	0.13	63,63,63,63	0
57	MG	1H	3085	1/1	0.69	0.28	70,70,70,70	0
57	MG	1H	3065	1/1	0.69	0.53	65,65,65,65	0
57	MG	13	1662	1/1	0.69	0.50	89,89,89,89	0
57	MG	13	1673	1/1	0.69	0.40	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3216	1/1	0.69	0.27	82,82,82,82	0
57	MG	35	201	1/1	0.69	0.22	75,75,75,75	0
57	MG	14	3407	1/1	0.69	0.12	123,123,123,123	0
57	MG	1H	3422	1/1	0.69	0.33	65,65,65,65	0
57	MG	14	3173	1/1	0.70	0.45	79,79,79,79	0
57	MG	1H	3177	1/1	0.70	0.90	82,82,82,82	0
57	MG	16	208	1/1	0.70	0.39	85,85,85,85	0
57	MG	14	3212	1/1	0.70	0.32	75,75,75,75	0
57	MG	1H	3428	1/1	0.70	0.09	89,89,89,89	0
57	MG	14	3385	1/1	0.70	0.16	67,67,67,67	0
57	MG	14	3435	1/1	0.70	0.20	92,92,92,92	0
57	MG	1H	3130	1/1	0.70	0.47	63,63,63,63	0
57	MG	4I	200	1/1	0.70	0.23	95,95,95,95	0
57	MG	1H	3419	1/1	0.70	0.15	86,86,86,86	0
57	MG	13	1668	1/1	0.70	0.29	66,66,66,66	0
57	MG	14	3110	1/1	0.71	0.24	69,69,69,69	0
57	MG	14	3161	1/1	0.71	0.41	78,78,78,78	0
57	MG	14	3264	1/1	0.71	0.14	93,93,93,93	0
57	MG	1G	1635	1/1	0.71	0.20	105,105,105,105	0
57	MG	14	3164	1/1	0.71	0.33	78,78,78,78	0
57	MG	14	3330	1/1	0.71	0.14	94,94,94,94	0
57	MG	1H	3135	1/1	0.71	0.49	79,79,79,79	0
57	MG	14	3138	1/1	0.71	0.67	78,78,78,78	0
57	MG	14	3109	1/1	0.71	0.43	67,67,67,67	0
57	MG	14	3207	1/1	0.71	0.37	70,70,70,70	0
57	MG	1H	3168	1/1	0.72	0.49	80,80,80,80	0
57	MG	1H	3195	1/1	0.72	0.31	55,55,55,55	0
57	MG	14	3291	1/1	0.72	0.21	85,85,85,85	0
57	MG	1G	1682	1/1	0.72	0.05	123,123,123,123	0
57	MG	1H	3006	1/1	0.72	0.28	74,74,74,74	0
57	MG	1H	3225	1/1	0.72	0.43	71,71,71,71	0
57	MG	1H	3227	1/1	0.72	0.28	72,72,72,72	0
57	MG	14	3252	1/1	0.72	0.18	90,90,90,90	0
57	MG	14	3409	1/1	0.72	0.22	88,88,88,88	0
57	MG	1G	1671	1/1	0.72	0.17	112,112,112,112	0
57	MG	14	3406	1/1	0.73	0.12	101,101,101,101	0
57	MG	13	1669	1/1	0.73	0.53	95,95,95,95	0
57	MG	14	3181	1/1	0.73	0.30	75,75,75,75	0
57	MG	14	3417	1/1	0.73	0.12	108,108,108,108	0
57	MG	14	3185	1/1	0.73	0.41	86,86,86,86	0
57	MG	1H	3171	1/1	0.73	0.38	73,73,73,73	0
57	MG	14	3023	1/1	0.73	0.27	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3366	1/1	0.73	0.23	82,82,82,82	0
57	MG	1H	3172	1/1	0.73	0.30	83,83,83,83	0
57	MG	13	1737	1/1	0.73	0.11	99,99,99,99	0
57	MG	1H	3458	1/1	0.73	0.10	82,82,82,82	0
57	MG	16	205	1/1	0.73	0.18	69,69,69,69	0
57	MG	1H	3075	1/1	0.73	0.29	76,76,76,76	0
57	MG	1H	3267	1/1	0.73	0.10	56,56,56,56	0
57	MG	7A	101	1/1	0.73	0.26	114,114,114,114	0
57	MG	4L	101	1/1	0.74	0.32	131,131,131,131	0
57	MG	1H	3444	1/1	0.74	0.11	74,74,74,74	0
57	MG	14	3151	1/1	0.74	0.29	70,70,70,70	0
57	MG	1H	3396	1/1	0.74	0.22	59,59,59,59	0
57	MG	13	1660	1/1	0.74	0.23	88,88,88,88	0
57	MG	1G	1644	1/1	0.74	0.20	106,106,106,106	0
57	MG	14	3073	1/1	0.74	0.31	78,78,78,78	0
57	MG	1G	1668	1/1	0.74	0.09	124,124,124,124	0
57	MG	13	1637	1/1	0.74	0.32	74,74,74,74	0
57	MG	1H	3226	1/1	0.74	0.31	71,71,71,71	0
57	MG	1H	3476	1/1	0.74	0.21	82,82,82,82	0
57	MG	14	3118	1/1	0.74	0.44	61,61,61,61	0
57	MG	13	1714	1/1	0.74	0.09	122,122,122,122	0
57	MG	13	1674	1/1	0.74	0.36	92,92,92,92	0
57	MG	14	3128	1/1	0.74	0.41	89,89,89,89	0
57	MG	14	3211	1/1	0.74	0.09	81,81,81,81	0
57	MG	P8	101	1/1	0.74	0.56	71,71,71,71	0
57	MG	1H	3217	1/1	0.75	0.64	82,82,82,82	0
57	MG	1H	3395	1/1	0.75	0.14	68,68,68,68	0
57	MG	1H	3522	1/1	0.75	0.14	110,110,110,110	0
57	MG	16	203	1/1	0.75	0.21	82,82,82,82	0
57	MG	1G	1699	1/1	0.75	0.07	133,133,133,133	0
57	MG	1H	3063	1/1	0.75	0.27	100,100,100,100	0
57	MG	1H	3415	1/1	0.75	0.14	72,72,72,72	0
57	MG	1H	3118	1/1	0.75	0.15	69,69,69,69	0
61	SPE	14	3436	13/13	0.75	0.25	83,88,93,94	0
57	MG	1G	1675	1/1	0.76	0.08	103,103,103,103	0
57	MG	1H	3479	1/1	0.76	0.10	83,83,83,83	0
57	MG	1G	1618	1/1	0.76	0.69	78,78,78,78	0
57	MG	14	3197	1/1	0.76	0.61	77,77,77,77	0
57	MG	14	3080	1/1	0.76	0.25	68,68,68,68	0
57	MG	14	3098	1/1	0.76	0.35	77,77,77,77	0
57	MG	14	3100	1/1	0.76	0.27	71,71,71,71	0
57	MG	14	3432	1/1	0.76	0.13	116,116,116,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3103	1/1	0.76	0.43	96,96,96,96	0
57	MG	13	1727	1/1	0.76	0.13	90,90,90,90	0
57	MG	1H	3374	1/1	0.76	0.11	83,83,83,83	0
57	MG	1H	3053	1/1	0.76	0.46	75,75,75,75	0
57	MG	1H	3243	1/1	0.76	0.17	82,82,82,82	0
57	MG	1H	3196	1/1	0.76	0.38	77,77,77,77	0
57	MG	14	3398	1/1	0.76	0.13	76,76,76,76	0
57	MG	1H	3414	1/1	0.76	0.14	105,105,105,105	0
57	MG	1H	3516	1/1	0.77	0.14	102,102,102,102	0
57	MG	1H	3153	1/1	0.77	0.44	77,77,77,77	0
57	MG	14	3060	1/1	0.77	0.30	98,98,98,98	0
57	MG	1H	3277	1/1	0.77	0.16	71,71,71,71	0
57	MG	13	1706	1/1	0.77	0.08	117,117,117,117	0
57	MG	1H	3352	1/1	0.77	0.12	57,57,57,57	0
57	MG	14	3428	1/1	0.77	0.29	119,119,119,119	0
57	MG	1H	3363	1/1	0.77	0.12	96,96,96,96	0
57	MG	1H	3488	1/1	0.77	0.28	105,105,105,105	0
57	MG	13	1676	1/1	0.77	0.47	93,93,93,93	0
57	MG	1H	3123	1/1	0.77	0.37	65,65,65,65	0
57	MG	14	3379	1/1	0.77	0.14	84,84,84,84	0
57	MG	14	3156	1/1	0.77	0.17	87,87,87,87	0
57	MG	14	3258	1/1	0.77	0.07	79,79,79,79	0
57	MG	1H	3389	1/1	0.77	0.14	88,88,88,88	0
57	MG	1H	3003	1/1	0.77	0.37	65,65,65,65	0
57	MG	14	3274	1/1	0.77	0.05	85,85,85,85	0
57	MG	1H	3203	1/1	0.77	0.24	74,74,74,74	0
57	MG	1H	3129	1/1	0.78	0.20	76,76,76,76	0
57	MG	14	3342	1/1	0.78	0.09	113,113,113,113	0
57	MG	1H	3163	1/1	0.78	0.44	91,91,91,91	0
57	MG	1H	3518	1/1	0.78	0.11	96,96,96,96	0
57	MG	14	3348	1/1	0.78	0.11	96,96,96,96	0
57	MG	14	3067	1/1	0.78	0.23	78,78,78,78	0
57	MG	1H	3206	1/1	0.78	0.56	93,93,93,93	0
57	MG	1H	3309	1/1	0.78	0.23	54,54,54,54	0
57	MG	14	3257	1/1	0.78	0.16	69,69,69,69	0
57	MG	1H	3089	1/1	0.78	0.20	38,38,38,38	0
57	MG	1H	3105	1/1	0.78	0.23	72,72,72,72	0
57	MG	14	3382	1/1	0.78	0.12	66,66,66,66	0
57	MG	14	3168	1/1	0.78	0.24	89,89,89,89	0
57	MG	14	3134	1/1	0.78	0.33	85,85,85,85	0
57	MG	13	1661	1/1	0.78	0.19	90,90,90,90	0
57	MG	1H	3241	1/1	0.78	0.22	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3326	1/1	0.78	0.09	77,77,77,77	0
57	MG	14	3139	1/1	0.78	0.31	68,68,68,68	0
57	MG	13	1647	1/1	0.79	0.47	88,88,88,88	0
57	MG	14	3421	1/1	0.79	0.10	97,97,97,97	0
57	MG	1G	1680	1/1	0.79	0.07	123,123,123,123	0
57	MG	14	3276	1/1	0.79	0.10	120,120,120,120	0
57	MG	1H	3170	1/1	0.79	0.34	80,80,80,80	0
57	MG	14	3381	1/1	0.79	0.31	79,79,79,79	0
57	MG	14	3187	1/1	0.79	0.25	117,117,117,117	0
57	MG	1H	3198	1/1	0.79	0.23	79,79,79,79	0
57	MG	1G	1688	1/1	0.79	0.24	113,113,113,113	0
57	MG	1G	1694	1/1	0.79	0.12	113,113,113,113	0
57	MG	1H	3434	1/1	0.79	0.17	95,95,95,95	0
57	MG	1J	207	1/1	0.79	0.15	97,97,97,97	0
57	MG	52	201	1/1	0.79	0.15	129,129,129,129	0
57	MG	19	301	1/1	0.79	0.42	48,48,48,48	0
57	MG	1H	3111	1/1	0.79	0.61	79,79,79,79	0
