wwPDB X-ray Structure Validation Summary Report (i)

Sep 5, 2024 – 12:38 am BST

PDB ID	:	8CQ7
Title	:	Crystal structure of phyllanthoside bound to the Candida albicans 80S ribosome
Authors	:	Kolosova, O.; Zgadzay, Y.; Yusupov, M.
Deposited on	:	2023-03-03
Resolution	:	3.20 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 (i) 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 (i)) were used in the production of this report:

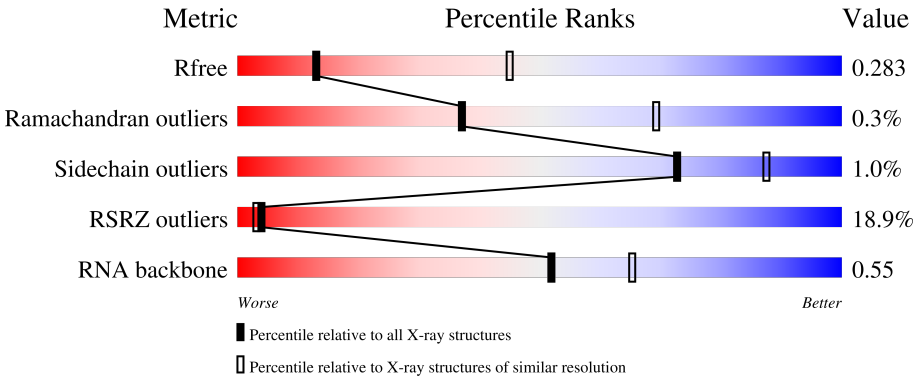
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.002 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.38.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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}	164625	1370 (3.20-3.20)
Ramachandran outliers	177936	1479 (3.20-3.20)
Sidechain outliers	177891	1478 (3.20-3.20)
RSRZ outliers	164620	1371 (3.20-3.20)
RNA backbone	3690	1111 (3.50-2.90)

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 <=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	1	3359	7% 76% 18%
1	AS	3359	11% 76% 18%
2	3	121	% 93% 7%
2	AT	121	5% 93% 7%
3	4	158	2% 84% 16%

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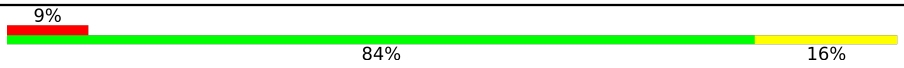
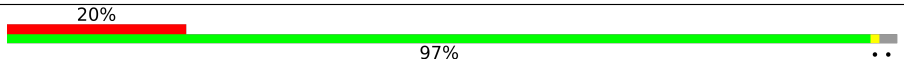
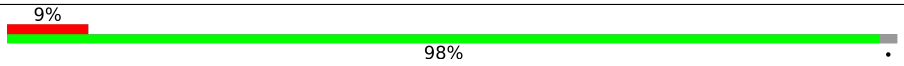
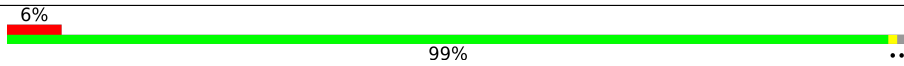
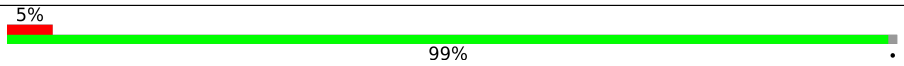
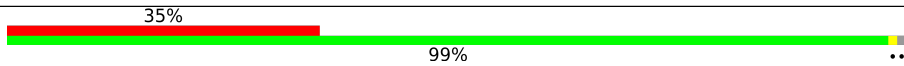
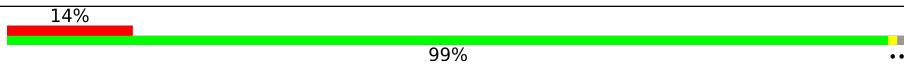
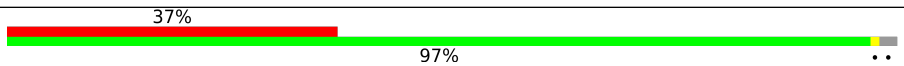
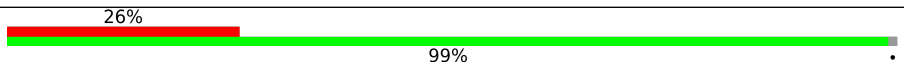
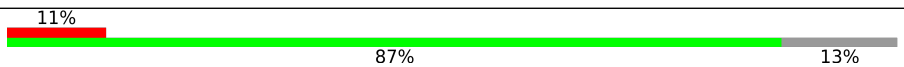
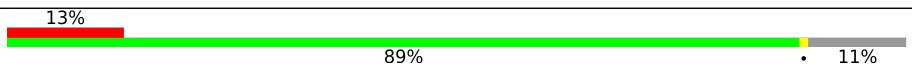
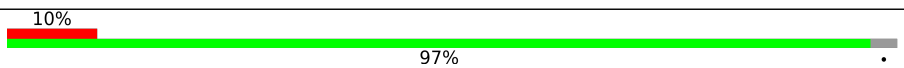
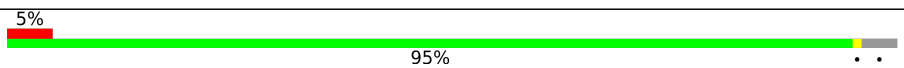
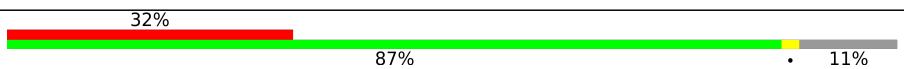
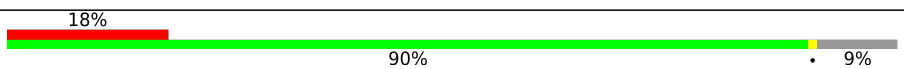
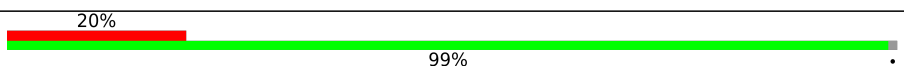
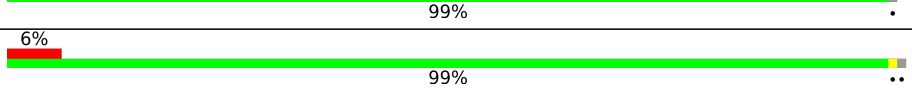
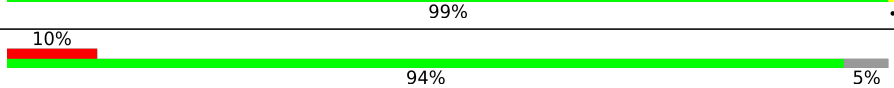
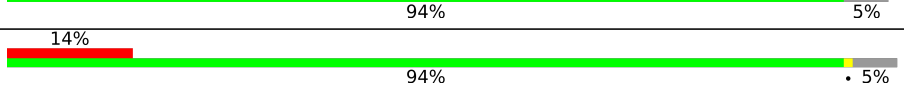
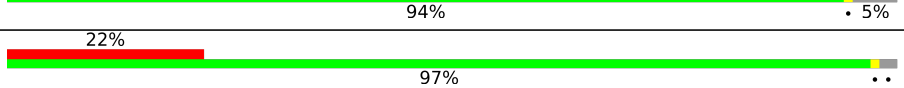
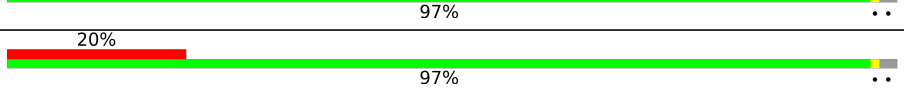
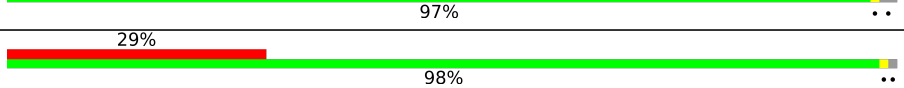
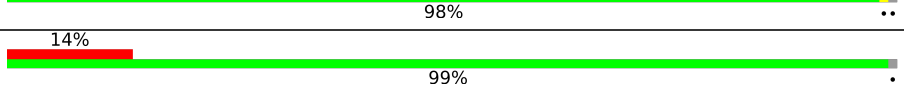
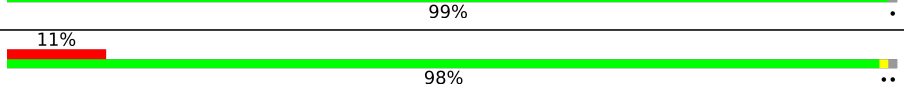
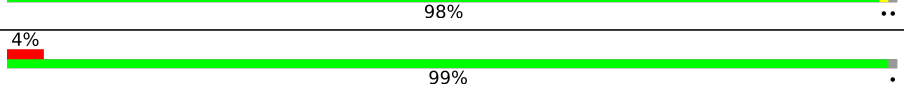
Mol	Chain	Length	Quality of chain
3	AU	158	
4	AW	254	
4	j	254	
5	AX	389	
5	k	389	
6	AY	363	
6	l	363	
7	AZ	298	
7	m	298	
8	BA	176	
8	n	176	
9	BB	241	
9	o	241	
10	BC	262	
10	p	262	
11	BD	191	
11	q	191	
12	BE	220	
12	r	220	
13	BF	174	
13	s	174	
14	BG	202	
14	t	202	
15	BH	131	
15	u	131	

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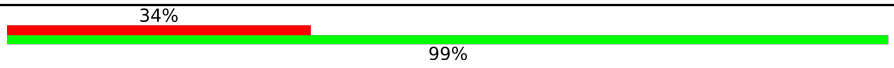
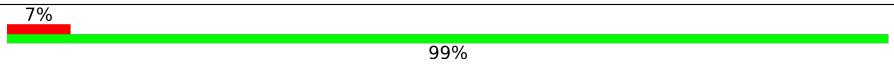
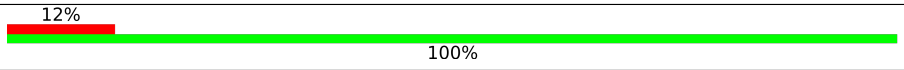
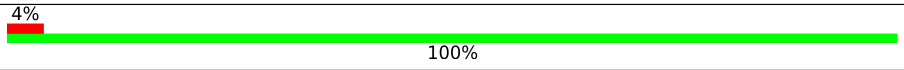
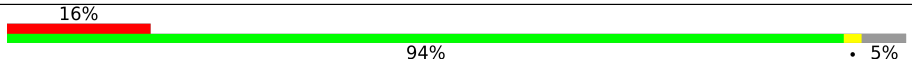
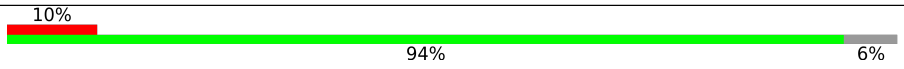
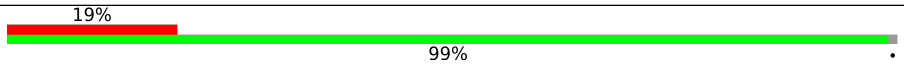
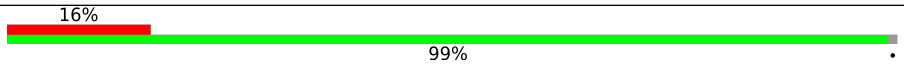
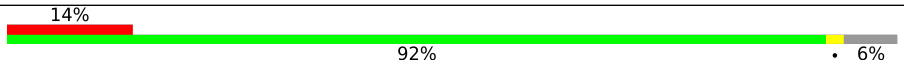
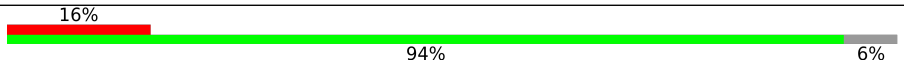
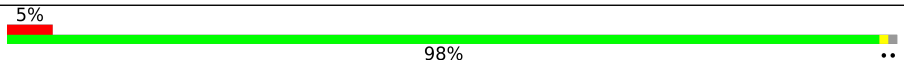
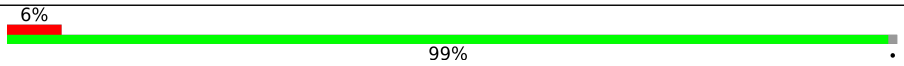
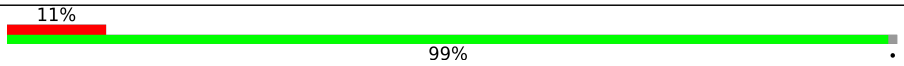
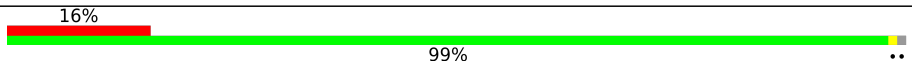
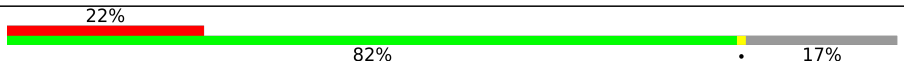
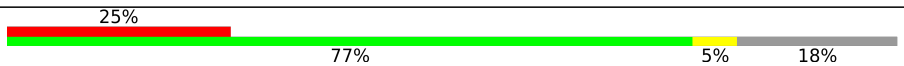
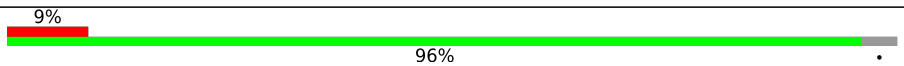
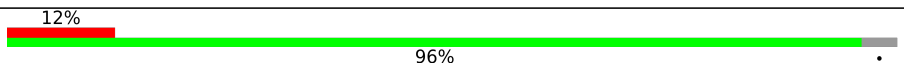
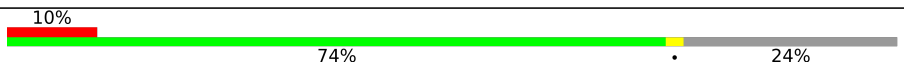
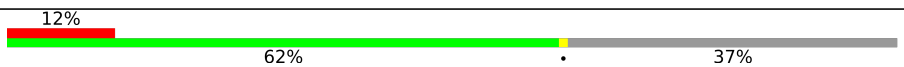
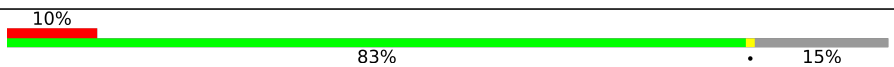
Mol	Chain	Length	Quality of chain
16	BI	204	
16	v	204	
17	BJ	200	
17	w	200	
18	BK	185	
18	x	185	
19	BL	186	
19	y	186	
20	BM	190	
20	z	190	
21	0	172	
21	BN	172	
22	2	160	
22	BO	160	
23	5	124	
23	BP	124	
24	6	137	
24	BQ	137	
25	7	155	
25	BR	155	
26	8	142	
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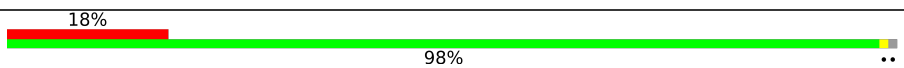
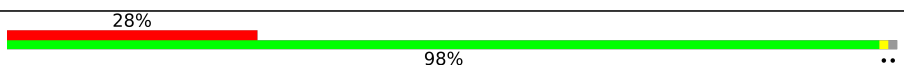
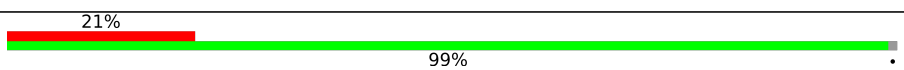
27	9	127	
27	BT	127	
28	AA	136	

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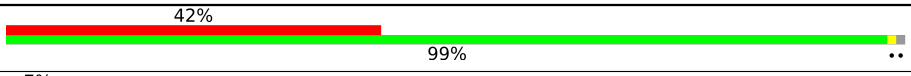
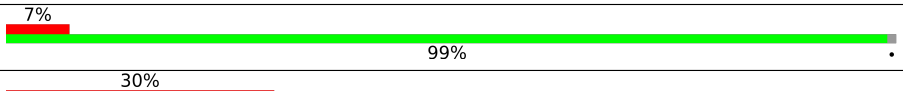
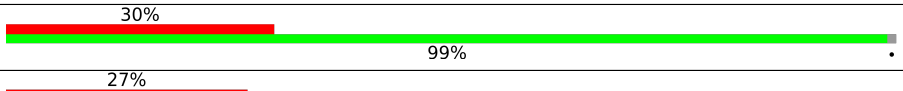
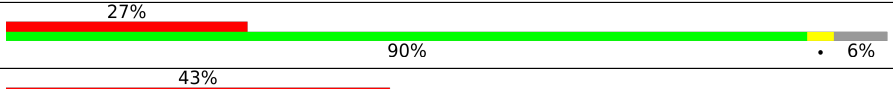
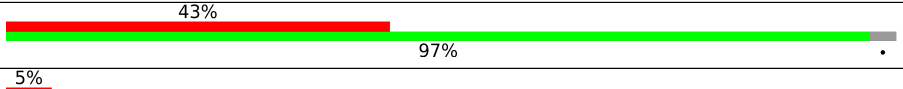
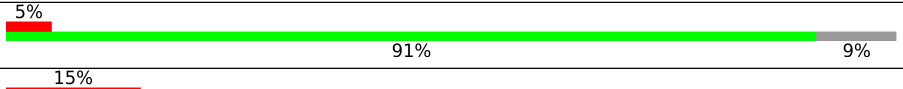
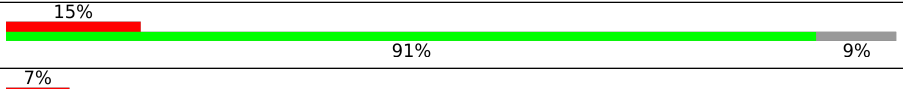
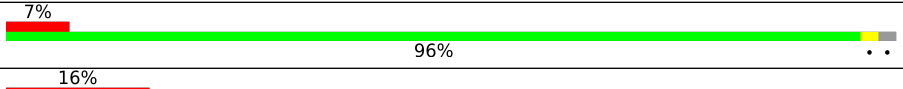
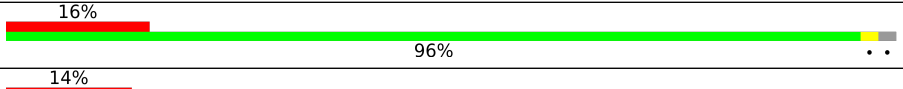
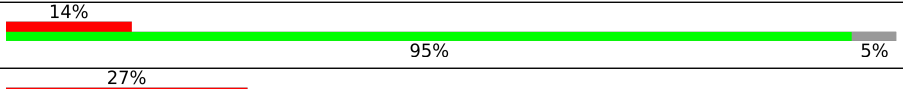
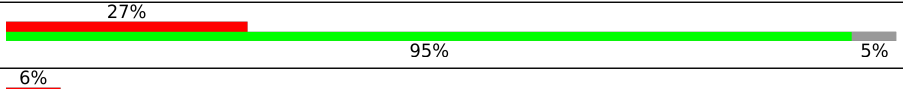
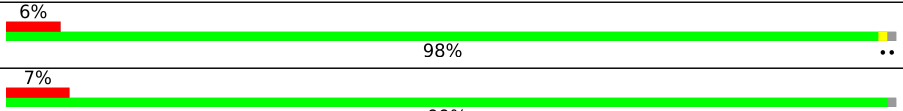
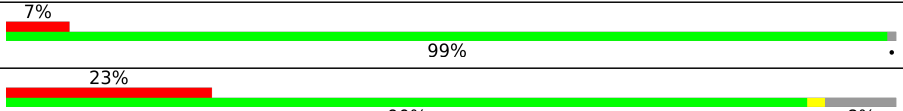
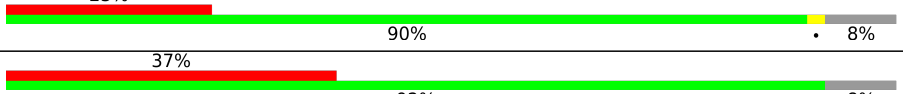
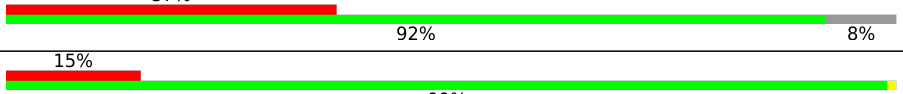
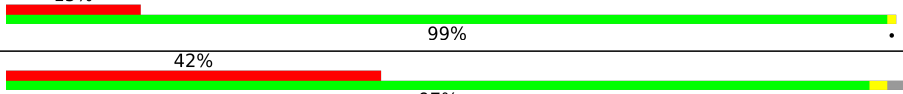
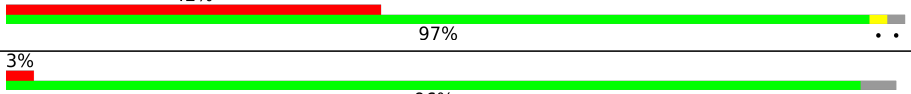
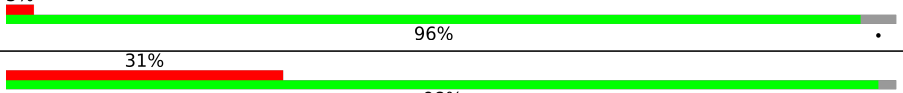
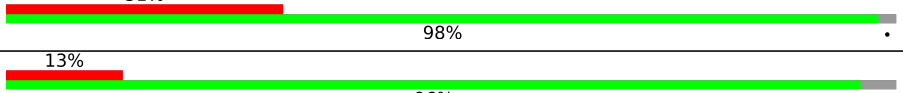
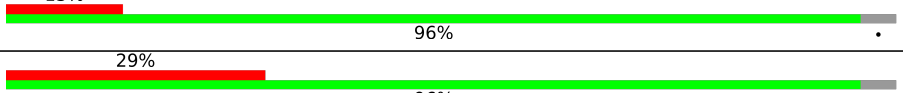
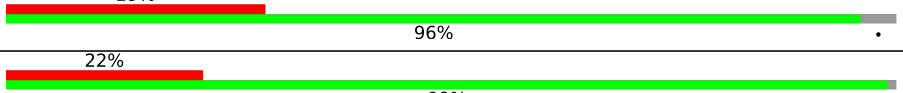
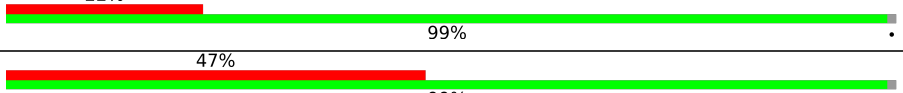
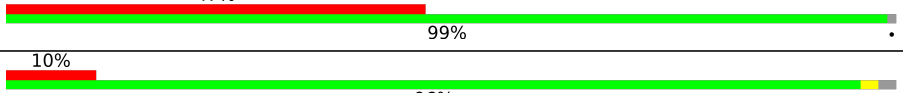
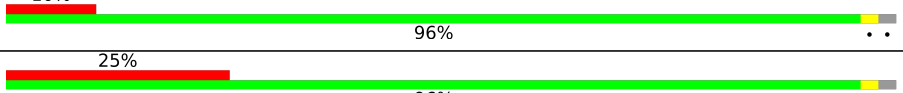
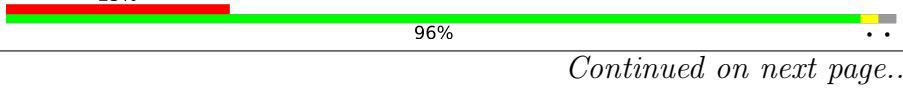
Mol	Chain	Length	Quality of chain
28	BU	136	
29	AB	149	
29	BV	149	
30	AC	63	
30	BW	63	
31	AD	106	
31	BX	106	
32	AE	112	
32	BY	112	
33	AF	131	
33	BZ	131	
34	AG	107	
34	CA	107	
35	AH	122	
35	CB	122	
36	AI	120	
36	CC	120	
37	AJ	99	
37	CD	99	
38	AK	90	
38	CE	90	
39	AL	78	
39	CF	78	
40	AM	51	
40	CG	51	

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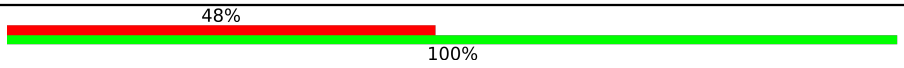
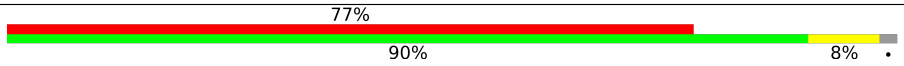
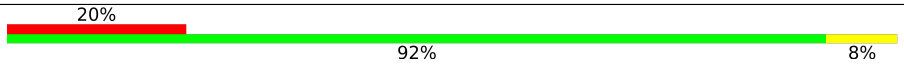
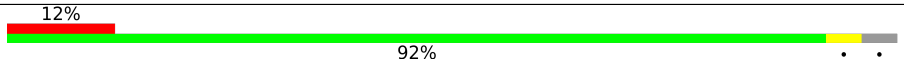
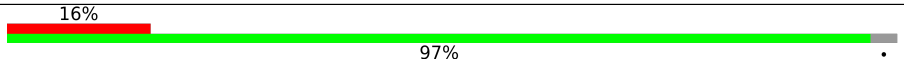
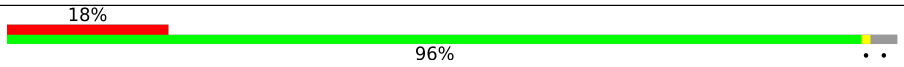
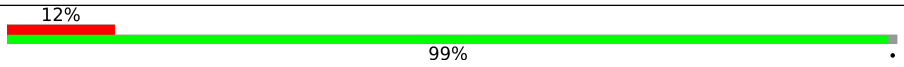
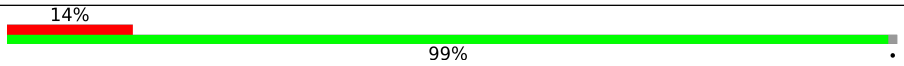
Mol	Chain	Length	Quality of chain
41	AN	52	
41	CH	52	
42	AO	25	
42	CI	25	
43	AP	106	
43	CJ	106	
44	AQ	92	
44	CK	92	
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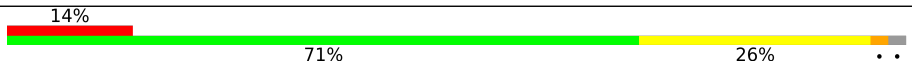
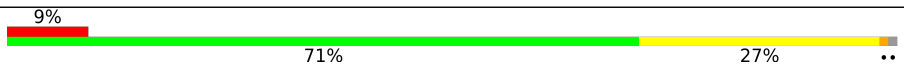
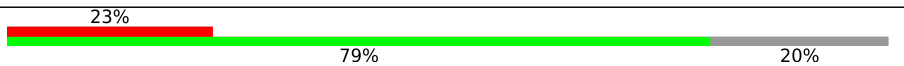
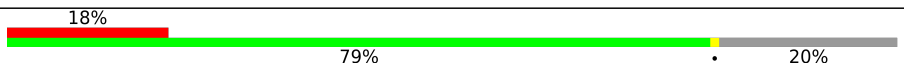
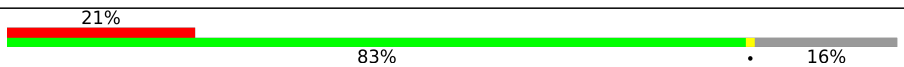
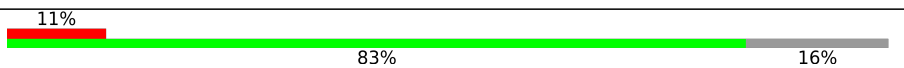
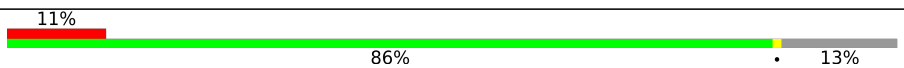
46	B	1787	
46	CM	1787	
47	C	261	
47	CN	261	
48	CO	256	
48	D	256	
49	CP	249	
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50	CQ	251	
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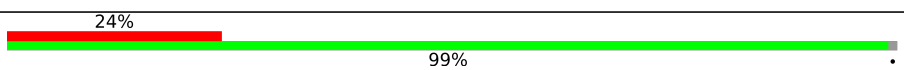
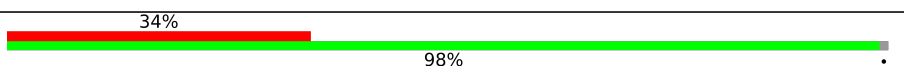
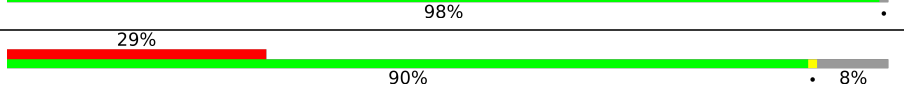
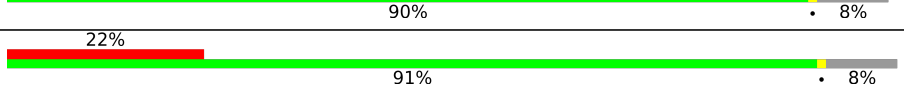
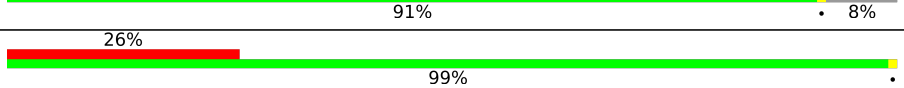
51	CR	262	
51	G	262	
52	CS	225	
52	H	225	
53	CT	236	

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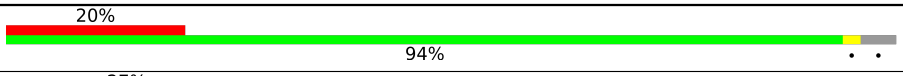
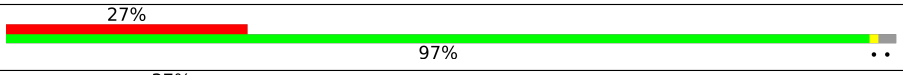
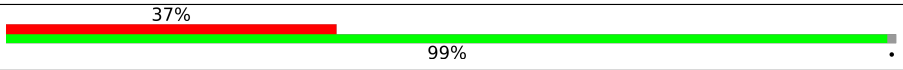
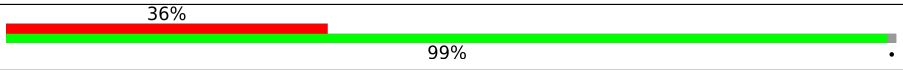
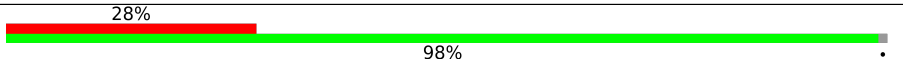
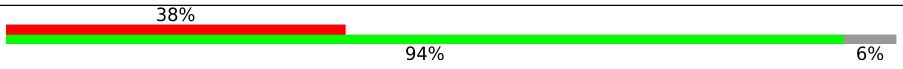
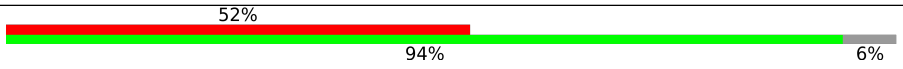
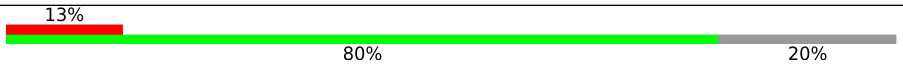
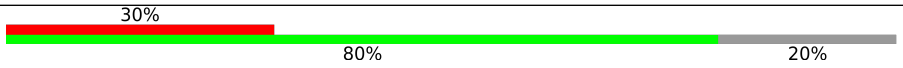
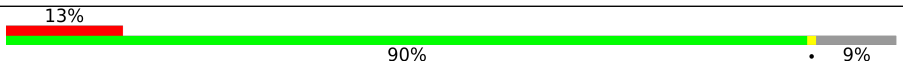
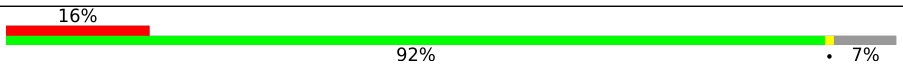
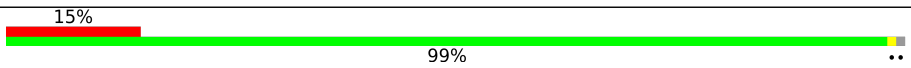
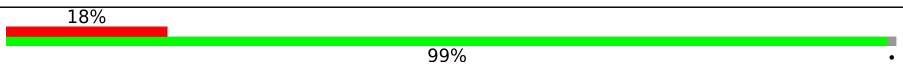
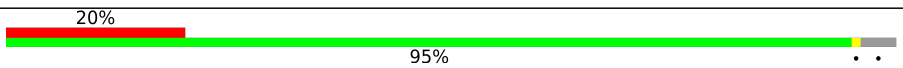
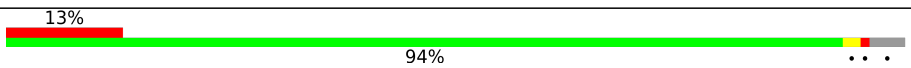
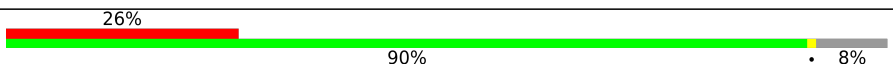
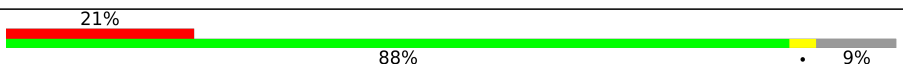
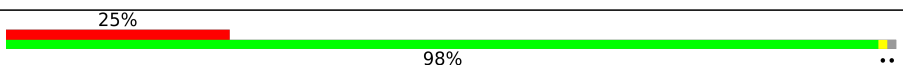
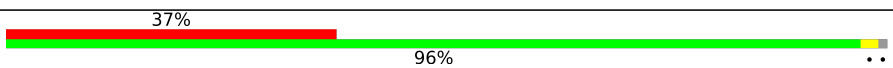
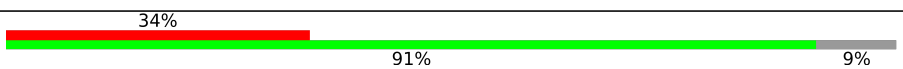
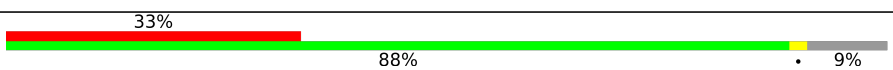
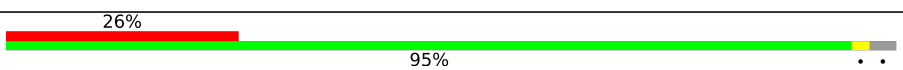
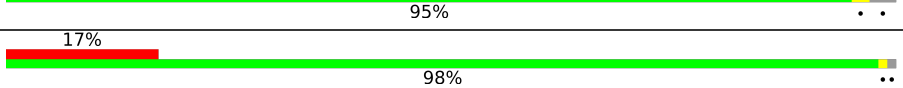
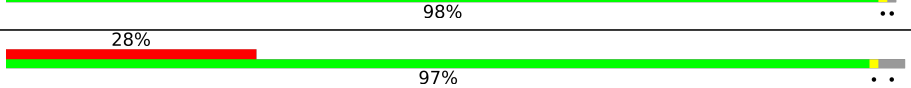
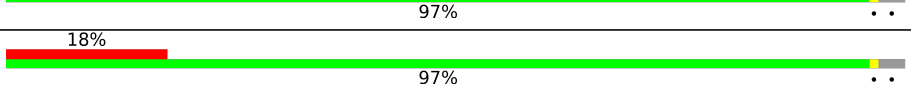
Mol	Chain	Length	Quality of chain
53	I	236	
54	CU	186	
54	J	186	
55	CV	206	
55	K	206	
56	CW	189	
56	L	189	
57	CX	118	
57	M	118	
58	CY	155	
58	N	155	
59	DA	151	
59	P	151	
60	DB	132	
60	Q	132	
61	DC	142	
61	R	142	
62	DD	142	
62	S	142	
63	DE	137	
63	T	137	
64	DF	145	
64	U	145	
65	DG	145	
65	V	145	

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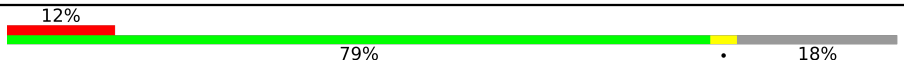
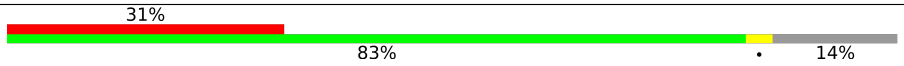
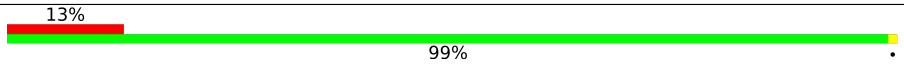
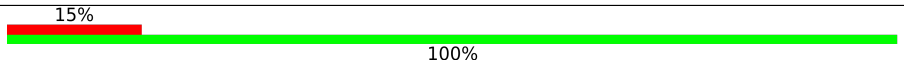
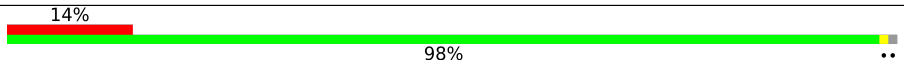
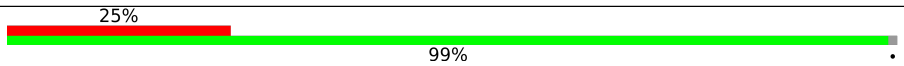
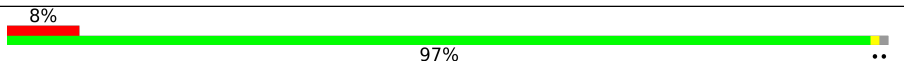
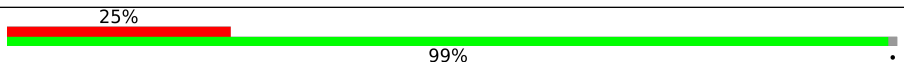
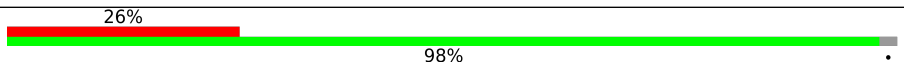
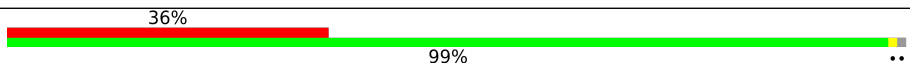
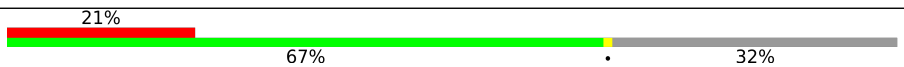
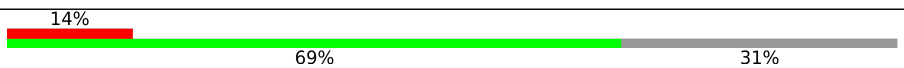
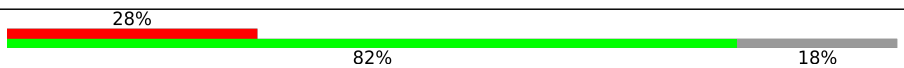
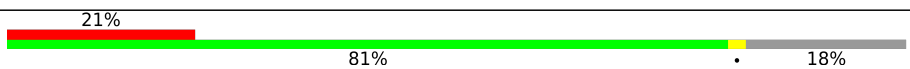
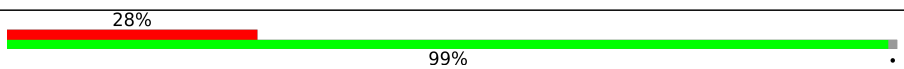
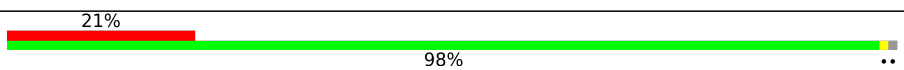
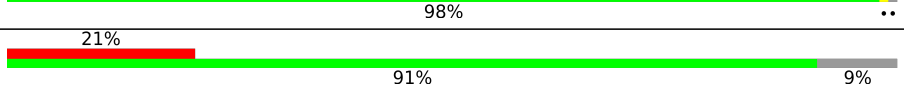
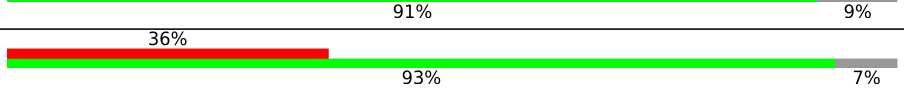
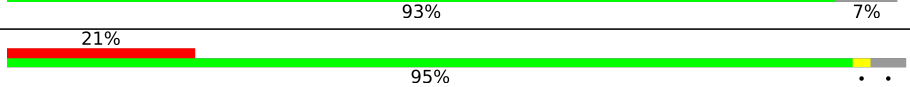
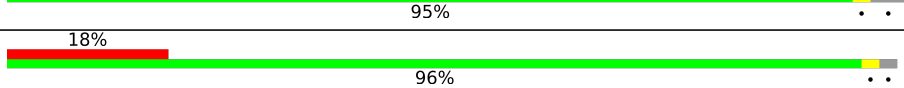
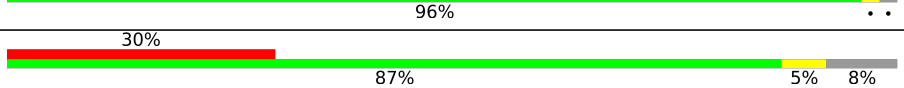
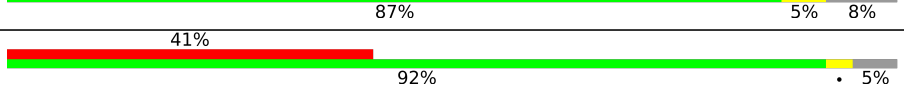
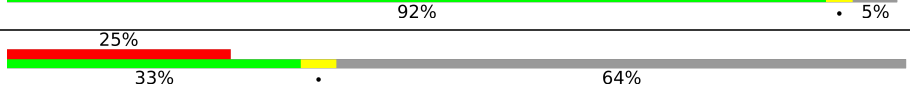
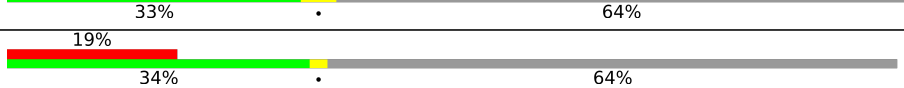
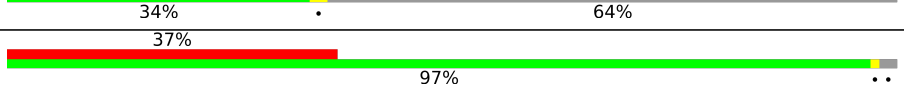
Mol	Chain	Length	Quality of chain
66	DH	119	
66	W	119	
67	DI	87	
67	X	87	
68	DJ	130	
68	Y	130	
69	DK	145	
69	Z	145	
70	DL	135	
70	a	135	
71	DM	105	
71	b	105	
72	DN	119	
72	c	119	
73	DO	82	
73	d	82	
74	DP	67	
74	e	67	
75	DQ	56	
75	f	56	
76	DR	63	
76	g	63	
77	DS	193	
77	h	193	
78	AR	317	