57	MG	1G	1632	1/1	0.79	0.09	91,91,91,91	0
57	MG	1G	1634	1/1	0.79	0.72	85,85,85,85	0
57	MG	14	3175	1/1	0.79	0.21	88,88,88,88	0
57	MG	13	1711	1/1	0.80	0.16	74,74,74,74	0
57	MG	1G	1663	1/1	0.80	0.23	98,98,98,98	0
57	MG	1H	3043	1/1	0.80	0.40	75,75,75,75	0
57	MG	1H	3421	1/1	0.80	0.06	82,82,82,82	0
57	MG	14	3142	1/1	0.80	0.29	80,80,80,80	0
57	MG	14	3146	1/1	0.80	0.28	75,75,75,75	0
57	MG	14	3271	1/1	0.80	0.06	94,94,94,94	0
57	MG	1H	3368	1/1	0.80	0.12	69,69,69,69	0
57	MG	1H	3224	1/1	0.80	0.33	85,85,85,85	0
57	MG	14	3069	1/1	0.80	0.46	86,86,86,86	0
57	MG	13	1664	1/1	0.80	0.46	78,78,78,78	0
57	MG	1H	3497	1/1	0.80	0.10	107,107,107,107	0
57	MG	1H	3329	1/1	0.80	0.08	85,85,85,85	0
57	MG	1H	3391	1/1	0.80	0.13	89,89,89,89	0
57	MG	14	3339	1/1	0.80	0.10	107,107,107,107	0
57	MG	1H	3332	1/1	0.80	0.16	102,102,102,102	0
57	MG	14	3108	1/1	0.80	0.28	72,72,72,72	0
57	MG	1G	1690	1/1	0.80	0.06	117,117,117,117	0
57	MG	1G	1693	1/1	0.80	0.07	129,129,129,129	0
57	MG	1H	3144	1/1	0.80	0.61	102,102,102,102	0
57	MG	1H	3405	1/1	0.80	0.09	66,66,66,66	0
57	MG	1G	1704	1/1	0.80	0.20	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1G	1636	1/1	0.80	0.33	90,90,90,90	0
57	MG	1G	1637	1/1	0.80	0.16	103,103,103,103	0
57	MG	1H	3350	1/1	0.80	0.11	74,74,74,74	0
57	MG	14	3007	1/1	0.80	0.26	60,60,60,60	0
57	MG	14	3133	1/1	0.80	1.00	88,88,88,88	0
57	MG	1G	1605	1/1	0.81	0.39	104,104,104,104	0
57	MG	14	3285	1/1	0.81	0.06	108,108,108,108	0
57	MG	1H	3074	1/1	0.81	0.38	64,64,64,64	0
57	MG	1H	3386	1/1	0.81	0.18	42,42,42,42	0
57	MG	14	3131	1/1	0.81	0.29	64,64,64,64	0
57	MG	1H	3106	1/1	0.81	0.23	87,87,87,87	0
57	MG	14	3183	1/1	0.81	0.30	103,103,103,103	0
57	MG	1H	3470	1/1	0.81	0.08	83,83,83,83	0
57	MG	1H	3125	1/1	0.81	0.20	56,56,56,56	0
57	MG	1H	3341	1/1	0.81	0.12	78,78,78,78	0
57	MG	14	3202	1/1	0.81	0.49	84,84,84,84	0
57	MG	14	3074	1/1	0.81	0.27	69,69,69,69	0
57	MG	1H	3486	1/1	0.81	0.07	95,95,95,95	0
57	MG	14	3091	1/1	0.81	0.09	78,78,78,78	0
57	MG	1H	3083	1/1	0.81	0.84	83,83,83,83	0
57	MG	1G	1697	1/1	0.81	0.09	128,128,128,128	0
57	MG	13	1675	1/1	0.81	0.47	101,101,101,101	0
57	MG	1H	3401	1/1	0.81	0.09	64,64,64,64	0
57	MG	1H	3308	1/1	0.81	0.14	50,50,50,50	0
57	MG	1G	1669	1/1	0.81	0.09	105,105,105,105	0
57	MG	1G	1670	1/1	0.81	0.06	134,134,134,134	0
57	MG	41	201	1/1	0.81	0.12	69,69,69,69	0
57	MG	1H	3055	1/1	0.81	0.18	48,48,48,48	0
57	MG	14	3404	1/1	0.82	0.16	97,97,97,97	0
57	MG	1H	3367	1/1	0.82	0.08	66,66,66,66	0
57	MG	14	3221	1/1	0.82	0.20	62,62,62,62	0
57	MG	1H	3197	1/1	0.82	0.51	77,77,77,77	0
57	MG	14	3412	1/1	0.82	0.10	97,97,97,97	0
57	MG	14	3345	1/1	0.82	0.16	99,99,99,99	0
57	MG	1H	3408	1/1	0.82	0.12	67,67,67,67	0
57	MG	13	1628	1/1	0.82	0.32	91,91,91,91	0
57	MG	14	3262	1/1	0.82	0.14	83,83,83,83	0
57	MG	1H	3201	1/1	0.82	0.75	104,104,104,104	0
57	MG	1H	3222	1/1	0.82	0.14	69,69,69,69	0
57	MG	1H	3456	1/1	0.82	0.06	94,94,94,94	0
57	MG	13	1649	1/1	0.82	0.42	75,75,75,75	0
57	MG	1H	3119	1/1	0.82	0.39	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3072	1/1	0.82	0.27	94,94,94,94	0
57	MG	1H	3020	1/1	0.82	0.14	73,73,73,73	0
57	MG	1J	205	1/1	0.82	0.15	73,73,73,73	0
57	MG	14	3155	1/1	0.82	0.16	78,78,78,78	0
57	MG	14	3295	1/1	0.82	0.10	60,60,60,60	0
57	MG	14	3386	1/1	0.82	0.09	74,74,74,74	0
57	MG	39	302	1/1	0.82	0.20	74,74,74,74	0
57	MG	14	3298	1/1	0.82	0.11	86,86,86,86	0
57	MG	1H	3038	1/1	0.82	0.32	50,50,50,50	0
57	MG	14	3075	1/1	0.82	0.16	73,73,73,73	0
57	MG	1H	3431	1/1	0.82	0.09	98,98,98,98	0
61	SPE	14	3437	13/13	0.82	0.29	59,68,73,74	0
57	MG	14	3368	1/1	0.83	0.09	88,88,88,88	0
57	MG	13	1670	1/1	0.83	0.30	82,82,82,82	0
57	MG	14	3204	1/1	0.83	0.22	72,72,72,72	0
57	MG	1H	3483	1/1	0.83	0.17	91,91,91,91	0
57	MG	1H	3485	1/1	0.83	0.06	77,77,77,77	0
57	MG	1H	3066	1/1	0.83	0.26	60,60,60,60	0
57	MG	1H	3347	1/1	0.83	0.10	67,67,67,67	0
57	MG	14	3214	1/1	0.83	0.70	80,80,80,80	0
57	MG	14	3003	1/1	0.83	0.27	78,78,78,78	0
57	MG	14	3225	1/1	0.83	0.07	73,73,73,73	0
57	MG	14	3391	1/1	0.83	0.23	99,99,99,99	0
57	MG	14	3230	1/1	0.83	0.17	63,63,63,63	0
57	MG	14	3243	1/1	0.83	0.15	58,58,58,58	0
57	MG	14	3005	1/1	0.83	0.26	54,54,54,54	0
57	MG	1H	3229	1/1	0.83	0.49	90,90,90,90	0
57	MG	1H	3071	1/1	0.83	0.22	79,79,79,79	0
57	MG	1H	3176	1/1	0.83	0.14	83,83,83,83	0
57	MG	1H	3236	1/1	0.83	0.31	67,67,67,67	0
57	MG	1H	3134	1/1	0.83	0.14	57,57,57,57	0
57	MG	1H	3156	1/1	0.83	0.15	83,83,83,83	0
57	MG	1H	3504	1/1	0.83	0.07	109,109,109,109	0
57	MG	1H	3376	1/1	0.83	0.15	66,66,66,66	0
57	MG	1H	3191	1/1	0.83	0.27	58,58,58,58	0
57	MG	14	3278	1/1	0.83	0.09	102,102,102,102	0
57	MG	1H	3517	1/1	0.83	0.07	91,91,91,91	0
57	MG	5I	101	1/1	0.83	0.10	79,79,79,79	0
57	MG	1G	1674	1/1	0.83	0.08	107,107,107,107	0
57	MG	1H	3220	1/1	0.83	0.45	89,89,89,89	0
57	MG	1H	3298	1/1	0.83	0.11	51,51,51,51	0
57	MG	1H	3523	1/1	0.83	0.11	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3453	1/1	0.83	0.12	93,93,93,93	0
57	MG	1G	1683	1/1	0.83	0.13	121,121,121,121	0
57	MG	1H	3161	1/1	0.83	0.38	67,67,67,67	0
57	MG	1H	3223	1/1	0.83	0.43	85,85,85,85	0
57	MG	13	1728	1/1	0.83	0.05	117,117,117,117	0
57	MG	14	3184	1/1	0.83	0.26	78,78,78,78	0
57	MG	1H	3049	1/1	0.83	0.25	62,62,62,62	0
57	MG	88	203	1/1	0.83	0.33	79,79,79,79	0
57	MG	1H	3407	1/1	0.83	0.09	72,72,72,72	0
57	MG	14	3198	1/1	0.83	0.43	81,81,81,81	0
57	MG	1G	1657	1/1	0.84	0.06	121,121,121,121	0
57	MG	1H	3178	1/1	0.84	0.43	63,63,63,63	0
57	MG	1H	3162	1/1	0.84	0.29	60,60,60,60	0
57	MG	1H	3420	1/1	0.84	0.12	69,69,69,69	0
57	MG	14	3099	1/1	0.84	0.18	78,78,78,78	0
57	MG	14	3318	1/1	0.84	0.12	89,89,89,89	0
57	MG	1H	3147	1/1	0.84	0.39	84,84,84,84	0
57	MG	14	3153	1/1	0.84	0.59	90,90,90,90	0
57	MG	1H	3274	1/1	0.84	0.14	97,97,97,97	0
57	MG	14	3414	1/1	0.84	0.12	97,97,97,97	0
57	MG	14	3213	1/1	0.84	0.71	87,87,87,87	0
57	MG	14	3418	1/1	0.84	0.07	90,90,90,90	0
57	MG	14	3107	1/1	0.84	0.36	54,54,54,54	0
57	MG	14	3343	1/1	0.84	0.06	80,80,80,80	0
57	MG	14	3215	1/1	0.84	1.26	86,86,86,86	0
57	MG	14	3427	1/1	0.84	0.08	65,65,65,65	0
57	MG	1H	3506	1/1	0.84	0.08	106,106,106,106	0
57	MG	13	1724	1/1	0.84	0.11	117,117,117,117	0
57	MG	1H	3136	1/1	0.84	0.41	116,116,116,116	0
57	MG	1G	1610	1/1	0.84	0.23	91,91,91,91	0
57	MG	1H	3140	1/1	0.84	0.20	54,54,54,54	0
57	MG	14	3256	1/1	0.84	0.13	83,83,83,83	0
57	MG	1H	3084	1/1	0.84	0.20	62,62,62,62	0
57	MG	1H	3406	1/1	0.84	0.08	85,85,85,85	0
57	MG	14	3063	1/1	0.84	0.24	67,67,67,67	0
57	MG	1H	3373	1/1	0.84	0.09	80,80,80,80	0
57	MG	13	1627	1/1	0.84	0.48	71,71,71,71	0
57	MG	14	3267	1/1	0.84	0.06	82,82,82,82	0
57	MG	1H	3525	1/1	0.84	0.22	68,68,68,68	0
57	MG	1G	1691	1/1	0.84	0.05	133,133,133,133	0
57	MG	16	201	1/1	0.84	0.25	62,62,62,62	0
57	MG	13	1732	1/1	0.84	0.08	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3389	1/1	0.84	0.07	93,93,93,93	0
57	MG	14	3157	1/1	0.85	0.32	92,92,92,92	0
57	MG	1H	3482	1/1	0.85	0.09	94,94,94,94	0
57	MG	1H	3242	1/1	0.85	0.47	90,90,90,90	0
57	MG	1G	1641	1/1	0.85	0.59	103,103,103,103	0
57	MG	13	1733	1/1	0.85	0.11	101,101,101,101	0
57	MG	32	301	1/1	0.85	0.47	113,113,113,113	0
57	MG	14	3170	1/1	0.85	0.58	81,81,81,81	0
57	MG	1H	3433	1/1	0.85	0.14	72,72,72,72	0
57	MG	1G	1647	1/1	0.85	0.10	97,97,97,97	0
57	MG	14	3399	1/1	0.85	0.09	123,123,123,123	0
57	MG	14	3111	1/1	0.85	0.19	58,58,58,58	0
57	MG	1G	1654	1/1	0.85	0.30	108,108,108,108	0
57	MG	14	3286	1/1	0.85	0.11	73,73,73,73	0
57	MG	13	1650	1/1	0.85	0.41	75,75,75,75	0
57	MG	14	3117	1/1	0.85	0.47	64,64,64,64	0
57	MG	1H	3058	1/1	0.85	0.17	60,60,60,60	0
57	MG	14	3006	1/1	0.85	0.32	75,75,75,75	0
57	MG	14	3323	1/1	0.85	0.11	81,81,81,81	0
57	MG	14	3419	1/1	0.85	0.06	110,110,110,110	0
57	MG	14	3196	1/1	0.85	0.51	71,71,71,71	0
57	MG	14	3328	1/1	0.85	0.08	81,81,81,81	0
57	MG	14	3425	1/1	0.85	0.13	91,91,91,91	0
57	MG	1H	3489	1/1	0.85	0.32	73,73,73,73	0
57	MG	16	206	1/1	0.85	0.12	77,77,77,77	0
57	MG	14	3130	1/1	0.85	0.24	66,66,66,66	0
57	MG	1H	3061	1/1	0.85	0.28	53,53,53,53	0
57	MG	1H	3128	1/1	0.85	0.42	85,85,85,85	0
57	MG	13	1665	1/1	0.85	0.69	82,82,82,82	0
57	MG	14	3061	1/1	0.85	0.31	61,61,61,61	0
57	MG	13	1654	1/1	0.85	0.41	101,101,101,101	0
57	MG	1H	3502	1/1	0.85	0.18	141,141,141,141	0
57	MG	1H	3194	1/1	0.85	0.10	63,63,63,63	0
57	MG	1G	1606	1/1	0.85	0.13	73,73,73,73	0
57	MG	1H	3164	1/1	0.85	0.41	69,69,69,69	0
57	MG	1H	3148	1/1	0.85	0.37	83,83,83,83	0
57	MG	13	1659	1/1	0.85	0.15	126,126,126,126	0
57	MG	1G	1621	1/1	0.85	0.42	82,82,82,82	0
57	MG	1H	3346	1/1	0.85	0.10	92,92,92,92	0
57	MG	14	3380	1/1	0.85	0.08	78,78,78,78	0
60	ZN	C5	202	1/1	0.85	0.06	165,165,165,165	0
57	MG	1H	3394	1/1	0.85	0.11	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3481	1/1	0.85	0.11	103,103,103,103	0
57	MG	1H	3235	1/1	0.86	0.20	71,71,71,71	0
57	MG	14	3025	1/1	0.86	0.12	80,80,80,80	0
57	MG	14	3049	1/1	0.86	1.18	83,83,83,83	0
57	MG	I8	101	1/1	0.86	0.09	85,85,85,85	0
57	MG	14	3401	1/1	0.86	0.15	110,110,110,110	0
57	MG	1H	3320	1/1	0.86	0.08	58,58,58,58	0
57	MG	14	3312	1/1	0.86	0.16	92,92,92,92	0
57	MG	1H	3457	1/1	0.86	0.16	84,84,84,84	0
57	MG	14	3408	1/1	0.86	0.13	92,92,92,92	0
57	MG	1H	3383	1/1	0.86	0.10	68,68,68,68	0
57	MG	13	1710	1/1	0.86	0.07	96,96,96,96	0
57	MG	14	3137	1/1	0.86	0.53	99,99,99,99	0
57	MG	1H	3174	1/1	0.86	0.23	55,55,55,55	0
57	MG	1H	3512	1/1	0.86	0.13	87,87,87,87	0
57	MG	1H	3513	1/1	0.86	0.15	53,53,53,53	0
57	MG	1H	3240	1/1	0.86	0.38	73,73,73,73	0
57	MG	1H	3046	1/1	0.86	0.13	33,33,33,33	0
57	MG	14	3077	1/1	0.86	0.22	52,52,52,52	0
57	MG	1H	3392	1/1	0.86	0.15	48,48,48,48	0
57	MG	13	1740	1/1	0.86	0.06	98,98,98,98	0
57	MG	1G	1695	1/1	0.86	0.23	107,107,107,107	0
57	MG	13	1622	1/1	0.86	0.26	63,63,63,63	0
57	MG	1H	3133	1/1	0.86	0.23	55,55,55,55	0
57	MG	14	3254	1/1	0.86	0.10	77,77,77,77	0
57	MG	14	3255	1/1	0.86	0.13	79,79,79,79	0
57	MG	14	3373	1/1	0.86	0.12	65,65,65,65	0
57	MG	1H	3271	1/1	0.86	0.19	51,51,51,51	0
57	MG	1J	202	1/1	0.86	0.28	92,92,92,92	0
57	MG	1H	3443	1/1	0.86	0.10	75,75,75,75	0
57	MG	1J	206	1/1	0.86	0.24	94,94,94,94	0
57	MG	1H	3005	1/1	0.86	0.21	68,68,68,68	0
57	MG	14	3165	1/1	0.86	0.66	77,77,77,77	0
57	MG	1H	3492	1/1	0.86	0.15	78,78,78,78	0
57	MG	1H	3101	1/1	0.86	0.41	78,78,78,78	0
57	MG	1H	3080	1/1	0.86	0.17	80,80,80,80	0
57	MG	1G	1667	1/1	0.86	0.11	103,103,103,103	0
57	MG	21	302	1/1	0.86	0.25	72,72,72,72	0
57	MG	1H	3498	1/1	0.86	0.20	98,98,98,98	0
57	MG	1H	3137	1/1	0.86	0.43	70,70,70,70	0
57	MG	78	201	1/1	0.86	0.10	66,66,66,66	0
57	MG	1H	3384	1/1	0.87	0.08	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	3455	1/1	0.87	0.15	76,76,76,76	0
57	MG	14	3336	1/1	0.87	0.09	94,94,94,94	0
57	MG	1H	3192	1/1	0.87	0.34	75,75,75,75	0
57	MG	14	3411	1/1	0.87	0.04	105,105,105,105	0
57	MG	13	1610	1/1	0.87	0.38	82,82,82,82	0
57	MG	1H	3213	1/1	0.87	0.29	71,71,71,71	0
57	MG	14	3416	1/1	0.87	0.13	102,102,102,102	0
57	MG	1H	3348	1/1	0.87	0.10	111,111,111,111	0
57	MG	1H	3008	1/1	0.87	0.39	82,82,82,82	0
57	MG	14	3125	1/1	0.87	0.21	81,81,81,81	0
57	MG	1H	3477	1/1	0.87	0.14	83,83,83,83	0
57	MG	1H	3001	1/1	0.87	0.39	84,84,84,84	0
57	MG	1H	3002	1/1	0.87	0.21	48,48,48,48	0
57	MG	14	3177	1/1	0.87	0.45	101,101,101,101	0
57	MG	1G	1656	1/1	0.87	0.08	100,100,100,100	0
57	MG	1H	3108	1/1	0.87	0.24	64,64,64,64	0
57	MG	1G	1659	1/1	0.87	0.04	115,115,115,115	0
57	MG	14	3268	1/1	0.87	0.15	82,82,82,82	0
57	MG	14	3076	1/1	0.87	0.45	81,81,81,81	0
57	MG	1H	3314	1/1	0.87	0.08	68,68,68,68	0
57	MG	14	3275	1/1	0.87	0.10	65,65,65,65	0
57	MG	13	1616	1/1	0.87	0.48	74,74,74,74	0
57	MG	14	3084	1/1	0.87	0.27	79,79,79,79	0
57	MG	14	3088	1/1	0.87	0.49	87,87,87,87	0
57	MG	14	3200	1/1	0.87	0.15	89,89,89,89	0
57	MG	13	1683	1/1	0.87	0.05	93,93,93,93	0
57	MG	1H	3375	1/1	0.87	0.10	79,79,79,79	0
57	MG	13	1651	1/1	0.87	0.29	98,98,98,98	0
57	MG	1H	3521	1/1	0.87	0.12	82,82,82,82	0
57	MG	14	3209	1/1	0.87	0.17	83,83,83,83	0
57	MG	1G	1611	1/1	0.87	0.65	76,76,76,76	0
57	MG	1G	1615	1/1	0.87	0.21	86,86,86,86	0
57	MG	1H	3412	1/1	0.87	0.10	75,75,75,75	0
57	MG	14	3403	1/1	0.87	0.12	84,84,84,84	0
57	MG	13	1726	1/1	0.87	0.08	74,74,74,74	0
57	MG	1H	3362	1/1	0.88	0.13	100,100,100,100	0
57	MG	1H	3515	1/1	0.88	0.19	58,58,58,58	0
57	MG	1H	3410	1/1	0.88	0.10	83,83,83,83	0
57	MG	1H	3010	1/1	0.88	0.37	39,39,39,39	0
57	MG	1H	3212	1/1	0.88	0.27	65,65,65,65	0
57	MG	1H	3069	1/1	0.88	0.41	69,69,69,69	0
57	MG	1H	3142	1/1	0.88	0.29	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	13	1696	1/1	0.88	0.05	93,93,93,93	0
57	MG	14	3143	1/1	0.88	0.17	57,57,57,57	0
57	MG	14	3210	1/1	0.88	0.29	91,91,91,91	0
57	MG	14	3413	1/1	0.88	0.15	107,107,107,107	0
57	MG	13	1700	1/1	0.88	0.12	102,102,102,102	0
57	MG	1H	3296	1/1	0.88	0.08	91,91,91,91	0
57	MG	1H	3379	1/1	0.88	0.09	73,73,73,73	0
57	MG	13	1620	1/1	0.88	0.53	86,86,86,86	0
57	MG	1G	1646	1/1	0.88	0.10	86,86,86,86	0
57	MG	16	204	1/1	0.88	0.06	59,59,59,59	0
57	MG	1G	1649	1/1	0.88	0.14	113,113,113,113	0
57	MG	14	3424	1/1	0.88	0.09	109,109,109,109	0
57	MG	13	1615	1/1	0.88	0.24	88,88,88,88	0
57	MG	14	3236	1/1	0.88	0.28	44,44,44,44	0
57	MG	14	3159	1/1	0.88	0.11	79,79,79,79	0
57	MG	2L	102	1/1	0.88	0.18	132,132,132,132	0
57	MG	13	1613	1/1	0.88	0.13	87,87,87,87	0
57	MG	13	1617	1/1	0.88	0.14	51,51,51,51	0
57	MG	14	3431	1/1	0.88	0.25	116,116,116,116	0