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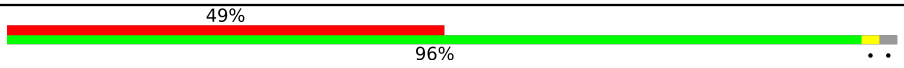
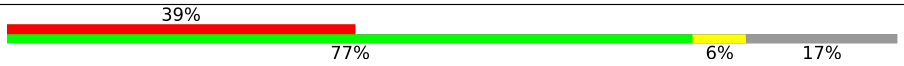
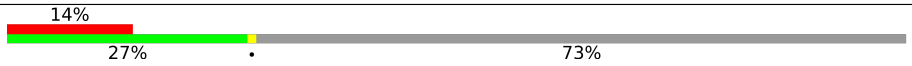
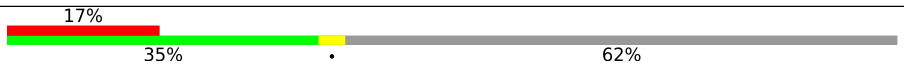
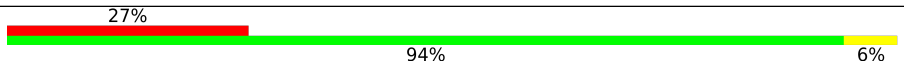
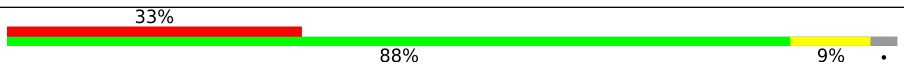
Mol	Chain	Length	Quality of chain
78	DT	317	
79	CZ	143	
79	O	143	
80	P0	312	
80	p0	312	
81	12	165	
82	L1	217	
82	l1	217	

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
84	MG	1	3586	-	-	-	X
84	MG	1	3758	-	-	-	X
84	MG	AD	201	-	-	-	X
84	MG	AS	3458	-	-	-	X
84	MG	AS	3501	-	-	-	X
84	MG	AS	3503	-	-	-	X
84	MG	AS	3533	-	-	-	X
84	MG	AS	3622	-	-	-	X
84	MG	AS	3661	-	-	-	X
84	MG	AT	210	-	-	-	X
84	MG	B	1803	-	-	-	X
84	MG	CL	302	-	-	-	X
84	MG	CM	1828	-	-	-	X

2 Entry composition (i)

There are 86 unique types of molecules in this entry. The entry contains 408874 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 25S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1	3216	Total	C	N	O	P	0	0	0
			68751	30713	12360	22462	3216			
1	AS	3222	Total	C	N	O	P	0	0	0
			68877	30769	12381	22505	3222			

- Molecule 2 is a RNA chain called 5S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	3	121	Total	C	N	O	P	0	0	0
			2579	1153	463	842	121			
2	AT	121	Total	C	N	O	P	0	0	0
			2579	1153	463	842	121			

- Molecule 3 is a RNA chain called 5.8S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	4	157	Total	C	N	O	P	0	0	0
			3333	1491	583	1102	157			
3	AU	158	Total	C	N	O	P	0	0	0
			3353	1500	585	1110	158			

- Molecule 4 is a protein called 60S ribosomal protein L2-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	j	249	Total	C	N	O	S	0	0	0
			1888	1180	376	330	2			
4	AW	249	Total	C	N	O	S	0	0	0
			1888	1180	376	330	2			

- Molecule 5 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	k	386	Total	C	N	O	S	0	1	0
			3084	1955	584	538	7			
5	AX	386	Total	C	N	O	S	0	0	0
			3077	1950	582	538	7			

- Molecule 6 is a protein called 60S ribosomal protein L4-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	l	361	Total	C	N	O	S	0	0	0
			2751	1729	529	490	3			
6	AY	361	Total	C	N	O	S	0	0	0
			2751	1729	529	490	3			

- Molecule 7 is a protein called Uncharacterized protein CaJ7.0206.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	m	296	Total	C	N	O	S	0	0	0
			2426	1544	422	458	2			
7	AZ	292	Total	C	N	O	S	0	0	0
			2394	1526	416	450	2			

- Molecule 8 is a protein called 60S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	n	157	Total	C	N	O	S	0	0	0
			1242	796	226	219	1			
8	BA	153	Total	C	N	O		0	0	0
			1210	777	221	212				

- Molecule 9 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	o	231	Total	C	N	O	S	0	0	0
			1861	1193	342	325	1			
9	BB	234	Total	C	N	O	S	0	0	0
			1885	1208	345	331	1			

- Molecule 10 is a protein called 60S ribosomal protein L8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	p	238	Total	C	N	O	S	0	0	0
			1839	1175	327	334	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	BC	233	Total	C	N	O	S	0	0	0
			1805	1156	321	325	3			

- Molecule 11 is a protein called 60S ribosomal protein L9-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	q	190	Total	C	N	O	S	0	0	0
			1519	958	276	281	4			
11	BD	190	Total	C	N	O	S	0	0	0
			1519	958	276	281	4			

- Molecule 12 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	r	208	Total	C	N	O	S	0	0	0
			1689	1069	322	291	7			
12	BE	208	Total	C	N	O	S	0	0	0
			1689	1069	322	291	7			

- Molecule 13 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	s	171	Total	C	N	O	S	0	0	0
			1371	857	260	250	4			
13	BF	171	Total	C	N	O	S	0	0	0
			1371	857	260	250	4			

- Molecule 14 is a protein called 60S ribosomal protein L13.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	t	200	Total	C	N	O	0	0	0
			1610	1009	318	283			
14	BG	200	Total	C	N	O	0	0	0
			1610	1009	318	283			

- Molecule 15 is a protein called 60S ribosomal protein L14-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	u	130	Total	C	N	O	S	0	0	0
			1029	660	193	175	1			
15	BH	130	Total	C	N	O	S	0	0	0
			1029	660	193	175	1			

- Molecule 16 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	v	203	Total	C	N	O	S	0	0	0
			1713	1075	356	280	2			
16	BI	203	Total	C	N	O	S	0	0	0
			1713	1075	356	280	2			

- Molecule 17 is a protein called Ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	w	199	Total	C	N	O	S	0	0	0
			1590	1025	294	269	2			
17	BJ	199	Total	C	N	O	S	0	0	0
			1590	1025	294	269	2			

- Molecule 18 is a protein called Ribosomal protein L22.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	x	173	Total	C	N	O	0	0	0
			1387	856	280	251			
18	BK	176	Total	C	N	O	0	0	0
			1406	868	284	254			

- Molecule 19 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	y	185	Total	C	N	O	0	0	0
			1458	916	297	245			
19	BL	185	Total	C	N	O	0	0	0
			1458	916	297	245			

- Molecule 20 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	z	179	Total	C	N	O	S	0	0	0
			1457	901	310	243	3			
20	BM	179	Total	C	N	O	S	0	0	0
			1457	901	310	243	3			

- Molecule 21 is a protein called 60S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	0	170	Total	C	N	O	S	0	0	0
			1423	921	258	241	3			
21	BN	170	Total	C	N	O	S	0	0	0
			1423	921	258	241	3			

- Molecule 22 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	2	159	Total	C	N	O	S	0	0	0
			1262	798	241	221	2			
22	BO	159	Total	C	N	O	S	0	0	0
			1262	798	241	221	2			

- Molecule 23 is a protein called 60S ribosomal protein L22-B.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	5	103	Total	C	N	O	0	0	0
			831	539	138	154			
23	BP	102	Total	C	N	O	0	1	0
			837	546	138	153			

- Molecule 24 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	6	131	Total	C	N	O	S	0	0	0
			977	615	183	171	8			
24	BQ	131	Total	C	N	O	S	0	0	0
			977	615	183	171	8			

- Molecule 25 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	7	118	Total	C	N	O	S	0	0	0
			945	591	192	161	1			
25	BR	98	Total	C	N	O	S	0	0	0
			801	501	162	137	1			

- Molecule 26 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	8	120	Total	C	N	O	S	0	0	0
			965	616	173	175	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BS	119	Total 960	C 613	N 172	O 174	S 1	0	0	0

- Molecule 27 is a protein called Ribosomal protein L24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	9	126	Total 989	C 618	N 190	O 181	0	0	0
27	BT	126	Total 989	C 618	N 190	O 181	0	0	0

- Molecule 28 is a protein called 60S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	AA	135	Total 1087	C 705	N 197	O 183	S 2	0	0	0
28	BU	135	Total 1087	C 705	N 197	O 183	S 2	0	0	0

- Molecule 29 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	AB	148	Total 1170	C 741	N 231	O 197	S 1	0	0	0
29	BV	148	Total 1170	C 741	N 231	O 197	S 1	0	0	0

- Molecule 30 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
30	AC	59	Total 473	C 295	N 101	O 77	0	0	0
30	BW	61	Total 488	C 304	N 104	O 80	0	0	0

- Molecule 31 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	AD	96	Total 729	C 469	N 121	O 137	S 2	0	0	0
31	BX	96	Total 729	C 469	N 121	O 137	S 2	0	0	0

- Molecule 32 is a protein called 60S ribosomal protein L31-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AE	110	Total	C	N	O	S	0	0	0
			894	565	168	159	2			
32	BY	110	Total	C	N	O	S	0	0	0
			894	565	168	159	2			

- Molecule 33 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	AF	124	Total	C	N	O	S	0	0	0
			1000	638	194	167	1			
33	BZ	124	Total	C	N	O	S	0	0	0
			1004	641	195	167	1			

- Molecule 34 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	AG	106	Total	C	N	O	S	0	0	0
			847	543	161	142	1			
34	CA	106	Total	C	N	O	S	0	0	0
			847	543	161	142	1			

- Molecule 35 is a protein called 60S ribosomal protein L34-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	AH	112	Total	C	N	O	S	0	0	0
			887	547	182	154	4			
35	CB	112	Total	C	N	O	S	0	0	0
			887	547	182	154	4			

- Molecule 36 is a protein called Ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	AI	120	Total	C	N	O	S	0	0	0
			992	629	195	167	1			
36	CC	118	Total	C	N	O		0	0	0
			979	621	193	165				

- Molecule 37 is a protein called 60S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AJ	95	Total	C	N	O	S	0	0	0
			736	459	148	128	1			
37	CD	97	Total	C	N	O	S	0	0	0
			758	471	156	130	1			

- Molecule 38 is a protein called 60S ribosomal protein L37-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	AK	86	Total	C	N	O	S	0	0	0
			677	413	148	110	6			
38	CE	86	Total	C	N	O	S	0	0	0
			677	413	148	110	6			

- Molecule 39 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	AL	77	Total	C	N	O	0	0	0
			617	393	115	109			
39	CF	77	Total	C	N	O	0	0	0
			617	393	115	109			

- Molecule 40 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	AM	50	Total	C	N	O	0	0	0
			438	275	97	66			
40	CG	50	Total	C	N	O	0	0	0
			438	275	97	66			

- Molecule 41 is a protein called 60S ribosomal protein L40-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	AN	52	Total	C	N	O	S	0	0	0
			419	260	86	67	6			
41	CH	51	Total	C	N	O	S	0	0	0
			411	255	85	66	5			

- Molecule 42 is a protein called 60S ribosomal protein L41.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	AO	25	Total	C	N	O	S	0	0	0
			236	144	63	28	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	CI	24	Total	C	N	O	S	0	0	0
			227	138	61	27	1			

- Molecule 43 is a protein called 60S ribosomal protein L42-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	AP	103	Total	C	N	O	S	0	0	0
			828	521	165	137	5			
43	CJ	103	Total	C	N	O	S	0	0	0
			828	521	165	137	5			

- Molecule 44 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	AQ	91	Total	C	N	O	S	0	0	0
			698	430	140	124	4			
44	CK	91	Total	C	N	O	S	0	0	0
			698	430	140	124	4			

- Molecule 45 is a protein called 60S ribosomal protein CAALFM_C304810CA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	i	121	Total	C	N	O	0	0	0
			931	563	166	202			
45	CL	121	Total	C	N	O	0	0	0
			931	563	166	202			

- Molecule 46 is a RNA chain called 18S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B	1756	Total	C	N	O	P	0	0	0
			37425	16730	6631	12308	1756			
46	CM	1765	Total	C	N	O	P	0	0	0
			37621	16818	6670	12368	1765			

- Molecule 47 is a protein called 40S ribosomal protein S0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	C	208	Total	C	N	O	S	0	0	0
			1627	1041	284	297	5			
47	CN	208	Total	C	N	O	S	0	0	0
			1627	1041	284	297	5			

- Molecule 48 is a protein called 40S ribosomal protein S1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	D	214	Total	C	N	O	S	0	0	0
			1724	1094	313	313	4			
48	CO	214	Total	C	N	O	S	0	0	0
			1724	1094	313	313	4			

- Molecule 49 is a protein called Ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	E	217	Total	C	N	O	S	0	0	0
			1629	1039	289	296	5			
49	CP	217	Total	C	N	O	S	0	0	0
			1629	1039	289	296	5			

- Molecule 50 is a protein called Ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	F	223	Total	C	N	O	S	0	0	0
			1707	1087	311	305	4			
50	CQ	223	Total	C	N	O	S	0	0	0
			1707	1087	311	305	4			

- Molecule 51 is a protein called 40S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	G	259	Total	C	N	O	S	0	0	0
			2051	1304	385	357	5			
51	CR	260	Total	C	N	O	S	0	0	0
			2055	1306	386	358	5			

- Molecule 52 is a protein called Ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	H	206	Total	C	N	O	S	0	0	0
			1614	1008	301	301	4			
52	CS	206	Total	C	N	O	S	0	0	0
			1614	1008	301	301	4			

- Molecule 53 is a protein called 40S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	I	226	Total	C	N	O	S	0	0	0
			1820	1133	351	330	6			
53	CT	236	Total	C	N	O	S	0	0	0
			1904	1184	369	345	6			

- Molecule 54 is a protein called 40S ribosomal protein S7.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
54	J	185	Total	C	N	O	0	0	0
			1491	953	269	269			
54	CU	183	Total	C	N	O	0	0	0
			1475	944	265	266			

- Molecule 55 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	K	203	Total	C	N	O	S	0	0	0
			1579	973	322	283	1			
55	CV	203	Total	C	N	O	S	0	0	0
			1579	973	322	283	1			

- Molecule 56 is a protein called Ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	L	178	Total	C	N	O	S	0	0	0
			1453	918	286	248	1			
56	CW	178	Total	C	N	O	S	0	0	0
			1453	918	286	248	1			

- Molecule 57 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	M	94	Total	C	N	O		0	0	0
			785	508	131	146				
57	CX	94	Total	C	N	O	S	0	0	0
			791	515	131	144	1			

- Molecule 58 is a protein called 40S ribosomal protein S11A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	N	144	Total	C	N	O	S	0	0	0
			1150	734	215	198	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	CY	141	Total	C	N	O	S	0	0	0
			1129	722	212	192	3			

- Molecule 59 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	P	150	Total	C	N	O	S	0	0	0
			1187	757	219	210	1			
59	DA	150	Total	C	N	O	S	0	0	0
			1187	757	219	210	1			

- Molecule 60 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	Q	127	Total	C	N	O	S	0	0	0
			942	579	186	174	3			
60	DB	127	Total	C	N	O	S	0	0	0
			942	579	186	174	3			

- Molecule 61 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	R	129	Total	C	N	O	S	0	0	0
			1018	649	185	177	7			
61	DC	130	Total	C	N	O	S	0	0	0
			1029	655	189	178	7			

- Molecule 62 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	S	140	Total	C	N	O	S	0	0	0
			1091	700	198	192	1			
62	DD	140	Total	C	N	O	S	0	0	0
			1091	700	198	192	1			

- Molecule 63 is a protein called 40S ribosomal protein S17-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	T	124	Total	C	N	O	S	0	0	0
			997	628	183	185	1			
63	DE	124	Total	C	N	O	S	0	0	0
			997	628	183	185	1			

- Molecule 64 is a protein called 40S ribosomal protein S18-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	U	144	Total	C	N	O	S	0	0	0
			1187	744	233	207	3			
64	DF	141	Total	C	N	O	S	0	0	0
			1161	727	227	204	3			

- Molecule 65 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
65	V	141	Total	C	N	O	S	0	0	0
			1100	689	210	200	1			
65	DG	141	Total	C	N	O	S	0	0	0
			1100	689	210	200	1			

- Molecule 66 is a protein called Ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	W	102	Total	C	N	O	S	0	0	0
			808	509	150	147	2			
66	DH	97	Total	C	N	O	S	0	0	0
			763	481	140	140	2			

- Molecule 67 is a protein called 40S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	X	87	Total	C	N	O	S	0	0	0
			676	415	126	133	2			
67	DI	87	Total	C	N	O	S	0	0	0
			676	415	126	133	2			

- Molecule 68 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	Y	129	Total	C	N	O	S	0	0	0
			1032	655	191	183	3			
68	DJ	129	Total	C	N	O	S	0	0	0
			1032	655	191	183	3			

- Molecule 69 is a protein called Ribosomal protein S23 (S12).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	Z	143	Total	C	N	O	S	0	0	0
			1110	701	219	188	2			
69	DK	143	Total	C	N	O	S	0	0	0
			1110	701	219	188	2			

- Molecule 70 is a protein called 40S ribosomal protein S24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
70	a	134	Total	C	N	O	0	0	0
			1086	677	218	191			
70	DL	132	Total	C	N	O	0	0	0
			1072	670	216	186			

- Molecule 71 is a protein called 40S ribosomal protein S25.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
71	b	72	Total	C	N	O	0	0	0
			578	369	103	106			
71	DM	71	Total	C	N	O	0	0	0
			570	365	102	103			

- Molecule 72 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	c	98	Total	C	N	O	S	0	0	0
			779	482	163	128	6			
72	DN	98	Total	C	N	O	S	0	0	0
			779	482	163	128	6			

- Molecule 73 is a protein called 40S ribosomal protein S27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	d	81	Total	C	N	O	S	0	0	0
			614	383	110	114	7			
73	DO	81	Total	C	N	O	S	0	0	0
			614	383	110	114	7			

- Molecule 74 is a protein called 40S ribosomal protein S28-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	e	62	Total	C	N	O	S	0	0	0
			487	299	98	88	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	DP	61	Total	C	N	O	S	0	0	0
			476	293	94	87	2			

- Molecule 75 is a protein called 40S ribosomal protein S29A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	f	55	Total	C	N	O	S	0	0	0
			454	281	94	75	4			
75	DQ	54	Total	C	N	O	S	0	0	0
			449	278	93	74	4			

- Molecule 76 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	g	60	Total	C	N	O	S	0	0	0
			474	297	96	79	2			
76	DR	58	Total	C	N	O	S	0	0	0
			461	289	93	77	2			

- Molecule 77 is a protein called Ubiquitin-40S ribosomal protein S31 fusion protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	h	70	Total	C	N	O	S	0	0	0
			574	362	113	93	6			
77	DS	70	Total	C	N	O	S	0	0	0
			574	362	113	93	6			

- Molecule 78 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	AR	311	Total	C	N	O	S	0	0	0
			2398	1519	412	462	5			
78	DT	311	Total	C	N	O	S	0	0	0
			2398	1519	412	462	5			

- Molecule 79 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	CZ	119	Total	C	N	O	S	0	0	0
			913	566	163	179	5			
79	O	39	Total	C	N	O	S	0	0	0
			293	180	50	60	3			

- Molecule 80 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	P0	107	Total	C	N	O	S	0	0	0
			845	542	150	150	3			
80	p0	61	Total	C	N	O	S	0	0	0
			487	305	94	85	3			

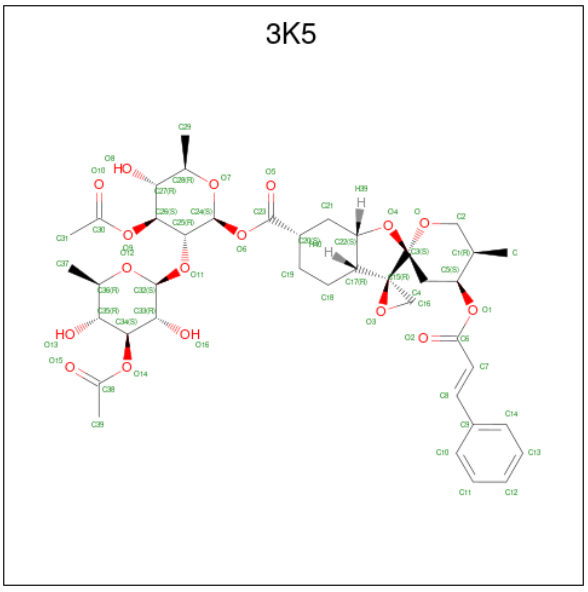
- Molecule 81 is a protein called 60S ribosomal protein L12-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	12	62	Total	C	N	O	S	0	0	0
			472	293	83	94	2			

- Molecule 82 is a protein called Ribosomal protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	L1	217	Total	C	N	O	S	0	0	0
			1711	1096	294	312	9			
82	l1	211	Total	C	N	O	S	0	0	0
			1661	1064	287	302	8			

- Molecule 83 is 3-O-acetyl-2-O-(3-O-acetyl-6-deoxy-beta-D-glucopyranosyl)-6-deoxy-1-O-{[(2R,2'S,3a'R,4''S,5''R,6'S,7a'S)-5''-methyl-4''-{[(2E)-3-phenylprop-2-enoyl]oxy}decahydrodispiro[oxirane-2,3'-[1]benzofuran-2',2''-pyran]-6'-yl]carbonyl}-beta-D-glucopyranose (three-letter code: 3K5) (formula: $C_{40}H_{52}O_{17}$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
83	1	1	Total C O 57 40 17	0	0
83	AS	1	Total C O 57 40 17	0	0

- Molecule 84 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	1	636	Total Mg 636 636	0	0
84	3	19	Total Mg 19 19	0	0
84	4	15	Total Mg 15 15	0	0
84	j	3	Total Mg 3 3	0	0
84	k	7	Total Mg 7 7	0	0
84	o	6	Total Mg 6 6	0	0
84	r	3	Total Mg 3 3	0	0
84	s	1	Total Mg 1 1	0	0
84	u	2	Total Mg 2 2	0	0
84	v	4	Total Mg 4 4	0	0
84	w	4	Total Mg 4 4	0	0
84	x	3	Total Mg 3 3	0	0
84	y	3	Total Mg 3 3	0	0
84	z	1	Total Mg 1 1	0	0
84	0	3	Total Mg 3 3	0	0
84	2	2	Total Mg 2 2	0	0
84	6	3	Total Mg 3 3	0	0
84	8	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	9	1	Total Mg 1 1	0	0
84	AA	1	Total Mg 1 1	0	0
84	AB	2	Total Mg 2 2	0	0
84	AC	2	Total Mg 2 2	0	0
84	AD	2	Total Mg 2 2	0	0
84	AE	2	Total Mg 2 2	0	0
84	AF	2	Total Mg 2 2	0	0
84	AG	2	Total Mg 2 2	0	0
84	AH	1	Total Mg 1 1	0	0
84	AI	1	Total Mg 1 1	0	0
84	AJ	1	Total Mg 1 1	0	0
84	AM	1	Total Mg 1 1	0	0
84	AO	1	Total Mg 1 1	0	0
84	AP	2	Total Mg 2 2	0	0
84	i	1	Total Mg 1 1	0	0
84	B	197	Total Mg 197 197	0	0
84	D	2	Total Mg 2 2	0	0
84	E	1	Total Mg 1 1	0	0
84	G	1	Total Mg 1 1	0	0
84	I	1	Total Mg 1 1	0	0
84	J	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	K	2	Total Mg 2 2	0	0
84	Q	2	Total Mg 2 2	0	0
84	R	1	Total Mg 1 1	0	0
84	U	1	Total Mg 1 1	0	0
84	Y	3	Total Mg 3 3	0	0
84	Z	3	Total Mg 3 3	0	0
84	a	1	Total Mg 1 1	0	0
84	c	1	Total Mg 1 1	0	0
84	f	1	Total Mg 1 1	0	0
84	g	1	Total Mg 1 1	0	0
84	AR	1	Total Mg 1 1	0	0
84	AS	433	Total Mg 433 433	0	0
84	AT	14	Total Mg 14 14	0	0
84	AU	9	Total Mg 9 9	0	0
84	AW	4	Total Mg 4 4	0	0
84	AX	1	Total Mg 1 1	0	0
84	AY	1	Total Mg 1 1	0	0
84	BB	6	Total Mg 6 6	0	0
84	BE	3	Total Mg 3 3	0	0
84	BF	1	Total Mg 1 1	0	0
84	BH	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	BI	1	Total Mg 1 1	0	0
84	BJ	4	Total Mg 4 4	0	0
84	BK	1	Total Mg 1 1	0	0
84	BN	3	Total Mg 3 3	0	0
84	BO	2	Total Mg 2 2	0	0
84	BS	2	Total Mg 2 2	0	0
84	BV	1	Total Mg 1 1	0	0
84	BZ	4	Total Mg 4 4	0	0
84	CA	2	Total Mg 2 2	0	0
84	CJ	1	Total Mg 1 1	0	0
84	CL	4	Total Mg 4 4	0	0
84	CM	183	Total Mg 183 183	0	0
84	CN	1	Total Mg 1 1	0	0
84	CO	1	Total Mg 1 1	0	0
84	CP	1	Total Mg 1 1	0	0
84	CQ	3	Total Mg 3 3	0	0
84	CW	2	Total Mg 2 2	0	0
84	CY	1	Total Mg 1 1	0	0
84	DA	1	Total Mg 1 1	0	0
84	DB	3	Total Mg 3 3	0	0
84	DG	2	Total Mg 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	DJ	2	Total Mg 2 2	0	0

- Molecule 85 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	AH	1	Total Zn 1 1	0	0
85	AK	1	Total Zn 1 1	0	0
85	AN	1	Total Zn 1 1	0	0
85	AP	1	Total Zn 1 1	0	0
85	AQ	1	Total Zn 1 1	0	0
85	c	1	Total Zn 1 1	0	0
85	d	1	Total Zn 1 1	0	0
85	f	1	Total Zn 1 1	0	0
85	h	1	Total Zn 1 1	0	0
85	CB	1	Total Zn 1 1	0	0
85	CE	1	Total Zn 1 1	0	0
85	CH	1	Total Zn 1 1	0	0
85	CJ	1	Total Zn 1 1	0	0
85	CK	1	Total Zn 1 1	0	0
85	DN	1	Total Zn 1 1	0	0
85	DO	1	Total Zn 1 1	0	0
85	DQ	1	Total Zn 1 1	0	0
85	DS	1	Total Zn 1 1	0	0

- Molecule 86 is water.

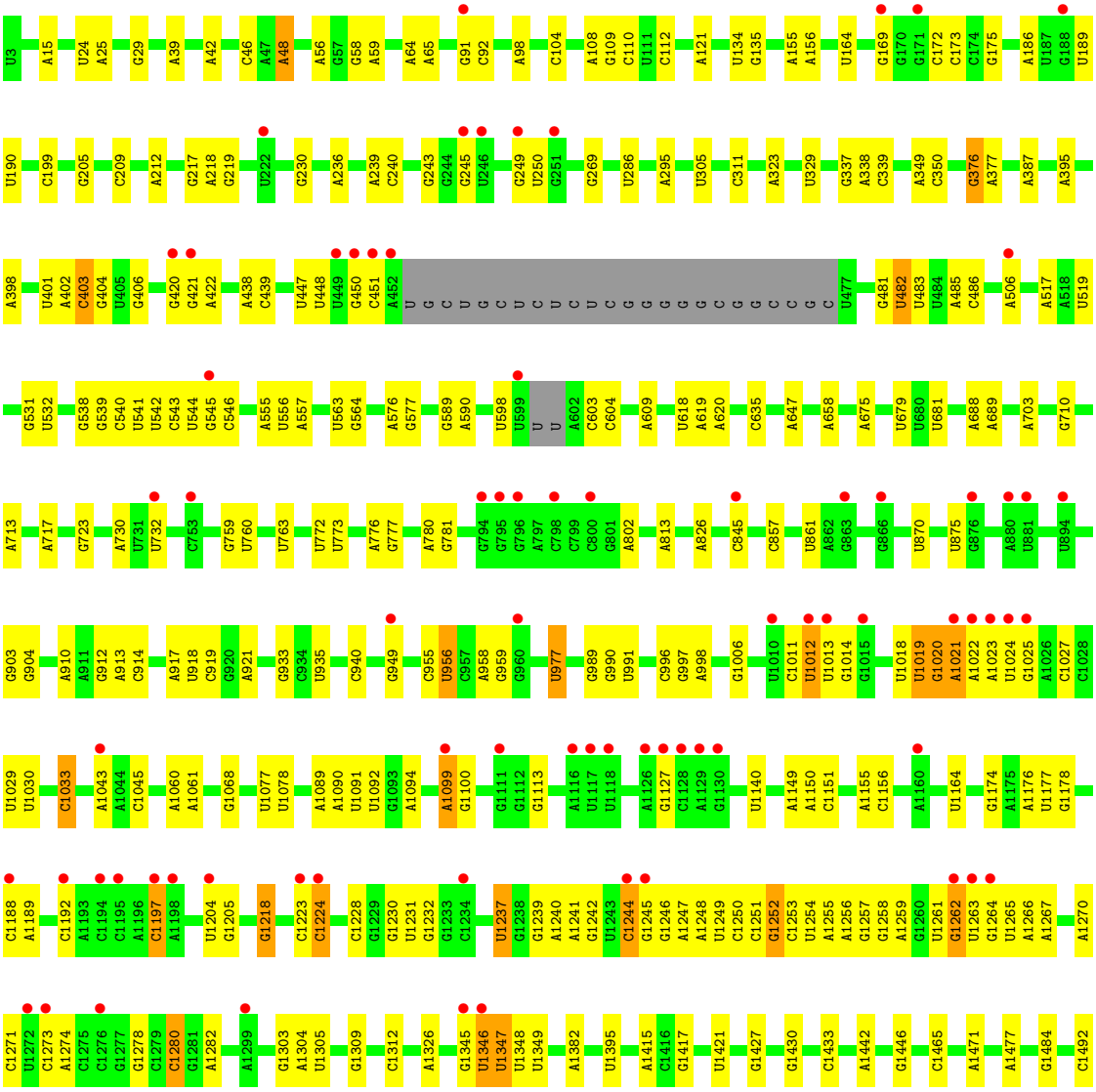
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	23	Total O 23 23	0	0
86	l	1	Total O 1 1	0	0
86	B	12	Total O 12 12	0	0
86	AS	22	Total O 22 22	0	0
86	BQ	2	Total O 2 2	0	0

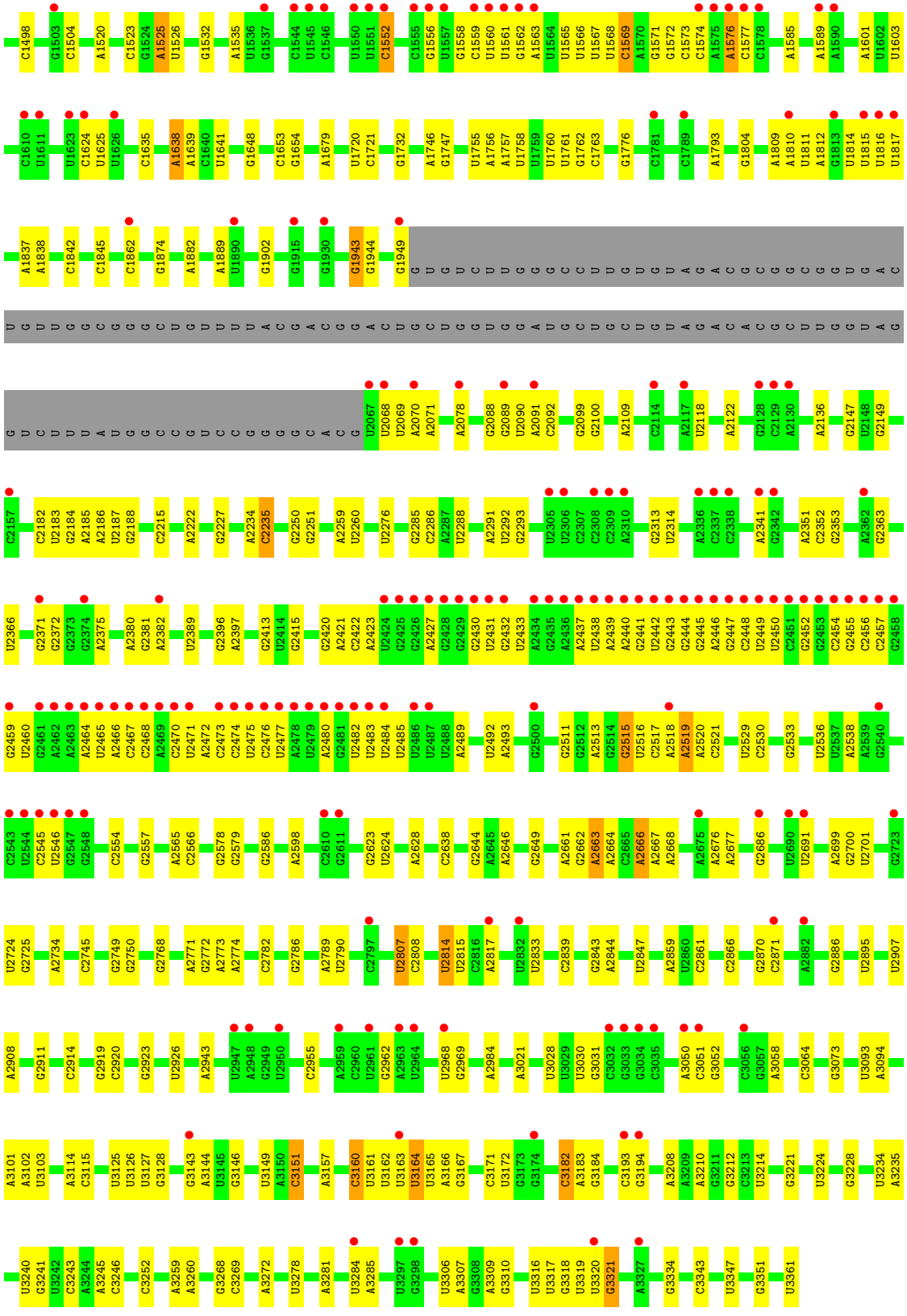
3 Residue-property plots (i)

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: 25S

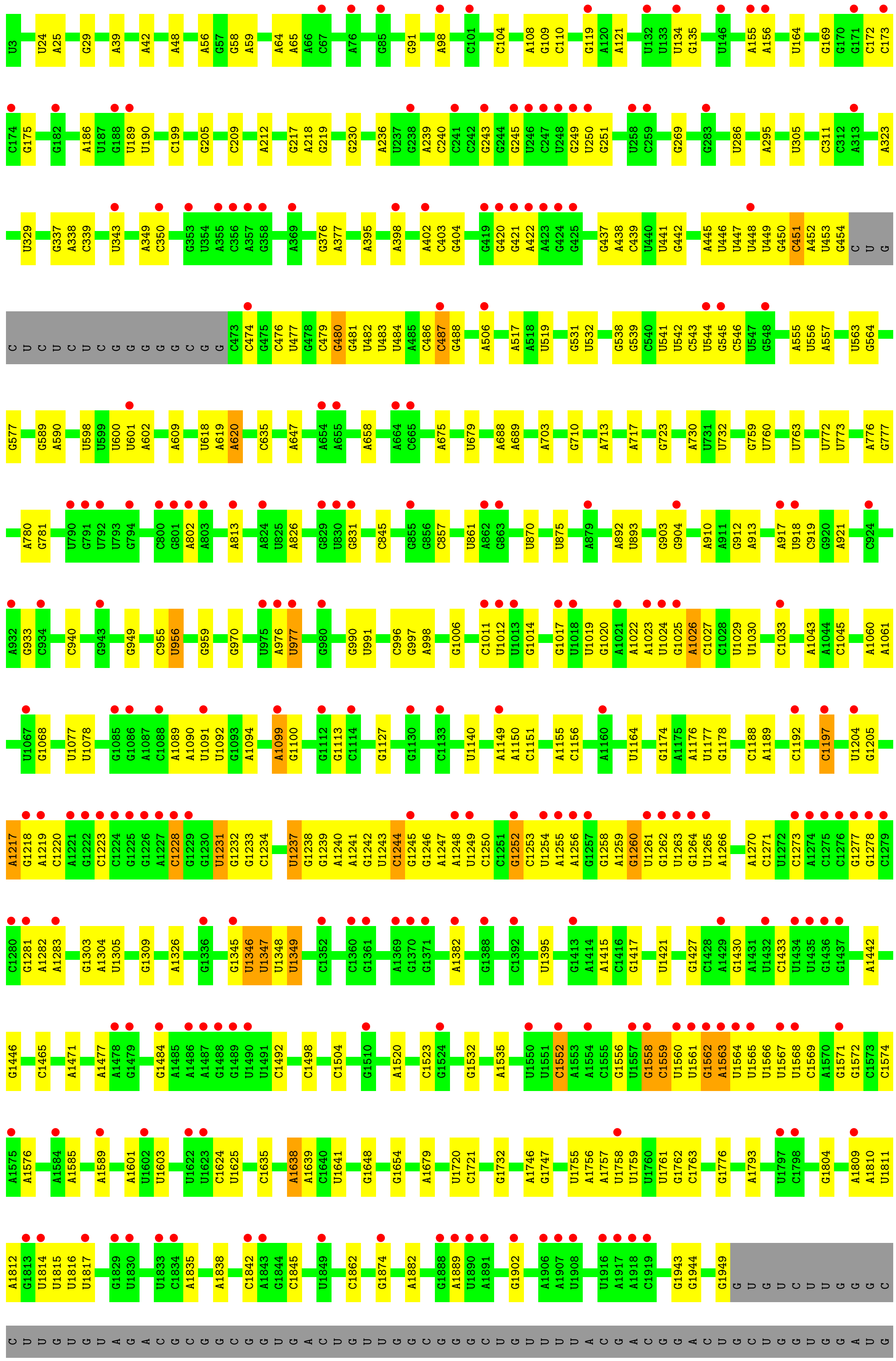
Chain 1:

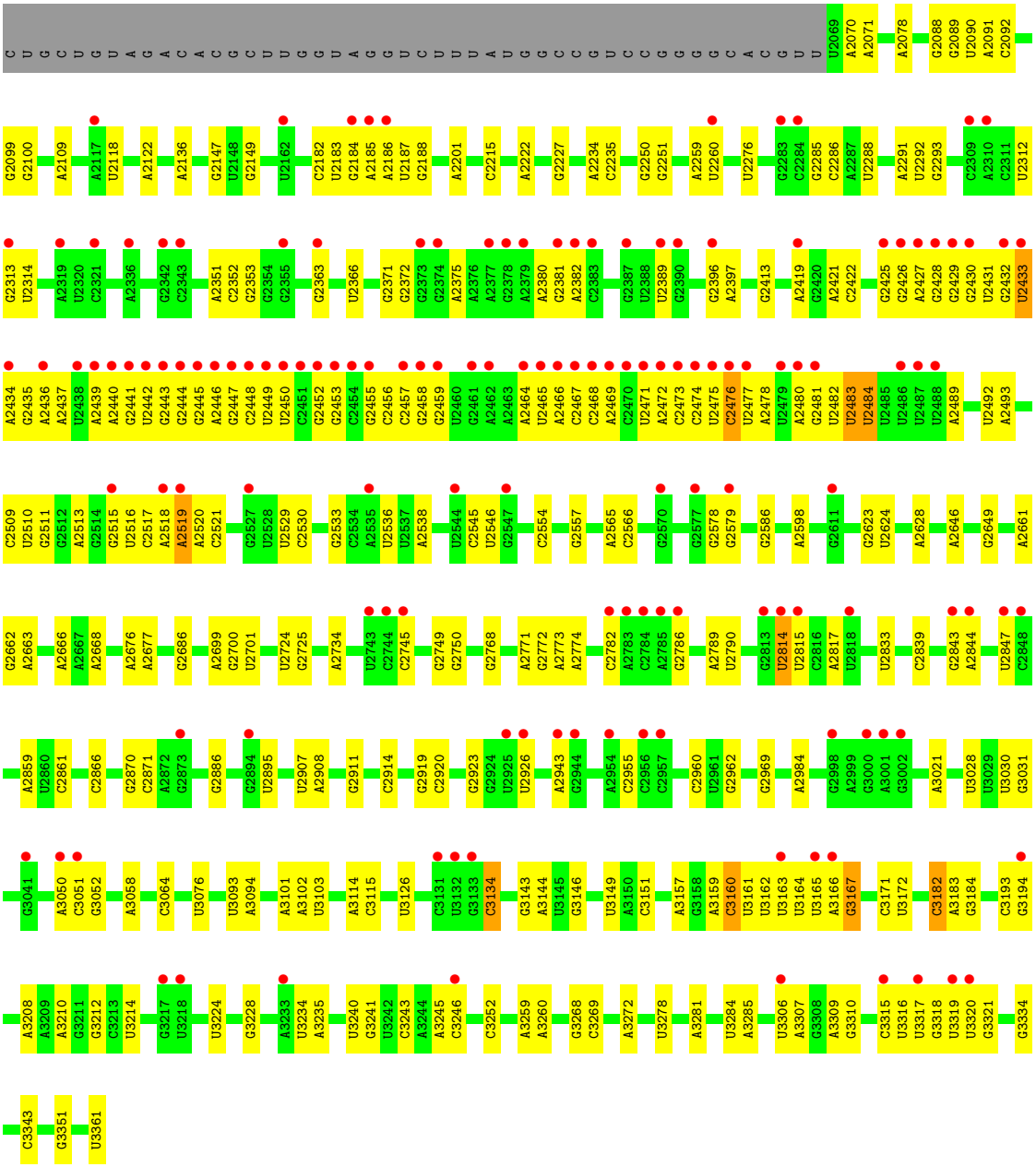




- Molecule 1: 25S

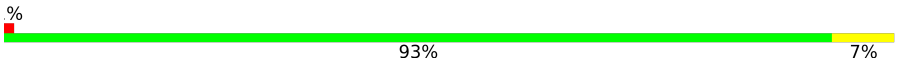
Chain AS:

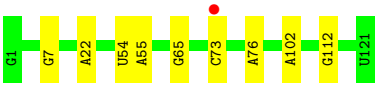

U3 U24 A25 G29 A39 A42 A48 A56 G57 G58 A59 A64 A65 A66 C67 A76 G85 G91 A98 C101 C104 A108 G109 C110 G119 A120 A121 U132 U133 U134 G135 U146 A155 A156 U164 G169 G170 G171 C172 C173
C174 G175 G182 A186 U187 G188 U189 U190 C199 G205 C209 A212 G217 A218 G219 G230 A236 U237 G238 A239 C240 C241 C242 G243 G244 G245 U246 C247 U248 G249 U250 G251 U258 C259 G269 G283 U286 A295 U305 C311 C312 A313 A323
U329 G337 A338 C339 U343 A349 C350 G353 U354 A355 C356 A357 G358 A369 G376 A377 A395 A398 A402 C403 G404 G419 G420 G421 A422 A423 G424 G425 G437 A438 C439 U440 U441 G442 A445 U446 U447 U448 U449 G450 C451 A452 U453 G454 C U G
C U C U C U C G G G G C G G C473 C474 G475 C476 U477 G478 C479 G480 G481 U482 U483 U484 A485 C486 C487 G488 A506 A517 A518 U519 G531 U532 G538 G539 C540 U541 U542 C543 U544 G545 C546 U547 G548 A555 U556 A557 U563 G564
G577 G589 A590 U598 U599 U600 U601 A602 A609 U618 A619 A620 C635 A647 A654 A655 A658 A664 C665 A675 U679 A688 A689 A703 G710 A713 A717 G723 A730 U731 U732 G759 U760 U763 U772 U773 A776 G777
A780 G781 U790 G791 U792 U793 G794 C800 G801 A802 A803 A813 A824 U825 A826 G829 U830 G831 C845 G855 G856 C857 U861 A862 G863 U870 U875 A879 A892 U893 G903 G904 A910 A911 G912 A913 A917 U918 C919 G920 A921 C924
A932 G933 C934 C940 G943 G949 C955 U956 G959 G970 U975 A976 U977 G980 G990 U991 C996 G997 A998 G1006 C1011 U1012 U1013 G1014 G1017 U1018 U1019 G1020 A1021 A1022 A1023 U1024 G1025 A1026 C1027 C1028 U1029 U1030 C1033 A1043 A1044 C1045 A1060 A1061
U1067 G1068 U1077 U1078 G1085 G1086 A1087 C1088 A1089 A1090 U1091 U1092 G1093 A1094 A1099 G1100 G1112 G1113 C1114 G1127 G1130 C1133 U1140 A1149 A1150 C1151 A1155 C1156 A1160 U1164 G1174 A1175 A1176 U1177 G1178 C1188 A1189 C1192 C1197 U1204 G1205
A1217 G1218 A1219 C1220 A1221 G1222 C1223 C1224 G1225 C1226 A1227 C1228 G1229 G1230 U1231 G1232 G1233 C1234 U1237 G1238 G1239 A1240 A1241 G1242 U1243 C1244 G1245 G1246 A1247 A1248 U1249 C1250 C1251 G1252 C1253 U1254 A1255 A1256 G1257 G1258 A1259 G1260 U1261 G1262 U1263 G1264 A1265 A1266 A1270 C1271 U1272 C1273 A1274 C1275 C1276 G1277 G1278 C1279
C1280 G1281 A1282 A1283 G1303 A1304 U1305 G1309 A1326 G1336 G1345 U1346 U1347 U1348 U1349 C1352 C1360 G1361 A1369 G1370 G1371 A1382 G1388 C1392 U1395 G1413 A1414 A1415 C1416 G1417 U1421 G1427 C1428 A1429 G1430 A1431 U1432 C1433 U1434 U1435 G1436 G1437 A1442
G1446 C1465 A1471 A1477 A1478 G1479 G1484 A1485 A1486 A1487 G1488 G1489 U1490 U1491 C1492 C1498 C1504 G1510 A1520 C1523 G1524 G1532 A1535 U1550 U1551 C1552 A1553 A1554 C1555 G1556 U1557 G1558 C1559 U1560 U1561 G1562 A1563 U1564 U1565 U1566 U1567 U1568 C1569 A1570 G1571 G1572 C1573 C1574
A1575 A1576 A1584 A1585 A1589 A1601 U1602 U1603 U1622 U1623 C1624 U1625 C1635 A1638 A1639 C1640 U1641 G1648 G1654 A1679 U1720 C1721 G1732 A1746 G1747 U1755 A1756 A1757 U1758 U1759 U1760 U1761 G1762 C1763 G1776 A1793 U1797 C1798 G1804 A1809 A1810 U1811
A1812 G1813 U1814 U1815 U1816 U1817 G1829 U1830 U1833 C1834 A1835 A1838 C1842 A1843 G1844 C1845 U1849 C1862 G1874 A1882 G1888 A1889 U1890 A1891 G1902 A1906 A1907 U1908 U1916 A1917 A1918 C1919 G1943 G1944 G1949 G U G U C U U G G G C
C U U G U G U A G A C G C G G C G G U G A C U G U U G G C G G G C U G U U U A C G A C G G A C U G C U G G U G G A U G



• Molecule 2: 5S

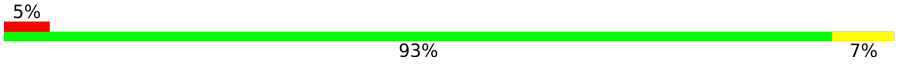
Chain 3:

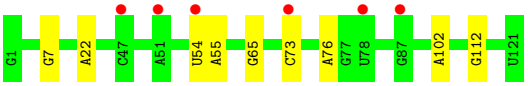




• Molecule 2: 5S

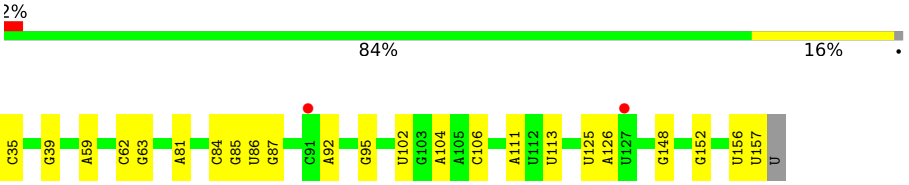
Chain AT:





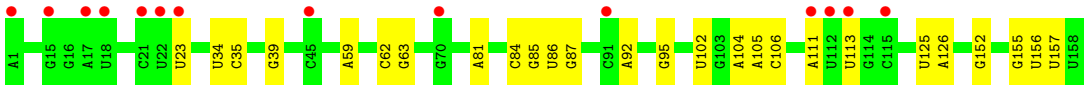
• Molecule 3: 5.8S

Chain 4:



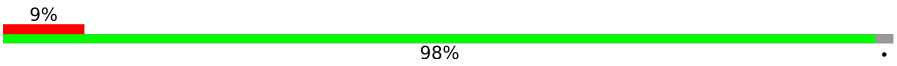
• Molecule 3: 5.8S

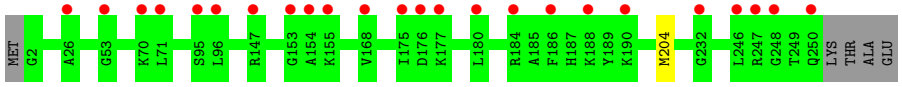
Chain AU:



• Molecule 4: 60S ribosomal protein L2-B

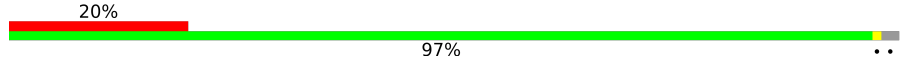
Chain j:

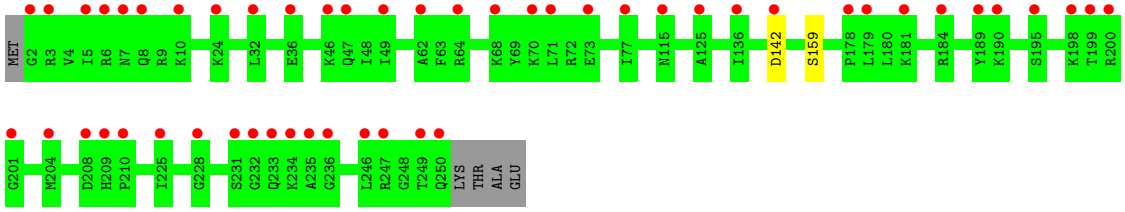




• Molecule 4: 60S ribosomal protein L2-B

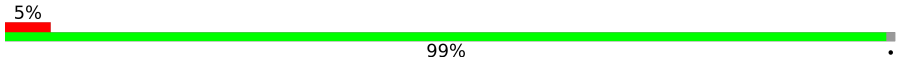
Chain AW:

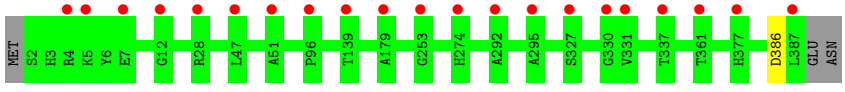




• Molecule 5: 60S ribosomal protein L3

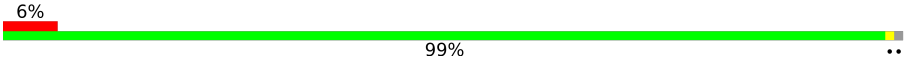
Chain k:

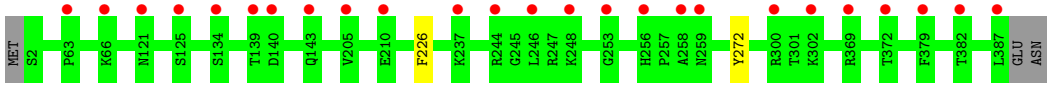




• Molecule 5: 60S ribosomal protein L3

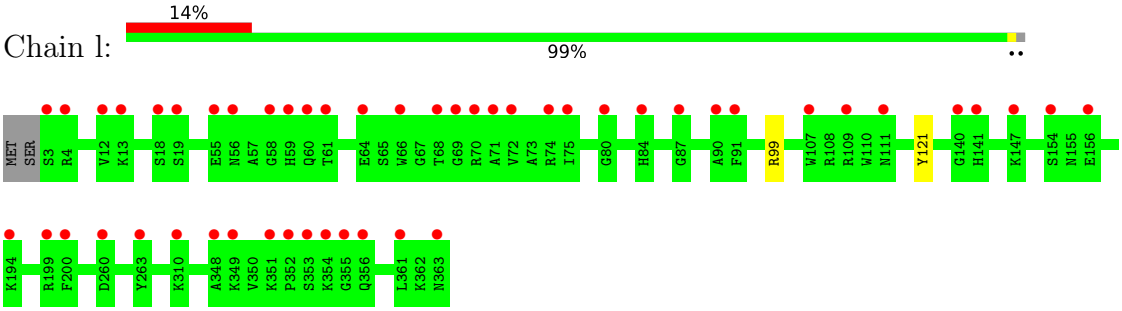
Chain AX:





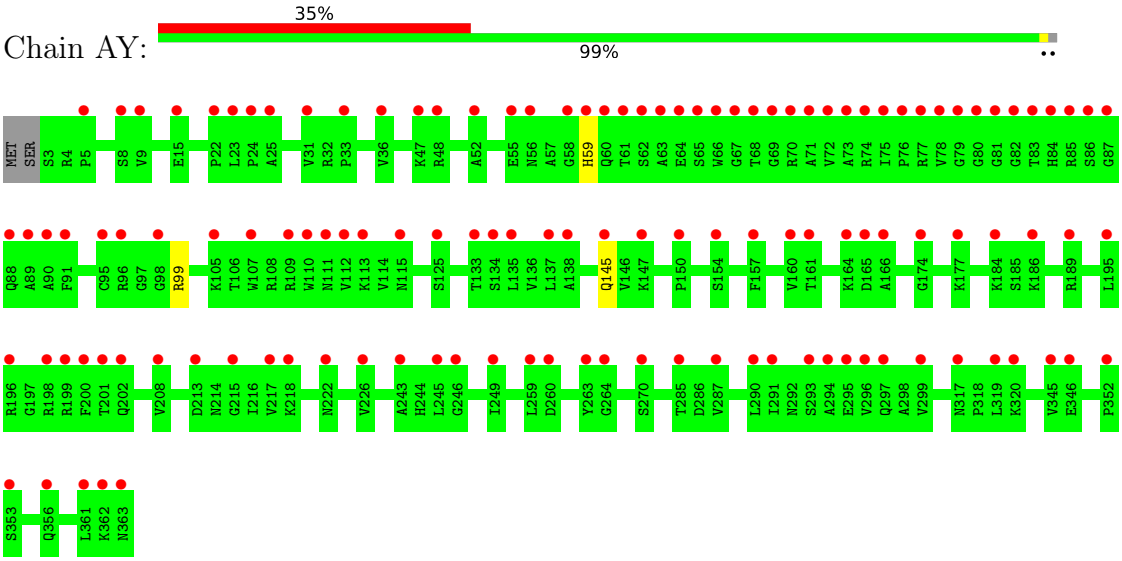
• Molecule 6: 60S ribosomal protein L4-B

Chain l:



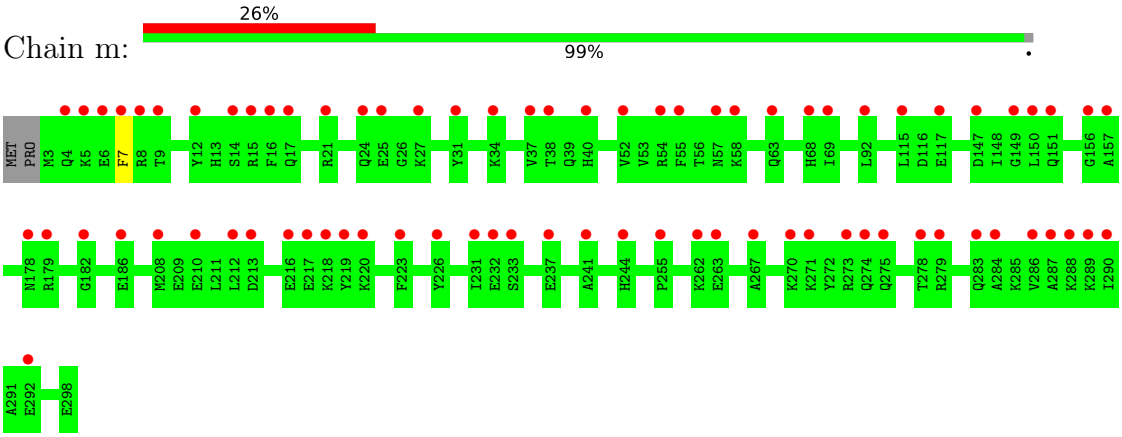
• Molecule 6: 60S ribosomal protein L4-B

Chain AY:



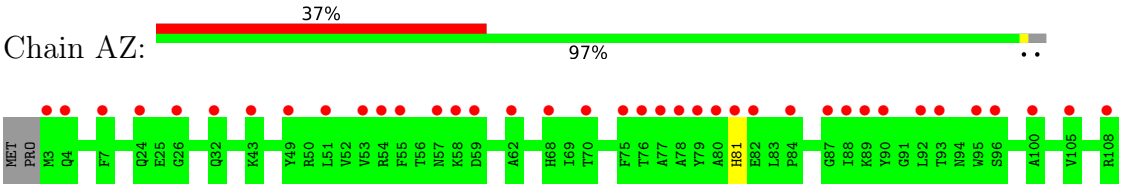
• Molecule 7: Uncharacterized protein CaJ7.0206

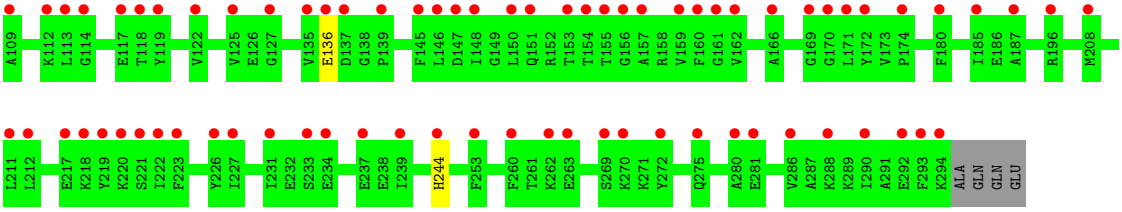
Chain m:



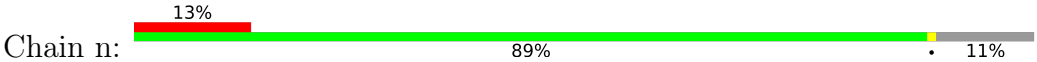
• Molecule 7: Uncharacterized protein CaJ7.0206

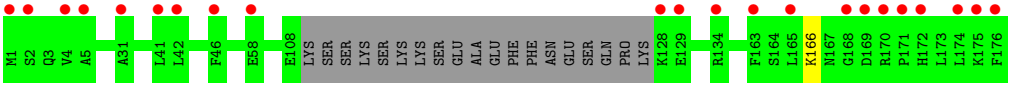
Chain AZ:



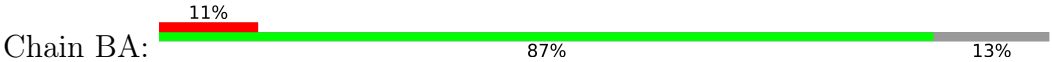


• Molecule 8: 60S ribosomal protein L6

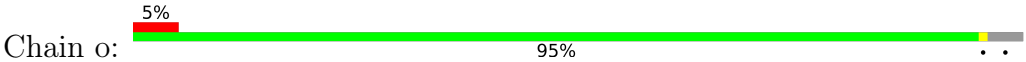


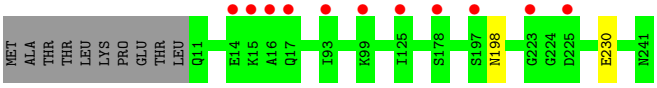


• Molecule 8: 60S ribosomal protein L6

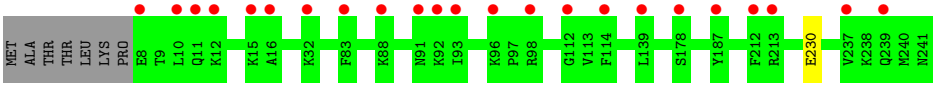


• Molecule 9: 60S ribosomal protein L7-A

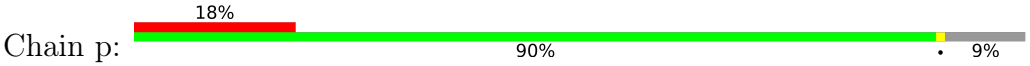


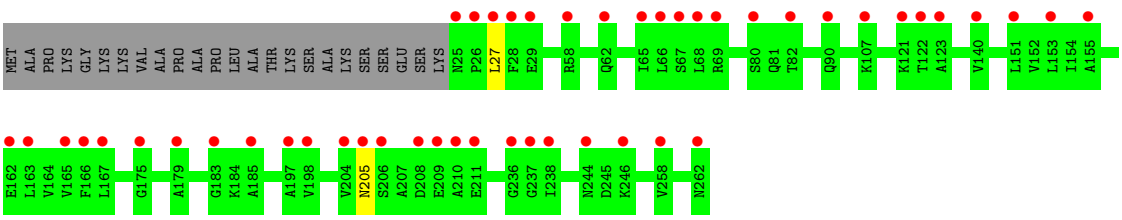


• Molecule 9: 60S ribosomal protein L7-A



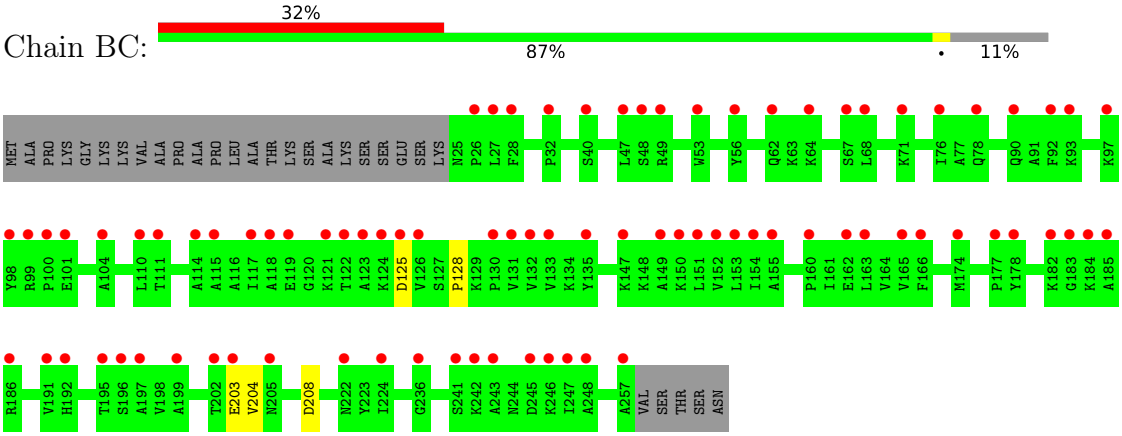
• Molecule 10: 60S ribosomal protein L8





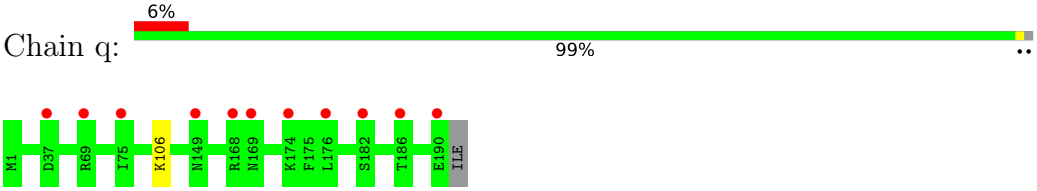
• Molecule 10: 60S ribosomal protein L8

Chain BC:



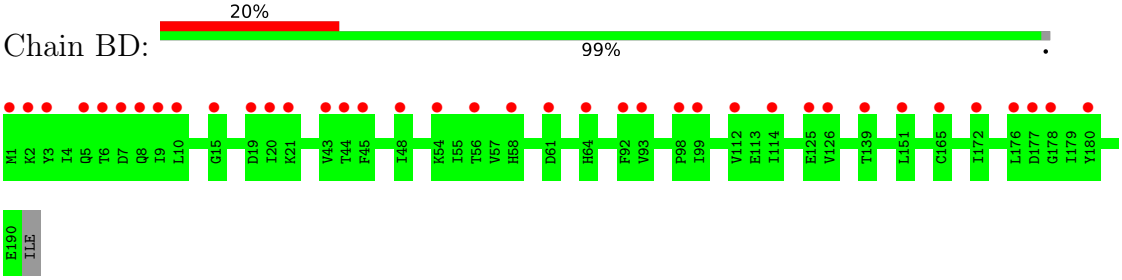
• Molecule 11: 60S ribosomal protein L9-B

Chain q:



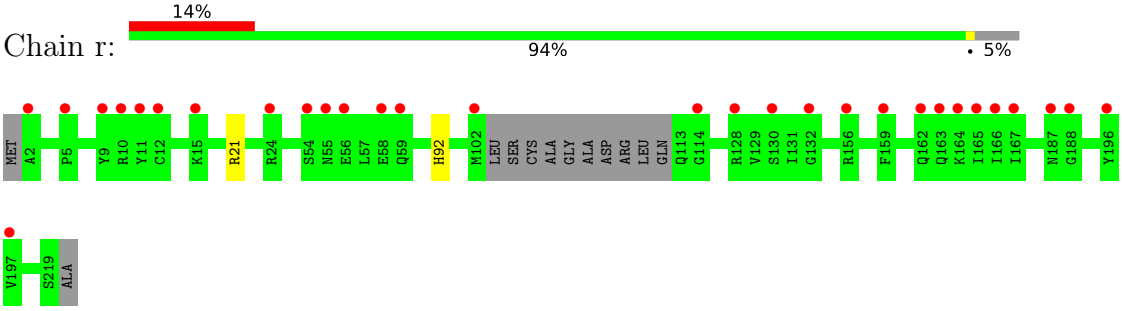
• Molecule 11: 60S ribosomal protein L9-B

Chain BD:



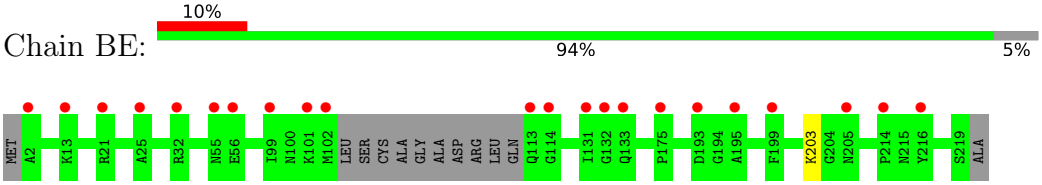
• Molecule 12: 60S ribosomal protein L10

Chain r:



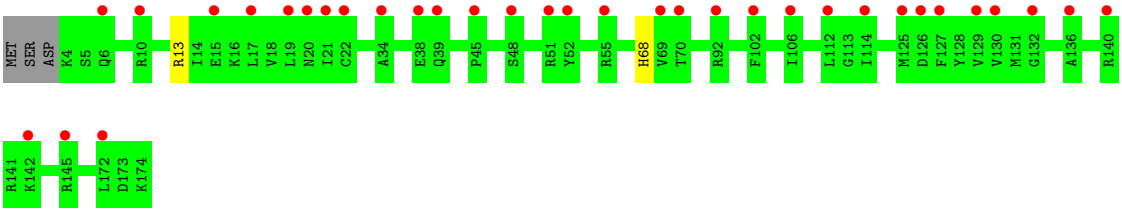
• Molecule 12: 60S ribosomal protein L10

Chain BE:



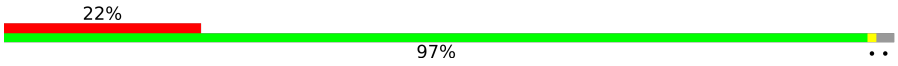
• Molecule 13: 60S ribosomal protein L11-B

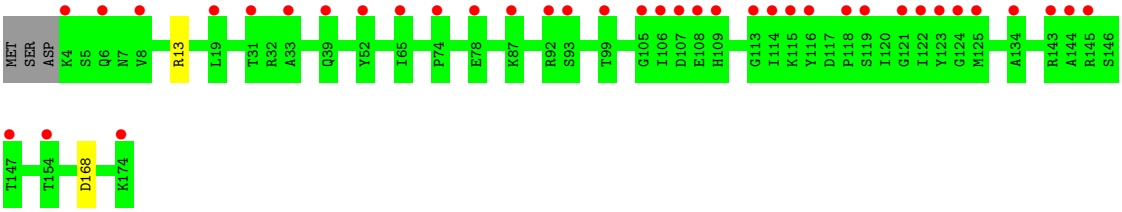
Chain s:



• Molecule 13: 60S ribosomal protein L11-B

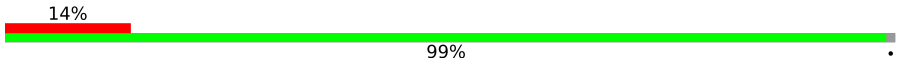
Chain BF:





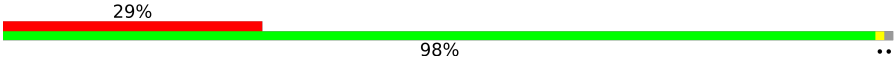
• Molecule 14: 60S ribosomal protein L13

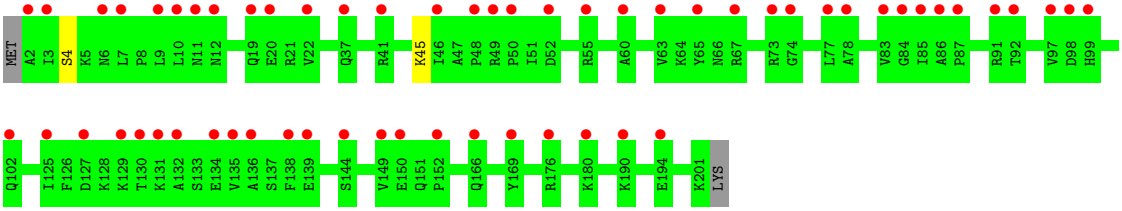
Chain t:



• Molecule 14: 60S ribosomal protein L13

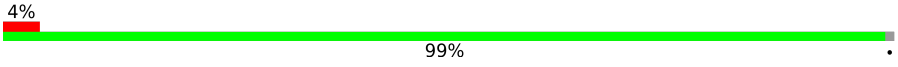
Chain BG:

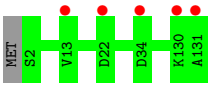




• Molecule 15: 60S ribosomal protein L14-B

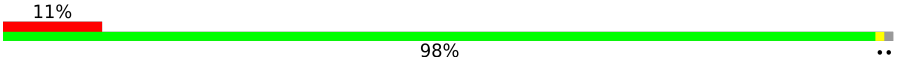
Chain u:

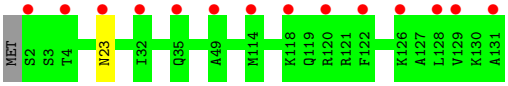




• Molecule 15: 60S ribosomal protein L14-B

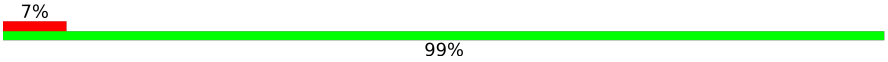
Chain BH:

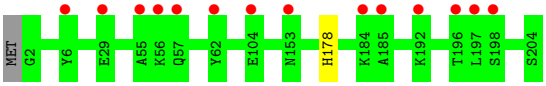




• Molecule 16: 60S ribosomal protein L15-A

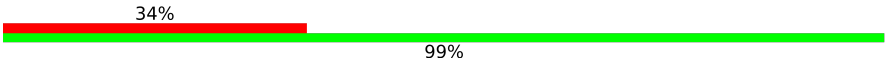
Chain v:

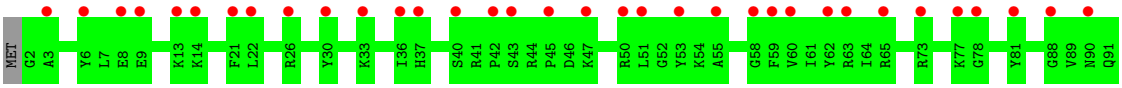


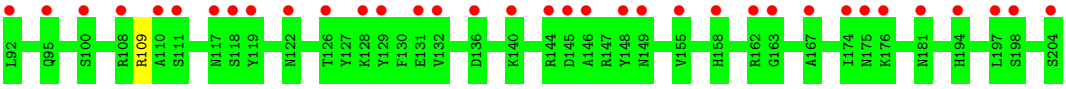


• Molecule 16: 60S ribosomal protein L15-A

Chain BI:

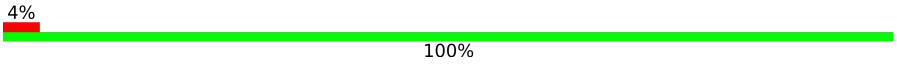


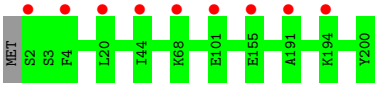




• Molecule 17: Ribosomal protein L13

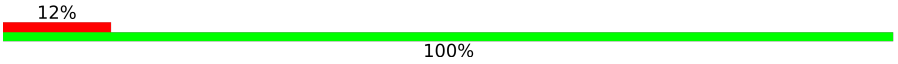
Chain w:

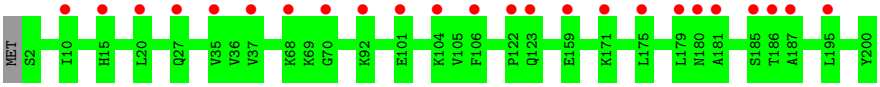




• Molecule 17: Ribosomal protein L13

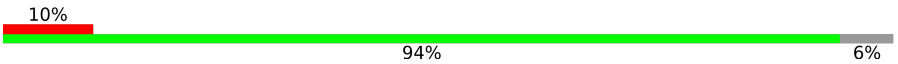
Chain BJ:

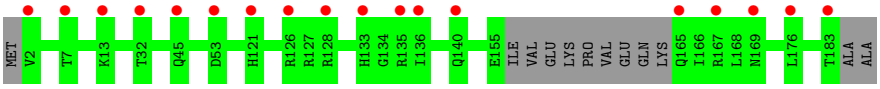




• Molecule 18: Ribosomal protein L22

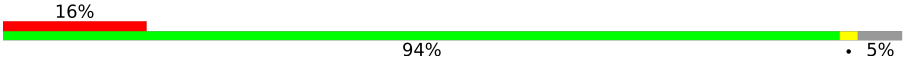
Chain x:

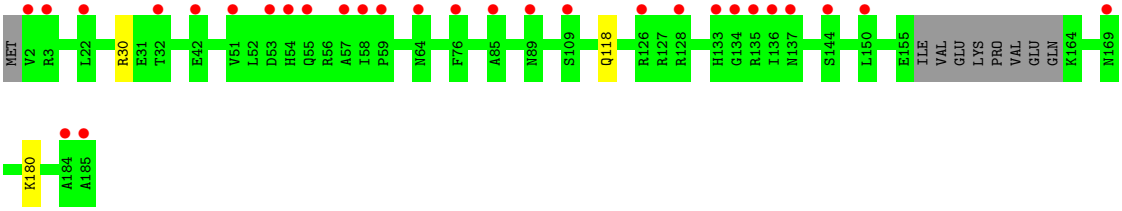




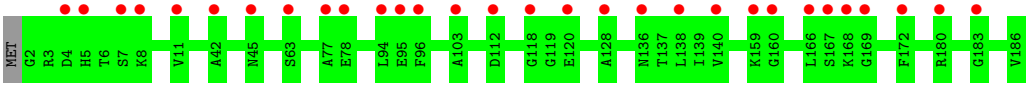
• Molecule 18: Ribosomal protein L22

Chain BK:

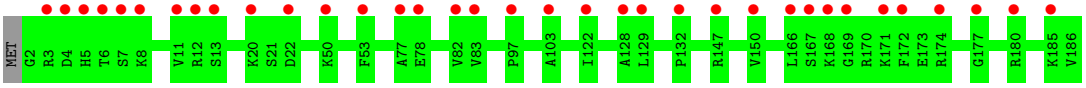




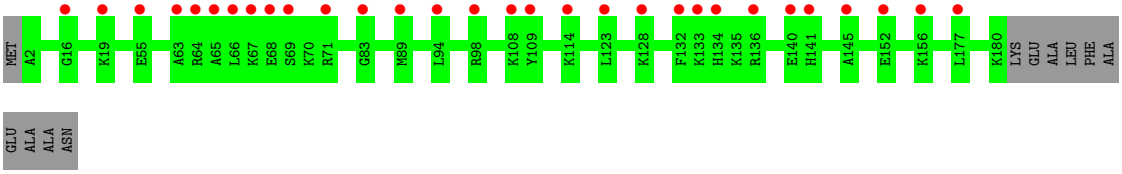
• Molecule 19: 60S ribosomal protein L18-A



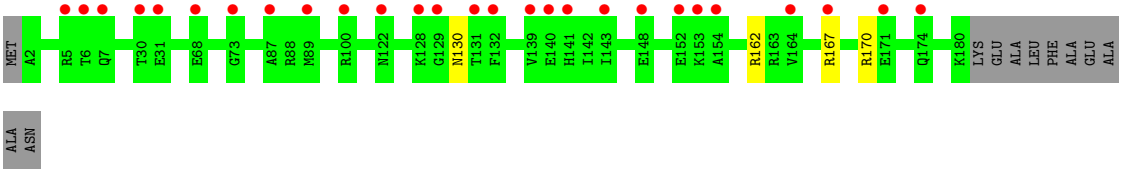
• Molecule 19: 60S ribosomal protein L18-A



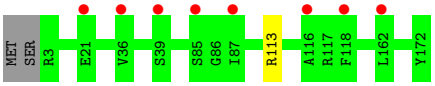
• Molecule 20: 60S ribosomal protein L19-A



• Molecule 20: 60S ribosomal protein L19-A

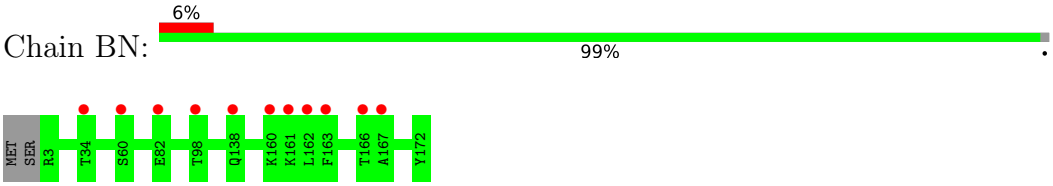


• Molecule 21: 60S ribosomal protein L20



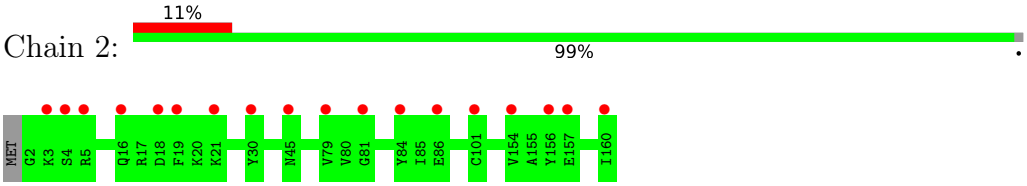
• Molecule 21: 60S ribosomal protein L20

Chain BN:



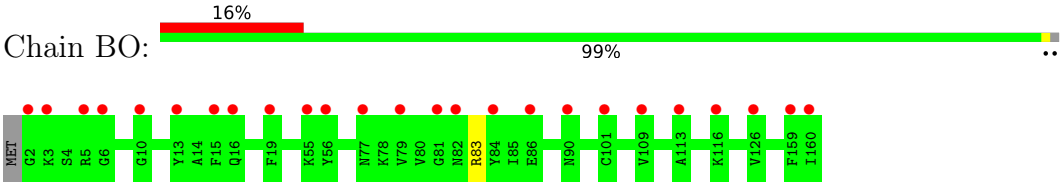
• Molecule 22: 60S ribosomal protein L21-A

Chain 2:



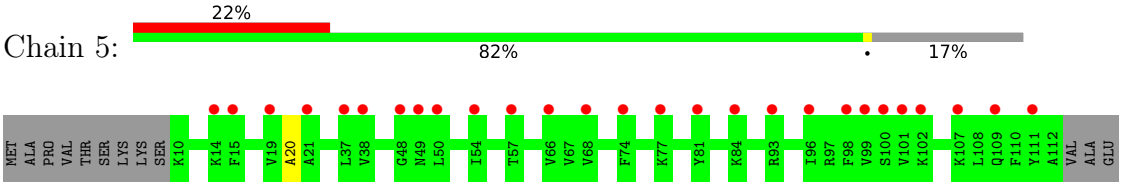
• Molecule 22: 60S ribosomal protein L21-A

Chain BO:



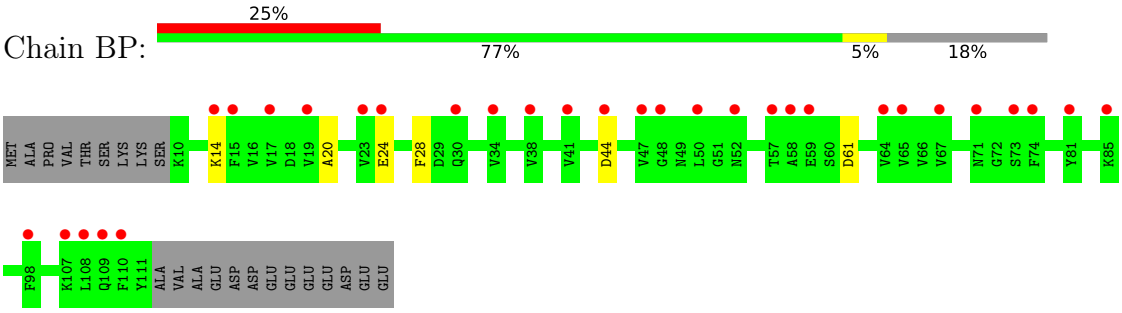
• Molecule 23: 60S ribosomal protein L22-B

Chain 5:



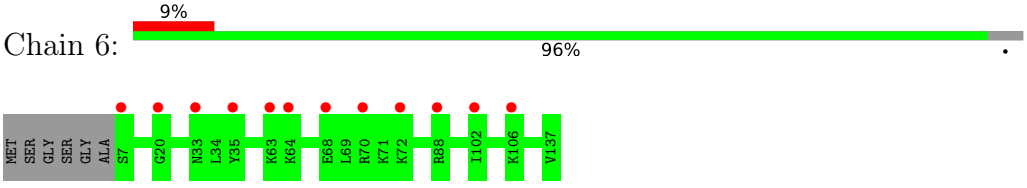
• Molecule 23: 60S ribosomal protein L22-B

Chain BP:



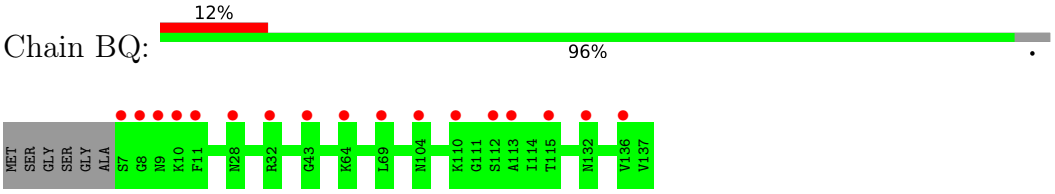
• Molecule 24: 60S ribosomal protein L23-A

Chain 6:



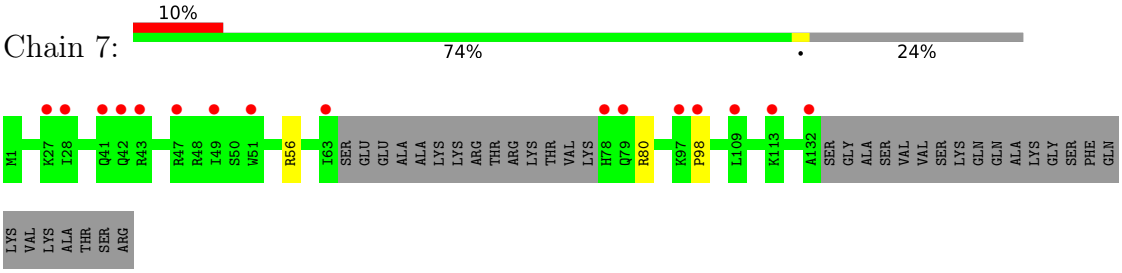
• Molecule 24: 60S ribosomal protein L23-A

Chain BQ:



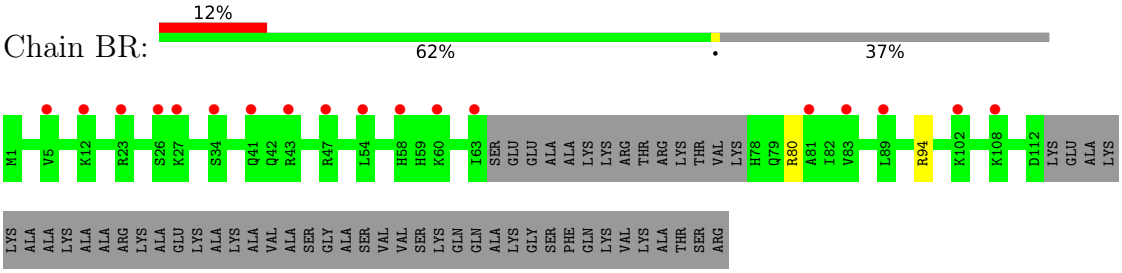
• Molecule 25: 60S ribosomal protein L24-A

Chain 7:



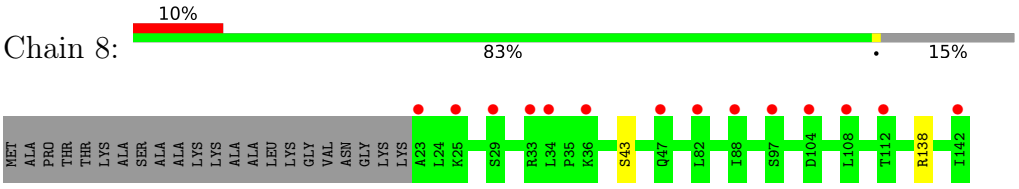
• Molecule 25: 60S ribosomal protein L24-A

Chain BR:



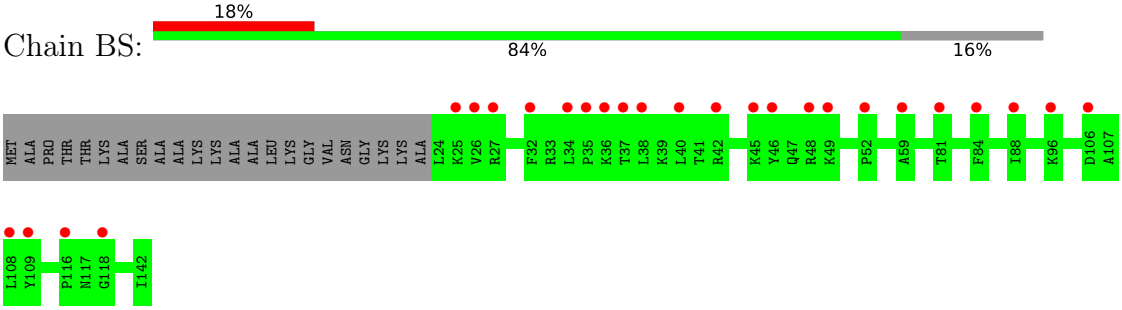
• Molecule 26: 60S ribosomal protein L25

Chain 8:



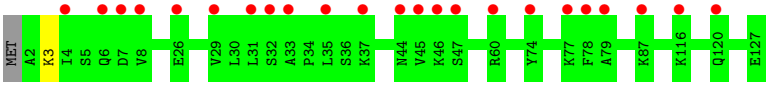
• Molecule 26: 60S ribosomal protein L25

Chain BS:



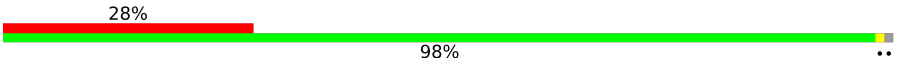
• Molecule 27: Ribosomal protein L24

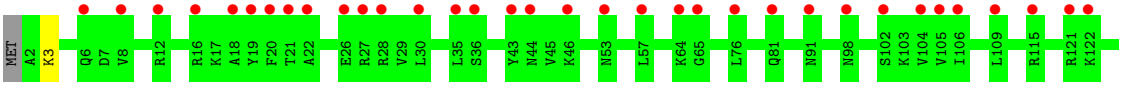
Chain 9:



• Molecule 27: Ribosomal protein L24

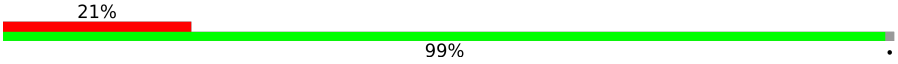
Chain BT:

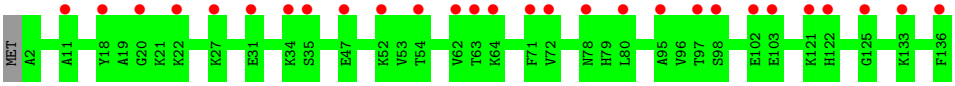




• Molecule 28: 60S ribosomal protein L27

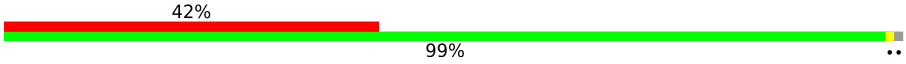
Chain AA:

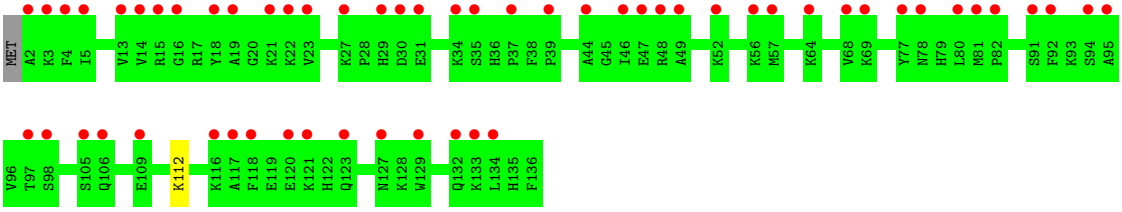




• Molecule 28: 60S ribosomal protein L27

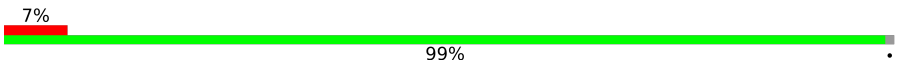
Chain BU:

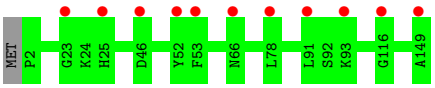




• Molecule 29: 60S ribosomal protein L28

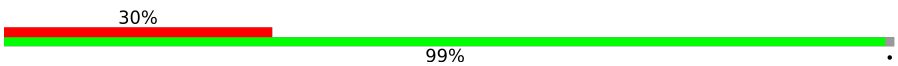
Chain AB:

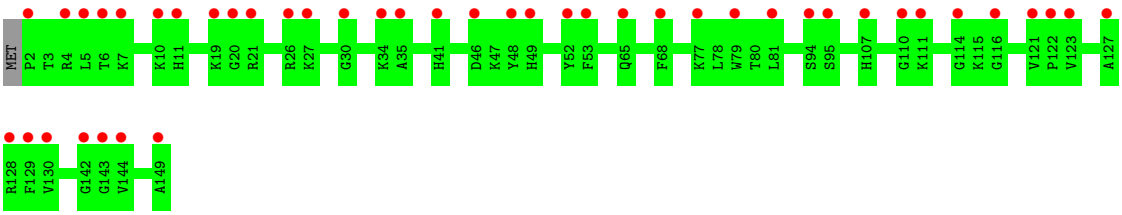




• Molecule 29: 60S ribosomal protein L28

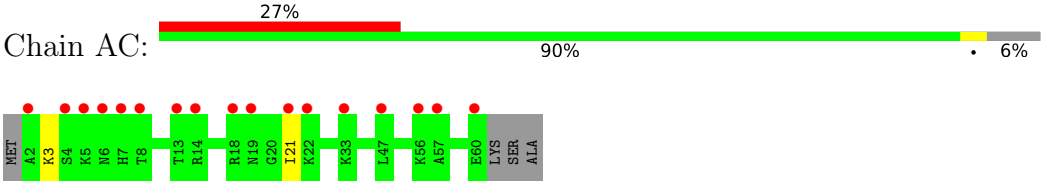
Chain BV:





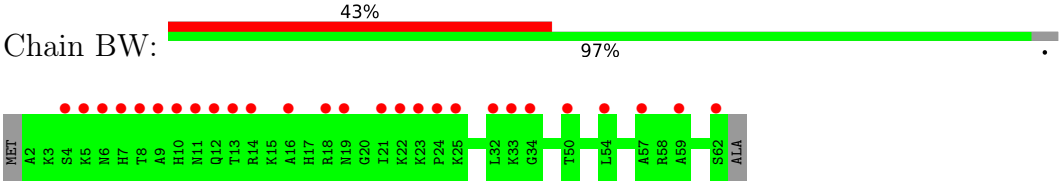
• Molecule 30: 60S ribosomal protein L29

Chain AC:



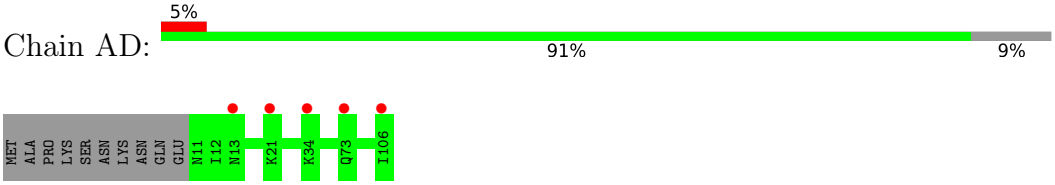
• Molecule 30: 60S ribosomal protein L29

Chain BW:



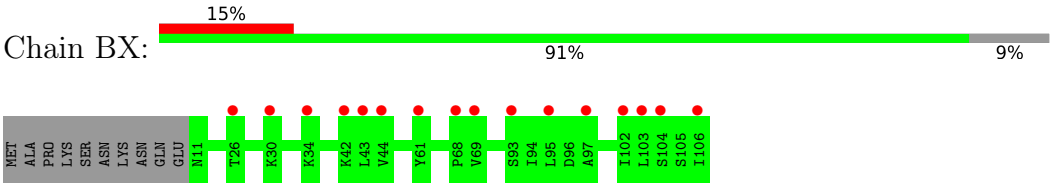
• Molecule 31: 60S ribosomal protein L30

Chain AD:



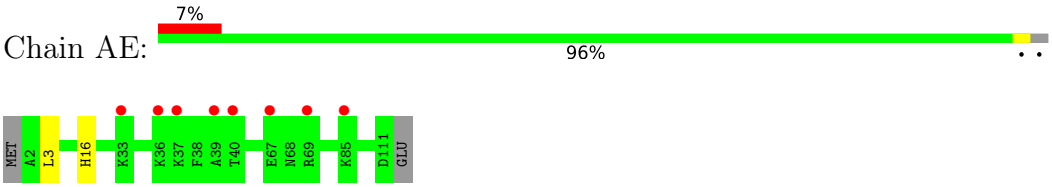
• Molecule 31: 60S ribosomal protein L30

Chain BX:



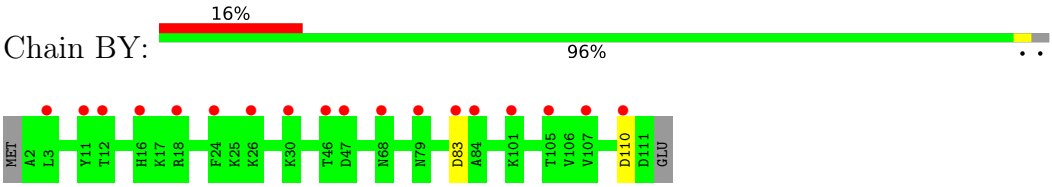
• Molecule 32: 60S ribosomal protein L31-B

Chain AE:



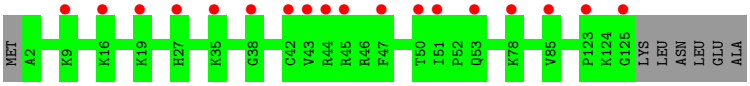
• Molecule 32: 60S ribosomal protein L31-B

Chain BY:



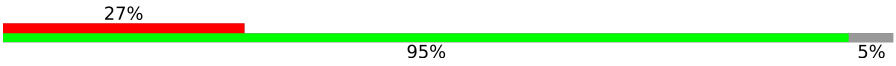
• Molecule 33: 60S ribosomal protein L32

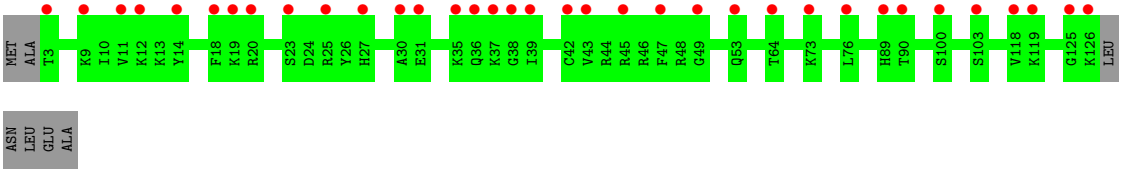
Chain AF:



• Molecule 33: 60S ribosomal protein L32

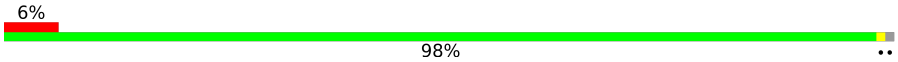
Chain BZ:

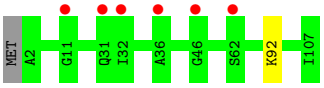




• Molecule 34: 60S ribosomal protein L33-A

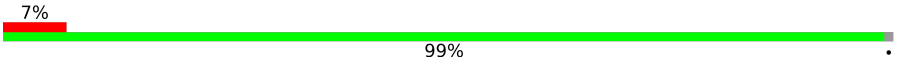
Chain AG:

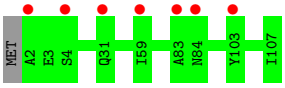




• Molecule 34: 60S ribosomal protein L33-A

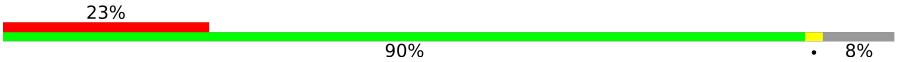
Chain CA:

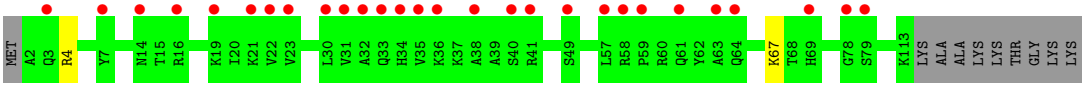




• Molecule 35: 60S ribosomal protein L34-B

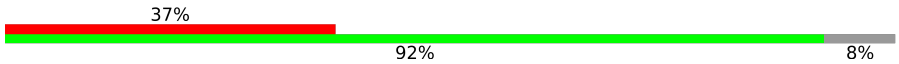
Chain AH:

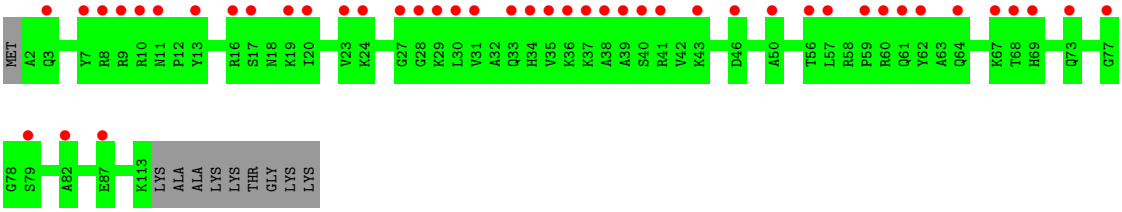




• Molecule 35: 60S ribosomal protein L34-B

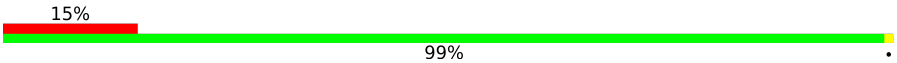
Chain CB:

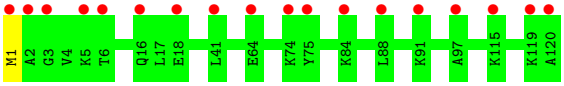




• Molecule 36: Ribosomal protein L29

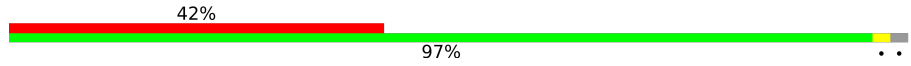
Chain AI:

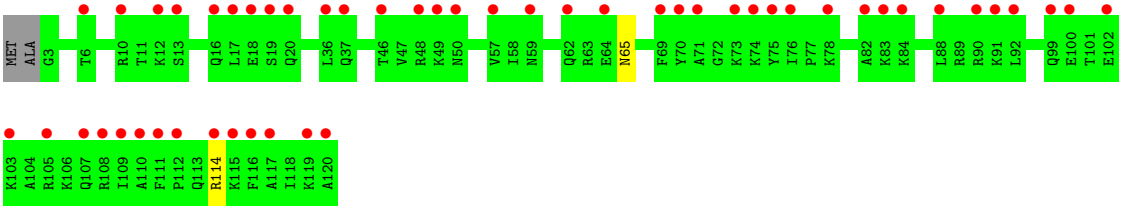




• Molecule 36: Ribosomal protein L29

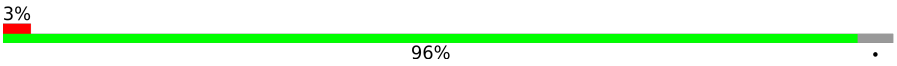
Chain CC:

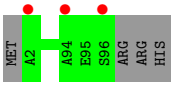




• Molecule 37: 60S ribosomal protein L36

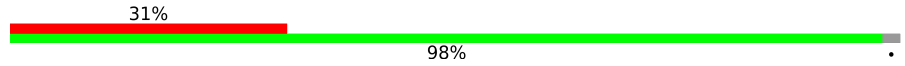
Chain AJ:

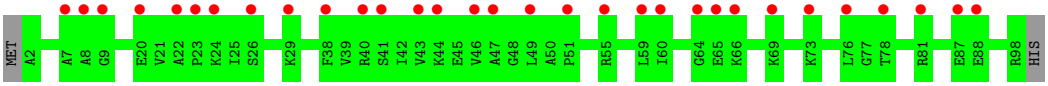




• Molecule 37: 60S ribosomal protein L36

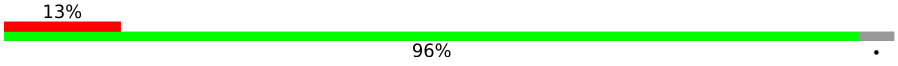
Chain CD:

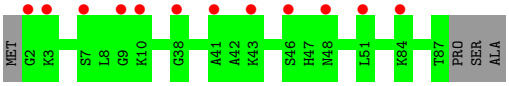




• Molecule 38: 60S ribosomal protein L37-B

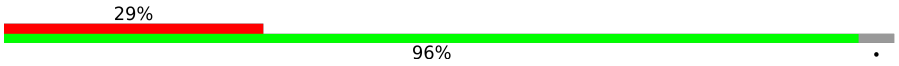
Chain AK:

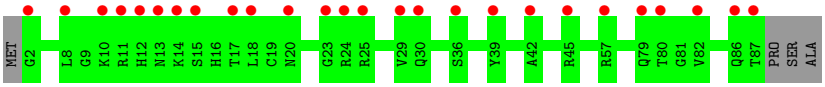




• Molecule 38: 60S ribosomal protein L37-B

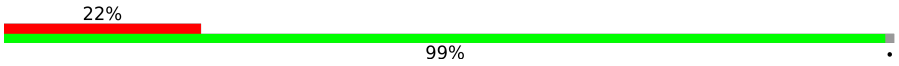
Chain CE:

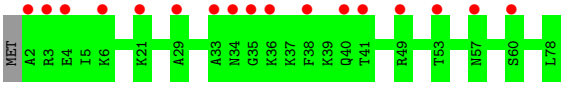




• Molecule 39: 60S ribosomal protein L38

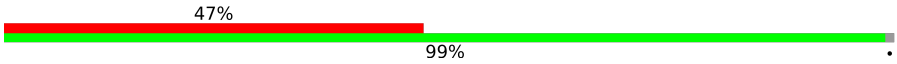
Chain AL:

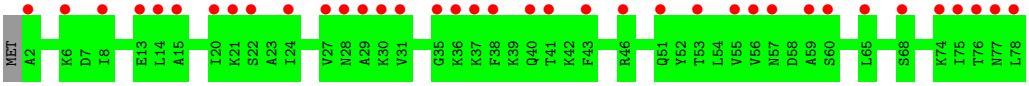




• Molecule 39: 60S ribosomal protein L38

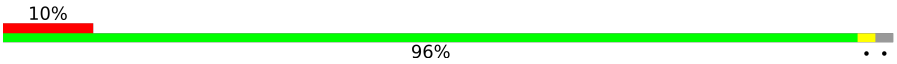
Chain CF:

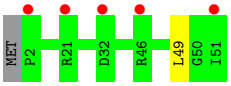




• Molecule 40: 60S ribosomal protein L39

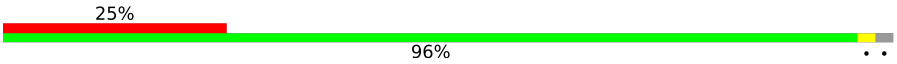
Chain AM:

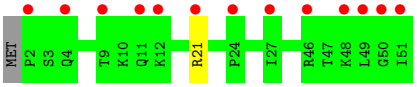




• Molecule 40: 60S ribosomal protein L39

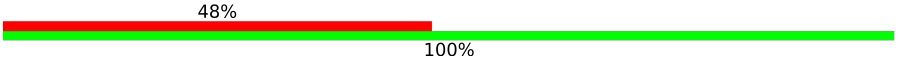
Chain CG:

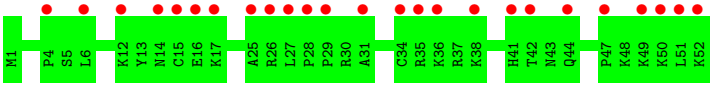




• Molecule 41: 60S ribosomal protein L40-B

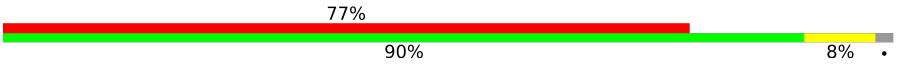
Chain AN:

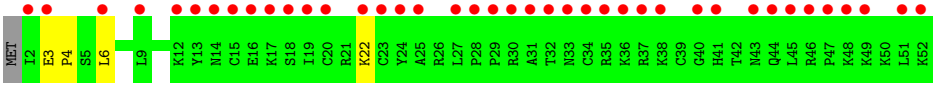




• Molecule 41: 60S ribosomal protein L40-B

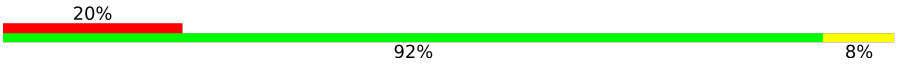
Chain CH:

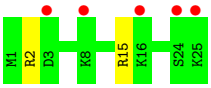




• Molecule 42: 60S ribosomal protein L41

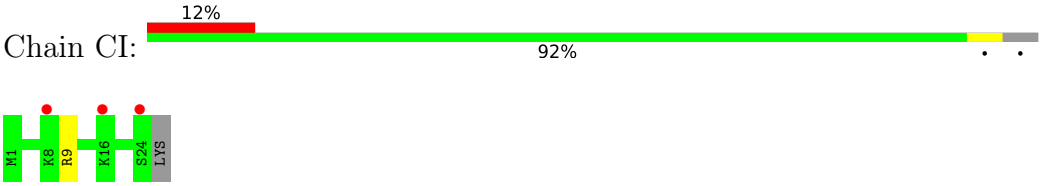
Chain AO:





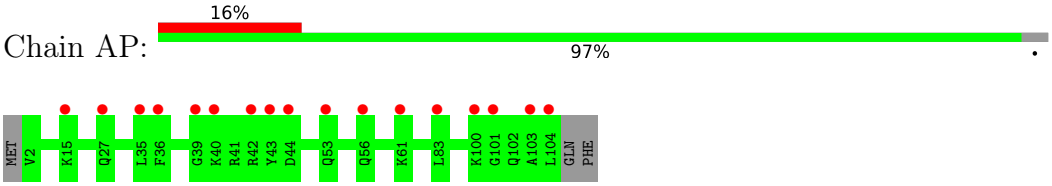
• Molecule 42: 60S ribosomal protein L41

Chain CI:



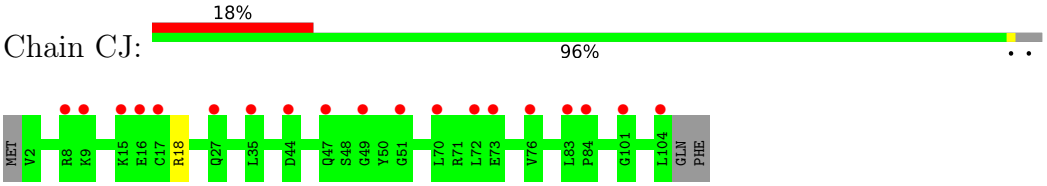
• Molecule 43: 60S ribosomal protein L42-B

Chain AP:



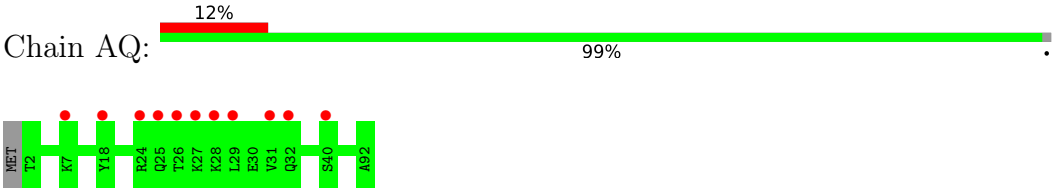
• Molecule 43: 60S ribosomal protein L42-B

Chain CJ:



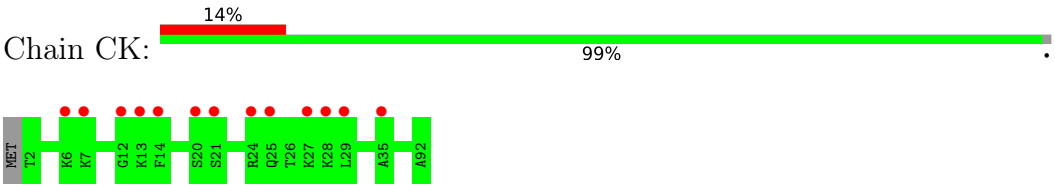
• Molecule 44: 60S ribosomal protein L43-A

Chain AQ:



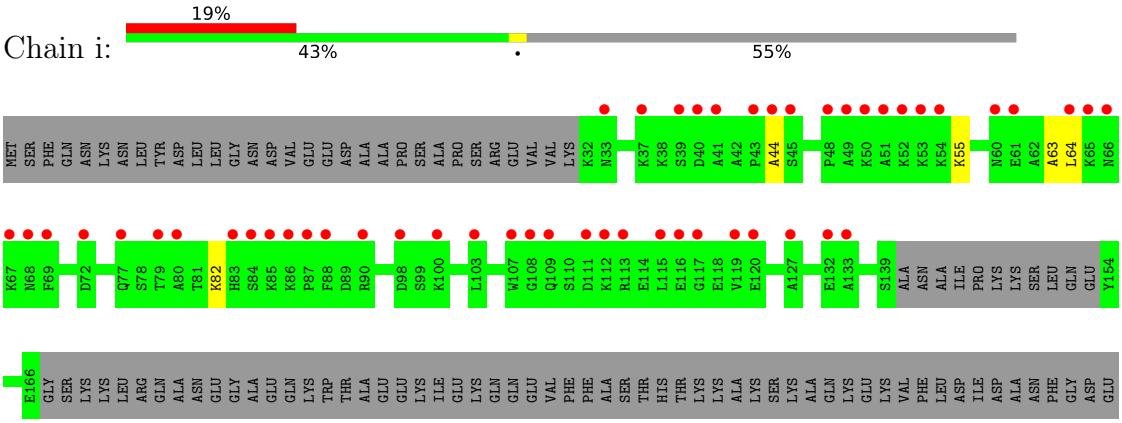
• Molecule 44: 60S ribosomal protein L43-A

Chain CK:



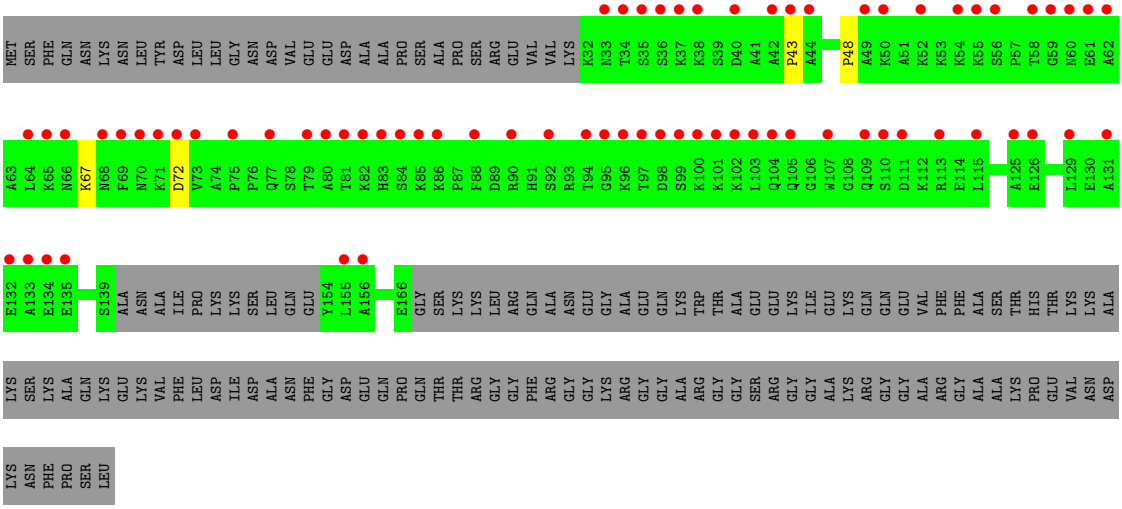
• Molecule 45: 60S ribosomal protein CAALFM_C304810CA

Chain i:



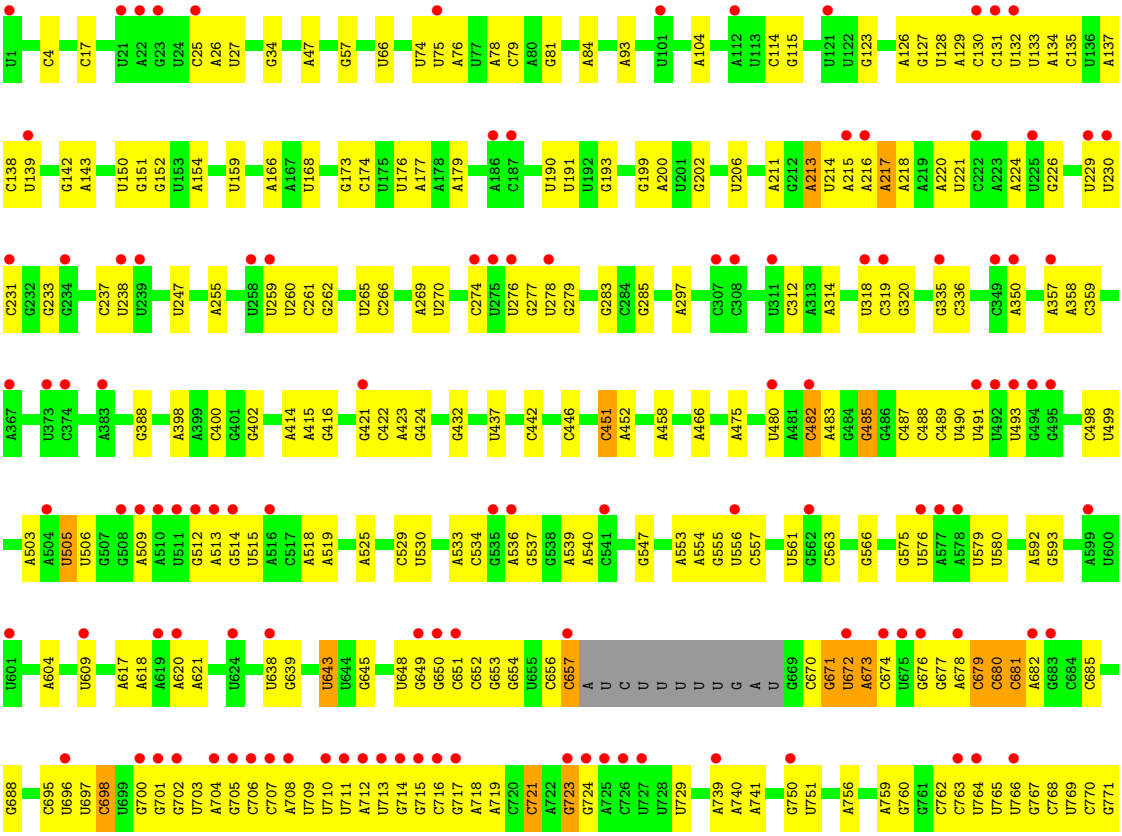
• Molecule 45: 60S ribosomal protein CAALFM_C304810CA

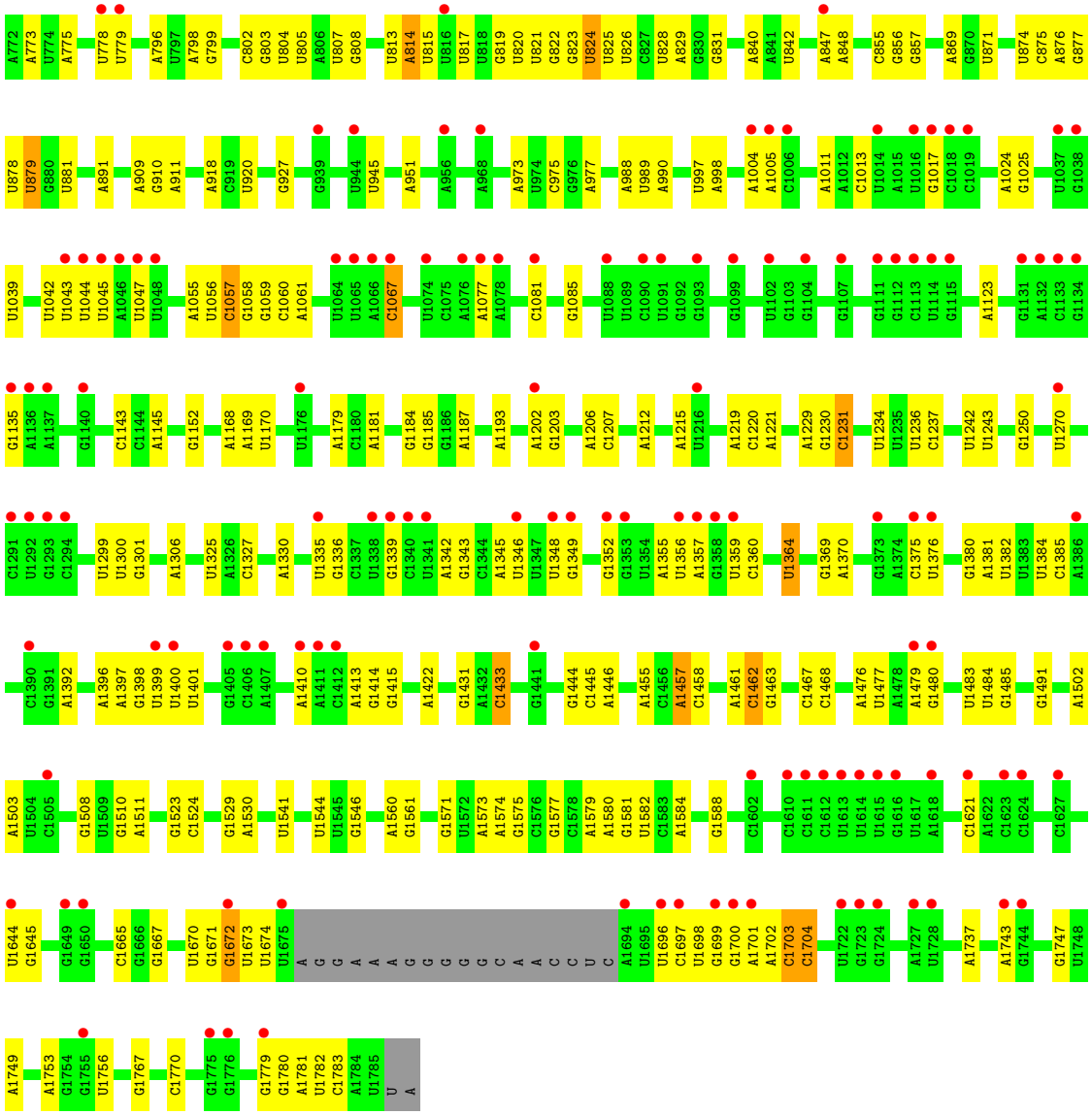
Chain CL:



• Molecule 46: 18S

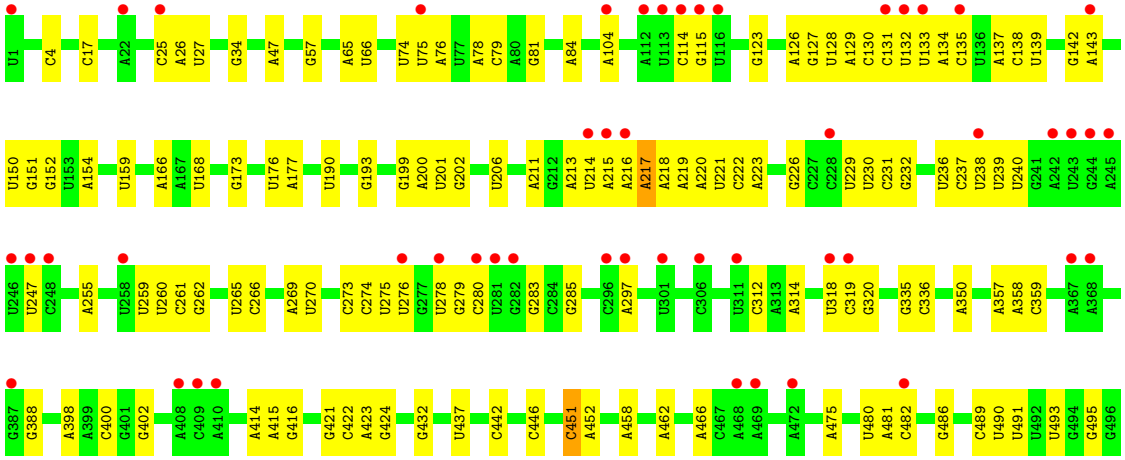
Chain B:

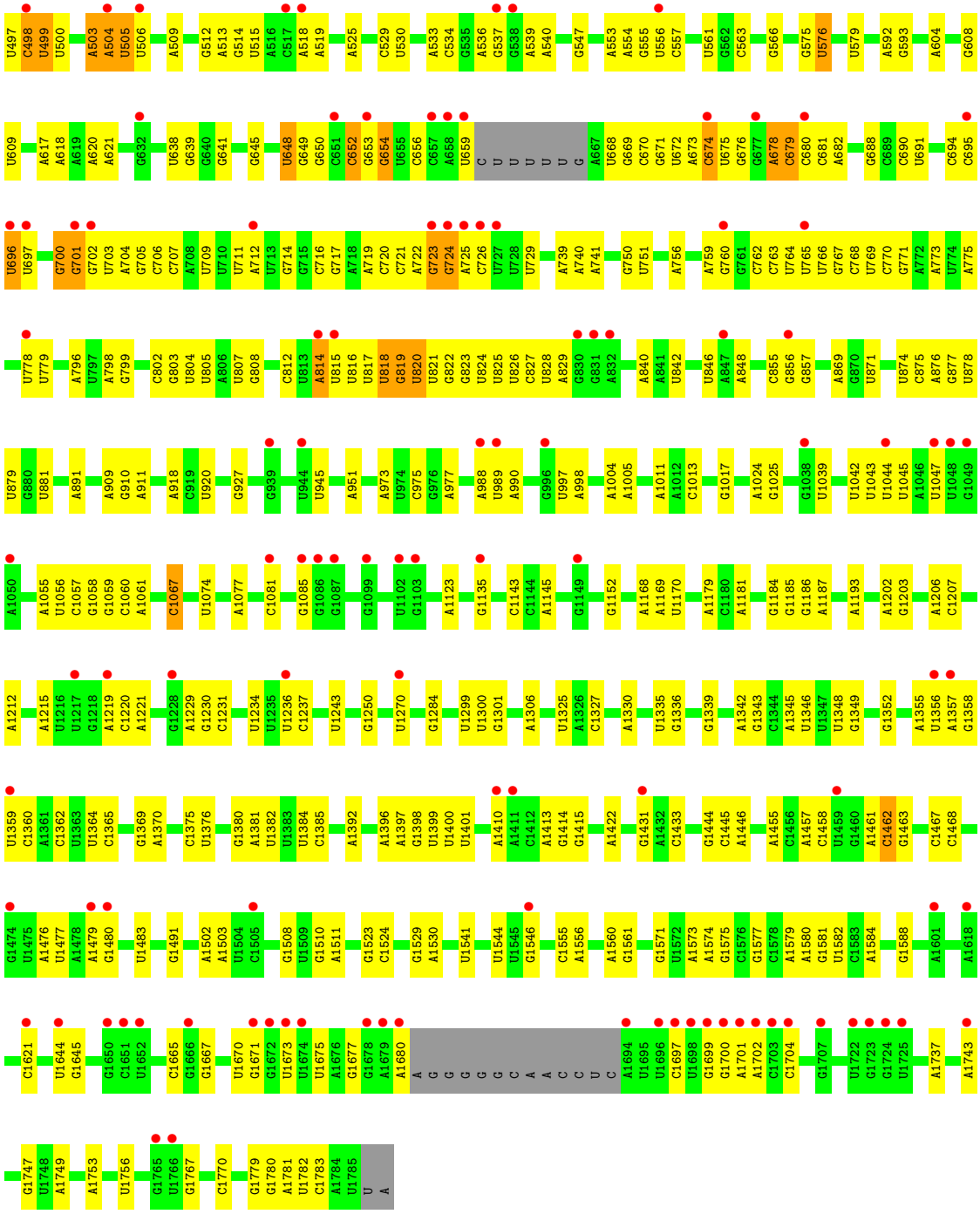




• Molecule 46: 18S

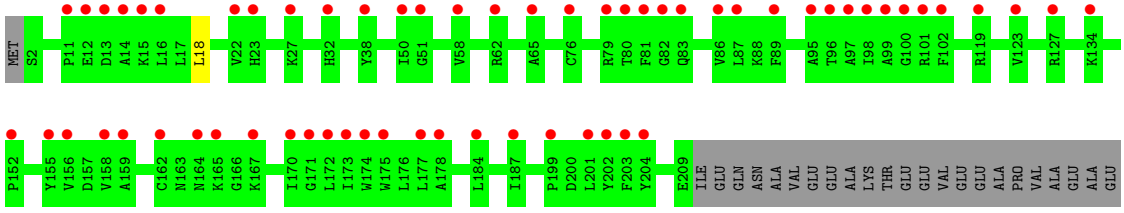
Chain CM:

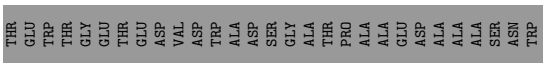




• Molecule 47: 40S ribosomal protein S0

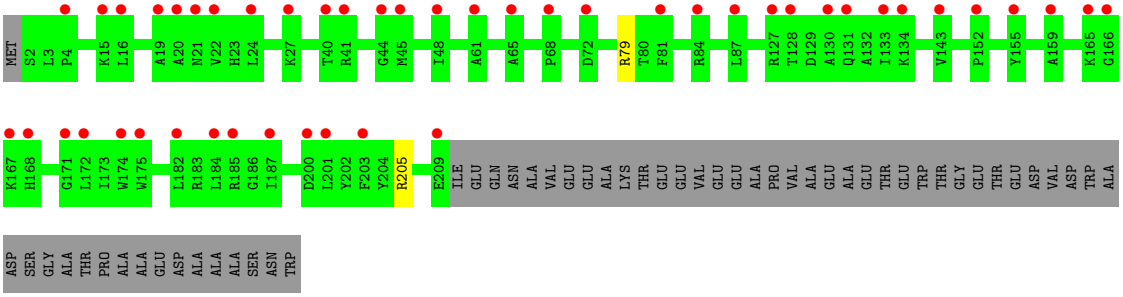
Chain C:





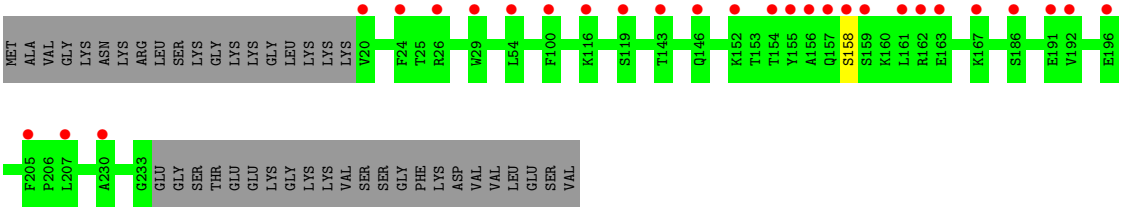
• Molecule 47: 40S ribosomal protein S0

Chain CN:



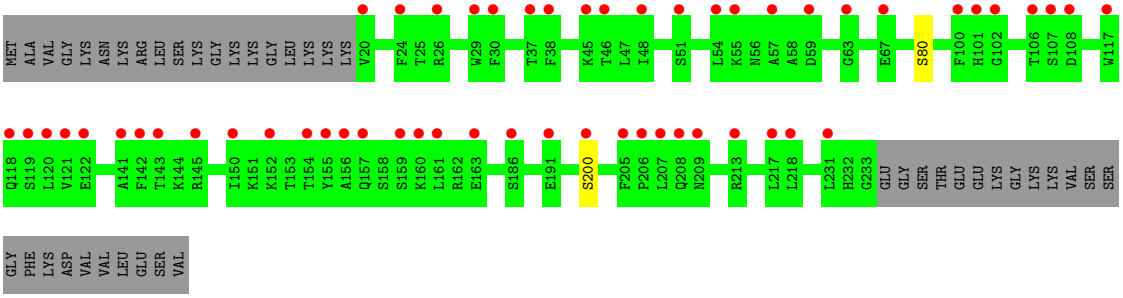
• Molecule 48: 40S ribosomal protein S1

Chain D:



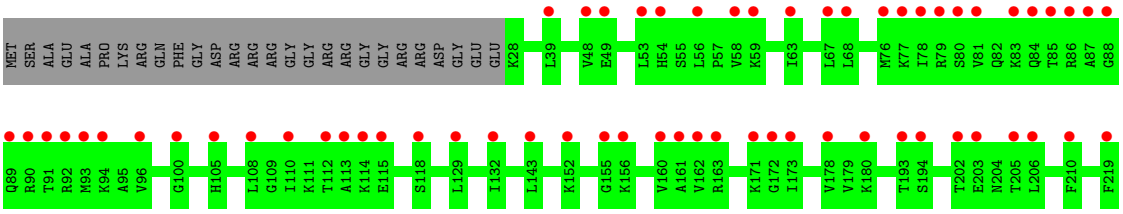
• Molecule 48: 40S ribosomal protein S1

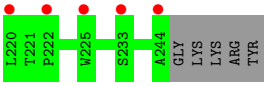
Chain CO:



• Molecule 49: Ribosomal protein S5

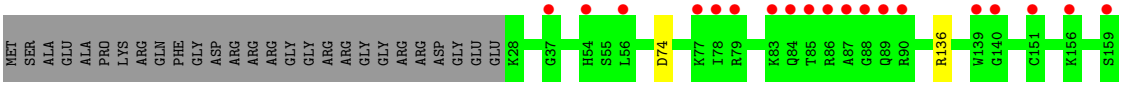
Chain E:

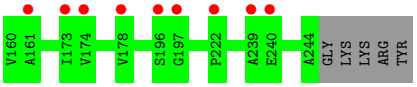




• Molecule 49: Ribosomal protein S5

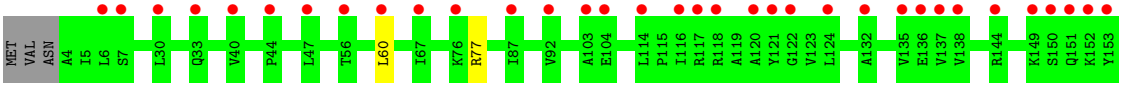
Chain CP:

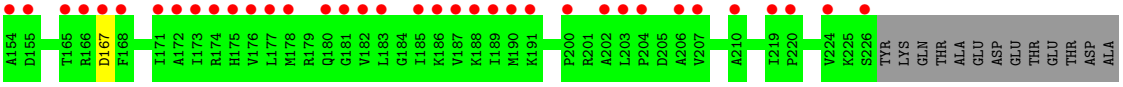


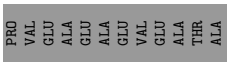


• Molecule 50: Ribosomal protein S3

Chain F:

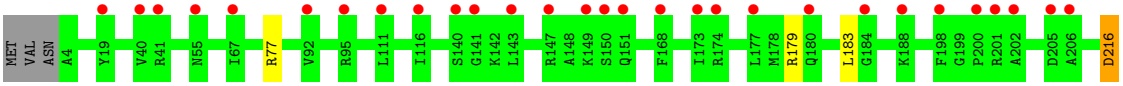


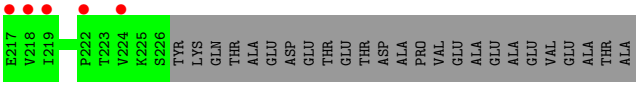




• Molecule 50: Ribosomal protein S3

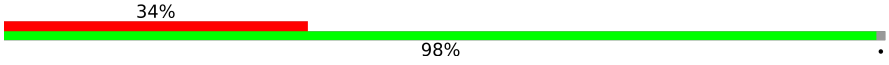
Chain CQ:

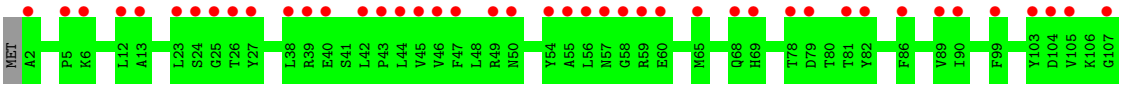


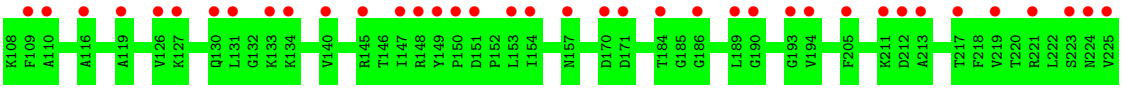


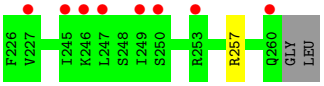
• Molecule 51: 40S ribosomal protein S4

Chain G:



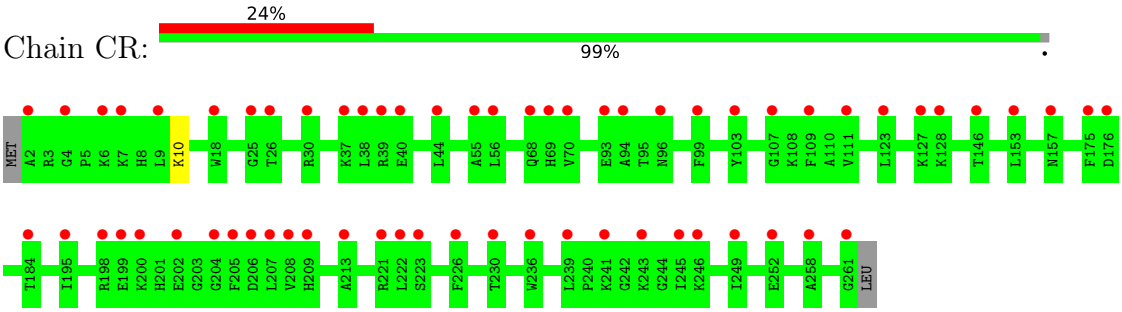






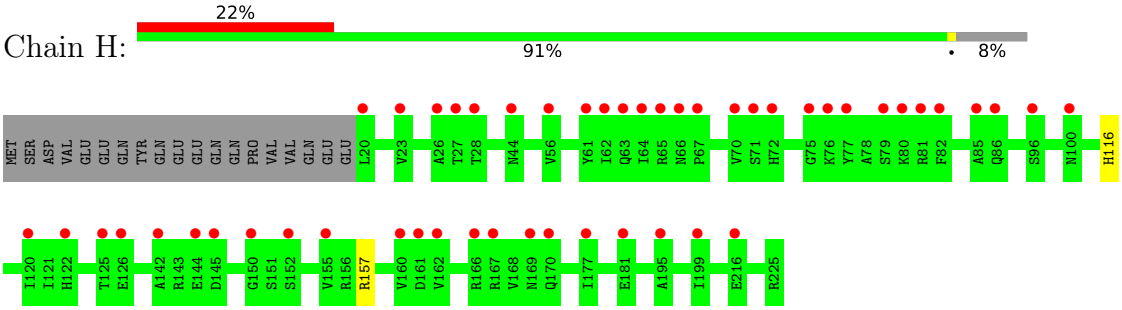
• Molecule 51: 40S ribosomal protein S4

Chain CR:



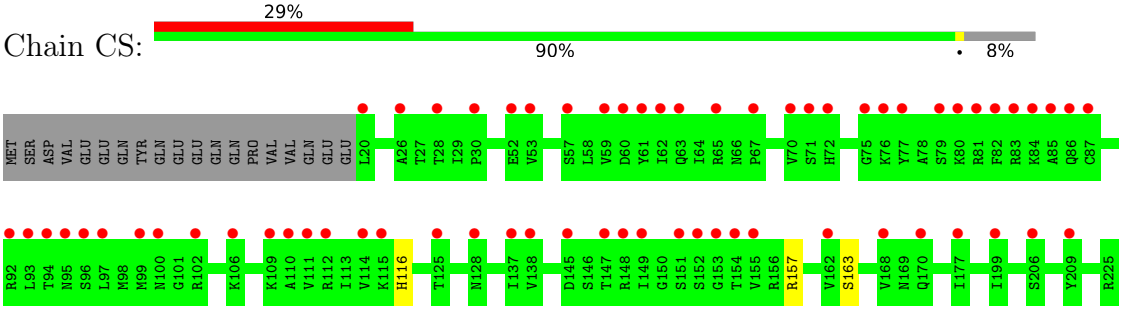
• Molecule 52: Ribosomal protein S7

Chain H:



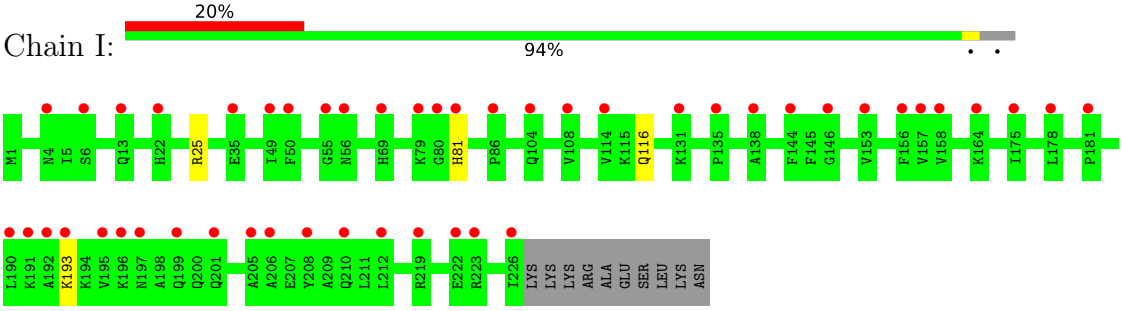
• Molecule 52: Ribosomal protein S7

Chain CS:



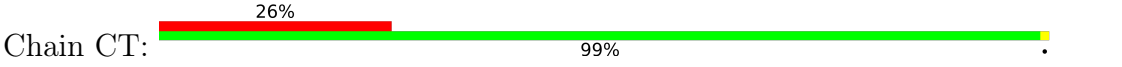
• Molecule 53: 40S ribosomal protein S6

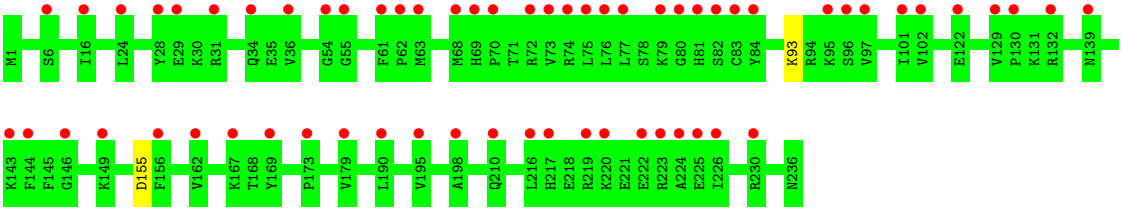
Chain I:



• Molecule 53: 40S ribosomal protein S6

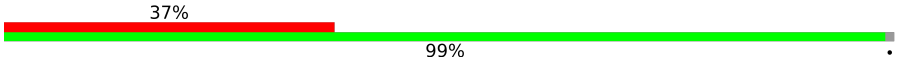
Chain CT:

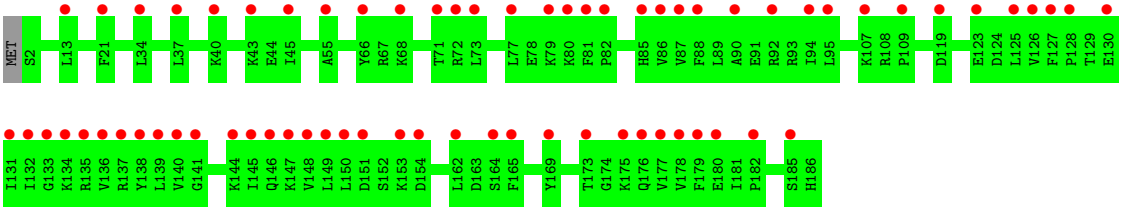




• Molecule 54: 40S ribosomal protein S7

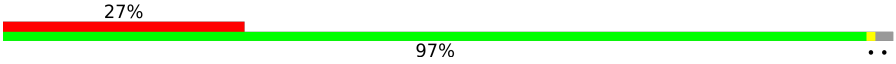
Chain J:

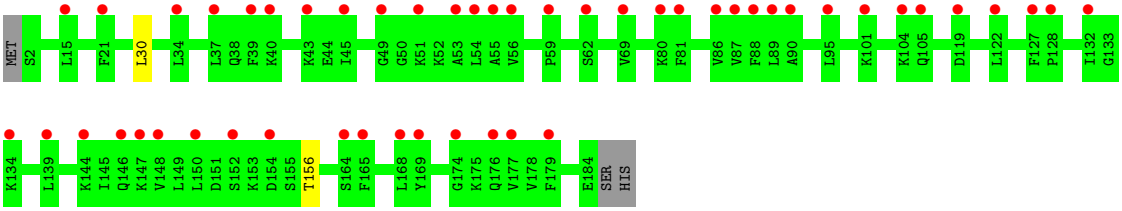




• Molecule 54: 40S ribosomal protein S7

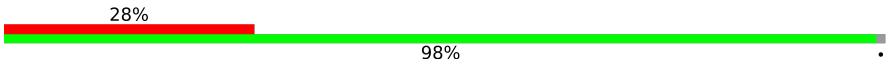
Chain CU:

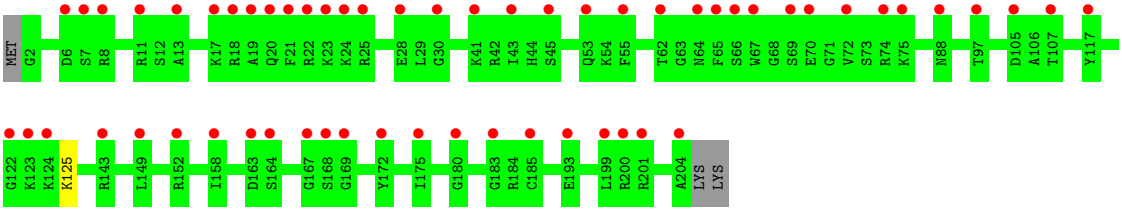




• Molecule 55: 40S ribosomal protein S8

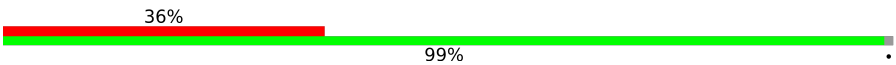
Chain K:

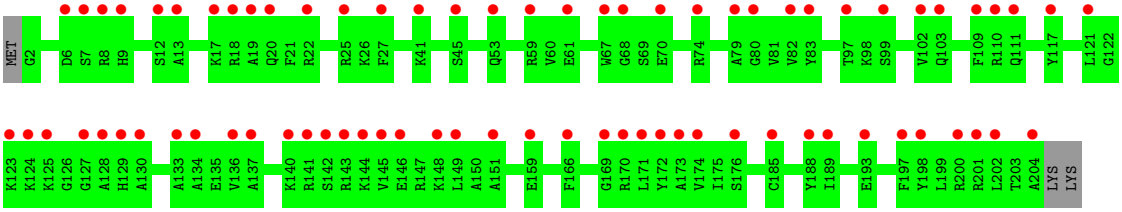




• Molecule 55: 40S ribosomal protein S8

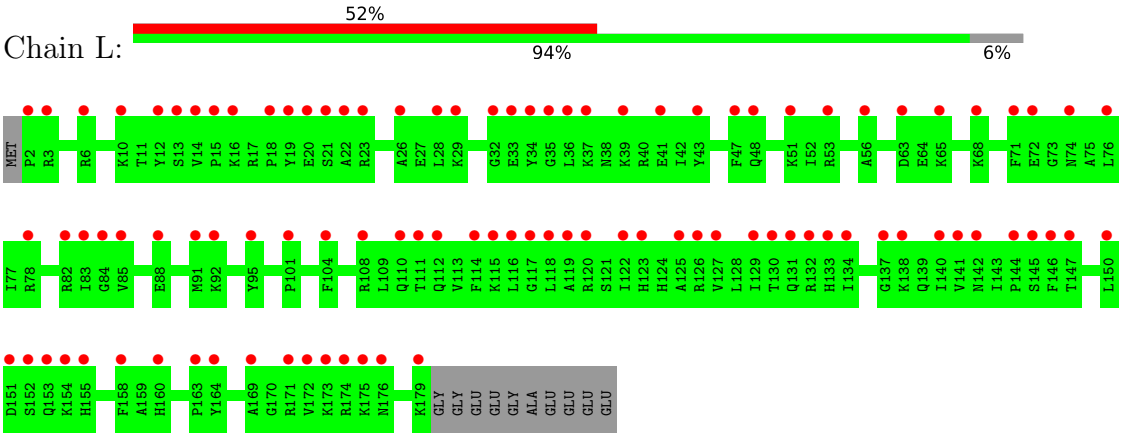
Chain CV:





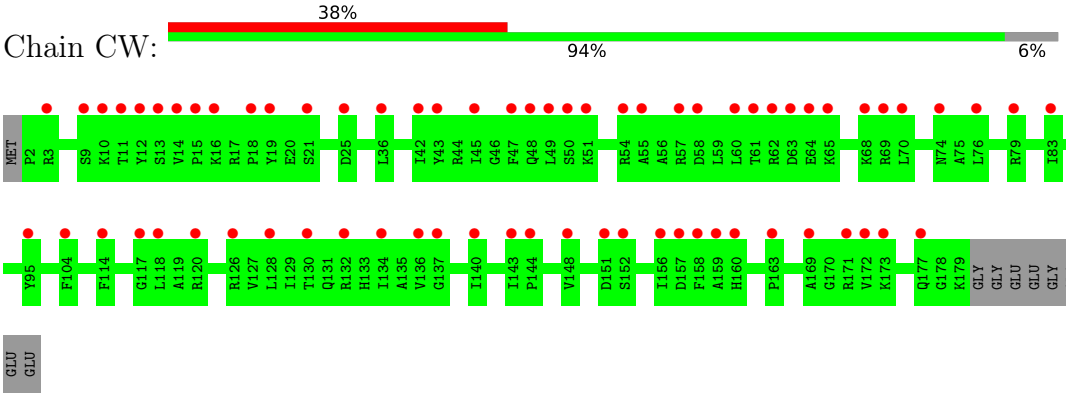
• Molecule 56: Ribosomal protein S4

Chain L:



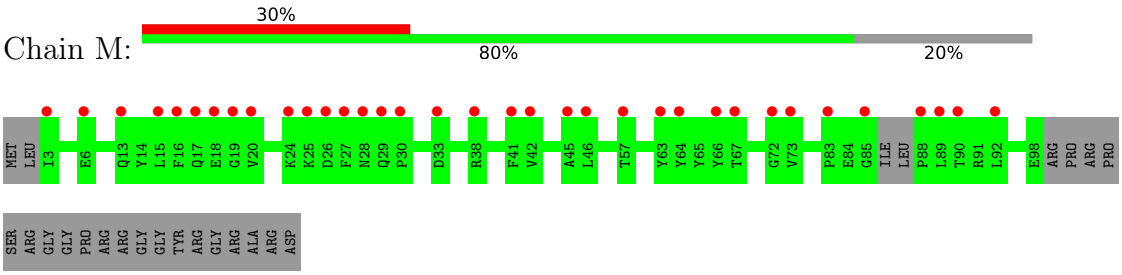
• Molecule 56: Ribosomal protein S4

Chain CW:



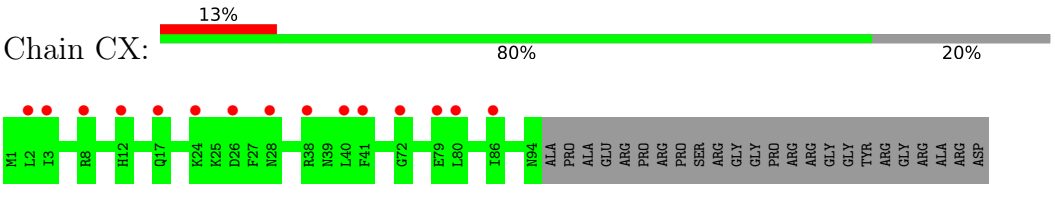
• Molecule 57: 40S ribosomal protein S10-A

Chain M:



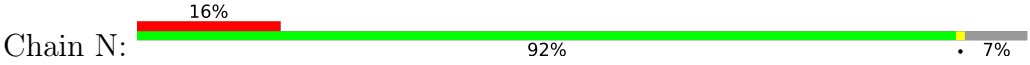
• Molecule 57: 40S ribosomal protein S10-A

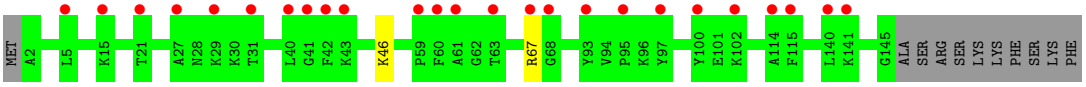
Chain CX:



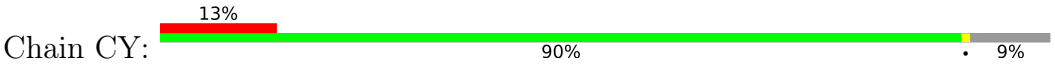
• Molecule 58: 40S ribosomal protein S11A

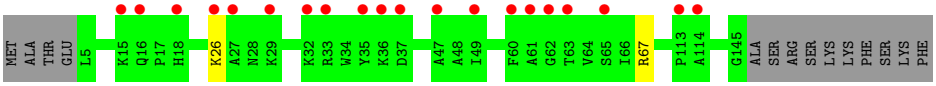
Chain N:



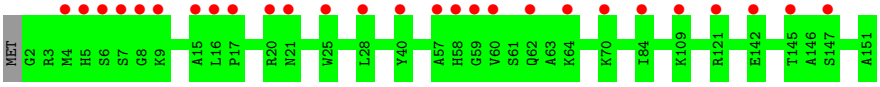


• Molecule 58: 40S ribosomal protein S11A

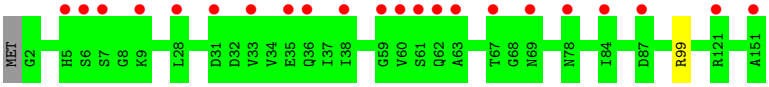




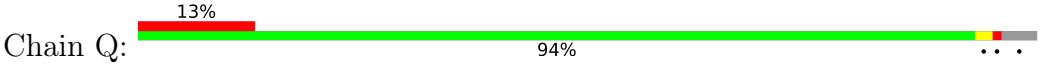
• Molecule 59: 40S ribosomal protein S13

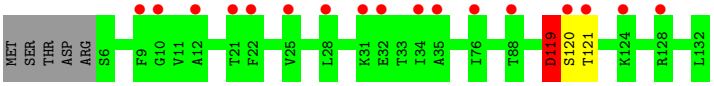


• Molecule 59: 40S ribosomal protein S13

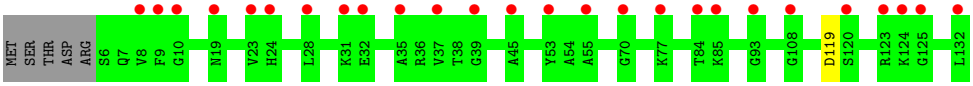


• Molecule 60: 40S ribosomal protein S14-A

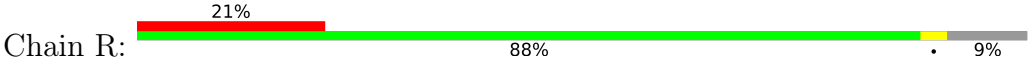


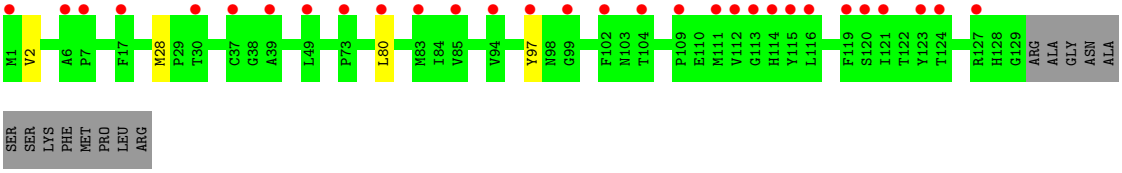


• Molecule 60: 40S ribosomal protein S14-A



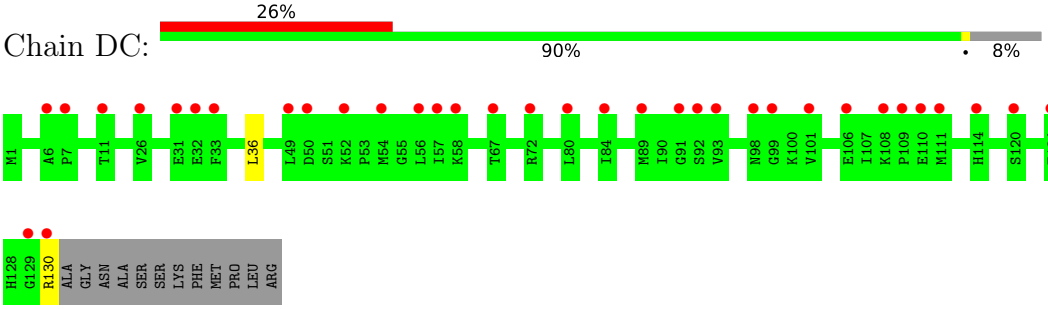
• Molecule 61: 40S ribosomal protein S15





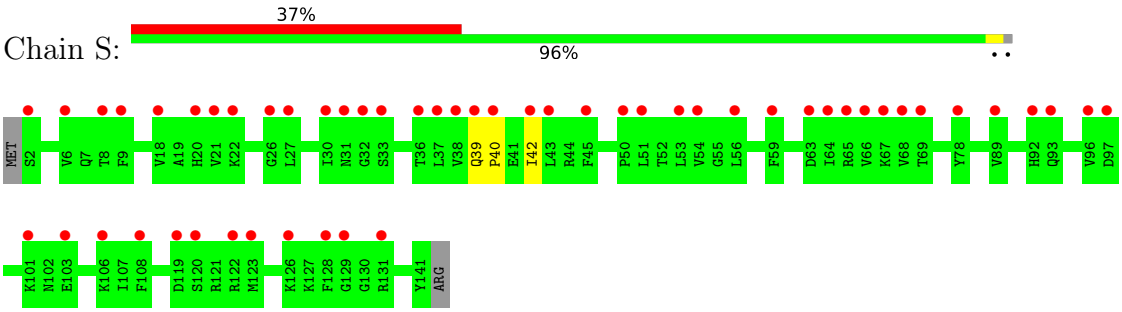
• Molecule 61: 40S ribosomal protein S15

Chain DC:



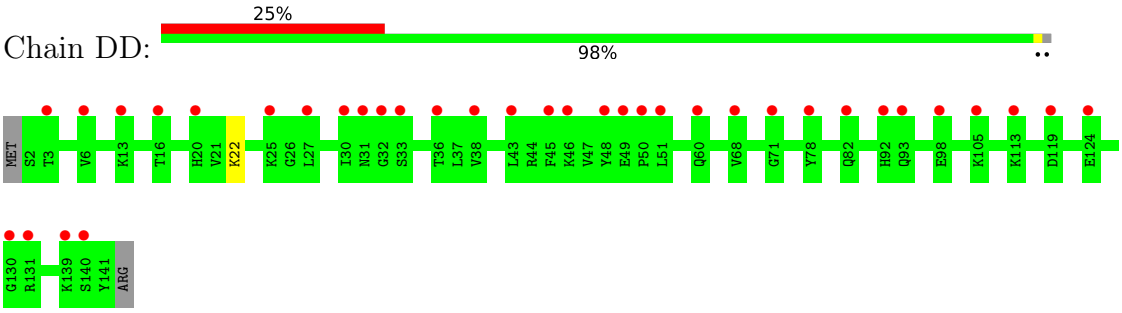
• Molecule 62: 40S ribosomal protein S16

Chain S:



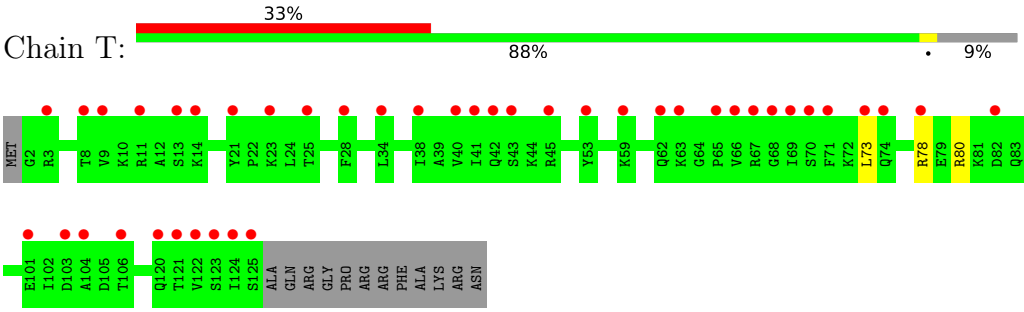
• Molecule 62: 40S ribosomal protein S16

Chain DD:



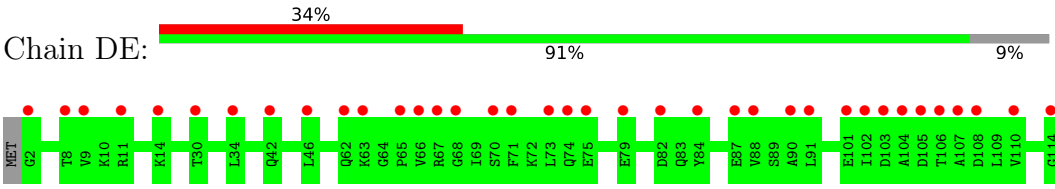
• Molecule 63: 40S ribosomal protein S17-B

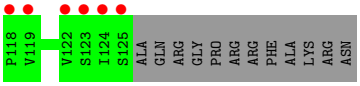
Chain T:



• Molecule 63: 40S ribosomal protein S17-B

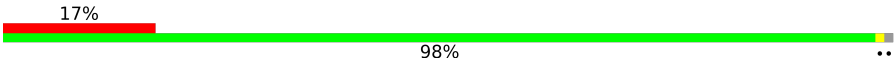
Chain DE:

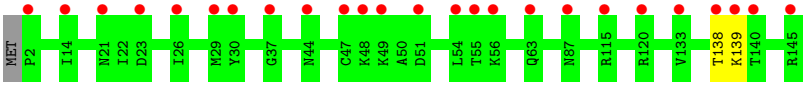




• Molecule 64: 40S ribosomal protein S18-B

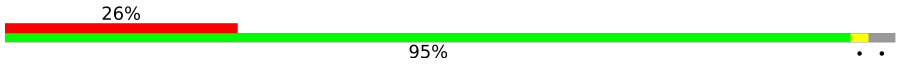
Chain U:

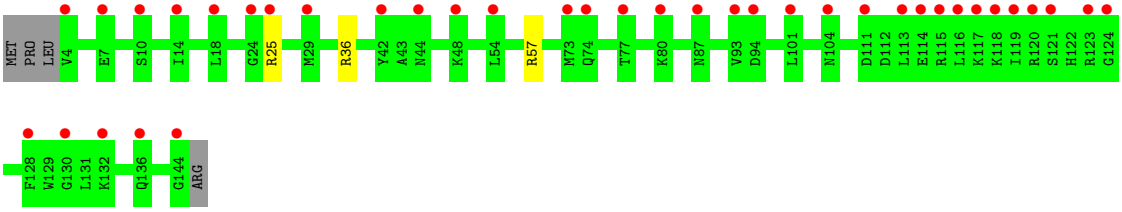




• Molecule 64: 40S ribosomal protein S18-B

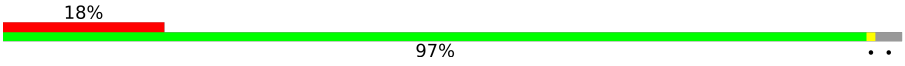
Chain DF:

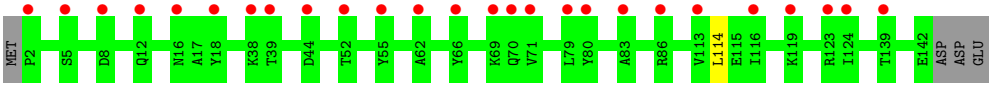




• Molecule 65: 40S ribosomal protein S19-A

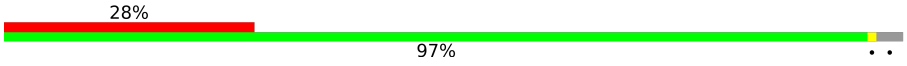
Chain V:

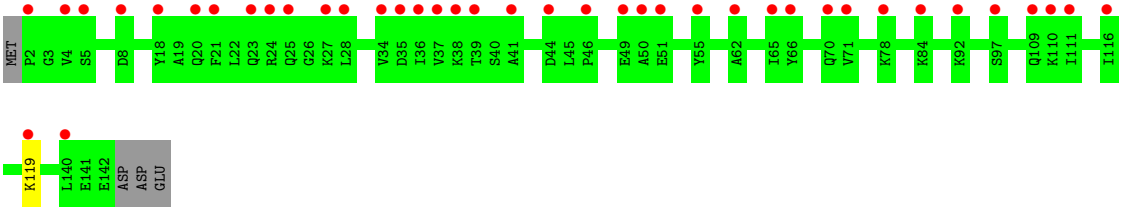




• Molecule 65: 40S ribosomal protein S19-A

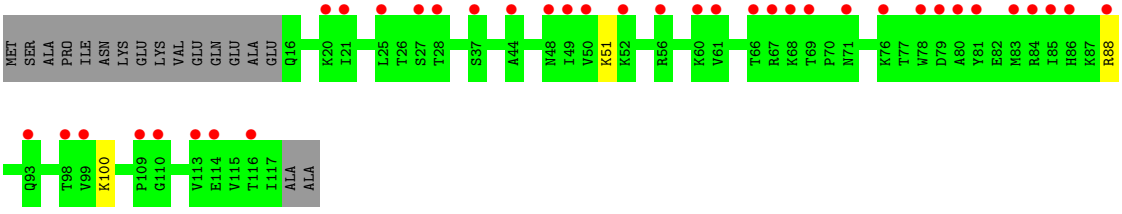
Chain DG:





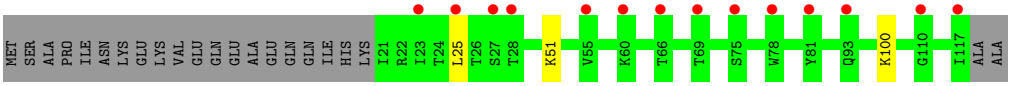
• Molecule 66: Ribosomal protein S10

Chain W:



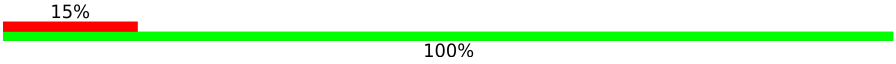
• Molecule 66: Ribosomal protein S10

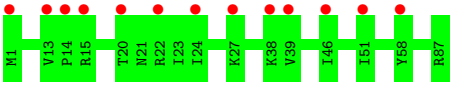
Chain DH:



• Molecule 67: 40S ribosomal protein S21

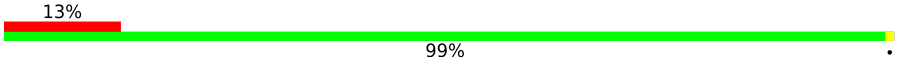
Chain X:

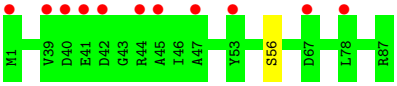




• Molecule 67: 40S ribosomal protein S21

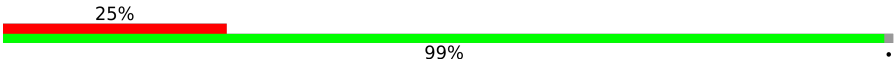
Chain DI:

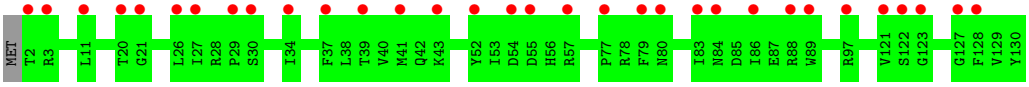




• Molecule 68: 40S ribosomal protein S22-A

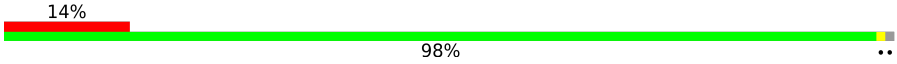
Chain Y:

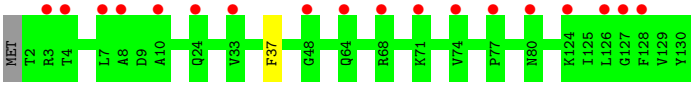




• Molecule 68: 40S ribosomal protein S22-A

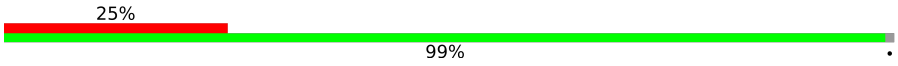
Chain DJ:

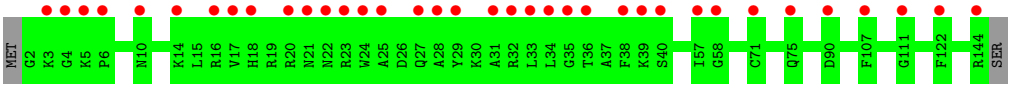




• Molecule 69: Ribosomal protein S23 (S12)

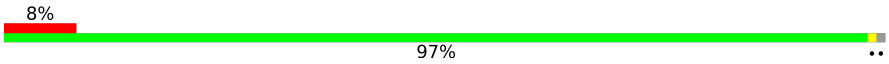
Chain Z:

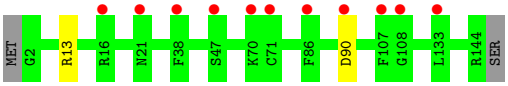




• Molecule 69: Ribosomal protein S23 (S12)

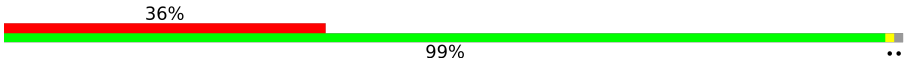
Chain DK:

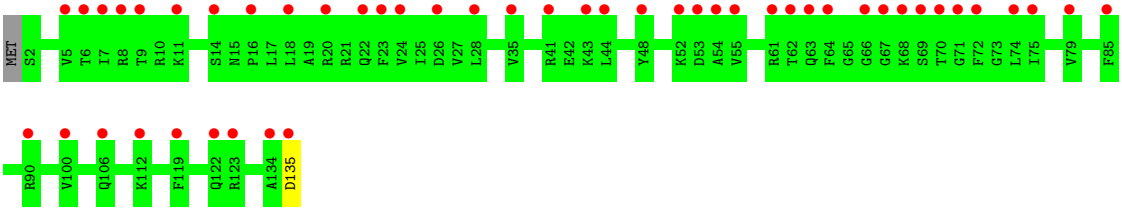




• Molecule 70: 40S ribosomal protein S24

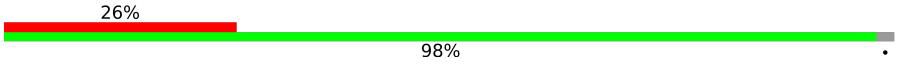
Chain a:

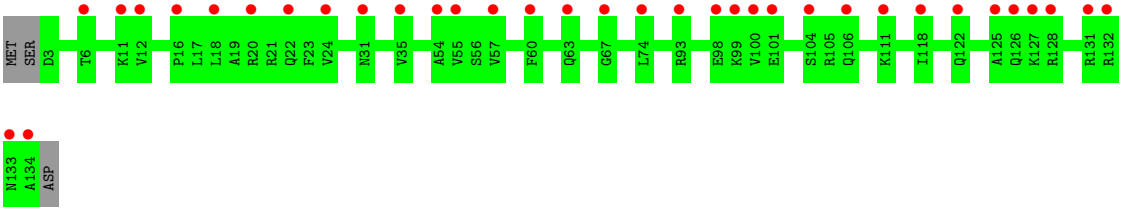




• Molecule 70: 40S ribosomal protein S24

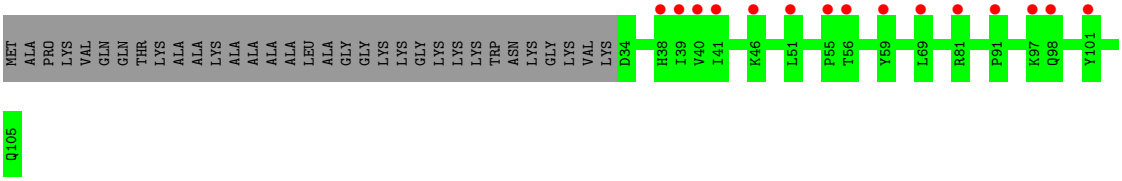
Chain DL:





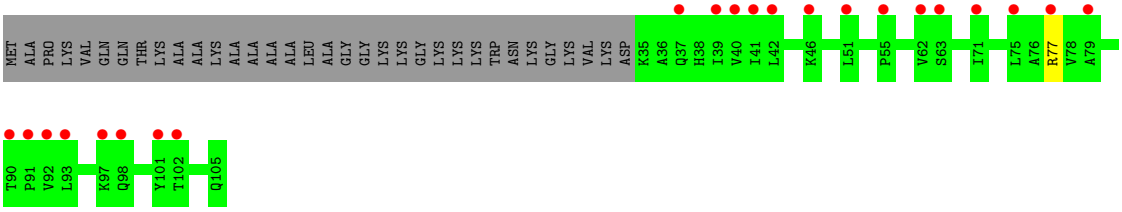
• Molecule 71: 40S ribosomal protein S25

Chain b:



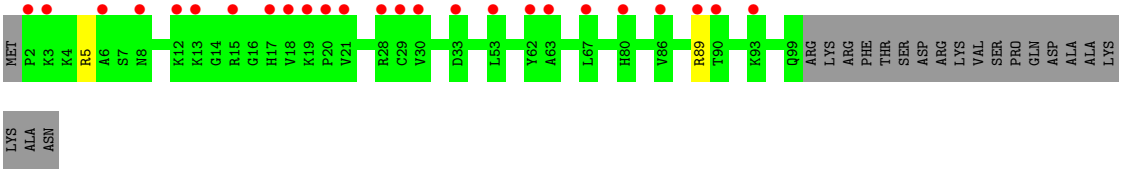
• Molecule 71: 40S ribosomal protein S25

Chain DM:

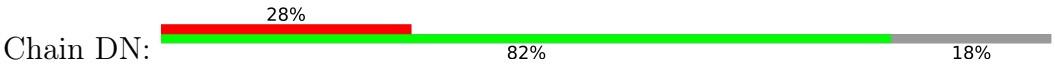


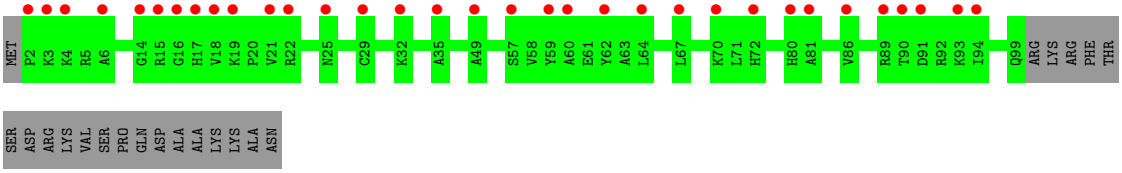
• Molecule 72: 40S ribosomal protein S26

Chain c:

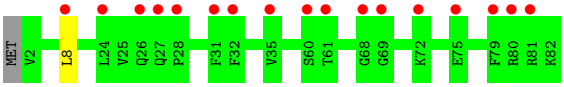


• Molecule 72: 40S ribosomal protein S26

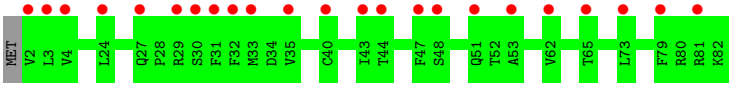




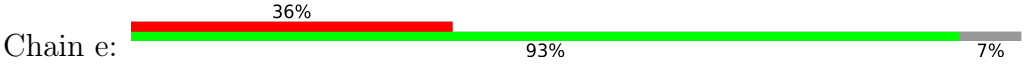
• Molecule 73: 40S ribosomal protein S27

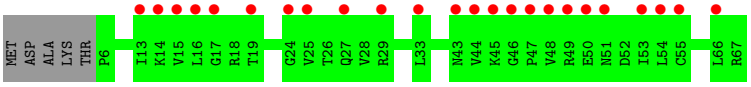


• Molecule 73: 40S ribosomal protein S27

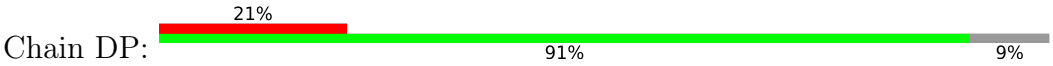


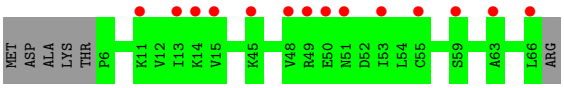
• Molecule 74: 40S ribosomal protein S28-B



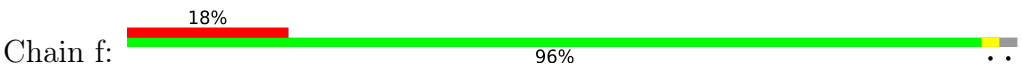


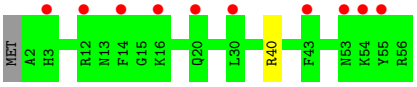
• Molecule 74: 40S ribosomal protein S28-B





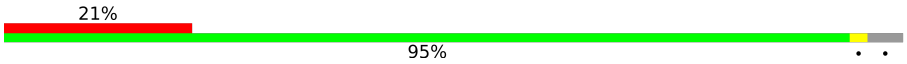
• Molecule 75: 40S ribosomal protein S29A

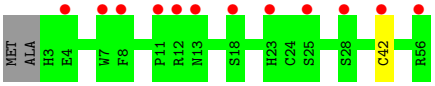




• Molecule 75: 40S ribosomal protein S29A

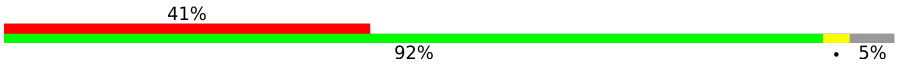
Chain DQ:

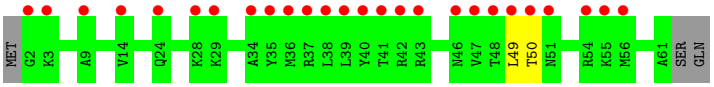




• Molecule 76: 40S ribosomal protein S30

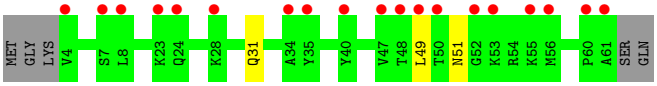
Chain g:





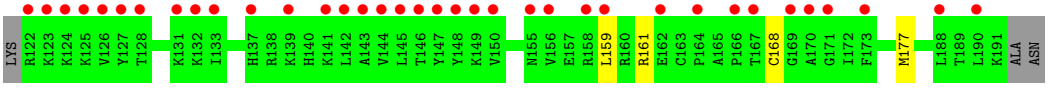
• Molecule 76: 40S ribosomal protein S30

Chain DR:



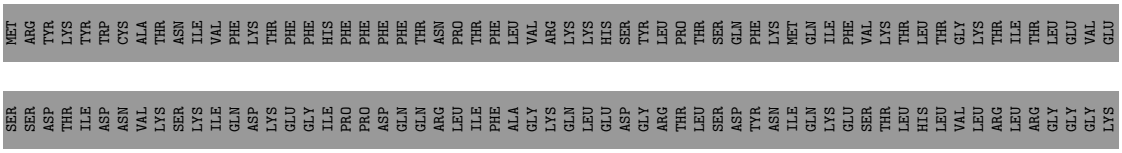
• Molecule 77: Ubiquitin-40S ribosomal protein S31 fusion protein

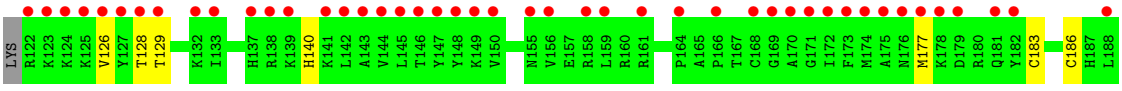
Chain h:



• Molecule 77: Ubiquitin-40S ribosomal protein S31 fusion protein

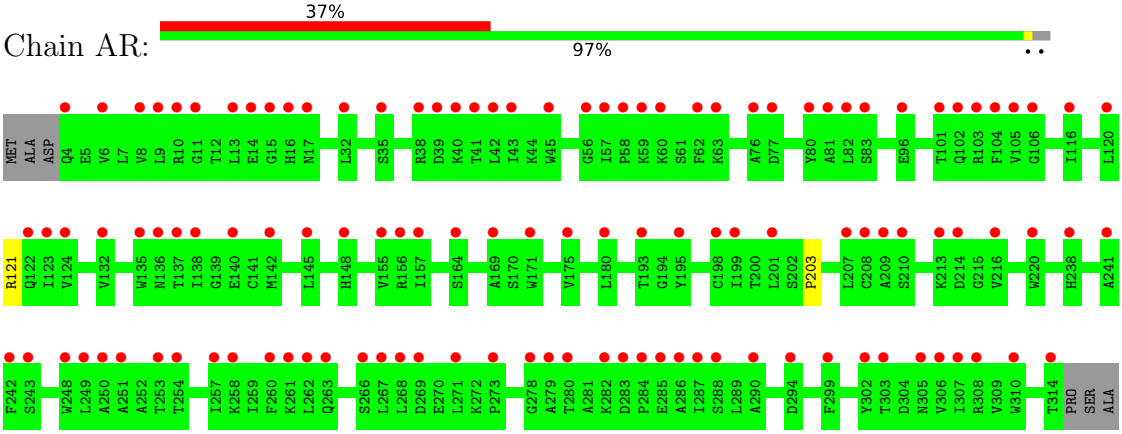
Chain DS:





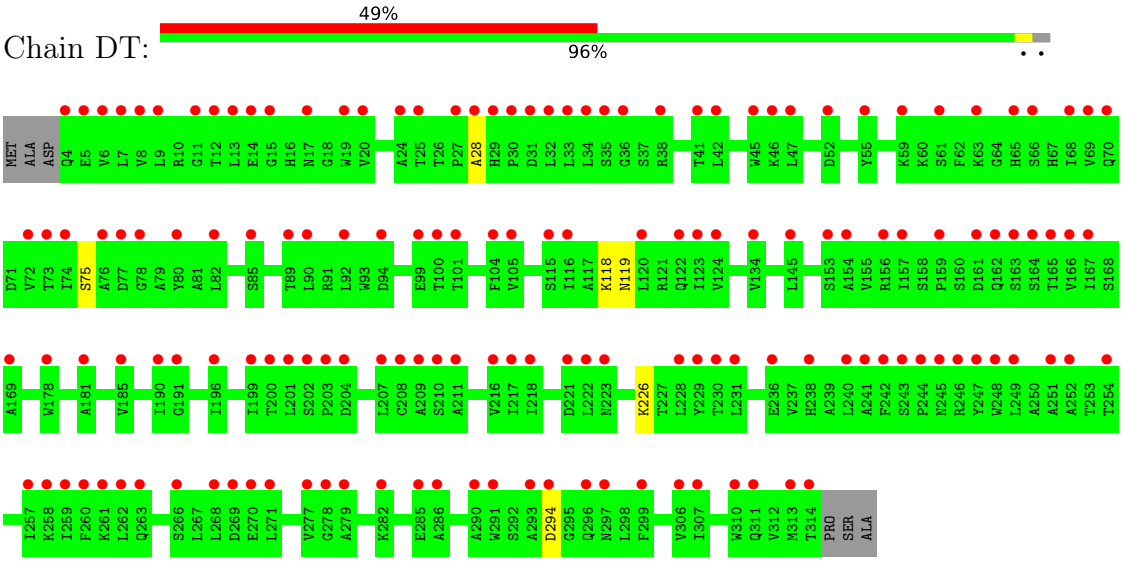
• Molecule 78: Guanine nucleotide-binding protein subunit beta-like protein

Chain AR:



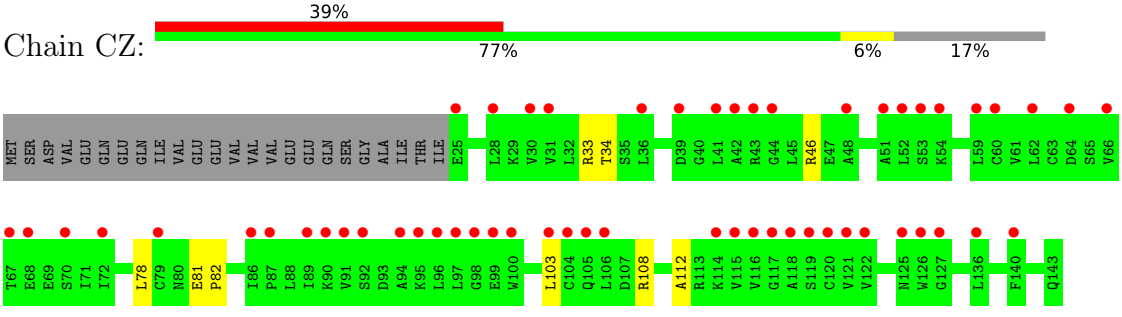
• Molecule 78: Guanine nucleotide-binding protein subunit beta-like protein

Chain DT:



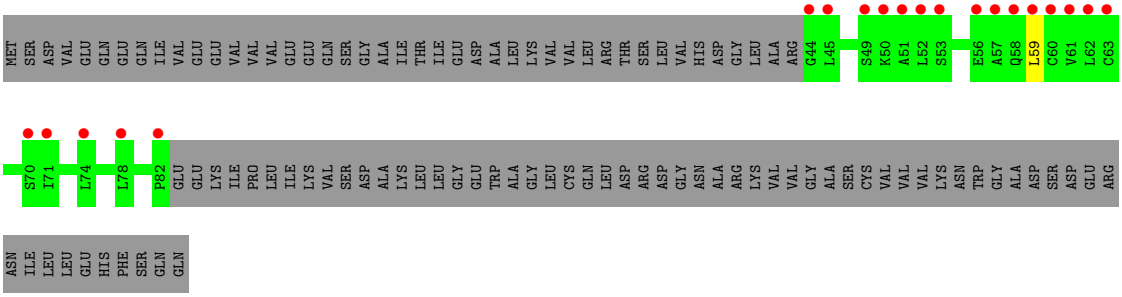
• Molecule 79: 40S ribosomal protein S12

Chain CZ:



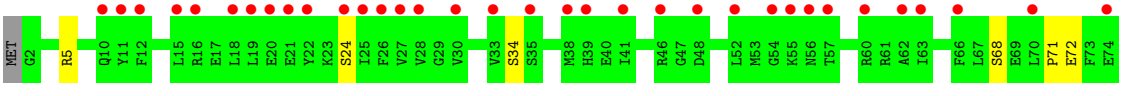
• Molecule 79: 40S ribosomal protein S12

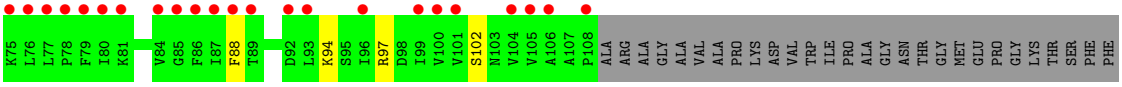
Chain O:

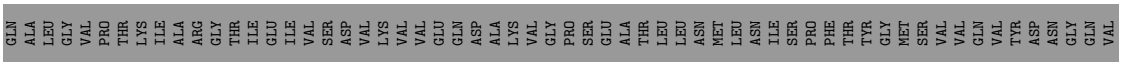


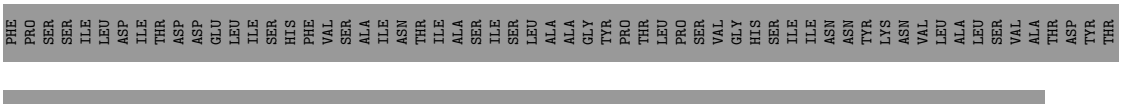
• Molecule 80: 60S acidic ribosomal protein P0

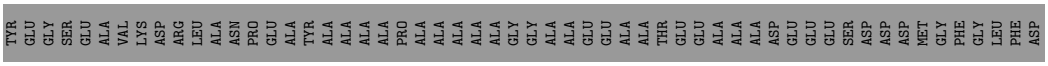
Chain P0:





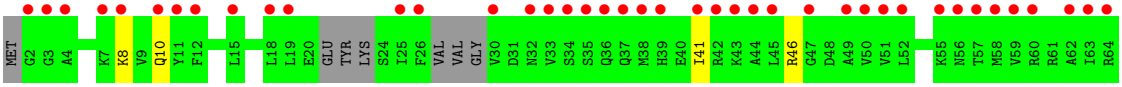


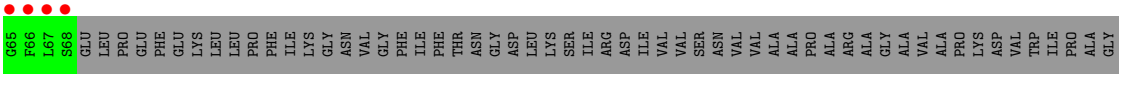


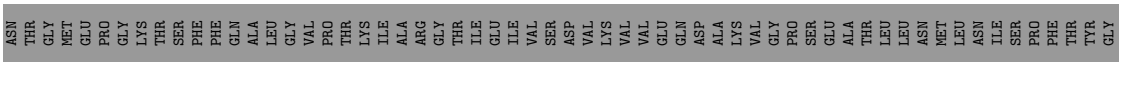


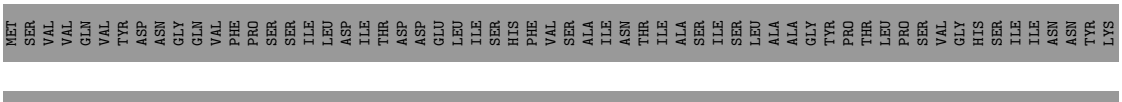
• Molecule 80: 60S acidic ribosomal protein P0

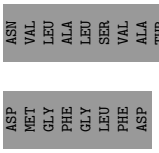
Chain p0:





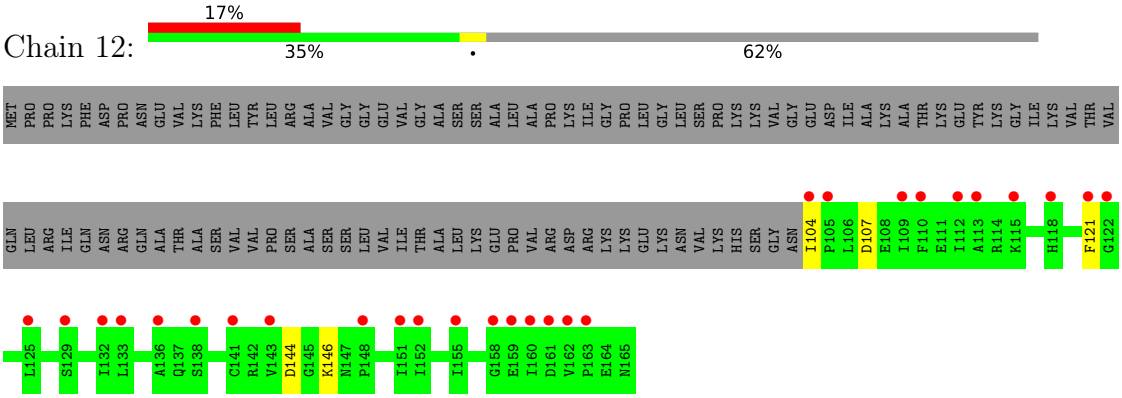






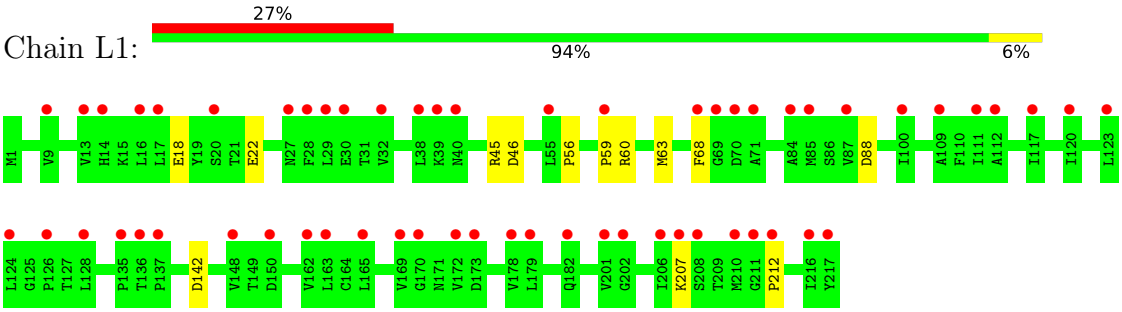
• Molecule 81: 60S ribosomal protein L12-A

Chain 12:



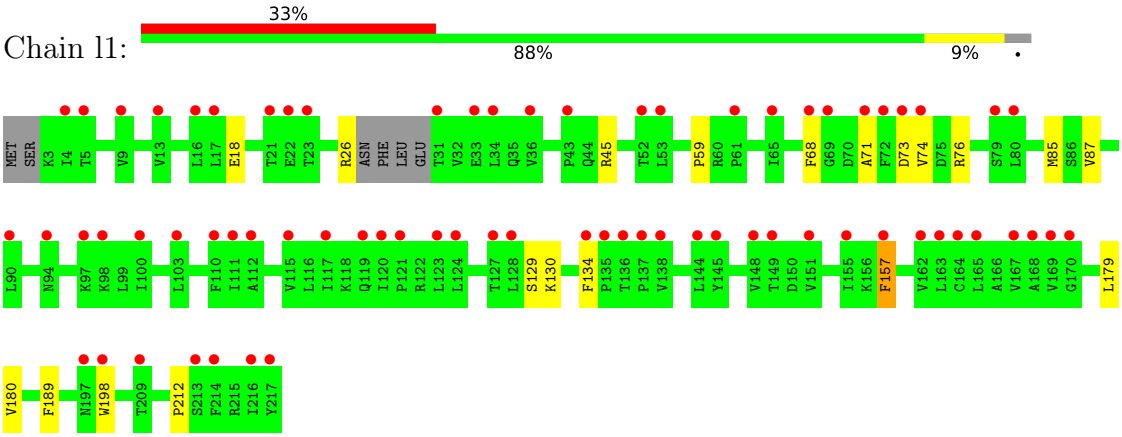
• Molecule 82: Ribosomal protein

Chain L1:



• Molecule 82: Ribosomal protein

Chain l1:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	299.77Å 294.17Å 451.17Å 90.00° 100.05° 90.00°	Depositor
Resolution (Å)	228.18 – 3.20 228.18 – 3.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (228.18-3.20) 91.7 (228.18-3.20)	Depositor EDS
R_{merge}	0.74	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.00 (at 3.19Å)	Xtriage
Refinement program	PHENIX 1.19rc4_4035	Depositor
R, R_{free}	0.246 , 0.281 0.248 , 0.283	Depositor DCC
R_{free} test set	2000 reflections (0.16%)	wwPDB-VP
Wilson B-factor (Å^2)	65.1	Xtriage
Anisotropy	0.105	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.24 , 40.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.42$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.86	EDS
Total number of atoms	408874	wwPDB-VP
Average B, all atoms (Å^2)	94.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.42% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: 3K5, MG, ZN

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	1	0.32	0/76948	0.89	100/119959 (0.1%)
1	AS	0.31	0/77089	0.89	105/120181 (0.1%)
2	3	0.25	0/2884	0.76	0/4492
2	AT	0.26	0/2884	0.77	0/4492
3	4	0.25	0/3724	0.78	1/5798 (0.0%)
3	AU	0.26	0/3746	0.79	2/5832 (0.0%)
4	AW	0.28	0/1922	0.57	0/2581
4	j	0.27	0/1922	0.59	0/2581
5	AX	0.28	0/3145	0.58	0/4231
5	k	0.31	0/3156	0.59	0/4246
6	AY	0.26	0/2799	0.55	0/3777
6	l	0.28	0/2799	0.56	0/3777
7	AZ	0.26	0/2447	0.52	0/3294
7	m	0.27	0/2479	0.54	0/3337
8	BA	0.27	0/1231	0.55	0/1662
8	n	0.28	0/1263	0.56	0/1703
9	BB	0.27	0/1918	0.52	0/2575
9	o	0.29	0/1894	0.53	0/2542
10	BC	0.27	0/1835	0.50	0/2472
10	p	0.27	0/1869	0.51	0/2519
11	BD	0.26	0/1537	0.54	0/2067
11	q	0.28	0/1537	0.58	0/2067
12	BE	0.28	0/1724	0.57	0/2314
12	r	0.27	0/1724	0.57	0/2314
13	BF	0.27	0/1390	0.59	0/1861
13	s	0.27	0/1390	0.58	0/1861
14	BG	0.26	0/1637	0.55	0/2195
14	t	0.27	0/1637	0.57	0/2195
15	BH	0.26	0/1044	0.54	0/1407
15	u	0.27	0/1044	0.56	0/1407
16	BI	0.26	0/1753	0.60	0/2347
16	v	0.29	0/1753	0.62	0/2347

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	BJ	0.28	0/1620	0.53	0/2167
17	w	0.28	0/1620	0.54	0/2167
18	BK	0.26	0/1429	0.58	0/1920
18	x	0.27	0/1410	0.58	0/1895
19	BL	0.27	0/1482	0.59	0/1985
19	y	0.28	0/1482	0.59	0/1985
20	BM	0.26	0/1475	0.60	0/1961
20	z	0.26	0/1475	0.60	0/1961
21	0	0.27	0/1457	0.58	0/1962
21	BN	0.27	0/1457	0.55	0/1962
22	2	0.28	0/1285	0.55	0/1723
22	BO	0.27	0/1285	0.53	0/1723
23	5	0.27	0/846	0.47	0/1140
23	BP	0.27	0/857	0.51	0/1156
24	6	0.28	0/993	0.58	0/1339
24	BQ	0.29	0/993	0.59	0/1339
25	7	0.27	0/958	0.53	0/1267
25	BR	0.26	0/814	0.55	0/1079
26	8	0.27	0/981	0.54	0/1326
26	BS	0.25	0/976	0.52	0/1319
27	9	0.26	0/999	0.54	0/1334
27	BT	0.25	0/999	0.53	0/1334
28	AA	0.27	0/1112	0.49	0/1488
28	BU	0.26	0/1112	0.49	0/1488
29	AB	0.26	0/1199	0.54	0/1607
29	BV	0.26	0/1199	0.54	0/1607
30	AC	0.25	0/483	0.60	0/642
30	BW	0.25	0/498	0.52	0/661
31	AD	0.27	0/738	0.49	0/994
31	BX	0.27	0/738	0.49	0/994
32	AE	0.26	0/907	0.57	1/1219 (0.1%)
32	BY	0.25	0/907	0.56	0/1219
33	AF	0.27	0/1021	0.54	0/1368
33	BZ	0.26	0/1025	0.56	0/1372
34	AG	0.29	0/866	0.54	0/1165
34	CA	0.28	0/866	0.54	0/1165
35	AH	0.26	0/896	0.58	0/1195
35	CB	0.25	0/896	0.58	0/1195
36	AI	0.25	0/1003	0.56	0/1336
36	CC	0.25	0/990	0.55	0/1319
37	AJ	0.26	0/741	0.56	0/984
37	CD	0.26	0/763	0.58	0/1012
38	AK	0.29	0/690	0.64	0/916

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	CE	0.26	0/690	0.60	0/916
39	AL	0.26	0/623	0.51	0/831
39	CF	0.30	0/623	0.57	0/831
40	AM	0.26	0/447	0.58	0/594
40	CG	0.26	0/447	0.64	0/594
41	AN	0.26	0/425	0.59	0/563
41	CH	0.32	0/417	0.65	0/553
42	AO	0.28	0/237	0.73	0/304
42	CI	0.27	0/228	0.71	0/293
43	AP	0.28	0/840	0.57	0/1110
43	CJ	0.29	0/840	0.55	0/1110
44	AQ	0.29	0/705	0.61	0/940
44	CK	0.26	0/705	0.59	0/940
45	CL	0.33	0/942	0.64	0/1258
45	i	0.30	0/942	0.66	0/1258
46	B	0.31	0/41860	0.94	87/65228 (0.1%)
46	CM	0.33	0/42081	0.94	77/65573 (0.1%)
47	C	0.25	0/1666	0.50	0/2273
47	CN	0.26	0/1666	0.51	0/2273
48	CO	0.26	0/1750	0.58	0/2354
48	D	0.25	0/1750	0.54	0/2354
49	CP	0.28	0/1657	0.53	0/2248
49	E	0.26	0/1657	0.51	0/2248
50	CQ	0.28	0/1731	0.63	2/2324 (0.1%)
50	F	0.27	0/1731	0.61	1/2324 (0.0%)
51	CR	0.27	0/2096	0.57	0/2822
51	G	0.26	0/2092	0.56	0/2817
52	CS	0.27	0/1631	0.54	0/2199
52	H	0.25	0/1631	0.56	0/2199
53	CT	0.28	0/1929	0.59	0/2571
53	I	0.26	0/1845	0.56	0/2464
54	CU	0.26	0/1499	0.56	0/2016
54	J	0.26	0/1516	0.55	0/2039
55	CV	0.27	0/1606	0.60	0/2150
55	K	0.27	0/1606	0.60	0/2150
56	CW	0.26	0/1478	0.57	0/1978
56	L	0.26	0/1478	0.56	0/1978
57	CX	0.28	0/809	0.59	0/1092
57	M	0.29	0/803	0.62	0/1083
58	CY	0.28	0/1154	0.57	0/1553
58	N	0.27	0/1175	0.56	0/1582
59	DA	0.26	0/1210	0.54	0/1631
59	P	0.24	0/1210	0.50	0/1631

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
60	DB	0.29	0/953	0.67	0/1279
60	Q	0.31	0/953	0.66	1/1279 (0.1%)
61	DC	0.29	0/1049	0.61	0/1409
61	R	0.31	0/1038	0.62	1/1395 (0.1%)
62	DD	0.25	0/1109	0.54	0/1486
62	S	0.28	0/1109	0.55	0/1486
63	DE	0.28	0/1009	0.63	0/1354
63	T	0.28	0/1009	0.69	1/1354 (0.1%)
64	DF	0.26	0/1178	0.59	0/1579
64	U	0.27	0/1205	0.58	0/1615
65	DG	0.27	0/1120	0.57	0/1508
65	V	0.27	0/1120	0.59	1/1508 (0.1%)
66	DH	0.27	0/772	0.60	1/1045 (0.1%)
66	W	0.25	0/818	0.57	0/1106
67	DI	0.28	0/683	0.59	0/918
67	X	0.26	0/683	0.57	0/918
68	DJ	0.30	0/1049	0.57	0/1412
68	Y	0.25	0/1049	0.55	0/1412
69	DK	0.28	0/1128	0.60	0/1505
69	Z	0.27	0/1128	0.62	0/1505
70	DL	0.27	0/1086	0.58	0/1447
70	a	0.26	0/1100	0.57	0/1466
71	DM	0.26	0/577	0.56	0/778
71	b	0.26	0/585	0.52	0/789
72	DN	0.25	0/791	0.60	0/1060
72	c	0.26	0/791	0.61	0/1060
73	DO	0.27	0/624	0.56	0/843
73	d	0.26	0/624	0.52	0/843
74	DP	0.27	0/478	0.69	0/640
74	e	0.26	0/489	0.69	0/654
75	DQ	0.32	0/461	0.60	0/613
75	f	0.28	0/466	0.58	0/620
76	DR	0.35	0/469	0.70	0/626
76	g	0.29	0/482	0.60	0/642
77	DS	0.32	0/585	0.78	1/778 (0.1%)
77	h	0.29	0/585	0.71	1/778 (0.1%)
78	AR	0.24	0/2451	0.54	0/3337
78	DT	0.28	0/2451	0.60	0/3337
79	CZ	0.30	0/921	0.85	2/1240 (0.2%)
79	O	0.30	0/293	0.68	1/393 (0.3%)
80	P0	0.26	0/857	0.58	0/1148
80	p0	0.35	0/489	0.73	0/645
81	12	0.32	0/478	0.50	0/642

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
82	L1	0.27	0/1737	0.53	0/2335
82	l1	0.28	0/1685	0.57	0/2264
All	All	0.30	0/436812	0.79	386/640723 (0.1%)

There are no bond length outliers.