57	MG	1H	3126	1/1	0.88	0.43	86,86,86,86	0
57	MG	1H	3082	1/1	0.88	0.27	71,71,71,71	0
57	MG	14	3167	1/1	0.88	0.32	78,78,78,78	0
57	MG	13	1730	1/1	0.88	0.09	94,94,94,94	0
57	MG	13	1731	1/1	0.88	0.05	112,112,112,112	0
57	MG	14	3172	1/1	0.88	0.39	77,77,77,77	0
57	MG	1H	3057	1/1	0.88	0.38	75,75,75,75	0
57	MG	1H	3452	1/1	0.88	0.10	72,72,72,72	0
57	MG	13	1635	1/1	0.88	0.24	81,81,81,81	0
57	MG	14	3273	1/1	0.88	0.09	86,86,86,86	0
57	MG	13	1712	1/1	0.88	0.07	89,89,89,89	0
57	MG	1H	3165	1/1	0.88	0.29	64,64,64,64	0
57	MG	14	3390	1/1	0.88	0.22	94,94,94,94	0
57	MG	13	1713	1/1	0.88	0.08	86,86,86,86	0
57	MG	14	3129	1/1	0.88	0.42	118,118,118,118	0
61	SPE	1G	1703	13/13	0.88	0.09	90,107,113,114	0
57	MG	13	1694	1/1	0.88	0.14	82,82,82,82	0
57	MG	1G	1679	1/1	0.88	0.09	94,94,94,94	0
57	MG	13	1655	1/1	0.89	0.50	82,82,82,82	0
57	MG	14	3223	1/1	0.89	0.10	87,87,87,87	0
57	MG	1H	3181	1/1	0.89	0.24	65,65,65,65	0
57	MG	1H	3221	1/1	0.89	0.24	73,73,73,73	0
57	MG	1G	1648	1/1	0.89	0.16	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3241	1/1	0.89	0.05	78,78,78,78	0
57	MG	13	1684	1/1	0.89	0.08	85,85,85,85	0
57	MG	14	3070	1/1	0.89	0.22	52,52,52,52	0
57	MG	13	1719	1/1	0.89	0.04	81,81,81,81	0
57	MG	14	3346	1/1	0.89	0.08	99,99,99,99	0
57	MG	1H	3086	1/1	0.89	0.18	53,53,53,53	0
57	MG	13	1658	1/1	0.89	0.25	82,82,82,82	0
57	MG	1H	3371	1/1	0.89	0.10	56,56,56,56	0
57	MG	1H	3149	1/1	0.89	0.24	55,55,55,55	0
57	MG	1G	1664	1/1	0.89	0.05	80,80,80,80	0
57	MG	1H	3424	1/1	0.89	0.04	101,101,101,101	0
57	MG	1H	3246	1/1	0.89	0.09	55,55,55,55	0
57	MG	14	3374	1/1	0.89	0.12	92,92,92,92	0
57	MG	1H	3460	1/1	0.89	0.06	96,96,96,96	0
57	MG	16	202	1/1	0.89	0.23	82,82,82,82	0
57	MG	14	3001	1/1	0.89	0.17	57,57,57,57	0
57	MG	14	3144	1/1	0.89	0.32	102,102,102,102	0
57	MG	1G	1625	1/1	0.89	0.08	99,99,99,99	0
57	MG	14	3148	1/1	0.89	0.39	85,85,85,85	0
57	MG	1G	1629	1/1	0.89	0.52	85,85,85,85	0
57	MG	14	3203	1/1	0.89	0.53	79,79,79,79	0
57	MG	1H	3256	1/1	0.89	0.13	47,47,47,47	0
57	MG	1J	204	1/1	0.89	0.09	89,89,89,89	0
57	MG	14	3282	1/1	0.89	0.06	90,90,90,90	0
57	MG	14	3388	1/1	0.89	0.07	85,85,85,85	0
57	MG	1H	3098	1/1	0.89	0.41	46,46,46,46	0
57	MG	1G	1676	1/1	0.89	0.09	93,93,93,93	0
57	MG	1H	3215	1/1	0.89	0.13	63,63,63,63	0
57	MG	1H	3435	1/1	0.89	0.06	62,62,62,62	0
57	MG	14	3024	1/1	0.89	0.07	81,81,81,81	0
57	MG	14	3299	1/1	0.89	0.11	79,79,79,79	0
57	MG	1H	3480	1/1	0.89	0.07	87,87,87,87	0
57	MG	14	3160	1/1	0.89	0.18	65,65,65,65	0
57	MG	14	3402	1/1	0.89	0.08	78,78,78,78	0
57	MG	1H	3509	1/1	0.89	0.12	47,47,47,47	0
57	MG	13	1629	1/1	0.89	0.21	72,72,72,72	0
57	MG	14	3354	1/1	0.90	0.14	60,60,60,60	0
57	MG	13	1708	1/1	0.90	0.16	65,65,65,65	0
57	MG	14	3358	1/1	0.90	0.15	86,86,86,86	0
57	MG	1G	1639	1/1	0.90	0.54	78,78,78,78	0
57	MG	13	1725	1/1	0.90	0.04	115,115,115,115	0
57	MG	1H	3409	1/1	0.90	0.07	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	1G	1643	1/1	0.90	0.54	83,83,83,83	0
57	MG	1H	3244	1/1	0.90	0.42	74,74,74,74	0
57	MG	13	1626	1/1	0.90	0.33	84,84,84,84	0
57	MG	1H	3062	1/1	0.90	0.13	38,38,38,38	0
57	MG	1H	3013	1/1	0.90	0.27	40,40,40,40	0
57	MG	14	3009	1/1	0.90	0.34	57,57,57,57	0
57	MG	1H	3416	1/1	0.90	0.06	89,89,89,89	0
57	MG	14	3227	1/1	0.90	0.15	58,58,58,58	0
57	MG	14	3022	1/1	0.90	0.13	81,81,81,81	0
57	MG	1H	3268	1/1	0.90	0.17	59,59,59,59	0
57	MG	1H	3127	1/1	0.90	0.12	91,91,91,91	0
57	MG	1H	3484	1/1	0.90	0.09	105,105,105,105	0
57	MG	14	3245	1/1	0.90	0.14	63,63,63,63	0
57	MG	14	3042	1/1	0.90	0.19	65,65,65,65	0
57	MG	1H	3088	1/1	0.90	0.42	80,80,80,80	0
57	MG	14	3057	1/1	0.90	0.25	49,49,49,49	0
57	MG	13	1656	1/1	0.90	0.38	74,74,74,74	0
57	MG	14	3397	1/1	0.90	0.17	96,96,96,96	0
57	MG	1H	3294	1/1	0.90	0.16	54,54,54,54	0
57	MG	1H	3037	1/1	0.90	0.54	75,75,75,75	0
57	MG	14	3260	1/1	0.90	0.11	106,106,106,106	0
57	MG	13	1657	1/1	0.90	0.15	68,68,68,68	0
57	MG	14	3263	1/1	0.90	0.09	71,71,71,71	0
57	MG	1H	3490	1/1	0.90	0.07	89,89,89,89	0
57	MG	14	3405	1/1	0.90	0.07	108,108,108,108	0
57	MG	1H	3429	1/1	0.90	0.10	88,88,88,88	0
57	MG	88	202	1/1	0.90	0.32	66,66,66,66	0
57	MG	14	3158	1/1	0.90	0.24	66,66,66,66	0
57	MG	1H	3303	1/1	0.90	0.17	48,48,48,48	0
57	MG	1H	3103	1/1	0.90	0.32	61,61,61,61	0
57	MG	13	1695	1/1	0.90	0.10	106,106,106,106	0
57	MG	13	1618	1/1	0.90	0.20	48,48,48,48	0
57	MG	13	1640	1/1	0.90	0.28	92,92,92,92	0
57	MG	1H	3321	1/1	0.90	0.46	86,86,86,86	0
57	MG	1H	3109	1/1	0.90	0.31	59,59,59,59	0
57	MG	14	3279	1/1	0.90	0.08	58,58,58,58	0
57	MG	14	3083	1/1	0.90	0.15	72,72,72,72	0
57	MG	14	3420	1/1	0.90	0.07	107,107,107,107	0
57	MG	1H	3331	1/1	0.90	0.12	70,70,70,70	0
57	MG	14	3169	1/1	0.90	0.31	85,85,85,85	0
57	MG	1G	1612	1/1	0.90	0.15	106,106,106,106	0
57	MG	1G	1614	1/1	0.90	0.60	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	14	3296	1/1	0.90	0.12	72,72,72,72	0
57	MG	1G	1687	1/1	0.90	0.08	111,111,111,111	0
57	MG	1H	3505	1/1	0.90	0.14	100,100,100,100	0
57	MG	14	3307	1/1	0.90	0.15	66,66,66,66	0
57	MG	13	1641	1/1	0.90	0.19	81,81,81,81	0
57	MG	14	3316	1/1	0.90	0.13	69,69,69,69	0
57	MG	1G	1619	1/1	0.90	0.10	102,102,102,102	0
57	MG	14	3319	1/1	0.90	0.07	95,95,95,95	0
57	MG	1G	1692	1/1	0.90	0.12	101,101,101,101	0
57	MG	1H	3508	1/1	0.90	0.10	117,117,117,117	0
57	MG	1J	201	1/1	0.90	0.29	73,73,73,73	0
57	MG	14	3327	1/1	0.90	0.09	82,82,82,82	0
57	MG	1H	3334	1/1	0.90	0.10	77,77,77,77	0
57	MG	1G	1628	1/1	0.90	0.31	113,113,113,113	0
57	MG	14	3186	1/1	0.90	0.16	108,108,108,108	0
57	MG	1H	3336	1/1	0.90	0.14	62,62,62,62	0
57	MG	14	3193	1/1	0.90	0.13	45,45,45,45	0
57	MG	13	1722	1/1	0.90	0.09	87,87,87,87	0
57	MG	1H	3404	1/1	0.90	0.13	71,71,71,71	0
57	MG	25	201	1/1	0.90	0.05	115,115,115,115	0
57	MG	1H	3115	1/1	0.90	0.10	61,61,61,61	0
57	MG	42	201	1/1	0.90	0.21	120,120,120,120	0
57	MG	14	3119	1/1	0.90	0.20	81,81,81,81	0
57	MG	14	3120	1/1	0.90	0.18	78,78,78,78	0
57	MG	14	3121	1/1	0.90	0.12	61,61,61,61	0
57	MG	14	3349	1/1	0.90	0.13	83,83,83,83	0
57	MG	13	1631	1/1	0.90	0.09	78,78,78,78	0
57	MG	13	1677	1/1	0.91	0.47	77,77,77,77	0
57	MG	14	3396	1/1	0.91	0.03	126,126,126,126	0
57	MG	14	3297	1/1	0.91	0.17	71,71,71,71	0
57	MG	13	1701	1/1	0.91	0.12	108,108,108,108	0
57	MG	13	1720	1/1	0.91	0.15	109,109,109,109	0
57	MG	16	209	1/1	0.91	0.47	76,76,76,76	0
57	MG	14	3309	1/1	0.91	0.14	55,55,55,55	0
57	MG	1G	1696	1/1	0.91	0.07	128,128,128,128	0
57	MG	14	3313	1/1	0.91	0.05	105,105,105,105	0
57	MG	2K	101	1/1	0.91	0.11	100,100,100,100	0
57	MG	1H	3093	1/1	0.91	0.09	56,56,56,56	0
57	MG	13	1735	1/1	0.91	0.07	100,100,100,100	0
57	MG	1H	3447	1/1	0.91	0.24	70,70,70,70	0
57	MG	14	3090	1/1	0.91	0.35	86,86,86,86	0
57	MG	1H	3151	1/1	0.91	0.55	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3095	1/1	0.91	0.18	62,62,62,62	0
57	MG	1G	1652	1/1	0.91	0.15	81,81,81,81	0
57	MG	1H	3132	1/1	0.91	0.23	65,65,65,65	0
57	MG	1H	3116	1/1	0.91	0.16	53,53,53,53	0
57	MG	1H	3251	1/1	0.91	0.16	48,48,48,48	0
57	MG	14	3237	1/1	0.91	0.26	51,51,51,51	0
57	MG	1G	1604	1/1	0.91	0.17	127,127,127,127	0
57	MG	1H	3185	1/1	0.91	0.49	64,64,64,64	0
57	MG	1H	3190	1/1	0.91	0.38	91,91,91,91	0
57	MG	14	3251	1/1	0.91	0.09	80,80,80,80	0
57	MG	14	3423	1/1	0.91	0.07	120,120,120,120	0
57	MG	1H	3351	1/1	0.91	0.09	68,68,68,68	0
57	MG	1H	3117	1/1	0.91	0.18	60,60,60,60	0
57	MG	1H	3270	1/1	0.91	0.15	50,50,50,50	0
57	MG	13	1645	1/1	0.91	0.28	92,92,92,92	0
57	MG	14	3011	1/1	0.91	0.18	44,44,44,44	0
57	MG	14	3015	1/1	0.91	0.29	63,63,63,63	0
57	MG	1H	3193	1/1	0.91	0.26	61,61,61,61	0
57	MG	14	3359	1/1	0.91	0.08	93,93,93,93	0
57	MG	13	1672	1/1	0.91	0.15	88,88,88,88	0
57	MG	1H	3104	1/1	0.91	0.13	43,43,43,43	0
57	MG	14	3369	1/1	0.91	0.10	91,91,91,91	0
57	MG	1H	3138	1/1	0.91	0.14	54,54,54,54	0
57	MG	14	3180	1/1	0.91	0.41	91,91,91,91	0
57	MG	1H	3122	1/1	0.91	0.09	52,52,52,52	0
57	MG	14	3039	1/1	0.91	0.71	89,89,89,89	0
57	MG	1G	1624	1/1	0.91	0.13	95,95,95,95	0
57	MG	1H	3301	1/1	0.91	0.17	45,45,45,45	0
57	MG	1H	3228	1/1	0.91	0.15	60,60,60,60	0
57	MG	13	1697	1/1	0.91	0.07	84,84,84,84	0
57	MG	14	3188	1/1	0.91	0.50	72,72,72,72	0
57	MG	39	301	1/1	0.91	0.18	89,89,89,89	0
57	MG	1G	1630	1/1	0.91	0.37	72,72,72,72	0
57	MG	1H	3427	1/1	0.91	0.10	67,67,67,67	0
57	MG	1H	3124	1/1	0.91	0.21	61,61,61,61	0
57	MG	45	202	1/1	0.91	0.44	64,64,64,64	0
57	MG	1H	3310	1/1	0.91	0.18	70,70,70,70	0
57	MG	1G	1689	1/1	0.91	0.06	116,116,116,116	0
57	MG	14	3201	1/1	0.91	0.20	88,88,88,88	0
57	MG	1H	3231	1/1	0.91	0.49	66,66,66,66	0
57	MG	14	3392	1/1	0.91	0.07	63,63,63,63	0
57	MG	1H	3202	1/1	0.91	0.45	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	3095	1/1	0.92	0.17	70,70,70,70	0
57	MG	Q8	300	1/1	0.92	0.12	80,80,80,80	0
57	MG	14	3259	1/1	0.92	0.10	71,71,71,71	0
57	MG	1G	1602	1/1	0.92	0.33	106,106,106,106	0
57	MG	14	3383	1/1	0.92	0.07	90,90,90,90	0
57	MG	1H	3370	1/1	0.92	0.08	68,68,68,68	0
57	MG	1H	3494	1/1	0.92	0.08	72,72,72,72	0
57	MG	1H	3189	1/1	0.92	0.35	68,68,68,68	0
57	MG	1G	1608	1/1	0.92	0.37	93,93,93,93	0
57	MG	1H	3425	1/1	0.92	0.07	64,64,64,64	0
57	MG	13	1682	1/1	0.92	0.11	93,93,93,93	0
57	MG	1H	3100	1/1	0.92	0.54	68,68,68,68	0
57	MG	1H	3299	1/1	0.92	0.13	48,48,48,48	0
57	MG	1H	3501	1/1	0.92	0.07	90,90,90,90	0
57	MG	13	1686	1/1	0.92	0.17	76,76,76,76	0
57	MG	1H	3432	1/1	0.92	0.11	93,93,93,93	0
57	MG	1H	3102	1/1	0.92	0.21	60,60,60,60	0
57	MG	1H	3077	1/1	0.92	0.42	80,80,80,80	0
57	MG	1H	3078	1/1	0.92	0.28	58,58,58,58	0
57	MG	14	3178	1/1	0.92	0.73	78,78,78,78	0
57	MG	14	3400	1/1	0.92	0.05	108,108,108,108	0
57	MG	1H	3158	1/1	0.92	0.17	71,71,71,71	0
57	MG	1H	3312	1/1	0.92	0.15	44,44,44,44	0
57	MG	14	3289	1/1	0.92	0.13	74,74,74,74	0
57	MG	1H	3023	1/1	0.92	0.17	50,50,50,50	0
57	MG	1G	1701	1/1	0.92	0.03	111,111,111,111	0
57	MG	1H	3390	1/1	0.92	0.20	64,64,64,64	0
57	MG	14	3113	1/1	0.92	0.18	52,52,52,52	0
57	MG	1H	3446	1/1	0.92	0.06	98,98,98,98	0
57	MG	1H	3034	1/1	0.92	0.21	46,46,46,46	0
57	MG	14	3302	1/1	0.92	0.11	58,58,58,58	0
57	MG	14	3303	1/1	0.92	0.07	74,74,74,74	0
57	MG	14	3306	1/1	0.92	0.08	58,58,58,58	0
57	MG	14	3190	1/1	0.92	0.37	59,59,59,59	0
57	MG	13	1707	1/1	0.92	0.10	56,56,56,56	0
57	MG	3I	201	1/1	0.92	0.24	60,60,60,60	0
57	MG	13	1698	1/1	0.92	0.11	83,83,83,83	0
57	MG	1H	3519	1/1	0.92	0.18	116,116,116,116	0
57	MG	1G	1640	1/1	0.92	0.39	108,108,108,108	0
57	MG	1H	3167	1/1	0.92	0.53	98,98,98,98	0
57	MG	1H	3397	1/1	0.92	0.19	51,51,51,51	0
57	MG	1H	3064	1/1	0.92	0.07	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3403	1/1	0.92	0.07	99,99,99,99	0
57	MG	1H	3524	1/1	0.92	0.18	81,81,81,81	0
57	MG	13	1717	1/1	0.92	0.11	99,99,99,99	0
57	MG	1H	3209	1/1	0.92	0.60	76,76,76,76	0
57	MG	14	3333	1/1	0.92	0.17	50,50,50,50	0
57	MG	1H	3340	1/1	0.92	0.05	76,76,76,76	0
57	MG	14	3337	1/1	0.92	0.14	104,104,104,104	0
57	MG	13	1638	1/1	0.92	0.07	85,85,85,85	0
57	MG	14	3020	1/1	0.92	0.12	75,75,75,75	0
57	MG	1H	3345	1/1	0.92	0.06	102,102,102,102	0
57	MG	1H	3087	1/1	0.92	0.21	71,71,71,71	0
57	MG	13	1612	1/1	0.92	0.12	86,86,86,86	0
57	MG	16	207	1/1	0.92	0.33	74,74,74,74	0
57	MG	14	3141	1/1	0.92	0.28	95,95,95,95	0
57	MG	14	3224	1/1	0.92	0.24	45,45,45,45	0
57	MG	1G	1660	1/1	0.92	0.14	74,74,74,74	0
57	MG	14	3041	1/1	0.92	0.20	55,55,55,55	0
57	MG	1G	1662	1/1	0.92	0.13	91,91,91,91	0
57	MG	1H	3253	1/1	0.92	0.08	42,42,42,42	0
57	MG	14	3357	1/1	0.92	0.08	105,105,105,105	0
57	MG	1H	3051	1/1	0.92	0.11	60,60,60,60	0
57	MG	14	3149	1/1	0.92	0.28	72,72,72,72	0
57	MG	14	3360	1/1	0.92	0.07	96,96,96,96	0
57	MG	14	3361	1/1	0.92	0.05	79,79,79,79	0
57	MG	1H	3092	1/1	0.92	0.24	61,61,61,61	0
57	MG	1H	3146	1/1	0.92	0.16	52,52,52,52	0
57	MG	1H	3417	1/1	0.92	0.18	83,83,83,83	0
60	ZN	G8	201	1/1	0.92	0.14	139,139,139,139	0
57	MG	1H	3418	1/1	0.92	0.10	46,46,46,46	0
57	MG	1H	3219	1/1	0.92	0.20	71,71,71,71	0
57	MG	1H	3073	1/1	0.92	0.21	66,66,66,66	0
57	MG	1H	3094	1/1	0.92	0.15	33,33,33,33	0
57	MG	1H	3076	1/1	0.93	0.24	72,72,72,72	0
57	MG	14	3331	1/1	0.93	0.20	90,90,90,90	0
57	MG	1H	3293	1/1	0.93	0.14	73,73,73,73	0
57	MG	14	3071	1/1	0.93	0.19	74,74,74,74	0
57	MG	14	3335	1/1	0.93	0.08	81,81,81,81	0
57	MG	13	1639	1/1	0.93	0.58	70,70,70,70	0
57	MG	1H	3462	1/1	0.93	0.10	94,94,94,94	0
57	MG	14	3338	1/1	0.93	0.05	107,107,107,107	0
57	MG	1H	3468	1/1	0.93	0.24	82,82,82,82	0
57	MG	2L	101	1/1	0.93	0.40	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3160	1/1	0.93	0.18	71,71,71,71	0
57	MG	14	3410	1/1	0.93	0.06	85,85,85,85	0
57	MG	1H	3436	1/1	0.93	0.10	70,70,70,70	0
57	MG	14	3079	1/1	0.93	0.30	48,48,48,48	0
57	MG	1H	3438	1/1	0.93	0.04	62,62,62,62	0
57	MG	1H	3478	1/1	0.93	0.06	101,101,101,101	0
57	MG	14	3415	1/1	0.93	0.15	103,103,103,103	0
57	MG	1G	1677	1/1	0.93	0.17	92,92,92,92	0
57	MG	1H	3378	1/1	0.93	0.09	50,50,50,50	0
57	MG	13	1667	1/1	0.93	0.67	89,89,89,89	0
57	MG	14	3352	1/1	0.93	0.07	82,82,82,82	0
57	MG	1H	3261	1/1	0.93	0.08	63,63,63,63	0
57	MG	14	3094	1/1	0.93	0.65	73,73,73,73	0
57	MG	1G	1681	1/1	0.93	0.06	96,96,96,96	0
57	MG	1G	1645	1/1	0.93	0.14	81,81,81,81	0
57	MG	1H	3300	1/1	0.93	0.19	62,62,62,62	0
57	MG	1G	1685	1/1	0.93	0.14	110,110,110,110	0
57	MG	1H	3048	1/1	0.93	0.13	45,45,45,45	0
57	MG	14	3365	1/1	0.93	0.13	78,78,78,78	0
57	MG	14	3284	1/1	0.93	0.14	72,72,72,72	0
57	MG	1G	1613	1/1	0.93	0.76	89,89,89,89	0
57	MG	1H	3028	1/1	0.93	0.10	67,67,67,67	0