The worst 5 of 386 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	1576	A	O4'-C1'-N9	13.13	118.70	108.20
46	B	724	G	N3-C4-C5	-10.96	123.12	128.60
1	1	1576	A	C4-N9-C1'	9.66	143.69	126.30
79	CZ	81	GLU	C-N-CD	-9.52	99.65	120.60
46	CM	656	C	N1-C2-O2	9.30	124.48	118.90

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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	
4	AW	247/254 (97%)	239 (97%)	8 (3%)	0	100	100
4	j	247/254 (97%)	239 (97%)	8 (3%)	0	100	100
5	AX	384/389 (99%)	371 (97%)	13 (3%)	0	100	100
5	k	385/389 (99%)	372 (97%)	13 (3%)	0	100	100
6	AY	359/363 (99%)	349 (97%)	10 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	l	359/363 (99%)	348 (97%)	11 (3%)	0	100	100
7	AZ	290/298 (97%)	278 (96%)	12 (4%)	0	100	100
7	m	294/298 (99%)	282 (96%)	12 (4%)	0	100	100
8	BA	149/176 (85%)	147 (99%)	2 (1%)	0	100	100
8	n	153/176 (87%)	150 (98%)	3 (2%)	0	100	100
9	BB	232/241 (96%)	226 (97%)	5 (2%)	1 (0%)	30	64
9	o	229/241 (95%)	222 (97%)	6 (3%)	1 (0%)	30	64
10	BC	231/262 (88%)	219 (95%)	10 (4%)	2 (1%)	14	49
10	p	236/262 (90%)	227 (96%)	8 (3%)	1 (0%)	30	64
11	BD	188/191 (98%)	181 (96%)	7 (4%)	0	100	100
11	q	188/191 (98%)	184 (98%)	4 (2%)	0	100	100
12	BE	204/220 (93%)	199 (98%)	5 (2%)	0	100	100
12	r	204/220 (93%)	201 (98%)	3 (2%)	0	100	100
13	BF	169/174 (97%)	162 (96%)	7 (4%)	0	100	100
13	s	169/174 (97%)	161 (95%)	8 (5%)	0	100	100
14	BG	198/202 (98%)	194 (98%)	4 (2%)	0	100	100
14	t	198/202 (98%)	196 (99%)	2 (1%)	0	100	100
15	BH	128/131 (98%)	124 (97%)	4 (3%)	0	100	100
15	u	128/131 (98%)	125 (98%)	3 (2%)	0	100	100
16	BI	201/204 (98%)	198 (98%)	3 (2%)	0	100	100
16	v	201/204 (98%)	197 (98%)	4 (2%)	0	100	100
17	BJ	197/200 (98%)	195 (99%)	2 (1%)	0	100	100
17	w	197/200 (98%)	195 (99%)	2 (1%)	0	100	100
18	BK	172/185 (93%)	167 (97%)	5 (3%)	0	100	100
18	x	169/185 (91%)	166 (98%)	3 (2%)	0	100	100
19	BL	183/186 (98%)	179 (98%)	4 (2%)	0	100	100
19	y	183/186 (98%)	179 (98%)	4 (2%)	0	100	100
20	BM	177/190 (93%)	173 (98%)	4 (2%)	0	100	100
20	z	177/190 (93%)	174 (98%)	3 (2%)	0	100	100
21	0	168/172 (98%)	166 (99%)	2 (1%)	0	100	100
21	BN	168/172 (98%)	166 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	2	157/160 (98%)	154 (98%)	3 (2%)	0	100	100
22	BO	157/160 (98%)	154 (98%)	3 (2%)	0	100	100
23	5	101/124 (82%)	95 (94%)	5 (5%)	1 (1%)	13	47
23	BP	101/124 (82%)	88 (87%)	11 (11%)	2 (2%)	6	32
24	6	129/137 (94%)	126 (98%)	3 (2%)	0	100	100
24	BQ	129/137 (94%)	126 (98%)	3 (2%)	0	100	100
25	7	114/155 (74%)	102 (90%)	11 (10%)	1 (1%)	14	49
25	BR	94/155 (61%)	90 (96%)	4 (4%)	0	100	100
26	8	118/142 (83%)	116 (98%)	2 (2%)	0	100	100
26	BS	117/142 (82%)	115 (98%)	2 (2%)	0	100	100
27	9	124/127 (98%)	123 (99%)	1 (1%)	0	100	100
27	BT	124/127 (98%)	123 (99%)	1 (1%)	0	100	100
28	AA	133/136 (98%)	132 (99%)	1 (1%)	0	100	100
28	BU	133/136 (98%)	131 (98%)	2 (2%)	0	100	100
29	AB	146/149 (98%)	138 (94%)	8 (6%)	0	100	100
29	BV	146/149 (98%)	139 (95%)	7 (5%)	0	100	100
30	AC	57/63 (90%)	54 (95%)	1 (2%)	2 (4%)	3	20
30	BW	59/63 (94%)	58 (98%)	1 (2%)	0	100	100
31	AD	94/106 (89%)	93 (99%)	1 (1%)	0	100	100
31	BX	94/106 (89%)	92 (98%)	2 (2%)	0	100	100
32	AE	108/112 (96%)	106 (98%)	2 (2%)	0	100	100
32	BY	108/112 (96%)	103 (95%)	3 (3%)	2 (2%)	6	34
33	AF	122/131 (93%)	122 (100%)	0	0	100	100
33	BZ	122/131 (93%)	122 (100%)	0	0	100	100
34	AG	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
34	CA	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
35	AH	110/122 (90%)	108 (98%)	2 (2%)	0	100	100
35	CB	110/122 (90%)	107 (97%)	3 (3%)	0	100	100
36	AI	118/120 (98%)	114 (97%)	4 (3%)	0	100	100
36	CC	116/120 (97%)	114 (98%)	2 (2%)	0	100	100
37	AJ	93/99 (94%)	92 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	CD	95/99 (96%)	94 (99%)	1 (1%)	0	100	100
38	AK	84/90 (93%)	81 (96%)	3 (4%)	0	100	100
38	CE	84/90 (93%)	81 (96%)	3 (4%)	0	100	100
39	AL	75/78 (96%)	70 (93%)	5 (7%)	0	100	100
39	CF	75/78 (96%)	67 (89%)	8 (11%)	0	100	100
40	AM	48/51 (94%)	46 (96%)	1 (2%)	1 (2%)	5	31
40	CG	48/51 (94%)	46 (96%)	2 (4%)	0	100	100
41	AN	50/52 (96%)	49 (98%)	1 (2%)	0	100	100
41	CH	49/52 (94%)	45 (92%)	1 (2%)	3 (6%)	1	9
42	AO	23/25 (92%)	22 (96%)	1 (4%)	0	100	100
42	CI	22/25 (88%)	22 (100%)	0	0	100	100
43	AP	101/106 (95%)	100 (99%)	1 (1%)	0	100	100
43	CJ	101/106 (95%)	100 (99%)	1 (1%)	0	100	100
44	AQ	89/92 (97%)	85 (96%)	4 (4%)	0	100	100
44	CK	89/92 (97%)	85 (96%)	4 (4%)	0	100	100
45	CL	117/267 (44%)	91 (78%)	23 (20%)	3 (3%)	4	27
45	i	117/267 (44%)	93 (80%)	20 (17%)	4 (3%)	3	21
47	C	206/261 (79%)	201 (98%)	5 (2%)	0	100	100
47	CN	206/261 (79%)	198 (96%)	8 (4%)	0	100	100
48	CO	212/256 (83%)	204 (96%)	8 (4%)	0	100	100
48	D	212/256 (83%)	207 (98%)	5 (2%)	0	100	100
49	CP	215/249 (86%)	209 (97%)	6 (3%)	0	100	100
49	E	215/249 (86%)	210 (98%)	5 (2%)	0	100	100
50	CQ	221/251 (88%)	211 (96%)	10 (4%)	0	100	100
50	F	221/251 (88%)	213 (96%)	8 (4%)	0	100	100
51	CR	258/262 (98%)	251 (97%)	7 (3%)	0	100	100
51	G	257/262 (98%)	253 (98%)	4 (2%)	0	100	100
52	CS	204/225 (91%)	197 (97%)	7 (3%)	0	100	100
52	H	204/225 (91%)	193 (95%)	11 (5%)	0	100	100
53	CT	234/236 (99%)	230 (98%)	4 (2%)	0	100	100
53	I	224/236 (95%)	220 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
54	CU	181/186 (97%)	171 (94%)	9 (5%)	1 (1%)	22 57
54	J	183/186 (98%)	171 (93%)	12 (7%)	0	100 100
55	CV	201/206 (98%)	199 (99%)	2 (1%)	0	100 100
55	K	201/206 (98%)	200 (100%)	1 (0%)	0	100 100
56	CW	176/189 (93%)	175 (99%)	1 (1%)	0	100 100
56	L	176/189 (93%)	175 (99%)	1 (1%)	0	100 100
57	CX	92/118 (78%)	86 (94%)	6 (6%)	0	100 100
57	M	90/118 (76%)	78 (87%)	12 (13%)	0	100 100
58	CY	139/155 (90%)	133 (96%)	5 (4%)	1 (1%)	19 54
58	N	142/155 (92%)	137 (96%)	5 (4%)	0	100 100
59	DA	148/151 (98%)	146 (99%)	2 (1%)	0	100 100
59	P	148/151 (98%)	146 (99%)	2 (1%)	0	100 100
60	DB	125/132 (95%)	120 (96%)	4 (3%)	1 (1%)	16 51
60	Q	125/132 (95%)	119 (95%)	5 (4%)	1 (1%)	16 51
61	DC	128/142 (90%)	108 (84%)	20 (16%)	0	100 100
61	R	127/142 (89%)	115 (91%)	11 (9%)	1 (1%)	16 51
62	DD	138/142 (97%)	134 (97%)	4 (3%)	0	100 100
62	S	138/142 (97%)	133 (96%)	4 (3%)	1 (1%)	19 54
63	DE	122/137 (89%)	119 (98%)	3 (2%)	0	100 100
63	T	122/137 (89%)	118 (97%)	4 (3%)	0	100 100
64	DF	139/145 (96%)	132 (95%)	6 (4%)	1 (1%)	19 54
64	U	142/145 (98%)	137 (96%)	5 (4%)	0	100 100
65	DG	139/145 (96%)	133 (96%)	5 (4%)	1 (1%)	19 54
65	V	139/145 (96%)	136 (98%)	3 (2%)	0	100 100
66	DH	95/119 (80%)	93 (98%)	2 (2%)	0	100 100
66	W	100/119 (84%)	97 (97%)	3 (3%)	0	100 100
67	DI	85/87 (98%)	83 (98%)	2 (2%)	0	100 100
67	X	85/87 (98%)	83 (98%)	2 (2%)	0	100 100
68	DJ	127/130 (98%)	125 (98%)	2 (2%)	0	100 100
68	Y	127/130 (98%)	125 (98%)	2 (2%)	0	100 100
69	DK	141/145 (97%)	139 (99%)	2 (1%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
69	Z	141/145 (97%)	138 (98%)	3 (2%)	0	100	100
70	DL	130/135 (96%)	130 (100%)	0	0	100	100
70	a	132/135 (98%)	130 (98%)	2 (2%)	0	100	100
71	DM	69/105 (66%)	64 (93%)	5 (7%)	0	100	100
71	b	70/105 (67%)	69 (99%)	1 (1%)	0	100	100
72	DN	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
72	c	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
73	DO	79/82 (96%)	73 (92%)	6 (8%)	0	100	100
73	d	79/82 (96%)	75 (95%)	4 (5%)	0	100	100
74	DP	59/67 (88%)	52 (88%)	7 (12%)	0	100	100
74	e	60/67 (90%)	57 (95%)	3 (5%)	0	100	100
75	DQ	52/56 (93%)	50 (96%)	2 (4%)	0	100	100
75	f	53/56 (95%)	51 (96%)	2 (4%)	0	100	100
76	DR	56/63 (89%)	50 (89%)	6 (11%)	0	100	100
76	g	58/63 (92%)	55 (95%)	3 (5%)	0	100	100
77	DS	68/193 (35%)	57 (84%)	10 (15%)	1 (2%)	8	38
77	h	68/193 (35%)	54 (79%)	13 (19%)	1 (2%)	8	38
78	AR	309/317 (98%)	292 (94%)	16 (5%)	1 (0%)	37	69
78	DT	309/317 (98%)	284 (92%)	23 (7%)	2 (1%)	22	57
79	CZ	117/143 (82%)	89 (76%)	23 (20%)	5 (4%)	2	16
79	O	37/143 (26%)	32 (86%)	5 (14%)	0	100	100
80	P0	105/312 (34%)	81 (77%)	20 (19%)	4 (4%)	2	18
80	p0	55/312 (18%)	34 (62%)	19 (34%)	2 (4%)	3	20
81	12	60/165 (36%)	37 (62%)	23 (38%)	0	100	100
82	L1	215/217 (99%)	163 (76%)	48 (22%)	4 (2%)	6	34
82	l1	207/217 (95%)	118 (57%)	80 (39%)	9 (4%)	2	16
All	All	22661/25499 (89%)	21655 (96%)	945 (4%)	61 (0%)	37	69

5 of 61 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
10	p	205	ASN
30	AC	21	ILE

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Mol	Chain	Res	Type
40	AM	49	LEU
45	i	55	LYS
45	i	64	LEU

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
4	AW	190/194 (98%)	188 (99%)	2 (1%)	70 86
4	j	190/194 (98%)	189 (100%)	1 (0%)	86 93
5	AX	325/328 (99%)	323 (99%)	2 (1%)	84 92
5	k	326/328 (99%)	325 (100%)	1 (0%)	91 96
6	AY	290/292 (99%)	287 (99%)	3 (1%)	73 87
6	l	290/292 (99%)	288 (99%)	2 (1%)	81 92
7	AZ	247/252 (98%)	244 (99%)	3 (1%)	67 85
7	m	250/252 (99%)	249 (100%)	1 (0%)	89 94
8	BA	132/154 (86%)	132 (100%)	0	100 100
8	n	136/154 (88%)	135 (99%)	1 (1%)	81 92
9	BB	198/204 (97%)	198 (100%)	0	100 100
9	o	195/204 (96%)	194 (100%)	1 (0%)	86 93
10	BC	193/216 (89%)	190 (98%)	3 (2%)	58 79
10	p	198/216 (92%)	197 (100%)	1 (0%)	86 93
11	BD	169/170 (99%)	169 (100%)	0	100 100
11	q	169/170 (99%)	168 (99%)	1 (1%)	84 92
12	BE	178/186 (96%)	177 (99%)	1 (1%)	84 92
12	r	178/186 (96%)	176 (99%)	2 (1%)	70 86
13	BF	146/149 (98%)	144 (99%)	2 (1%)	62 82
13	s	146/149 (98%)	144 (99%)	2 (1%)	62 82
14	BG	166/168 (99%)	164 (99%)	2 (1%)	67 85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
14	t	166/168 (99%)	165 (99%)	1 (1%)	84 92
15	BH	108/109 (99%)	107 (99%)	1 (1%)	75 89
15	u	108/109 (99%)	108 (100%)	0	100 100
16	BI	177/178 (99%)	176 (99%)	1 (1%)	84 92
16	v	177/178 (99%)	176 (99%)	1 (1%)	84 92
17	BJ	166/167 (99%)	166 (100%)	0	100 100
17	w	166/167 (99%)	166 (100%)	0	100 100
18	BK	145/154 (94%)	142 (98%)	3 (2%)	48 74
18	x	144/154 (94%)	144 (100%)	0	100 100
19	BL	153/154 (99%)	153 (100%)	0	100 100
19	y	153/154 (99%)	153 (100%)	0	100 100
20	BM	146/153 (95%)	142 (97%)	4 (3%)	40 69
20	z	146/153 (95%)	146 (100%)	0	100 100
21	0	155/157 (99%)	154 (99%)	1 (1%)	84 92
21	BN	155/157 (99%)	155 (100%)	0	100 100
22	2	133/134 (99%)	133 (100%)	0	100 100
22	BO	133/134 (99%)	132 (99%)	1 (1%)	79 90
23	5	93/112 (83%)	93 (100%)	0	100 100
23	BP	94/112 (84%)	90 (96%)	4 (4%)	25 57
24	6	101/104 (97%)	101 (100%)	0	100 100
24	BQ	101/104 (97%)	101 (100%)	0	100 100
25	7	97/127 (76%)	95 (98%)	2 (2%)	48 74
25	BR	86/127 (68%)	84 (98%)	2 (2%)	45 72
26	8	107/121 (88%)	105 (98%)	2 (2%)	52 76
26	BS	107/121 (88%)	107 (100%)	0	100 100
27	9	111/112 (99%)	110 (99%)	1 (1%)	75 89
27	BT	111/112 (99%)	110 (99%)	1 (1%)	75 89
28	AA	117/118 (99%)	117 (100%)	0	100 100
28	BU	117/118 (99%)	116 (99%)	1 (1%)	75 89
29	AB	120/121 (99%)	120 (100%)	0	100 100
29	BV	120/121 (99%)	120 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
30	AC	46/49 (94%)	46 (100%)	0	100 100
30	BW	48/49 (98%)	48 (100%)	0	100 100
31	AD	81/90 (90%)	81 (100%)	0	100 100
31	BX	81/90 (90%)	81 (100%)	0	100 100
32	AE	98/100 (98%)	97 (99%)	1 (1%)	73 87
32	BY	98/100 (98%)	98 (100%)	0	100 100
33	AF	109/115 (95%)	109 (100%)	0	100 100
33	BZ	110/115 (96%)	110 (100%)	0	100 100
34	AG	91/92 (99%)	90 (99%)	1 (1%)	70 86
34	CA	91/92 (99%)	91 (100%)	0	100 100
35	AH	95/102 (93%)	93 (98%)	2 (2%)	48 74
35	CB	95/102 (93%)	95 (100%)	0	100 100
36	AI	106/106 (100%)	105 (99%)	1 (1%)	75 89
36	CC	105/106 (99%)	103 (98%)	2 (2%)	52 76
37	AJ	75/79 (95%)	75 (100%)	0	100 100
37	CD	77/79 (98%)	77 (100%)	0	100 100
38	AK	70/73 (96%)	70 (100%)	0	100 100
38	CE	70/73 (96%)	70 (100%)	0	100 100
39	AL	68/69 (99%)	68 (100%)	0	100 100
39	CF	68/69 (99%)	68 (100%)	0	100 100
40	AM	46/47 (98%)	46 (100%)	0	100 100
40	CG	46/47 (98%)	45 (98%)	1 (2%)	47 73
41	AN	47/47 (100%)	47 (100%)	0	100 100
41	CH	46/47 (98%)	45 (98%)	1 (2%)	47 73
42	AO	24/24 (100%)	22 (92%)	2 (8%)	9 35
42	CI	23/24 (96%)	22 (96%)	1 (4%)	25 57
43	AP	88/91 (97%)	88 (100%)	0	100 100
43	CJ	88/91 (97%)	87 (99%)	1 (1%)	70 86
44	AQ	72/73 (99%)	72 (100%)	0	100 100
44	CK	72/73 (99%)	72 (100%)	0	100 100
45	CL	100/212 (47%)	99 (99%)	1 (1%)	73 87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
45	i	100/212 (47%)	99 (99%)	1 (1%)	73 87
47	C	176/215 (82%)	175 (99%)	1 (1%)	84 92
47	CN	176/215 (82%)	174 (99%)	2 (1%)	70 86
48	CO	194/229 (85%)	192 (99%)	2 (1%)	73 87
48	D	194/229 (85%)	193 (100%)	1 (0%)	86 93
49	CP	175/198 (88%)	173 (99%)	2 (1%)	70 86
49	E	175/198 (88%)	175 (100%)	0	100 100
50	CQ	174/196 (89%)	171 (98%)	3 (2%)	56 78
50	F	174/196 (89%)	172 (99%)	2 (1%)	70 86
51	CR	218/220 (99%)	217 (100%)	1 (0%)	86 93
51	G	218/220 (99%)	217 (100%)	1 (0%)	86 93
52	CS	178/197 (90%)	175 (98%)	3 (2%)	56 78
52	H	178/197 (90%)	176 (99%)	2 (1%)	70 86
53	CT	204/204 (100%)	202 (99%)	2 (1%)	73 87
53	I	195/204 (96%)	191 (98%)	4 (2%)	48 74
54	CU	164/167 (98%)	163 (99%)	1 (1%)	84 92
54	J	166/167 (99%)	166 (100%)	0	100 100
55	CV	157/160 (98%)	157 (100%)	0	100 100
55	K	157/160 (98%)	156 (99%)	1 (1%)	84 92
56	CW	153/160 (96%)	153 (100%)	0	100 100
56	L	153/160 (96%)	153 (100%)	0	100 100
57	CX	88/104 (85%)	88 (100%)	0	100 100
57	M	86/104 (83%)	86 (100%)	0	100 100
58	CY	122/134 (91%)	121 (99%)	1 (1%)	79 90
58	N	124/134 (92%)	122 (98%)	2 (2%)	58 79
59	DA	129/130 (99%)	128 (99%)	1 (1%)	79 90
59	P	129/130 (99%)	129 (100%)	0	100 100
60	DB	97/102 (95%)	97 (100%)	0	100 100
60	Q	97/102 (95%)	94 (97%)	3 (3%)	35 66
61	DC	112/121 (93%)	110 (98%)	2 (2%)	54 77
61	R	111/121 (92%)	109 (98%)	2 (2%)	54 77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
62	DD	114/116 (98%)	113 (99%)	1 (1%)	75 89
62	S	114/116 (98%)	112 (98%)	2 (2%)	54 77
63	DE	112/122 (92%)	112 (100%)	0	100 100
63	T	112/122 (92%)	110 (98%)	2 (2%)	54 77
64	DF	125/129 (97%)	123 (98%)	2 (2%)	58 79
64	U	128/129 (99%)	126 (98%)	2 (2%)	58 79
65	DG	113/117 (97%)	113 (100%)	0	100 100
65	V	113/117 (97%)	113 (100%)	0	100 100
66	DH	87/105 (83%)	85 (98%)	2 (2%)	45 72
66	W	92/105 (88%)	89 (97%)	3 (3%)	33 64
67	DI	71/71 (100%)	70 (99%)	1 (1%)	62 82
67	X	71/71 (100%)	71 (100%)	0	100 100
68	DJ	112/113 (99%)	111 (99%)	1 (1%)	75 89
68	Y	112/113 (99%)	112 (100%)	0	100 100
69	DK	116/118 (98%)	114 (98%)	2 (2%)	56 78
69	Z	116/118 (98%)	116 (100%)	0	100 100
70	DL	109/112 (97%)	109 (100%)	0	100 100
70	a	111/112 (99%)	110 (99%)	1 (1%)	75 89
71	DM	63/85 (74%)	62 (98%)	1 (2%)	58 79
71	b	64/85 (75%)	64 (100%)	0	100 100
72	DN	84/102 (82%)	84 (100%)	0	100 100
72	c	84/102 (82%)	82 (98%)	2 (2%)	44 71
73	DO	72/73 (99%)	72 (100%)	0	100 100
73	d	72/73 (99%)	71 (99%)	1 (1%)	62 82
74	DP	53/58 (91%)	53 (100%)	0	100 100
74	e	54/58 (93%)	54 (100%)	0	100 100
75	DQ	47/48 (98%)	46 (98%)	1 (2%)	48 74
75	f	47/48 (98%)	46 (98%)	1 (2%)	48 74
76	DR	50/54 (93%)	47 (94%)	3 (6%)	16 48
76	g	51/54 (94%)	49 (96%)	2 (4%)	27 60
77	DS	62/175 (35%)	57 (92%)	5 (8%)	9 36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
77	h	62/175 (35%)	60 (97%)	2 (3%)	34 65
78	AR	259/263 (98%)	258 (100%)	1 (0%)	89 94
78	DT	259/263 (98%)	255 (98%)	4 (2%)	60 81
79	CZ	101/123 (82%)	99 (98%)	2 (2%)	50 75
79	O	34/123 (28%)	34 (100%)	0	100 100
80	P0	92/247 (37%)	86 (94%)	6 (6%)	14 45
80	p0	52/247 (21%)	50 (96%)	2 (4%)	28 60
81	12	52/137 (38%)	47 (90%)	5 (10%)	7 28
82	L1	196/196 (100%)	187 (95%)	9 (5%)	23 56
82	l1	190/196 (97%)	178 (94%)	12 (6%)	15 46
All	All	19461/21471 (91%)	19272 (99%)	189 (1%)	73 87

5 of 189 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
49	CP	136	ARG
76	DR	31	GLN
51	CR	10	LYS
61	DC	36	LEU
77	DS	186	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 34 such sidechains are listed below:

Mol	Chain	Res	Type
62	DD	138	GLN
71	DM	38	HIS
82	L1	182	GLN
62	S	39	GLN
61	R	103	ASN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3212/3359 (95%)	614 (19%)	45 (1%)
1	AS	3219/3359 (95%)	618 (19%)	50 (1%)
2	3	120/121 (99%)	9 (7%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	AT	120/121 (99%)	9 (7%)	0
3	4	156/158 (98%)	23 (14%)	3 (1%)
3	AU	157/158 (99%)	23 (14%)	3 (1%)
46	B	1753/1787 (98%)	447 (25%)	45 (2%)
46	CM	1762/1787 (98%)	454 (25%)	54 (3%)
All	All	10499/10850 (96%)	2197 (20%)	200 (1%)

5 of 2197 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1	15	A
1	1	24	U
1	1	25	A
1	1	29	G
1	1	39	A

5 of 200 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AS	2090	U
3	AU	85	G
46	CM	1581	G
1	AS	2431	U
1	AS	2519	A

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1676 ligands modelled in this entry, 1674 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond

length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
83	3K5	AS	3401	-	62,63,63	2.83	28 (45%)	82,95,95	1.67	12 (14%)
83	3K5	1	3401	-	62,63,63	2.85	27 (43%)	82,95,95	1.68	17 (20%)

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
83	3K5	AS	3401	-	-	11/29/121/121	0/7/7/7
83	3K5	1	3401	-	-	11/29/121/121	0/7/7/7

The worst 5 of 55 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
83	1	3401	3K5	C17-C22	-9.20	1.36	1.53
83	AS	3401	3K5	C17-C22	-7.96	1.38	1.53
83	1	3401	3K5	O4-C22	7.38	1.59	1.43
83	AS	3401	3K5	O4-C22	7.14	1.59	1.43
83	1	3401	3K5	C21-C22	5.98	1.63	1.52

The worst 5 of 29 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	AS	3401	3K5	O14-C38-C39	5.41	121.04	111.09
83	1	3401	3K5	O14-C38-C39	4.92	120.15	111.09
83	AS	3401	3K5	C2-O-C3	-4.88	110.21	113.66
83	AS	3401	3K5	O9-C30-C31	4.88	120.07	111.09
83	AS	3401	3K5	C8-C7-C6	-4.40	108.84	122.26

There are no chirality outliers.

5 of 22 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
83	1	3401	3K5	C4-C5-O1-C6
83	1	3401	3K5	C7-C6-O1-C5
83	1	3401	3K5	C31-C30-O9-C26

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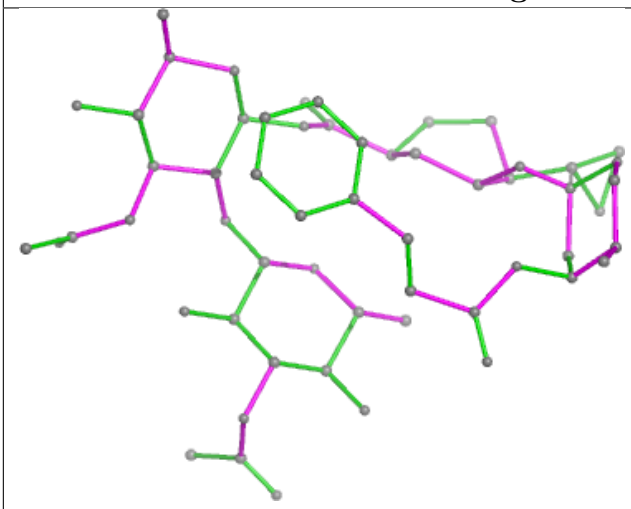
Mol	Chain	Res	Type	Atoms
83	AS	3401	3K5	C39-C38-O14-C34
83	AS	3401	3K5	C35-C34-O14-C38

There are no ring outliers.

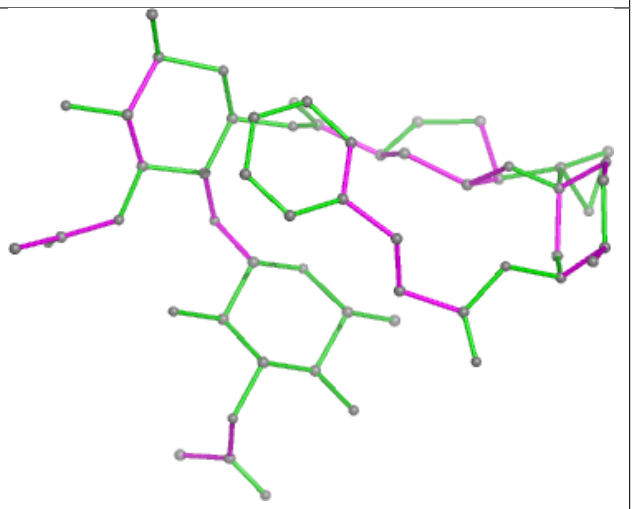
No monomer is involved in short contacts.

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 then 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.

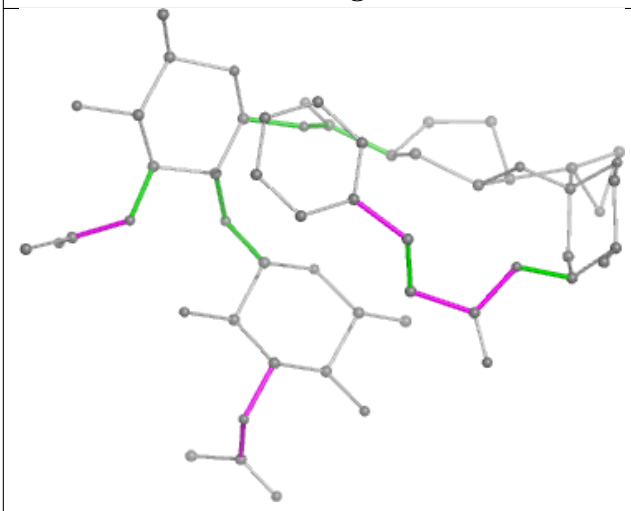
Ligand 3K5 AS 3401



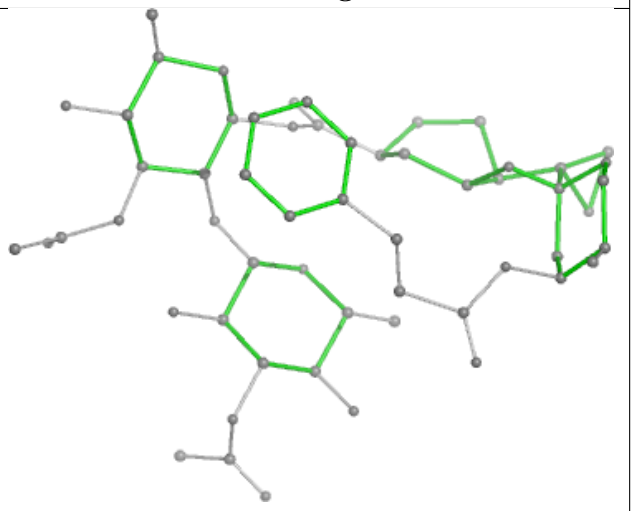
Bond lengths



Bond angles

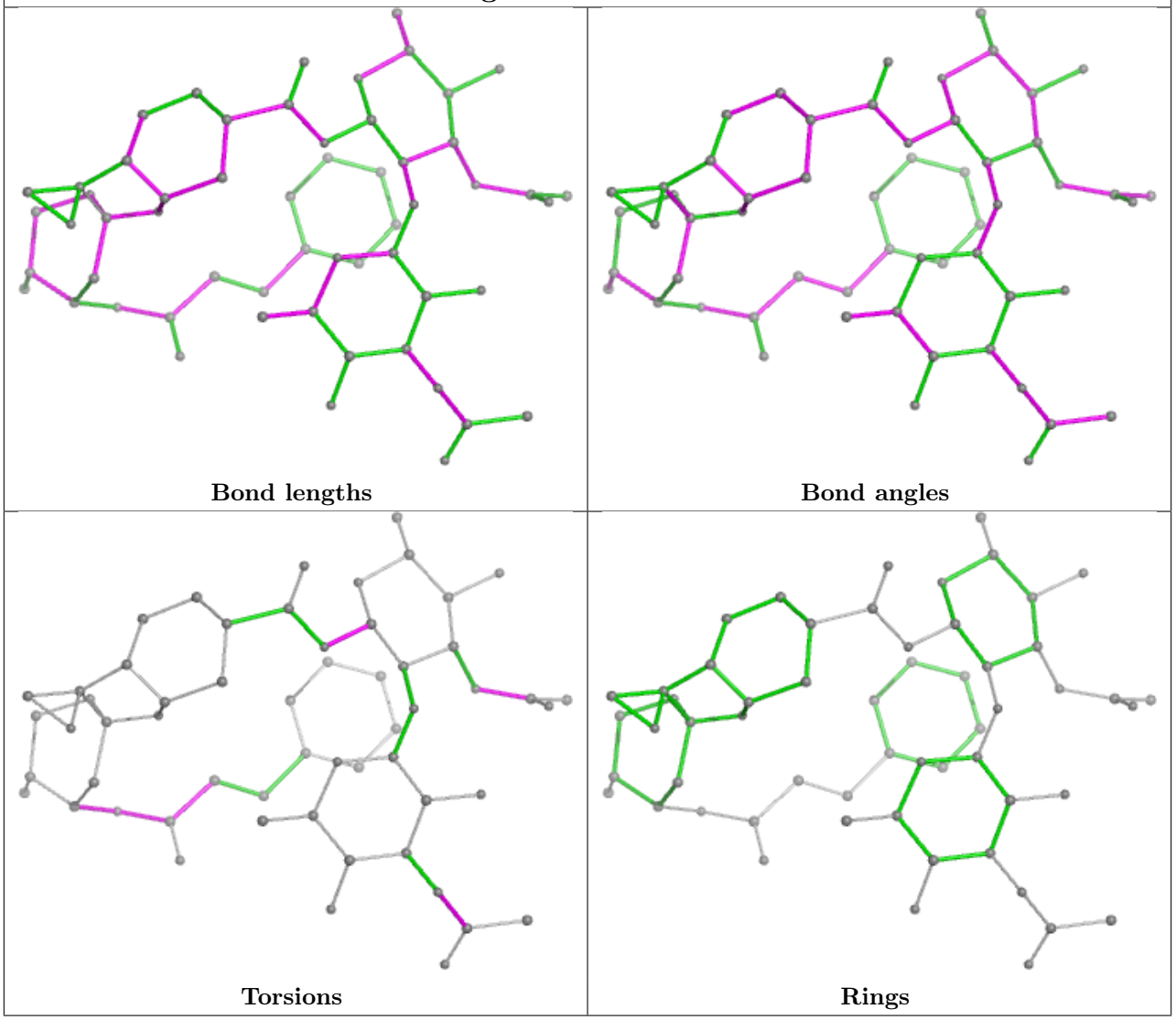


Torsions



Rings

Ligand 3K5 1 3401



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	1	3216/3359 (95%)	0.47	248 (7%) 21 14	36, 65, 187, 389	0
1	AS	3222/3359 (95%)	0.77	364 (11%) 11 8	44, 79, 214, 339	0
2	3	121/121 (100%)	0.19	1 (0%) 82 70	44, 80, 102, 135	0
2	AT	121/121 (100%)	0.63	6 (4%) 35 24	45, 79, 104, 152	0
3	4	157/158 (99%)	0.18	3 (1%) 66 50	50, 69, 125, 185	0
3	AU	158/158 (100%)	0.90	14 (8%) 17 12	65, 101, 152, 231	0
4	AW	249/254 (98%)	1.14	51 (20%) 3 3	45, 83, 111, 135	0
4	j	249/254 (98%)	0.81	24 (9%) 15 10	35, 56, 84, 174	0
5	AX	386/389 (99%)	0.71	25 (6%) 26 18	45, 69, 103, 162	0
5	k	386/389 (99%)	0.64	21 (5%) 32 22	34, 60, 83, 137	1 (0%)
6	AY	361/363 (99%)	2.05	126 (34%) 1 1	54, 85, 119, 141	0
6	l	361/363 (99%)	1.07	50 (13%) 7 5	34, 73, 112, 147	0
7	AZ	292/298 (97%)	1.92	111 (38%) 1 1	52, 105, 142, 169	0
7	m	296/298 (99%)	1.54	77 (26%) 2 2	56, 92, 128, 151	0
8	BA	153/176 (86%)	1.00	19 (12%) 9 7	60, 84, 116, 152	0
8	n	157/176 (89%)	1.03	22 (14%) 7 5	55, 80, 115, 153	0
9	BB	234/241 (97%)	0.77	23 (9%) 14 10	45, 66, 125, 183	0
9	o	231/241 (95%)	0.63	11 (4%) 36 25	44, 61, 113, 169	0
10	BC	233/262 (88%)	1.86	85 (36%) 1 1	100, 135, 171, 191	0
10	p	238/262 (90%)	1.21	48 (20%) 3 3	60, 86, 141, 178	0
11	BD	190/191 (99%)	1.31	38 (20%) 3 3	66, 88, 121, 160	0
11	q	190/191 (99%)	0.76	11 (5%) 30 20	56, 81, 111, 143	0
12	BE	208/220 (94%)	0.83	22 (10%) 13 9	40, 62, 116, 155	0
12	r	208/220 (94%)	1.07	30 (14%) 7 5	39, 64, 104, 125	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	BF	171/174 (98%)	1.56	38 (22%) 3 2	64, 95, 130, 147	0
13	s	171/174 (98%)	1.27	34 (19%) 3 3	62, 95, 119, 138	0
14	BG	200/202 (99%)	1.56	59 (29%) 1 1	51, 105, 142, 162	0
14	t	200/202 (99%)	1.05	28 (14%) 7 5	47, 79, 127, 156	0
15	BH	130/131 (99%)	0.72	14 (10%) 12 9	59, 79, 110, 133	0
15	u	130/131 (99%)	0.44	5 (3%) 44 30	54, 71, 102, 124	0
16	BI	203/204 (99%)	1.76	69 (33%) 1 1	62, 96, 118, 126	0
16	v	203/204 (99%)	0.67	14 (6%) 24 17	36, 60, 78, 92	0
17	BJ	199/200 (99%)	0.74	24 (12%) 10 7	44, 60, 105, 139	0
17	w	199/200 (99%)	0.46	9 (4%) 39 26	39, 55, 93, 122	0
18	BK	176/185 (95%)	1.17	29 (16%) 5 4	49, 73, 105, 148	0
18	x	173/185 (93%)	0.93	18 (10%) 13 9	42, 63, 105, 130	0
19	BL	185/186 (99%)	1.35	35 (18%) 4 3	57, 80, 99, 112	0
19	y	185/186 (99%)	1.06	30 (16%) 5 4	44, 67, 88, 102	0
20	BM	179/190 (94%)	1.14	27 (15%) 6 5	67, 94, 154, 187	0
20	z	179/190 (94%)	1.09	30 (16%) 5 4	55, 75, 141, 155	0
21	0	170/172 (98%)	0.46	8 (4%) 37 25	49, 61, 87, 153	0
21	BN	170/172 (98%)	0.65	11 (6%) 26 18	50, 68, 93, 127	0
22	2	159/160 (99%)	0.88	18 (11%) 11 8	47, 63, 131, 153	0
22	BO	159/160 (99%)	1.17	25 (15%) 6 4	46, 67, 128, 158	0
23	5	103/124 (83%)	1.37	27 (26%) 2 2	93, 123, 153, 170	0
23	BP	102/124 (82%)	1.66	31 (30%) 1 1	99, 143, 163, 177	1 (0%)
24	6	131/137 (95%)	0.65	12 (9%) 16 11	42, 55, 84, 103	0
24	BQ	131/137 (95%)	0.95	17 (12%) 9 6	42, 61, 98, 112	0
25	7	118/155 (76%)	0.91	16 (13%) 8 6	43, 82, 135, 146	0
25	BR	98/155 (63%)	1.29	18 (18%) 4 3	57, 83, 141, 152	0
26	8	120/142 (84%)	1.00	14 (11%) 10 8	60, 78, 103, 121	0
26	BS	119/142 (83%)	1.52	26 (21%) 3 2	76, 109, 131, 142	0
27	9	126/127 (99%)	1.32	23 (18%) 4 3	53, 82, 109, 134	0
27	BT	126/127 (99%)	1.67	35 (27%) 2 1	67, 106, 142, 162	0
28	AA	135/136 (99%)	1.46	28 (20%) 3 3	66, 96, 118, 153	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	BU	135/136 (99%)	1.89	57 (42%) 1 1	103, 132, 155, 181	0
29	AB	148/149 (99%)	0.80	11 (7%) 22 16	41, 65, 100, 127	0
29	BV	148/149 (99%)	1.54	44 (29%) 1 1	52, 85, 114, 133	0
30	AC	59/63 (93%)	1.58	17 (28%) 1 1	46, 77, 125, 141	0
30	BW	61/63 (96%)	2.19	27 (44%) 1 1	47, 86, 141, 156	0
31	AD	96/106 (90%)	0.68	5 (5%) 34 23	62, 84, 109, 129	0
31	BX	96/106 (90%)	1.22	16 (16%) 5 4	87, 125, 150, 159	0
32	AE	110/112 (98%)	0.95	8 (7%) 22 16	51, 71, 124, 159	0
32	BY	110/112 (98%)	1.21	18 (16%) 5 4	56, 88, 129, 160	0
33	AF	124/131 (94%)	1.11	18 (14%) 7 5	42, 65, 86, 97	0
33	BZ	124/131 (94%)	1.61	35 (28%) 1 1	45, 75, 102, 119	0
34	AG	106/107 (99%)	0.67	6 (5%) 30 20	48, 61, 79, 95	0
34	CA	106/107 (99%)	0.63	7 (6%) 26 17	48, 64, 80, 99	0
35	AH	112/122 (91%)	1.46	28 (25%) 2 2	53, 77, 130, 148	0
35	CB	112/122 (91%)	2.03	45 (40%) 1 1	72, 111, 154, 174	0
36	AI	120/120 (100%)	1.22	18 (15%) 6 5	68, 89, 119, 150	0
36	CC	118/120 (98%)	2.06	51 (43%) 1 1	92, 117, 142, 151	0
37	AJ	95/99 (95%)	0.61	3 (3%) 50 35	60, 76, 105, 144	0
37	CD	97/99 (97%)	1.64	31 (31%) 1 1	90, 110, 148, 165	0
38	AK	86/90 (95%)	0.95	12 (13%) 7 5	44, 58, 102, 122	0
38	CE	86/90 (95%)	1.62	26 (30%) 1 1	53, 78, 122, 147	0
39	AL	77/78 (98%)	1.43	17 (22%) 3 2	86, 106, 146, 169	0
39	CF	77/78 (98%)	2.19	37 (48%) 0 1	102, 133, 167, 176	0
40	AM	50/51 (98%)	1.02	5 (10%) 14 10	53, 66, 92, 97	0
40	CG	50/51 (98%)	1.76	13 (26%) 2 2	70, 87, 104, 113	0
41	AN	52/52 (100%)	2.28	25 (48%) 0 1	104, 134, 149, 158	0
41	CH	51/52 (98%)	2.82	40 (78%) 0 0	109, 139, 156, 162	0
42	AO	25/25 (100%)	1.27	5 (20%) 3 3	60, 69, 83, 84	0
42	CI	24/25 (96%)	1.10	3 (12%) 9 7	55, 65, 79, 92	0
43	AP	103/106 (97%)	0.90	17 (16%) 5 4	36, 65, 116, 130	0
43	CJ	103/106 (97%)	1.12	19 (18%) 4 3	51, 77, 128, 139	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å^2)	Q<0.9
44	AQ	91/92 (98%)	0.95	11 (12%)	10	7	43, 63, 102, 130	0
44	CK	91/92 (98%)	1.08	13 (14%)	7	5	58, 89, 124, 136	0
45	CL	121/267 (45%)	2.70	71 (58%)	0	1	66, 107, 141, 150	0
45	i	121/267 (45%)	2.00	51 (42%)	1	1	71, 111, 146, 151	0
46	B	1756/1787 (98%)	0.91	242 (13%)	8	5	45, 91, 186, 461	0
46	CM	1765/1787 (98%)	0.75	158 (8%)	17	11	42, 87, 190, 469	0
47	C	208/261 (79%)	1.65	61 (29%)	1	1	90, 123, 151, 168	0
47	CN	208/261 (79%)	1.43	47 (22%)	3	2	67, 109, 142, 181	0
48	CO	214/256 (83%)	1.63	55 (25%)	2	2	82, 131, 155, 182	0
48	D	214/256 (83%)	1.11	28 (13%)	8	6	72, 100, 123, 135	0
49	CP	217/249 (87%)	1.11	28 (12%)	9	6	51, 78, 111, 133	0
49	E	217/249 (87%)	1.83	67 (30%)	1	1	74, 102, 127, 150	0
50	CQ	223/251 (88%)	1.14	34 (15%)	6	5	60, 84, 150, 174	0
50	F	223/251 (88%)	1.79	70 (31%)	1	1	82, 112, 162, 180	0
51	CR	260/262 (99%)	1.49	63 (24%)	2	2	70, 95, 120, 158	0
51	G	259/262 (98%)	1.88	89 (34%)	1	1	71, 105, 131, 161	0
52	CS	206/225 (91%)	1.79	65 (31%)	1	1	82, 112, 155, 202	0
52	H	206/225 (91%)	1.38	50 (24%)	2	2	78, 107, 145, 178	0
53	CT	236/236 (100%)	1.59	62 (26%)	2	2	66, 109, 153, 171	0
53	I	226/236 (95%)	1.52	48 (21%)	3	2	63, 107, 150, 195	0
54	CU	183/186 (98%)	1.54	50 (27%)	2	2	74, 142, 181, 195	0
54	J	185/186 (99%)	1.95	69 (37%)	1	1	73, 140, 167, 181	0
55	CV	203/206 (98%)	1.75	75 (36%)	1	1	47, 79, 139, 171	0
55	K	203/206 (98%)	1.59	58 (28%)	1	1	51, 88, 132, 159	0
56	CW	178/189 (94%)	2.01	71 (39%)	1	1	73, 103, 132, 149	0
56	L	178/189 (94%)	2.47	99 (55%)	0	1	82, 115, 136, 153	0
57	CX	94/118 (79%)	1.06	15 (15%)	6	4	61, 103, 143, 162	0
57	M	94/118 (79%)	1.89	35 (37%)	1	1	86, 124, 148, 163	0
58	CY	141/155 (90%)	0.91	20 (14%)	7	5	47, 72, 107, 163	0
58	N	144/155 (92%)	1.26	25 (17%)	5	4	57, 84, 122, 155	0
59	DA	150/151 (99%)	1.12	22 (14%)	7	5	60, 99, 132, 157	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
59	P	150/151 (99%)	1.12	27 (18%)	4	4	62, 100, 122, 137	0
60	DB	127/132 (96%)	1.36	26 (20%)	3	3	61, 109, 139, 148	0
60	Q	127/132 (96%)	0.98	17 (13%)	8	6	56, 87, 110, 117	0
61	DC	130/142 (91%)	1.52	37 (28%)	1	1	69, 108, 136, 162	0
61	R	129/142 (90%)	1.36	30 (23%)	2	2	73, 101, 141, 161	0
62	DD	140/142 (98%)	1.63	36 (25%)	2	2	65, 109, 142, 157	0
62	S	140/142 (98%)	1.87	53 (37%)	1	1	76, 114, 150, 161	0
63	DE	124/137 (90%)	1.76	46 (37%)	1	1	71, 130, 174, 183	0
63	T	124/137 (90%)	1.90	45 (36%)	1	1	89, 132, 176, 183	0
64	DF	141/145 (97%)	1.60	38 (26%)	2	2	61, 109, 142, 171	0
64	U	144/145 (99%)	1.21	25 (17%)	5	4	69, 89, 124, 149	0
65	DG	141/145 (97%)	1.51	40 (28%)	1	1	69, 107, 138, 160	0
65	V	141/145 (97%)	1.24	26 (18%)	4	3	82, 106, 142, 164	0
66	DH	97/119 (81%)	1.28	14 (14%)	7	5	57, 109, 133, 152	0
66	W	102/119 (85%)	1.81	37 (36%)	1	1	76, 132, 155, 163	0
67	DI	87/87 (100%)	1.13	11 (12%)	9	7	72, 94, 129, 159	0
67	X	87/87 (100%)	1.17	13 (14%)	7	5	85, 113, 136, 147	0
68	DJ	129/130 (99%)	1.06	18 (13%)	7	5	57, 74, 95, 107	0
68	Y	129/130 (99%)	1.43	32 (24%)	2	2	75, 92, 115, 123	0
69	DK	143/145 (98%)	0.92	11 (7%)	21	14	47, 72, 98, 133	0
69	Z	143/145 (98%)	1.49	36 (25%)	2	2	64, 77, 96, 122	0
70	DL	132/135 (97%)	1.52	35 (26%)	2	2	89, 118, 145, 190	0
70	a	134/135 (99%)	1.84	48 (35%)	1	1	82, 121, 140, 154	0
71	DM	71/105 (67%)	1.65	22 (30%)	1	1	104, 137, 155, 161	0
71	b	72/105 (68%)	1.22	15 (20%)	3	3	93, 114, 141, 156	0
72	DN	98/119 (82%)	1.61	33 (33%)	1	1	69, 89, 146, 156	0
72	c	98/119 (82%)	1.70	25 (25%)	2	2	71, 92, 132, 153	0
73	DO	81/82 (98%)	1.52	23 (28%)	1	1	82, 112, 180, 193	0
73	d	81/82 (98%)	1.41	17 (20%)	3	3	84, 108, 165, 181	0
74	DP	61/67 (91%)	1.65	14 (22%)	2	2	90, 117, 147, 169	0
74	e	62/67 (92%)	2.09	24 (38%)	1	1	90, 117, 146, 156	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
75	DQ	54/56 (96%)	1.24	12 (22%)	3	2	54, 74, 106, 129	0
75	f	55/56 (98%)	1.27	10 (18%)	4	3	77, 92, 120, 142	0
76	DR	58/63 (92%)	1.85	19 (32%)	1	1	73, 109, 178, 188	0
76	g	60/63 (95%)	2.16	26 (43%)	1	1	82, 114, 166, 177	0
77	DS	70/193 (36%)	2.71	48 (68%)	0	0	106, 185, 202, 224	0
77	h	70/193 (36%)	2.24	36 (51%)	0	1	133, 179, 195, 202	0
78	AR	311/317 (98%)	1.80	118 (37%)	1	1	132, 165, 186, 202	0
78	DT	311/317 (98%)	2.09	154 (49%)	0	1	112, 162, 187, 201	0
79	CZ	119/143 (83%)	1.95	56 (47%)	0	1	142, 174, 188, 196	0
79	O	39/143 (27%)	2.06	20 (51%)	0	1	167, 186, 197, 206	0
80	P0	107/312 (34%)	2.35	57 (53%)	0	1	109, 124, 138, 165	0
80	p0	61/312 (19%)	3.11	45 (73%)	0	0	112, 126, 141, 145	0
81	12	62/165 (37%)	2.08	28 (45%)	1	1	103, 127, 146, 153	0
82	L1	217/217 (100%)	1.39	58 (26%)	2	2	101, 128, 165, 236	0
82	l1	211/217 (97%)	1.63	71 (33%)	1	1	111, 135, 155, 205	0
All	All	33513/36349 (92%)	1.15	6350 (18%)	4	3	34, 89, 165, 469	2 (0%)

The worst 5 of 6350 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
49	E	86	ARG	18.6
49	CP	86	ARG	14.3
1	AS	3319	U	13.9
6	AY	66	TRP	13.0
56	L	138	LYS	12.7

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

There are no non-standard protein/DNA/RNA residues in this entry.