57	MG	14	3371	1/1	0.93	0.10	107,107,107,107	0
57	MG	1G	1650	1/1	0.93	0.16	101,101,101,101	0
57	MG	1H	3155	1/1	0.93	0.15	55,55,55,55	0
57	MG	1H	3067	1/1	0.93	0.21	58,58,58,58	0
57	MG	14	3112	1/1	0.93	0.20	83,83,83,83	0
57	MG	14	3378	1/1	0.93	0.13	92,92,92,92	0
57	MG	14	3220	1/1	0.93	0.12	54,54,54,54	0
57	MG	1G	1655	1/1	0.93	0.12	110,110,110,110	0
57	MG	16	210	1/1	0.93	0.11	73,73,73,73	0
57	MG	14	3043	1/1	0.93	0.29	71,71,71,71	0
57	MG	1G	1620	1/1	0.93	0.19	91,91,91,91	0
57	MG	14	3051	1/1	0.93	0.27	61,61,61,61	0
57	MG	1H	3232	1/1	0.93	0.22	48,48,48,48	0
57	MG	14	3233	1/1	0.93	0.26	65,65,65,65	0
57	MG	14	3311	1/1	0.93	0.11	67,67,67,67	0
57	MG	1H	3343	1/1	0.93	0.07	78,78,78,78	0
57	MG	1H	3430	1/1	0.93	0.08	73,73,73,73	0
57	MG	1H	3393	1/1	0.93	0.11	50,50,50,50	0
57	MG	14	3317	1/1	0.93	0.08	82,82,82,82	0
57	MG	14	3124	1/1	0.93	0.18	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	M5	101	1/1	0.93	0.18	88,88,88,88	0
57	MG	1G	1700	1/1	0.93	0.06	109,109,109,109	0
57	MG	14	3249	1/1	0.93	0.15	52,52,52,52	0
57	MG	14	3250	1/1	0.93	0.08	79,79,79,79	0
57	MG	88	201	1/1	0.93	0.19	76,76,76,76	0
57	MG	14	3068	1/1	0.93	0.41	53,53,53,53	0
57	MG	14	3238	1/1	0.94	0.20	50,50,50,50	0
57	MG	14	3362	1/1	0.94	0.06	114,114,114,114	0
57	MG	1H	3475	1/1	0.94	0.12	97,97,97,97	0
57	MG	13	1644	1/1	0.94	0.45	85,85,85,85	0
57	MG	14	3367	1/1	0.94	0.08	106,106,106,106	0
57	MG	14	3244	1/1	0.94	0.15	54,54,54,54	0
57	MG	1H	3218	1/1	0.94	0.21	37,37,37,37	0
57	MG	14	3029	1/1	0.94	0.21	57,57,57,57	0
57	MG	14	3033	1/1	0.94	0.33	80,80,80,80	0
57	MG	14	3035	1/1	0.94	0.41	58,58,58,58	0
57	MG	14	3038	1/1	0.94	0.21	52,52,52,52	0
57	MG	21	301	1/1	0.94	0.14	59,59,59,59	0
57	MG	1H	3259	1/1	0.94	0.17	54,54,54,54	0
57	MG	14	3145	1/1	0.94	0.21	90,90,90,90	0
57	MG	13	1681	1/1	0.94	0.14	59,59,59,59	0
57	MG	1G	1666	1/1	0.94	0.14	100,100,100,100	0
57	MG	14	3046	1/1	0.94	0.45	79,79,79,79	0
57	MG	14	3150	1/1	0.94	0.12	63,63,63,63	0
57	MG	1H	3266	1/1	0.94	0.08	54,54,54,54	0
57	MG	14	3050	1/1	0.94	0.20	57,57,57,57	0
57	MG	1H	3184	1/1	0.94	0.24	70,70,70,70	0
57	MG	14	3265	1/1	0.94	0.07	91,91,91,91	0
57	MG	14	3054	1/1	0.94	0.25	79,79,79,79	0
57	MG	1H	3009	1/1	0.94	0.54	71,71,71,71	0
57	MG	13	1666	1/1	0.94	0.20	85,85,85,85	0
57	MG	14	3269	1/1	0.94	0.05	78,78,78,78	0
57	MG	13	1653	1/1	0.94	0.33	73,73,73,73	0
57	MG	13	1633	1/1	0.94	0.22	73,73,73,73	0
57	MG	1H	3356	1/1	0.94	0.11	54,54,54,54	0
57	MG	1H	3357	1/1	0.94	0.12	52,52,52,52	0
57	MG	1H	3358	1/1	0.94	0.18	45,45,45,45	0
57	MG	14	3162	1/1	0.94	0.40	74,74,74,74	0
57	MG	1H	3276	1/1	0.94	0.10	78,78,78,78	0
57	MG	1H	3131	1/1	0.94	0.50	83,83,83,83	0
57	MG	1H	3491	1/1	0.94	0.10	70,70,70,70	0
57	MG	1H	3365	1/1	0.94	0.16	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	3366	1/1	0.94	0.17	68,68,68,68	0
57	MG	1H	3279	1/1	0.94	0.15	48,48,48,48	0
57	MG	1H	3283	1/1	0.94	0.15	71,71,71,71	0
57	MG	1G	1684	1/1	0.94	0.06	96,96,96,96	0
57	MG	14	3292	1/1	0.94	0.12	74,74,74,74	0
57	MG	1H	3285	1/1	0.94	0.14	55,55,55,55	0
57	MG	1H	3288	1/1	0.94	0.08	54,54,54,54	0
57	MG	1H	3372	1/1	0.94	0.08	89,89,89,89	0
57	MG	1H	3021	1/1	0.94	0.17	49,49,49,49	0
57	MG	1H	3107	1/1	0.94	0.12	60,60,60,60	0
57	MG	1H	3295	1/1	0.94	0.09	89,89,89,89	0
57	MG	13	1634	1/1	0.94	0.36	75,75,75,75	0
57	MG	14	3304	1/1	0.94	0.10	74,74,74,74	0
57	MG	1H	3026	1/1	0.94	0.39	55,55,55,55	0
57	MG	1G	1623	1/1	0.94	0.21	115,115,115,115	0
57	MG	13	1715	1/1	0.94	0.06	76,76,76,76	0
57	MG	14	3097	1/1	0.94	0.26	97,97,97,97	0
57	MG	1H	3507	1/1	0.94	0.08	57,57,57,57	0
57	MG	1G	1626	1/1	0.94	0.19	83,83,83,83	0
57	MG	1H	3441	1/1	0.94	0.06	105,105,105,105	0
57	MG	1H	3030	1/1	0.94	0.10	39,39,39,39	0
57	MG	14	3104	1/1	0.94	0.18	78,78,78,78	0
57	MG	14	3105	1/1	0.94	0.14	73,73,73,73	0
57	MG	14	3321	1/1	0.94	0.08	69,69,69,69	0
57	MG	14	3106	1/1	0.94	0.41	57,57,57,57	0
57	MG	1H	3510	1/1	0.94	0.14	39,39,39,39	0
57	MG	1H	3114	1/1	0.94	0.15	71,71,71,71	0
57	MG	13	1716	1/1	0.94	0.10	71,71,71,71	0
57	MG	1H	3035	1/1	0.94	0.11	40,40,40,40	0
57	MG	13	1642	1/1	0.94	0.13	103,103,103,103	0
57	MG	13	1718	1/1	0.94	0.09	90,90,90,90	0
57	MG	14	3205	1/1	0.94	0.45	59,59,59,59	0
57	MG	1H	3449	1/1	0.94	0.10	80,80,80,80	0
57	MG	1H	3238	1/1	0.94	0.34	80,80,80,80	0
57	MG	1H	3313	1/1	0.94	0.17	47,47,47,47	0
57	MG	1H	3239	1/1	0.94	0.10	67,67,67,67	0
57	MG	1H	3041	1/1	0.94	0.28	51,51,51,51	0
57	MG	14	3340	1/1	0.94	0.09	107,107,107,107	0
57	MG	1H	3173	1/1	0.94	0.22	59,59,59,59	0
57	MG	13	1687	1/1	0.94	0.06	103,103,103,103	0
57	MG	1H	3175	1/1	0.94	0.29	64,64,64,64	0
57	MG	13	1691	1/1	0.94	0.12	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	3218	1/1	0.94	0.09	65,65,65,65	0
57	MG	14	3123	1/1	0.94	0.28	83,83,83,83	0
57	MG	1H	3245	1/1	0.94	0.11	47,47,47,47	0
57	MG	13	1625	1/1	0.94	0.16	82,82,82,82	0
57	MG	14	3010	1/1	0.94	0.25	57,57,57,57	0
57	MG	1H	3337	1/1	0.94	0.05	86,86,86,86	0
57	MG	1H	3469	1/1	0.94	0.14	58,58,58,58	0
58	PAR	1G	1702	42/42	0.94	0.22	83,92,100,103	0
57	MG	1H	3099	1/1	0.94	0.44	56,56,56,56	0
57	MG	14	3232	1/1	0.94	0.14	66,66,66,66	0
57	MG	14	3018	1/1	0.94	0.14	44,44,44,44	0
57	MG	1H	3473	1/1	0.94	0.13	95,95,95,95	0
57	MG	1H	3474	1/1	0.94	0.09	93,93,93,93	0
57	MG	13	1611	1/1	0.95	0.25	70,70,70,70	0
57	MG	14	3174	1/1	0.95	0.08	89,89,89,89	0
57	MG	14	3370	1/1	0.95	0.06	97,97,97,97	0
57	MG	1G	1665	1/1	0.95	0.05	91,91,91,91	0
57	MG	1H	3159	1/1	0.95	0.13	80,80,80,80	0
57	MG	13	1636	1/1	0.95	0.28	74,74,74,74	0
57	MG	14	3272	1/1	0.95	0.09	71,71,71,71	0
57	MG	1H	3459	1/1	0.95	0.13	75,75,75,75	0
57	MG	14	3179	1/1	0.95	0.32	77,77,77,77	0
57	MG	14	3021	1/1	0.95	0.35	38,38,38,38	0
57	MG	1H	3139	1/1	0.95	0.35	71,71,71,71	0
57	MG	1H	3047	1/1	0.95	0.15	55,55,55,55	0
57	MG	1H	3467	1/1	0.95	0.03	84,84,84,84	0
57	MG	13	1721	1/1	0.95	0.17	106,106,106,106	0
57	MG	14	3281	1/1	0.95	0.16	69,69,69,69	0
57	MG	14	3028	1/1	0.95	0.33	45,45,45,45	0
57	MG	14	3283	1/1	0.95	0.07	68,68,68,68	0
57	MG	1H	3514	1/1	0.95	0.05	98,98,98,98	0
57	MG	14	3030	1/1	0.95	0.36	57,57,57,57	0
57	MG	14	3189	1/1	0.95	0.33	51,51,51,51	0
57	MG	14	3288	1/1	0.95	0.19	49,49,49,49	0
57	MG	1G	1616	1/1	0.95	0.13	94,94,94,94	0
57	MG	14	3290	1/1	0.95	0.22	59,59,59,59	0
57	MG	14	3192	1/1	0.95	0.28	74,74,74,74	0
57	MG	1G	1617	1/1	0.95	0.11	116,116,116,116	0
57	MG	14	3195	1/1	0.95	0.25	78,78,78,78	0
57	MG	14	3036	1/1	0.95	0.27	85,85,85,85	0
57	MG	1H	3249	1/1	0.95	0.13	63,63,63,63	0
57	MG	1H	3250	1/1	0.95	0.18	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	1H	3472	1/1	0.95	0.04	83,83,83,83	0
57	MG	14	3300	1/1	0.95	0.09	89,89,89,89	0
57	MG	2K	102	1/1	0.95	0.17	78,78,78,78	0
57	MG	1H	3143	1/1	0.95	0.37	50,50,50,50	0
57	MG	14	3126	1/1	0.95	0.28	72,72,72,72	0
57	MG	13	1646	1/1	0.95	0.17	71,71,71,71	0
57	MG	1H	3257	1/1	0.95	0.14	43,43,43,43	0
57	MG	1H	3068	1/1	0.95	0.40	72,72,72,72	0
57	MG	1H	3316	1/1	0.95	0.07	78,78,78,78	0
57	MG	14	3053	1/1	0.95	0.07	95,95,95,95	0
57	MG	1H	3260	1/1	0.95	0.19	42,42,42,42	0
57	MG	14	3315	1/1	0.95	0.12	68,68,68,68	0
57	MG	1H	3377	1/1	0.95	0.09	76,76,76,76	0
57	MG	14	3058	1/1	0.95	0.34	84,84,84,84	0
57	MG	13	1703	1/1	0.95	0.13	70,70,70,70	0
57	MG	14	3136	1/1	0.95	0.46	92,92,92,92	0
57	MG	14	3320	1/1	0.95	0.09	53,53,53,53	0
57	MG	1H	3326	1/1	0.95	0.10	62,62,62,62	0
57	MG	14	3062	1/1	0.95	0.25	59,59,59,59	0
57	MG	1H	3381	1/1	0.95	0.11	74,74,74,74	0
57	MG	1H	3052	1/1	0.95	0.18	59,59,59,59	0
57	MG	14	3065	1/1	0.95	0.10	47,47,47,47	0
57	MG	14	3329	1/1	0.95	0.06	105,105,105,105	0
57	MG	1H	3200	1/1	0.95	0.26	71,71,71,71	0
57	MG	1G	1638	1/1	0.95	0.14	127,127,127,127	0
57	MG	1H	3072	1/1	0.95	0.20	58,58,58,58	0
57	MG	1H	3269	1/1	0.95	0.16	41,41,41,41	0
57	MG	14	3334	1/1	0.95	0.10	60,60,60,60	0
57	MG	13	1624	1/1	0.95	0.32	59,59,59,59	0
57	MG	1H	3110	1/1	0.95	0.23	79,79,79,79	0
57	MG	1H	3054	1/1	0.95	0.35	52,52,52,52	0
57	MG	1H	3233	1/1	0.95	0.08	93,93,93,93	0
57	MG	1H	3017	1/1	0.95	0.29	62,62,62,62	0
57	MG	1H	3493	1/1	0.95	0.05	101,101,101,101	0
57	MG	31	302	1/1	0.95	0.16	77,77,77,77	0
57	MG	1H	3019	1/1	0.95	0.23	32,32,32,32	0
57	MG	1H	3344	1/1	0.95	0.08	103,103,103,103	0
57	MG	14	3246	1/1	0.95	0.13	61,61,61,61	0
57	MG	1J	203	1/1	0.95	0.26	73,73,73,73	0
57	MG	14	3247	1/1	0.95	0.09	52,52,52,52	0
57	MG	14	3248	1/1	0.95	0.29	47,47,47,47	0
57	MG	1H	3282	1/1	0.95	0.04	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	1H	3039	1/1	0.95	0.20	33,33,33,33	0
57	MG	14	3085	1/1	0.95	0.25	88,88,88,88	0
57	MG	14	3351	1/1	0.95	0.11	78,78,78,78	0
57	MG	14	3087	1/1	0.95	0.27	76,76,76,76	0
57	MG	14	3353	1/1	0.95	0.08	83,83,83,83	0
57	MG	1G	1653	1/1	0.95	0.11	97,97,97,97	0
57	MG	1H	3284	1/1	0.95	0.07	83,83,83,83	0
57	MG	45	201	1/1	0.95	0.13	101,101,101,101	0
57	MG	1H	3179	1/1	0.95	0.14	80,80,80,80	0
57	MG	14	3092	1/1	0.95	0.26	66,66,66,66	0
57	MG	I8	102	1/1	0.95	0.05	62,62,62,62	0
57	MG	1H	3096	1/1	0.95	0.15	64,64,64,64	0
58	PAR	13	1741	42/42	0.95	0.24	64,71,75,82	0
57	MG	1G	1658	1/1	0.95	0.06	104,104,104,104	0
57	MG	1H	3289	1/1	0.95	0.12	59,59,59,59	0
57	MG	14	3363	1/1	0.95	0.09	107,107,107,107	0
57	MG	13	1688	1/1	0.95	0.10	109,109,109,109	0
57	MG	1H	3355	1/1	0.95	0.09	59,59,59,59	0
57	MG	1H	3182	1/1	0.95	0.57	60,60,60,60	0
57	MG	1H	3323	1/1	0.96	0.17	57,57,57,57	0
57	MG	1H	3324	1/1	0.96	0.08	70,70,70,70	0
57	MG	1H	3070	1/1	0.96	0.34	75,75,75,75	0
57	MG	14	3089	1/1	0.96	0.24	54,54,54,54	0
57	MG	13	1689	1/1	0.96	0.07	88,88,88,88	0
57	MG	14	3372	1/1	0.96	0.12	86,86,86,86	0
57	MG	1H	3330	1/1	0.96	0.10	71,71,71,71	0
57	MG	13	1690	1/1	0.96	0.05	70,70,70,70	0
57	MG	1H	3199	1/1	0.96	0.12	61,61,61,61	0
57	MG	13	1604	1/1	0.96	0.15	62,62,62,62	0
57	MG	14	3096	1/1	0.96	0.20	65,65,65,65	0
57	MG	1H	3335	1/1	0.96	0.14	48,48,48,48	0
57	MG	1H	3272	1/1	0.96	0.09	63,63,63,63	0
57	MG	1H	3461	1/1	0.96	0.06	45,45,45,45	0
57	MG	14	3280	1/1	0.96	0.14	61,61,61,61	0
57	MG	1H	3399	1/1	0.96	0.06	73,73,73,73	0
57	MG	14	3182	1/1	0.96	0.36	74,74,74,74	0
57	MG	14	3102	1/1	0.96	0.56	85,85,85,85	0
57	MG	1H	3463	1/1	0.96	0.09	81,81,81,81	0
57	MG	1H	3464	1/1	0.96	0.08	63,63,63,63	0
57	MG	1H	3465	1/1	0.96	0.09	67,67,67,67	0
57	MG	14	3287	1/1	0.96	0.11	88,88,88,88	0
57	MG	1H	3400	1/1	0.96	0.12	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3012	1/1	0.96	0.32	57,57,57,57	0
57	MG	13	1705	1/1	0.96	0.17	97,97,97,97	0
57	MG	14	3016	1/1	0.96	0.38	74,74,74,74	0
57	MG	14	3394	1/1	0.96	0.05	91,91,91,91	0
57	MG	1H	3402	1/1	0.96	0.05	85,85,85,85	0
57	MG	1H	3338	1/1	0.96	0.11	66,66,66,66	0
57	MG	14	3194	1/1	0.96	0.22	80,80,80,80	0
57	MG	1H	3471	1/1	0.96	0.12	90,90,90,90	0
57	MG	1H	3275	1/1	0.96	0.18	57,57,57,57	0
57	MG	1H	3022	1/1	0.96	0.19	49,49,49,49	0
57	MG	13	1692	1/1	0.96	0.18	72,72,72,72	0
57	MG	14	3116	1/1	0.96	0.13	88,88,88,88	0
57	MG	1H	3342	1/1	0.96	0.06	86,86,86,86	0
57	MG	1H	3024	1/1	0.96	0.24	83,83,83,83	0
57	MG	14	3027	1/1	0.96	0.14	66,66,66,66	0
57	MG	1H	3025	1/1	0.96	0.35	75,75,75,75	0
57	MG	13	1693	1/1	0.96	0.07	85,85,85,85	0
57	MG	14	3310	1/1	0.96	0.15	54,54,54,54	0
57	MG	1H	3207	1/1	0.96	0.24	92,92,92,92	0
57	MG	14	3031	1/1	0.96	0.28	73,73,73,73	0
57	MG	1H	3208	1/1	0.96	0.15	72,72,72,72	0
57	MG	14	3314	1/1	0.96	0.16	69,69,69,69	0
57	MG	1H	3286	1/1	0.96	0.12	40,40,40,40	0
57	MG	1H	3287	1/1	0.96	0.08	71,71,71,71	0
57	MG	13	1608	1/1	0.96	0.08	76,76,76,76	0
57	MG	1H	3029	1/1	0.96	0.32	77,77,77,77	0
57	MG	1H	3290	1/1	0.96	0.12	55,55,55,55	0
57	MG	13	1736	1/1	0.96	0.12	101,101,101,101	0
57	MG	14	3217	1/1	0.96	0.20	56,56,56,56	0
57	MG	1H	3033	1/1	0.96	0.25	70,70,70,70	0
57	MG	14	3324	1/1	0.96	0.15	48,48,48,48	0
57	MG	14	3219	1/1	0.96	0.10	57,57,57,57	0
57	MG	14	3044	1/1	0.96	0.18	57,57,57,57	0
57	MG	1G	1603	1/1	0.96	0.14	88,88,88,88	0
57	MG	1H	3214	1/1	0.96	0.47	77,77,77,77	0
57	MG	13	1652	1/1	0.96	0.62	71,71,71,71	0
57	MG	1H	3297	1/1	0.96	0.14	49,49,49,49	0
57	MG	1H	3183	1/1	0.96	0.21	70,70,70,70	0
57	MG	1H	3426	1/1	0.96	0.05	74,74,74,74	0
57	MG	1H	3248	1/1	0.96	0.11	44,44,44,44	0
57	MG	14	3140	1/1	0.96	0.13	51,51,51,51	0
57	MG	14	3234	1/1	0.96	0.18	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1614	1/1	0.96	0.34	84,84,84,84	0
57	MG	14	3059	1/1	0.96	0.23	89,89,89,89	0
57	MG	1H	3495	1/1	0.96	0.05	97,97,97,97	0
57	MG	14	3240	1/1	0.96	0.12	73,73,73,73	0
57	MG	13	1632	1/1	0.96	0.22	78,78,78,78	0
57	MG	1H	3369	1/1	0.96	0.08	44,44,44,44	0
57	MG	1H	3188	1/1	0.96	0.41	49,49,49,49	0
57	MG	1H	3305	1/1	0.96	0.14	63,63,63,63	0
57	MG	1H	3307	1/1	0.96	0.14	44,44,44,44	0
57	MG	1H	3112	1/1	0.96	0.26	55,55,55,55	0
57	MG	13	1680	1/1	0.96	0.16	64,64,64,64	0
57	MG	13	1699	1/1	0.96	0.09	83,83,83,83	0
57	MG	1H	3258	1/1	0.96	0.11	47,47,47,47	0
57	MG	1H	3440	1/1	0.96	0.09	92,92,92,92	0
57	MG	13	1623	1/1	0.96	0.22	76,76,76,76	0
57	MG	1H	3042	1/1	0.96	0.26	65,65,65,65	0
57	MG	1H	3014	1/1	0.96	0.17	53,53,53,53	0
57	MG	1H	3317	1/1	0.96	0.07	66,66,66,66	0
57	MG	1H	3318	1/1	0.96	0.15	59,59,59,59	0
57	MG	1G	1698	1/1	0.96	0.10	123,123,123,123	0
57	MG	14	3078	1/1	0.96	0.29	56,56,56,56	0
57	MG	1H	3263	1/1	0.96	0.19	46,46,46,46	0
57	MG	14	3261	1/1	0.96	0.17	59,59,59,59	0
57	MG	1G	1631	1/1	0.96	0.56	92,92,92,92	0
57	MG	14	3082	1/1	0.96	0.49	79,79,79,79	0
57	MG	14	3364	1/1	0.96	0.07	92,92,92,92	0
57	MG	1H	3166	1/1	0.96	0.43	78,78,78,78	0
57	MG	1H	3387	1/1	0.96	0.10	33,33,33,33	0
57	MG	1H	3056	1/1	0.97	0.31	49,49,49,49	0
57	MG	1H	3439	1/1	0.97	0.07	67,67,67,67	0
57	MG	14	3081	1/1	0.97	0.15	56,56,56,56	0
57	MG	1G	1601	1/1	0.97	0.20	77,77,77,77	0
57	MG	1H	3018	1/1	0.97	0.18	41,41,41,41	0
57	MG	14	3026	1/1	0.97	0.29	56,56,56,56	0
57	MG	13	1663	1/1	0.97	0.10	107,107,107,107	0
57	MG	14	3199	1/1	0.97	0.38	76,76,76,76	0
57	MG	14	3086	1/1	0.97	0.23	56,56,56,56	0
57	MG	1H	3262	1/1	0.97	0.18	43,43,43,43	0
57	MG	14	3270	1/1	0.97	0.13	67,67,67,67	0
57	MG	13	1606	1/1	0.97	0.26	72,72,72,72	0
57	MG	1H	3315	1/1	0.97	0.10	63,63,63,63	0
57	MG	1H	3411	1/1	0.97	0.07	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3032	1/1	0.97	0.41	64,64,64,64	0
57	MG	1G	1651	1/1	0.97	0.11	76,76,76,76	0
57	MG	14	3093	1/1	0.97	0.42	84,84,84,84	0
57	MG	1H	3264	1/1	0.97	0.25	50,50,50,50	0
57	MG	1H	3413	1/1	0.97	0.10	78,78,78,78	0
57	MG	14	3037	1/1	0.97	0.26	65,65,65,65	0
57	MG	1H	3448	1/1	0.97	0.07	80,80,80,80	0
57	MG	1H	3265	1/1	0.97	0.08	46,46,46,46	0
57	MG	13	1602	1/1	0.97	0.14	120,120,120,120	0
57	MG	1H	3382	1/1	0.97	0.09	49,49,49,49	0
57	MG	14	3101	1/1	0.97	0.33	87,87,87,87	0
57	MG	1H	3011	1/1	0.97	0.30	56,56,56,56	0
57	MG	1H	3090	1/1	0.97	0.21	42,42,42,42	0
57	MG	14	3045	1/1	0.97	0.20	53,53,53,53	0
57	MG	1H	3012	1/1	0.97	0.42	58,58,58,58	0
57	MG	14	3048	1/1	0.97	0.47	51,51,51,51	0
57	MG	1G	1661	1/1	0.97	0.08	95,95,95,95	0
57	MG	1H	3353	1/1	0.97	0.14	48,48,48,48	0
57	MG	14	3226	1/1	0.97	0.16	51,51,51,51	0
57	MG	14	3293	1/1	0.97	0.10	63,63,63,63	0
57	MG	1H	3354	1/1	0.97	0.17	60,60,60,60	0
57	MG	14	3052	1/1	0.97	0.23	54,54,54,54	0
57	MG	14	3231	1/1	0.97	0.23	55,55,55,55	0
57	MG	1H	3247	1/1	0.97	0.14	36,36,36,36	0
57	MG	1H	3036	1/1	0.97	0.16	37,37,37,37	0
57	MG	1H	3328	1/1	0.97	0.13	47,47,47,47	0
57	MG	13	1609	1/1	0.97	0.15	70,70,70,70	0
57	MG	14	3171	1/1	0.97	0.34	56,56,56,56	0
57	MG	1H	3361	1/1	0.97	0.07	52,52,52,52	0
57	MG	14	3239	1/1	0.97	0.17	77,77,77,77	0
57	MG	14	3375	1/1	0.97	0.07	93,93,93,93	0
57	MG	14	3002	1/1	0.97	0.37	57,57,57,57	0
57	MG	14	3308	1/1	0.97	0.10	94,94,94,94	0
57	MG	1H	3273	1/1	0.97	0.14	78,78,78,78	0
57	MG	14	3004	1/1	0.97	0.28	63,63,63,63	0
57	MG	16	211	1/1	0.97	0.11	73,73,73,73	0
57	MG	13	1605	1/1	0.97	0.20	71,71,71,71	0
57	MG	1G	1672	1/1	0.97	0.12	110,110,110,110	0
57	MG	1H	3364	1/1	0.97	0.09	44,44,44,44	0
57	MG	21	303	1/1	0.97	0.09	46,46,46,46	0
57	MG	1H	3466	1/1	0.97	0.05	72,72,72,72	0
57	MG	1H	3169	1/1	0.97	0.45	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	13	1734	1/1	0.97	0.10	94,94,94,94	0
57	MG	14	3014	1/1	0.97	0.25	59,59,59,59	0
57	MG	14	3253	1/1	0.97	0.07	58,58,58,58	0
57	MG	1H	3304	1/1	0.97	0.10	58,58,58,58	0
57	MG	1H	3186	1/1	0.97	0.26	62,62,62,62	0
57	MG	1H	3306	1/1	0.97	0.09	75,75,75,75	0
57	MG	1H	3040	1/1	0.97	0.31	44,44,44,44	0
57	MG	1H	3027	1/1	0.97	0.19	52,52,52,52	0
57	MG	1H	3437	1/1	0.97	0.09	92,92,92,92	0
57	MG	14	3147	1/1	0.98	0.40	69,69,69,69	0
57	MG	14	3191	1/1	0.98	0.26	67,67,67,67	0
57	MG	1H	3255	1/1	0.98	0.08	49,49,49,49	0
57	MG	14	3294	1/1	0.98	0.05	75,75,75,75	0
57	MG	13	1648	1/1	0.98	0.16	67,67,67,67	0
57	MG	1H	3319	1/1	0.98	0.18	57,57,57,57	0
57	MG	14	3066	1/1	0.98	0.57	61,61,61,61	0
57	MG	1G	1622	1/1	0.98	0.20	125,125,125,125	0
57	MG	13	1619	1/1	0.98	0.21	52,52,52,52	0
57	MG	14	3356	1/1	0.98	0.06	75,75,75,75	0
57	MG	1H	3349	1/1	0.98	0.12	50,50,50,50	0
57	MG	14	3301	1/1	0.98	0.04	85,85,85,85	0
57	MG	1H	3380	1/1	0.98	0.18	55,55,55,55	0
57	MG	1H	3015	1/1	0.98	0.31	51,51,51,51	0
57	MG	1G	1627	1/1	0.98	0.41	87,87,87,87	0
57	MG	14	3305	1/1	0.98	0.12	49,49,49,49	0
57	MG	1H	3322	1/1	0.98	0.06	58,58,58,58	0
57	MG	1H	3187	1/1	0.98	0.42	44,44,44,44	0
57	MG	1H	3016	1/1	0.98	0.19	44,44,44,44	0
57	MG	1H	3385	1/1	0.98	0.15	25,25,25,25	0
57	MG	14	3206	1/1	0.98	0.27	85,85,85,85	0
57	MG	1H	3278	1/1	0.98	0.09	75,75,75,75	0
57	MG	14	3034	1/1	0.98	0.48	40,40,40,40	0
57	MG	1G	1633	1/1	0.98	0.21	118,118,118,118	0
57	MG	1H	3327	1/1	0.98	0.08	50,50,50,50	0
57	MG	1H	3152	1/1	0.98	0.41	70,70,70,70	0
57	MG	1H	3302	1/1	0.98	0.13	51,51,51,51	0
57	MG	1H	3280	1/1	0.98	0.15	36,36,36,36	0
57	MG	14	3040	1/1	0.98	0.25	68,68,68,68	0
57	MG	1H	3359	1/1	0.98	0.17	44,44,44,44	0
57	MG	14	3216	1/1	0.98	0.21	52,52,52,52	0
57	MG	1H	3281	1/1	0.98	0.15	61,61,61,61	0
57	MG	14	3322	1/1	0.98	0.14	58,58,58,58	0

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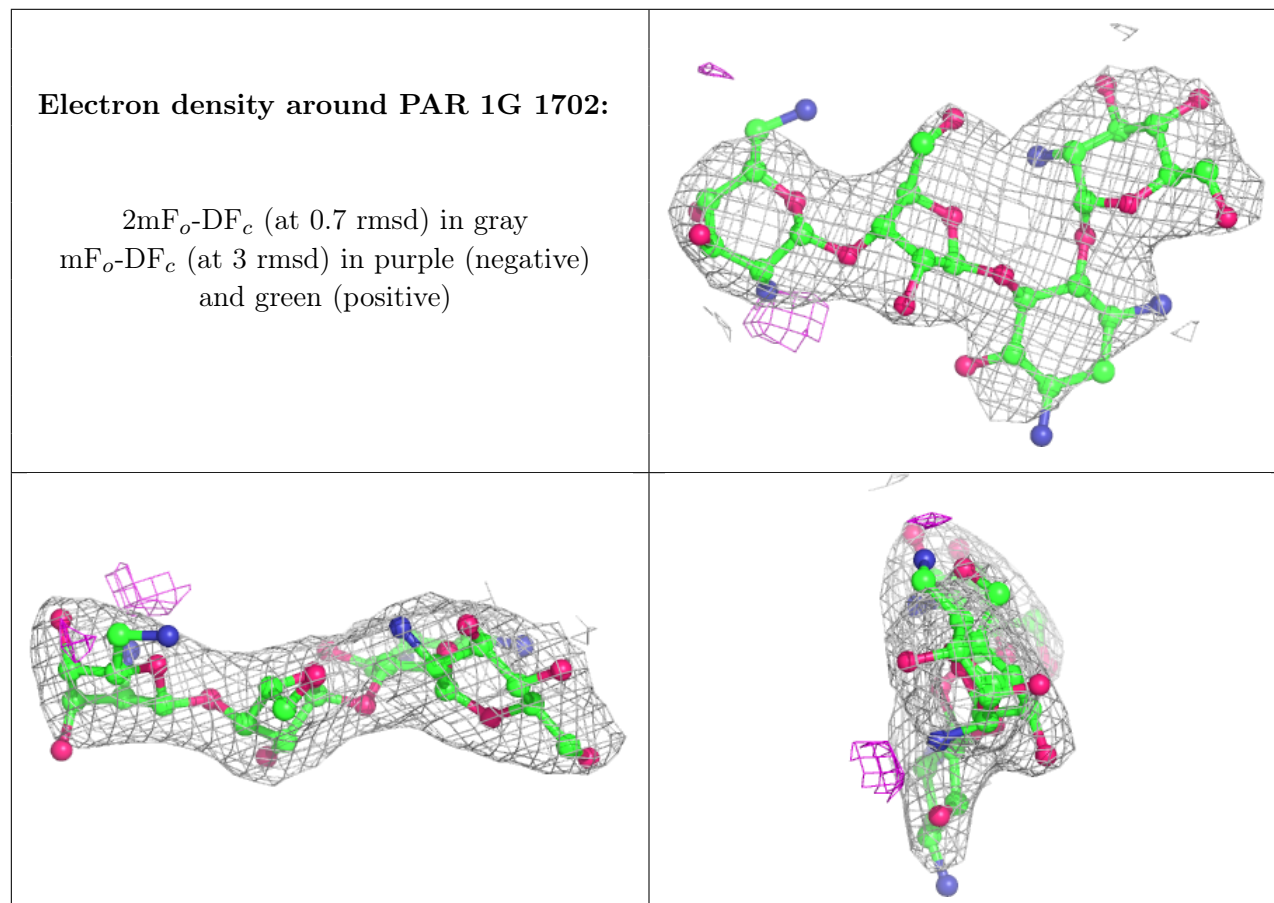
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	13	1601	1/1	0.98	0.42	80,80,80,80	0
57	MG	1H	3333	1/1	0.98	0.13	77,77,77,77	0
57	MG	14	3325	1/1	0.98	0.04	79,79,79,79	0
57	MG	1H	3097	1/1	0.98	0.06	65,65,65,65	0
57	MG	1G	1607	1/1	0.98	0.20	86,86,86,86	0
57	MG	14	3222	1/1	0.98	0.20	59,59,59,59	0
57	MG	14	3047	1/1	0.98	0.34	65,65,65,65	0
57	MG	1H	3044	1/1	0.98	0.36	67,67,67,67	0
57	MG	29	301	1/1	0.98	0.35	58,58,58,58	0
57	MG	1H	3045	1/1	0.98	0.28	46,46,46,46	0
57	MG	1H	3398	1/1	0.98	0.07	78,78,78,78	0
57	MG	13	1621	1/1	0.98	0.09	85,85,85,85	0
57	MG	14	3228	1/1	0.98	0.14	56,56,56,56	0
57	MG	14	3229	1/1	0.98	0.13	59,59,59,59	0
57	MG	13	1702	1/1	0.98	0.13	85,85,85,85	0
57	MG	1H	3311	1/1	0.98	0.09	53,53,53,53	0
57	MG	14	3013	1/1	0.98	0.23	47,47,47,47	0
57	MG	13	1603	1/1	0.98	0.24	74,74,74,74	0
57	MG	1H	3252	1/1	0.98	0.09	65,65,65,65	0
57	MG	14	3341	1/1	0.98	0.12	66,66,66,66	0
57	MG	14	3235	1/1	0.98	0.24	48,48,48,48	0
60	ZN	5A	101	1/1	0.98	0.09	146,146,146,146	0
57	MG	1H	3210	1/1	0.98	0.18	56,56,56,56	0
57	MG	1H	3292	1/1	0.98	0.21	43,43,43,43	0
57	MG	1H	3254	1/1	0.98	0.08	46,46,46,46	0
57	MG	14	3019	1/1	0.98	0.35	57,57,57,57	0
57	MG	13	1607	1/1	0.99	0.20	72,72,72,72	0
57	MG	1H	3059	1/1	0.99	0.27	56,56,56,56	0
57	MG	1H	3060	1/1	0.99	0.16	35,35,35,35	0
57	MG	14	3242	1/1	0.99	0.10	62,62,62,62	0
57	MG	1H	3091	1/1	0.99	0.15	41,41,41,41	0
57	MG	1H	3031	1/1	0.99	0.14	51,51,51,51	0
57	MG	1H	3325	1/1	0.99	0.15	46,46,46,46	0
57	MG	1H	3121	1/1	0.99	0.24	39,39,39,39	0
59	SF4	3E	301	8/8	0.99	0.21	82,91,95,98	0
59	SF4	32	302	8/8	0.99	0.17	100,109,118,124	0
60	ZN	5I	102	1/1	0.99	0.13	86,86,86,86	0
57	MG	1H	3032	1/1	0.99	0.25	47,47,47,47	0
57	MG	1H	3291	1/1	0.99	0.13	59,59,59,59	0
57	MG	13	1630	1/1	0.99	0.34	96,96,96,96	0
57	MG	1H	3360	1/1	0.99	0.09	78,78,78,78	0
57	MG	14	3055	1/1	0.99	0.30	60,60,60,60	0

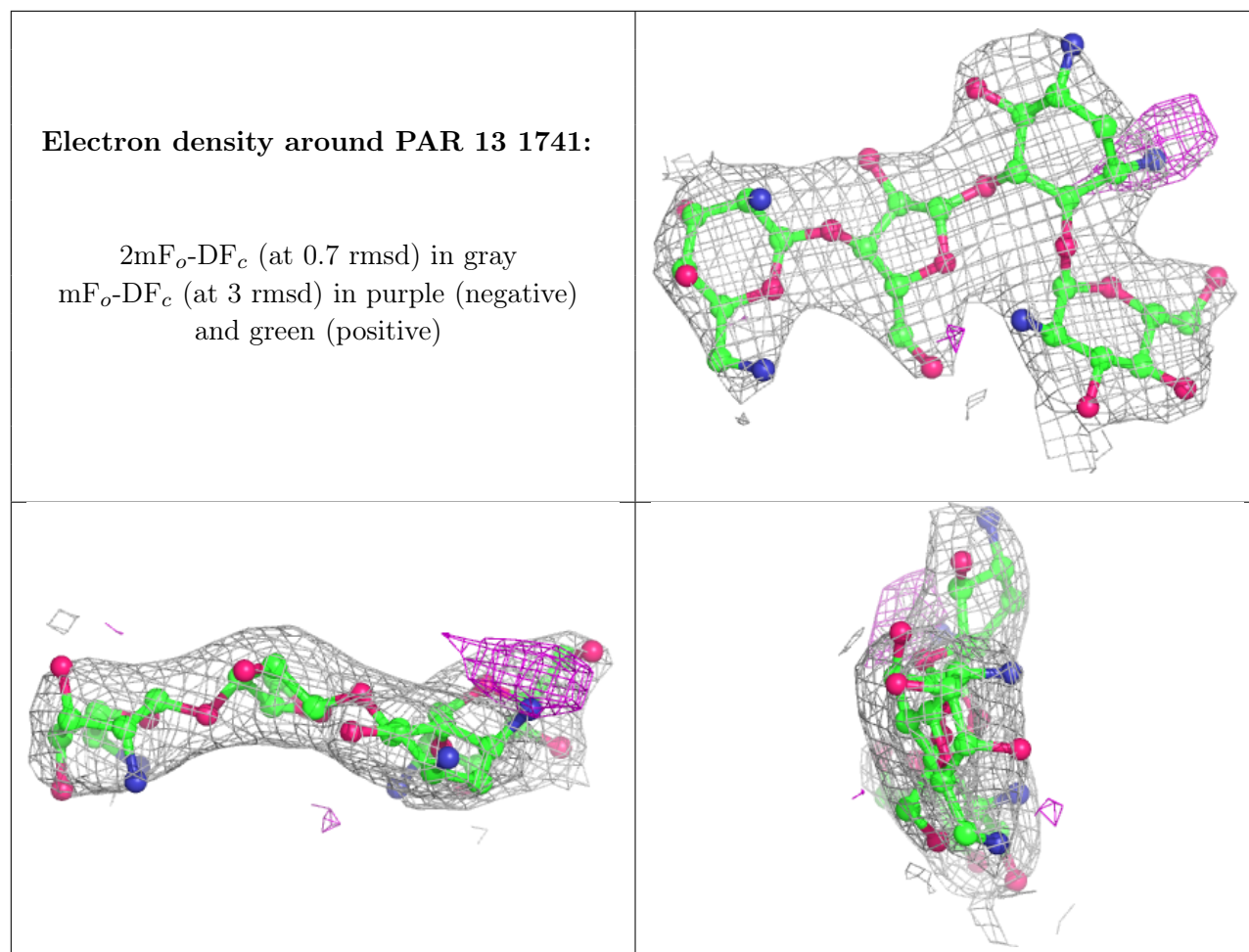
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	14	3056	1/1	0.99	0.11	54,54,54,54	0
57	MG	1H	3450	1/1	1.00	0.06	44,44,44,44	0

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.