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, 95^{th} 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
84	MG	1	3628	1/1	0.01	0.28	175,175,175,175	0
84	MG	1	3801	1/1	0.20	0.35	118,118,118,118	0
84	MG	B	1928	1/1	0.25	0.30	131,131,131,131	0
84	MG	AS	3649	1/1	0.46	0.26	83,83,83,83	0
84	MG	J	201	1/1	0.50	0.17	145,145,145,145	0
84	MG	AT	210	1/1	0.50	0.45	71,71,71,71	0
84	MG	B	1943	1/1	0.51	0.35	87,87,87,87	0
84	MG	1	3938	1/1	0.51	0.34	69,69,69,69	0
84	MG	AE	202	1/1	0.52	0.14	84,84,84,84	0
84	MG	AS	3590	1/1	0.53	0.40	96,96,96,96	0
84	MG	AS	3597	1/1	0.54	0.21	78,78,78,78	0
84	MG	B	1939	1/1	0.55	0.25	118,118,118,118	0
84	MG	2	201	1/1	0.56	0.39	95,95,95,95	0
84	MG	k	404	1/1	0.56	0.34	76,76,76,76	0
84	MG	AS	3586	1/1	0.57	0.36	77,77,77,77	0
84	MG	I	301	1/1	0.58	0.31	112,112,112,112	0
84	MG	B	1824	1/1	0.60	0.33	67,67,67,67	0
84	MG	AS	3662	1/1	0.61	0.30	88,88,88,88	0
84	MG	1	3593	1/1	0.61	0.35	94,94,94,94	0
85	ZN	DO	101	1/1	0.61	0.14	229,229,229,229	0
84	MG	CM	1813	1/1	0.62	0.37	57,57,57,57	0
84	MG	AS	3747	1/1	0.62	0.10	58,58,58,58	0
84	MG	1	3726	1/1	0.63	0.28	61,61,61,61	0
84	MG	AS	3628	1/1	0.63	0.19	49,49,49,49	0
84	MG	B	1836	1/1	0.63	0.21	287,287,287,287	0
84	MG	1	3808	1/1	0.63	0.32	102,102,102,102	0
84	MG	1	3874	1/1	0.64	0.29	57,57,57,57	0
84	MG	1	3513	1/1	0.65	0.34	44,44,44,44	0
84	MG	B	1946	1/1	0.66	0.32	78,78,78,78	0
84	MG	AS	3636	1/1	0.66	0.28	67,67,67,67	0
84	MG	B	1923	1/1	0.66	0.13	70,70,70,70	0
84	MG	CM	1871	1/1	0.66	0.32	89,89,89,89	0
84	MG	1	3921	1/1	0.66	0.22	80,80,80,80	0
84	MG	CM	1808	1/1	0.67	0.34	99,99,99,99	0
84	MG	AS	3634	1/1	0.67	0.36	69,69,69,69	0
84	MG	1	3826	1/1	0.67	0.17	43,43,43,43	0
85	ZN	CJ	201	1/1	0.67	0.19	255,255,255,255	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	B	1949	1/1	0.67	0.23	79,79,79,79	0
84	MG	1	3788	1/1	0.68	0.30	54,54,54,54	0
84	MG	1	3909	1/1	0.68	0.17	50,50,50,50	0
84	MG	1	3920	1/1	0.68	0.14	45,45,45,45	0
84	MG	CM	1879	1/1	0.68	0.26	63,63,63,63	0
84	MG	CM	1885	1/1	0.68	0.31	84,84,84,84	0
84	MG	w	303	1/1	0.68	0.28	86,86,86,86	0
84	MG	AS	3458	1/1	0.68	0.42	64,64,64,64	0
84	MG	1	3927	1/1	0.69	0.28	76,76,76,76	0
84	MG	3	202	1/1	0.69	0.27	83,83,83,83	0
84	MG	AS	3728	1/1	0.69	0.22	46,46,46,46	0
84	MG	B	1898	1/1	0.69	0.33	74,74,74,74	0
84	MG	1	3847	1/1	0.70	0.26	59,59,59,59	0
84	MG	BF	201	1/1	0.70	0.31	70,70,70,70	0
84	MG	1	3800	1/1	0.70	0.31	65,65,65,65	0
84	MG	B	1945	1/1	0.71	0.12	74,74,74,74	0
84	MG	AS	3661	1/1	0.71	0.47	75,75,75,75	0
84	MG	1	3584	1/1	0.71	0.28	52,52,52,52	0
84	MG	3	214	1/1	0.71	0.32	74,74,74,74	0
84	MG	B	1936	1/1	0.71	0.30	74,74,74,74	0
84	MG	1	3755	1/1	0.71	0.26	70,70,70,70	0
84	MG	B	1913	1/1	0.71	0.21	71,71,71,71	0
84	MG	AS	3501	1/1	0.72	0.45	64,64,64,64	0
84	MG	1	3754	1/1	0.72	0.31	76,76,76,76	0
84	MG	AS	3815	1/1	0.72	0.17	49,49,49,49	0
84	MG	1	4032	1/1	0.72	0.12	46,46,46,46	0
84	MG	B	1855	1/1	0.72	0.36	58,58,58,58	0
84	MG	B	1816	1/1	0.72	0.17	64,64,64,64	0
84	MG	AD	201	1/1	0.73	0.43	71,71,71,71	0
84	MG	BN	201	1/1	0.73	0.10	61,61,61,61	0
84	MG	1	3676	1/1	0.73	0.24	57,57,57,57	0
84	MG	y	202	1/1	0.73	0.14	63,63,63,63	0
84	MG	B	1907	1/1	0.73	0.11	47,47,47,47	0
84	MG	B	1941	1/1	0.73	0.27	94,94,94,94	0
84	MG	1	3728	1/1	0.73	0.31	49,49,49,49	0
84	MG	CM	1968	1/1	0.73	0.11	48,48,48,48	0
84	MG	AS	3820	1/1	0.73	0.20	50,50,50,50	0
84	MG	AS	3494	1/1	0.73	0.33	50,50,50,50	0
84	MG	B	1861	1/1	0.74	0.26	76,76,76,76	0
84	MG	AS	3506	1/1	0.74	0.23	49,49,49,49	0
84	MG	1	3758	1/1	0.74	0.44	60,60,60,60	0
84	MG	B	1903	1/1	0.74	0.24	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3779	1/1	0.74	0.23	44,44,44,44	0
84	MG	1	3609	1/1	0.74	0.13	48,48,48,48	0
84	MG	B	1915	1/1	0.74	0.27	62,62,62,62	0
84	MG	1	3686	1/1	0.74	0.20	57,57,57,57	0
84	MG	CM	1837	1/1	0.74	0.39	53,53,53,53	0
84	MG	B	1924	1/1	0.74	0.19	50,50,50,50	0
84	MG	R	201	1/1	0.74	0.27	78,78,78,78	0
84	MG	1	4020	1/1	0.74	0.16	57,57,57,57	0
84	MG	AS	3666	1/1	0.74	0.23	47,47,47,47	0
84	MG	AS	3715	1/1	0.74	0.14	49,49,49,49	0
84	MG	1	3757	1/1	0.74	0.36	69,69,69,69	0
84	MG	B	1803	1/1	0.75	0.41	56,56,56,56	0
84	MG	CM	1855	1/1	0.75	0.34	65,65,65,65	0
84	MG	1	3563	1/1	0.75	0.22	70,70,70,70	0
84	MG	B	1947	1/1	0.75	0.28	83,83,83,83	0
84	MG	AS	3534	1/1	0.75	0.24	67,67,67,67	0
84	MG	BZ	203	1/1	0.75	0.25	86,86,86,86	0
84	MG	CM	1978	1/1	0.75	0.10	42,42,42,42	0
84	MG	DB	202	1/1	0.75	0.33	83,83,83,83	0
84	MG	AS	3455	1/1	0.75	0.28	64,64,64,64	0
84	MG	1	3558	1/1	0.75	0.30	61,61,61,61	0
84	MG	1	3694	1/1	0.76	0.32	29,29,29,29	0
84	MG	B	1815	1/1	0.76	0.32	68,68,68,68	0
84	MG	1	3906	1/1	0.76	0.28	65,65,65,65	0
84	MG	1	3997	1/1	0.76	0.17	58,58,58,58	0
84	MG	AS	3671	1/1	0.76	0.32	55,55,55,55	0
84	MG	CM	1828	1/1	0.76	0.54	43,43,43,43	0
84	MG	CM	1836	1/1	0.76	0.31	59,59,59,59	0
84	MG	1	3720	1/1	0.76	0.29	97,97,97,97	0
84	MG	B	1839	1/1	0.76	0.33	68,68,68,68	0
84	MG	1	4029	1/1	0.76	0.16	46,46,46,46	0
84	MG	CM	1875	1/1	0.76	0.27	63,63,63,63	0
84	MG	CM	1876	1/1	0.76	0.23	63,63,63,63	0
84	MG	AS	3749	1/1	0.76	0.20	57,57,57,57	0
84	MG	B	1860	1/1	0.76	0.25	67,67,67,67	0
84	MG	1	3722	1/1	0.76	0.11	28,28,28,28	0
84	MG	AS	3829	1/1	0.76	0.20	43,43,43,43	0
84	MG	AT	208	1/1	0.76	0.25	57,57,57,57	0
84	MG	1	3670	1/1	0.76	0.14	57,57,57,57	0
84	MG	AU	205	1/1	0.76	0.23	44,44,44,44	0
84	MG	AS	3785	1/1	0.77	0.12	43,43,43,43	0
84	MG	AS	3479	1/1	0.77	0.32	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3491	1/1	0.77	0.25	50,50,50,50	0
84	MG	1	3829	1/1	0.77	0.21	51,51,51,51	0
84	MG	1	3633	1/1	0.77	0.29	48,48,48,48	0
84	MG	1	3751	1/1	0.77	0.18	61,61,61,61	0
84	MG	AS	3533	1/1	0.77	0.40	60,60,60,60	0
84	MG	B	1901	1/1	0.77	0.38	77,77,77,77	0
84	MG	B	1831	1/1	0.77	0.34	65,65,65,65	0
84	MG	1	3663	1/1	0.77	0.40	53,53,53,53	0
84	MG	AS	3733	1/1	0.77	0.16	53,53,53,53	0
84	MG	1	3422	1/1	0.77	0.34	46,46,46,46	0
84	MG	1	4010	1/1	0.77	0.14	41,41,41,41	0
84	MG	CM	1810	1/1	0.78	0.23	39,39,39,39	0
84	MG	B	1940	1/1	0.78	0.20	78,78,78,78	0
84	MG	1	3597	1/1	0.78	0.30	68,68,68,68	0
84	MG	1	3469	1/1	0.78	0.36	45,45,45,45	0
84	MG	1	4013	1/1	0.78	0.09	41,41,41,41	0
84	MG	AS	3816	1/1	0.78	0.30	48,48,48,48	0
84	MG	1	3843	1/1	0.78	0.24	53,53,53,53	0
84	MG	1	3660	1/1	0.78	0.33	35,35,35,35	0
84	MG	AT	207	1/1	0.78	0.33	59,59,59,59	0
84	MG	1	3925	1/1	0.78	0.11	49,49,49,49	0
84	MG	B	1978	1/1	0.78	0.25	51,51,51,51	0
84	MG	CM	1906	1/1	0.78	0.17	46,46,46,46	0
84	MG	CM	1919	1/1	0.78	0.26	49,49,49,49	0
84	MG	CM	1963	1/1	0.78	0.23	45,45,45,45	0
84	MG	1	3860	1/1	0.78	0.23	65,65,65,65	0
84	MG	AS	3706	1/1	0.78	0.18	46,46,46,46	0
84	MG	AS	3535	1/1	0.78	0.28	66,66,66,66	0
84	MG	3	208	1/1	0.78	0.26	70,70,70,70	0
84	MG	1	3786	1/1	0.78	0.18	69,69,69,69	0
84	MG	CL	302	1/1	0.79	0.45	72,72,72,72	0
84	MG	B	1938	1/1	0.79	0.25	47,47,47,47	0
84	MG	1	3498	1/1	0.79	0.32	39,39,39,39	0
84	MG	1	3512	1/1	0.79	0.34	58,58,58,58	0
84	MG	CM	1821	1/1	0.79	0.18	42,42,42,42	0
84	MG	B	1875	1/1	0.79	0.40	63,63,63,63	0
84	MG	B	1886	1/1	0.79	0.27	95,95,95,95	0
84	MG	B	1891	1/1	0.79	0.29	62,62,62,62	0
84	MG	B	1893	1/1	0.79	0.37	57,57,57,57	0
84	MG	AS	3589	1/1	0.79	0.19	51,51,51,51	0
84	MG	1	3680	1/1	0.79	0.14	40,40,40,40	0
84	MG	1	3892	1/1	0.79	0.23	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3942	1/1	0.79	0.17	47,47,47,47	0
84	MG	AT	206	1/1	0.79	0.36	42,42,42,42	0
84	MG	1	3982	1/1	0.79	0.19	43,43,43,43	0
84	MG	CM	1918	1/1	0.79	0.15	46,46,46,46	0
84	MG	3	215	1/1	0.79	0.23	65,65,65,65	0
84	MG	CM	1954	1/1	0.79	0.15	41,41,41,41	0
84	MG	4	201	1/1	0.79	0.31	54,54,54,54	0
84	MG	1	3586	1/1	0.79	0.43	60,60,60,60	0
84	MG	1	3688	1/1	0.79	0.25	57,57,57,57	0
84	MG	B	1849	1/1	0.79	0.15	56,56,56,56	0
84	MG	BZ	202	1/1	0.79	0.27	68,68,68,68	0
84	MG	1	3618	1/1	0.79	0.26	72,72,72,72	0
84	MG	1	3496	1/1	0.80	0.18	31,31,31,31	0
84	MG	AS	3827	1/1	0.80	0.11	44,44,44,44	0
84	MG	CM	1851	1/1	0.80	0.29	78,78,78,78	0
84	MG	AS	3503	1/1	0.80	0.40	53,53,53,53	0
84	MG	CM	1858	1/1	0.80	0.27	51,51,51,51	0
84	MG	CM	1861	1/1	0.80	0.18	51,51,51,51	0
84	MG	1	3404	1/1	0.80	0.38	38,38,38,38	0
84	MG	B	1873	1/1	0.80	0.30	62,62,62,62	0
84	MG	1	3517	1/1	0.80	0.35	60,60,60,60	0
84	MG	CM	1878	1/1	0.80	0.27	47,47,47,47	0
84	MG	a	201	1/1	0.80	0.29	86,86,86,86	0
84	MG	AS	3697	1/1	0.80	0.16	42,42,42,42	0
84	MG	CM	1889	1/1	0.80	0.36	47,47,47,47	0
84	MG	AS	3558	1/1	0.80	0.25	53,53,53,53	0
84	MG	CM	1916	1/1	0.80	0.25	48,48,48,48	0
84	MG	1	3696	1/1	0.80	0.16	200,200,200,200	0
84	MG	B	1887	1/1	0.80	0.27	76,76,76,76	0
84	MG	1	3735	1/1	0.80	0.24	53,53,53,53	0
84	MG	CM	1957	1/1	0.80	0.20	50,50,50,50	0
84	MG	AS	3742	1/1	0.80	0.24	42,42,42,42	0
84	MG	1	3876	1/1	0.80	0.16	46,46,46,46	0
84	MG	AS	3617	1/1	0.80	0.27	56,56,56,56	0
84	MG	AS	3622	1/1	0.80	0.41	68,68,68,68	0
84	MG	DJ	202	1/1	0.80	0.12	56,56,56,56	0
84	MG	1	3736	1/1	0.80	0.17	31,31,31,31	0
84	MG	AS	3499	1/1	0.80	0.25	59,59,59,59	0
84	MG	1	3583	1/1	0.81	0.13	56,56,56,56	0
84	MG	1	3963	1/1	0.81	0.22	48,48,48,48	0
84	MG	AS	3770	1/1	0.81	0.13	56,56,56,56	0
84	MG	1	4036	1/1	0.81	0.31	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3980	1/1	0.81	0.14	34,34,34,34	0
84	MG	1	3511	1/1	0.81	0.28	42,42,42,42	0
84	MG	CM	1866	1/1	0.81	0.22	73,73,73,73	0
84	MG	AS	3818	1/1	0.81	0.16	44,44,44,44	0
84	MG	B	1808	1/1	0.81	0.28	45,45,45,45	0
84	MG	3	211	1/1	0.81	0.39	58,58,58,58	0
84	MG	1	3923	1/1	0.81	0.13	56,56,56,56	0
84	MG	AS	3646	1/1	0.81	0.07	43,43,43,43	0
84	MG	1	3846	1/1	0.81	0.27	57,57,57,57	0
84	MG	AS	3658	1/1	0.81	0.25	59,59,59,59	0
84	MG	1	3444	1/1	0.81	0.39	57,57,57,57	0
84	MG	j	302	1/1	0.81	0.11	69,69,69,69	0
84	MG	B	1838	1/1	0.81	0.49	60,60,60,60	0
84	MG	1	3580	1/1	0.81	0.16	52,52,52,52	0
84	MG	BS	202	1/1	0.81	0.13	58,58,58,58	0
84	MG	B	1955	1/1	0.81	0.31	40,40,40,40	0
84	MG	B	1977	1/1	0.81	0.28	45,45,45,45	0
84	MG	1	4027	1/1	0.81	0.26	56,56,56,56	0
84	MG	AS	3725	1/1	0.81	0.21	45,45,45,45	0
84	MG	AS	3574	1/1	0.81	0.32	46,46,46,46	0
84	MG	AS	3585	1/1	0.81	0.26	52,52,52,52	0
85	ZN	AH	201	1/1	0.81	0.11	207,207,207,207	0
84	MG	AS	3741	1/1	0.81	0.09	53,53,53,53	0
84	MG	B	1851	1/1	0.81	0.22	61,61,61,61	0
84	MG	B	1956	1/1	0.82	0.31	46,46,46,46	0
84	MG	CM	1806	1/1	0.82	0.34	52,52,52,52	0
84	MG	1	3433	1/1	0.82	0.33	40,40,40,40	0
84	MG	AS	3539	1/1	0.82	0.32	54,54,54,54	0
84	MG	B	1804	1/1	0.82	0.35	61,61,61,61	0
84	MG	CM	1819	1/1	0.82	0.26	58,58,58,58	0
84	MG	AS	3732	1/1	0.82	0.28	51,51,51,51	0
84	MG	B	1864	1/1	0.82	0.30	70,70,70,70	0
84	MG	AS	3580	1/1	0.82	0.38	58,58,58,58	0
84	MG	3	217	1/1	0.82	0.12	42,42,42,42	0
84	MG	1	3914	1/1	0.82	0.32	59,59,59,59	0
84	MG	Z	201	1/1	0.82	0.20	48,48,48,48	0
84	MG	1	3523	1/1	0.82	0.45	51,51,51,51	0
84	MG	AS	3784	1/1	0.82	0.11	44,44,44,44	0
84	MG	c	202	1/1	0.82	0.19	63,63,63,63	0
84	MG	AS	3794	1/1	0.82	0.28	48,48,48,48	0
84	MG	AS	3803	1/1	0.82	0.47	52,52,52,52	0
84	MG	AS	3611	1/1	0.82	0.23	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	CM	1877	1/1	0.82	0.13	86,86,86,86	0
84	MG	AS	3419	1/1	0.82	0.65	47,47,47,47	0
84	MG	1	3979	1/1	0.82	0.19	45,45,45,45	0
84	MG	v	304	1/1	0.82	0.16	50,50,50,50	0
84	MG	AS	3825	1/1	0.82	0.17	45,45,45,45	0
84	MG	AS	3631	1/1	0.82	0.33	51,51,51,51	0
84	MG	AS	3468	1/1	0.82	0.23	51,51,51,51	0
84	MG	AT	203	1/1	0.82	0.24	63,63,63,63	0
84	MG	1	3673	1/1	0.82	0.17	46,46,46,46	0
84	MG	CM	1941	1/1	0.82	0.19	48,48,48,48	0
84	MG	1	3882	1/1	0.82	0.19	37,37,37,37	0
84	MG	1	3748	1/1	0.82	0.31	40,40,40,40	0
84	MG	AS	3498	1/1	0.82	0.30	57,57,57,57	0
84	MG	2	202	1/1	0.82	0.41	51,51,51,51	0
84	MG	AY	401	1/1	0.82	0.10	46,46,46,46	0
84	MG	DA	201	1/1	0.82	0.17	61,61,61,61	0
84	MG	1	3464	1/1	0.82	0.24	40,40,40,40	0
84	MG	DJ	201	1/1	0.82	0.15	53,53,53,53	0
84	MG	B	1912	1/1	0.82	0.34	58,58,58,58	0
84	MG	B	1954	1/1	0.82	0.15	52,52,52,52	0
85	ZN	CB	201	1/1	0.82	0.09	237,237,237,237	0
84	MG	AS	3683	1/1	0.82	0.23	43,43,43,43	0
84	MG	1	3930	1/1	0.82	0.23	59,59,59,59	0
84	MG	AS	3618	1/1	0.83	0.26	49,49,49,49	0
84	MG	AS	3751	1/1	0.83	0.13	39,39,39,39	0
84	MG	AS	3621	1/1	0.83	0.26	65,65,65,65	0
84	MG	o	306	1/1	0.83	0.18	40,40,40,40	0
84	MG	3	210	1/1	0.83	0.19	72,72,72,72	0
84	MG	AS	3789	1/1	0.83	0.16	40,40,40,40	0
84	MG	AS	3790	1/1	0.83	0.13	43,43,43,43	0
84	MG	B	1909	1/1	0.83	0.24	52,52,52,52	0
84	MG	AS	3797	1/1	0.83	0.26	49,49,49,49	0
84	MG	1	3529	1/1	0.83	0.42	53,53,53,53	0
84	MG	AS	3809	1/1	0.83	0.08	45,45,45,45	0
84	MG	1	3685	1/1	0.83	0.09	93,93,93,93	0
84	MG	CM	1873	1/1	0.83	0.20	56,56,56,56	0
84	MG	AS	3642	1/1	0.83	0.36	71,71,71,71	0
84	MG	AS	3644	1/1	0.83	0.30	56,56,56,56	0
84	MG	B	1866	1/1	0.83	0.29	66,66,66,66	0
84	MG	AS	3821	1/1	0.83	0.26	45,45,45,45	0
84	MG	B	1967	1/1	0.83	0.26	51,51,51,51	0
84	MG	B	1872	1/1	0.83	0.17	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3861	1/1	0.83	0.24	65,65,65,65	0
84	MG	1	3958	1/1	0.83	0.09	40,40,40,40	0
84	MG	AT	204	1/1	0.83	0.14	86,86,86,86	0
84	MG	B	1934	1/1	0.83	0.11	87,87,87,87	0
84	MG	AS	3669	1/1	0.83	0.15	71,71,71,71	0
84	MG	CM	1928	1/1	0.83	0.15	44,44,44,44	0
84	MG	Q	201	1/1	0.83	0.12	34,34,34,34	0
84	MG	AS	3679	1/1	0.83	0.28	45,45,45,45	0
84	MG	B	1882	1/1	0.83	0.36	57,57,57,57	0
84	MG	U	201	1/1	0.83	0.15	51,51,51,51	0
84	MG	Y	202	1/1	0.83	0.25	76,76,76,76	0
84	MG	8	201	1/1	0.83	0.25	50,50,50,50	0
84	MG	CN	301	1/1	0.83	0.34	67,67,67,67	0
84	MG	1	3698	1/1	0.83	0.23	37,37,37,37	0
84	MG	BV	201	1/1	0.83	0.10	48,48,48,48	0
84	MG	3	204	1/1	0.83	0.30	56,56,56,56	0
84	MG	AH	202	1/1	0.83	0.18	72,72,72,72	0
84	MG	AS	3442	1/1	0.83	0.27	38,38,38,38	0
85	ZN	d	101	1/1	0.83	0.10	251,251,251,251	0
84	MG	AS	3452	1/1	0.83	0.38	41,41,41,41	0
84	MG	1	3816	1/1	0.83	0.25	42,42,42,42	0
84	MG	B	1854	1/1	0.83	0.28	61,61,61,61	0
84	MG	1	3482	1/1	0.84	0.31	49,49,49,49	0
84	MG	AS	3428	1/1	0.84	0.28	36,36,36,36	0
84	MG	AS	3438	1/1	0.84	0.38	54,54,54,54	0
84	MG	AG	202	1/1	0.84	0.13	57,57,57,57	0
84	MG	1	3665	1/1	0.84	0.30	43,43,43,43	0
84	MG	CM	1845	1/1	0.84	0.12	31,31,31,31	0
84	MG	1	3814	1/1	0.84	0.17	47,47,47,47	0
84	MG	1	3543	1/1	0.84	0.18	41,41,41,41	0
84	MG	B	1805	1/1	0.84	0.43	54,54,54,54	0
84	MG	1	3821	1/1	0.84	0.20	39,39,39,39	0
84	MG	CM	1862	1/1	0.84	0.12	64,64,64,64	0
84	MG	AS	3487	1/1	0.84	0.33	39,39,39,39	0
84	MG	3	218	1/1	0.84	0.12	47,47,47,47	0
84	MG	AS	3653	1/1	0.84	0.36	41,41,41,41	0
84	MG	B	1953	1/1	0.84	0.10	48,48,48,48	0
84	MG	AS	3660	1/1	0.84	0.28	66,66,66,66	0
84	MG	1	3672	1/1	0.84	0.12	52,52,52,52	0
84	MG	4	208	1/1	0.84	0.17	38,38,38,38	0
84	MG	B	1829	1/1	0.84	0.27	53,53,53,53	0
84	MG	AS	3833	1/1	0.84	0.10	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3648	1/1	0.84	0.25	69,69,69,69	0
84	MG	B	1972	1/1	0.84	0.17	54,54,54,54	0
84	MG	AS	3672	1/1	0.84	0.10	47,47,47,47	0
84	MG	1	3655	1/1	0.84	0.15	58,58,58,58	0
84	MG	1	3656	1/1	0.84	0.34	59,59,59,59	0
84	MG	AT	209	1/1	0.84	0.32	47,47,47,47	0
84	MG	AS	3690	1/1	0.84	0.15	41,41,41,41	0
84	MG	CM	1942	1/1	0.84	0.15	46,46,46,46	0
84	MG	CM	1952	1/1	0.84	0.19	48,48,48,48	0
84	MG	B	1979	1/1	0.84	0.19	49,49,49,49	0
84	MG	B	1992	1/1	0.84	0.13	45,45,45,45	0
84	MG	CM	1961	1/1	0.84	0.13	46,46,46,46	0
84	MG	CM	1962	1/1	0.84	0.22	53,53,53,53	0
84	MG	1	3784	1/1	0.84	0.11	32,32,32,32	0
84	MG	1	4030	1/1	0.84	0.10	41,41,41,41	0
84	MG	1	3853	1/1	0.84	0.22	54,54,54,54	0
84	MG	B	1852	1/1	0.84	0.32	42,42,42,42	0
84	MG	CW	202	1/1	0.84	0.11	57,57,57,57	0
84	MG	1	3682	1/1	0.84	0.28	68,68,68,68	0
84	MG	1	3413	1/1	0.84	0.32	42,42,42,42	0
84	MG	1	3873	1/1	0.84	0.39	56,56,56,56	0
84	MG	CL	303	1/1	0.84	0.20	61,61,61,61	0
84	MG	9	201	1/1	0.84	0.35	65,65,65,65	0
84	MG	1	3662	1/1	0.84	0.30	54,54,54,54	0
84	MG	AR	401	1/1	0.84	0.22	69,69,69,69	0
84	MG	CM	1811	1/1	0.84	0.21	50,50,50,50	0
84	MG	AS	3765	1/1	0.84	0.12	44,44,44,44	0
84	MG	1	3781	1/1	0.85	0.26	48,48,48,48	0
84	MG	AS	3425	1/1	0.85	0.28	46,46,46,46	0
84	MG	AE	201	1/1	0.85	0.14	79,79,79,79	0
84	MG	AS	3431	1/1	0.85	0.37	52,52,52,52	0
84	MG	1	3782	1/1	0.85	0.26	30,30,30,30	0
84	MG	AF	202	1/1	0.85	0.12	55,55,55,55	0
84	MG	CL	304	1/1	0.85	0.09	54,54,54,54	0
84	MG	CM	1801	1/1	0.85	0.17	52,52,52,52	0
84	MG	CM	1804	1/1	0.85	0.36	40,40,40,40	0
84	MG	1	3480	1/1	0.85	0.35	36,36,36,36	0
84	MG	CM	1807	1/1	0.85	0.31	48,48,48,48	0
84	MG	B	1919	1/1	0.85	0.25	61,61,61,61	0
84	MG	B	1920	1/1	0.85	0.24	48,48,48,48	0
84	MG	AS	3688	1/1	0.85	0.20	39,39,39,39	0
84	MG	1	4017	1/1	0.85	0.12	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3604	1/1	0.85	0.28	33,33,33,33	0
84	MG	1	3471	1/1	0.85	0.24	24,24,24,24	0
84	MG	AS	3712	1/1	0.85	0.21	45,45,45,45	0
84	MG	CM	1835	1/1	0.85	0.29	58,58,58,58	0
84	MG	1	3880	1/1	0.85	0.09	38,38,38,38	0
84	MG	1	3797	1/1	0.85	0.29	51,51,51,51	0
84	MG	1	3799	1/1	0.85	0.33	69,69,69,69	0
84	MG	CM	1850	1/1	0.85	0.23	44,44,44,44	0
84	MG	1	4035	1/1	0.85	0.16	53,53,53,53	0
84	MG	1	3897	1/1	0.85	0.14	72,72,72,72	0
84	MG	AS	3502	1/1	0.85	0.21	45,45,45,45	0
84	MG	1	3898	1/1	0.85	0.16	40,40,40,40	0
84	MG	1	3522	1/1	0.85	0.31	37,37,37,37	0
84	MG	1	3622	1/1	0.85	0.30	44,44,44,44	0
84	MG	1	3807	1/1	0.85	0.27	45,45,45,45	0
84	MG	AS	3753	1/1	0.85	0.07	55,55,55,55	0
84	MG	1	3745	1/1	0.85	0.31	38,38,38,38	0
84	MG	3	213	1/1	0.85	0.31	49,49,49,49	0
84	MG	AS	3775	1/1	0.85	0.25	45,45,45,45	0
84	MG	1	3809	1/1	0.85	0.28	47,47,47,47	0
84	MG	AS	3568	1/1	0.85	0.26	42,42,42,42	0
84	MG	1	3664	1/1	0.85	0.24	44,44,44,44	0
84	MG	AS	3578	1/1	0.85	0.26	45,45,45,45	0
84	MG	CM	1895	1/1	0.85	0.32	52,52,52,52	0
84	MG	3	216	1/1	0.85	0.25	65,65,65,65	0
84	MG	CM	1909	1/1	0.85	0.21	52,52,52,52	0
84	MG	CM	1911	1/1	0.85	0.24	47,47,47,47	0
84	MG	1	3690	1/1	0.85	0.17	86,86,86,86	0
84	MG	B	1958	1/1	0.85	0.10	43,43,43,43	0
84	MG	1	3926	1/1	0.85	0.47	64,64,64,64	0
84	MG	1	3475	1/1	0.85	0.21	26,26,26,26	0
84	MG	1	3822	1/1	0.85	0.18	46,46,46,46	0
84	MG	1	3933	1/1	0.85	0.36	51,51,51,51	0
84	MG	AS	3612	1/1	0.85	0.25	46,46,46,46	0
84	MG	1	3568	1/1	0.85	0.16	46,46,46,46	0
84	MG	B	1981	1/1	0.85	0.15	46,46,46,46	0
84	MG	AS	3619	1/1	0.85	0.33	57,57,57,57	0
84	MG	1	3643	1/1	0.85	0.32	34,34,34,34	0
84	MG	r	303	1/1	0.85	0.10	54,54,54,54	0
84	MG	s	201	1/1	0.85	0.24	46,46,46,46	0
84	MG	K	301	1/1	0.85	0.16	72,72,72,72	0
84	MG	1	3949	1/1	0.85	0.07	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	CW	201	1/1	0.85	0.10	41,41,41,41	0
84	MG	1	3839	1/1	0.85	0.28	40,40,40,40	0
84	MG	AS	3637	1/1	0.85	0.28	44,44,44,44	0
84	MG	1	3716	1/1	0.85	0.13	51,51,51,51	0
84	MG	1	3964	1/1	0.85	0.16	44,44,44,44	0
84	MG	AU	203	1/1	0.85	0.28	48,48,48,48	0
84	MG	1	3778	1/1	0.85	0.17	39,39,39,39	0
85	ZN	AP	201	1/1	0.85	0.11	226,226,226,226	0
84	MG	B	1899	1/1	0.85	0.22	60,60,60,60	0
84	MG	1	3594	1/1	0.85	0.16	37,37,37,37	0
84	MG	BH	201	1/1	0.85	0.17	50,50,50,50	0
84	MG	1	3780	1/1	0.85	0.19	40,40,40,40	0
84	MG	1	3750	1/1	0.86	0.13	49,49,49,49	0
84	MG	1	3432	1/1	0.86	0.12	54,54,54,54	0
84	MG	1	3753	1/1	0.86	0.18	33,33,33,33	0
84	MG	AT	213	1/1	0.86	0.28	44,44,44,44	0
84	MG	AS	3729	1/1	0.86	0.28	48,48,48,48	0
84	MG	1	3508	1/1	0.86	0.22	43,43,43,43	0
84	MG	Q	202	1/1	0.86	0.27	65,65,65,65	0
84	MG	CM	1880	1/1	0.86	0.14	44,44,44,44	0
84	MG	BB	305	1/1	0.86	0.39	64,64,64,64	0
84	MG	AS	3734	1/1	0.86	0.22	43,43,43,43	0
84	MG	AS	3627	1/1	0.86	0.17	54,54,54,54	0
84	MG	1	3704	1/1	0.86	0.48	42,42,42,42	0
84	MG	1	3886	1/1	0.86	0.12	42,42,42,42	0
84	MG	1	4016	1/1	0.86	0.10	39,39,39,39	0
84	MG	CM	1913	1/1	0.86	0.07	48,48,48,48	0
84	MG	AS	3512	1/1	0.86	0.33	64,64,64,64	0
84	MG	CM	1917	1/1	0.86	0.16	55,55,55,55	0
84	MG	AS	3528	1/1	0.86	0.30	55,55,55,55	0
84	MG	AS	3764	1/1	0.86	0.11	44,44,44,44	0
84	MG	CM	1923	1/1	0.86	0.20	53,53,53,53	0
84	MG	AS	3638	1/1	0.86	0.12	39,39,39,39	0
84	MG	CM	1929	1/1	0.86	0.08	52,52,52,52	0
84	MG	1	3928	1/1	0.86	0.09	55,55,55,55	0
84	MG	1	3582	1/1	0.86	0.23	58,58,58,58	0
84	MG	1	3487	1/1	0.86	0.12	52,52,52,52	0
84	MG	AS	3536	1/1	0.86	0.30	42,42,42,42	0
84	MG	1	3815	1/1	0.86	0.23	72,72,72,72	0
84	MG	1	3859	1/1	0.86	0.10	43,43,43,43	0
84	MG	1	3794	1/1	0.86	0.18	42,42,42,42	0
84	MG	B	1966	1/1	0.86	0.21	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	4033	1/1	0.86	0.22	42,42,42,42	0
84	MG	CM	1970	1/1	0.86	0.13	43,43,43,43	0
84	MG	CM	1974	1/1	0.86	0.09	43,43,43,43	0
84	MG	CM	1975	1/1	0.86	0.23	48,48,48,48	0
84	MG	AS	3579	1/1	0.86	0.25	53,53,53,53	0
84	MG	1	3954	1/1	0.86	0.16	43,43,43,43	0
84	MG	CQ	303	1/1	0.86	0.08	39,39,39,39	0
84	MG	1	3912	1/1	0.86	0.16	36,36,36,36	0
84	MG	1	3442	1/1	0.86	0.25	63,63,63,63	0
84	MG	1	3917	1/1	0.86	0.15	70,70,70,70	0
84	MG	DB	201	1/1	0.86	0.20	62,62,62,62	0
84	MG	AS	3682	1/1	0.86	0.22	42,42,42,42	0
84	MG	DB	203	1/1	0.86	0.30	58,58,58,58	0
84	MG	B	1884	1/1	0.86	0.12	89,89,89,89	0
84	MG	B	1990	1/1	0.86	0.12	54,54,54,54	0
84	MG	AS	3598	1/1	0.86	0.17	41,41,41,41	0
84	MG	AS	3601	1/1	0.86	0.25	49,49,49,49	0
84	MG	AS	3698	1/1	0.86	0.15	44,44,44,44	0
84	MG	AS	3702	1/1	0.86	0.47	50,50,50,50	0
84	MG	B	1828	1/1	0.86	0.20	45,45,45,45	0
84	MG	D	302	1/1	0.86	0.10	35,35,35,35	0
84	MG	AS	3551	1/1	0.87	0.28	43,43,43,43	0
84	MG	AS	3710	1/1	0.87	0.26	48,48,48,48	0
84	MG	AS	3555	1/1	0.87	0.21	38,38,38,38	0
84	MG	CM	1809	1/1	0.87	0.28	102,102,102,102	0
84	MG	B	1904	1/1	0.87	0.10	50,50,50,50	0
84	MG	AS	3718	1/1	0.87	0.17	43,43,43,43	0
84	MG	1	3530	1/1	0.87	0.27	37,37,37,37	0
84	MG	AS	3726	1/1	0.87	0.27	50,50,50,50	0
84	MG	4	202	1/1	0.87	0.31	57,57,57,57	0
84	MG	B	1910	1/1	0.87	0.15	50,50,50,50	0
84	MG	AS	3730	1/1	0.87	0.18	42,42,42,42	0
84	MG	4	205	1/1	0.87	0.63	48,48,48,48	0
84	MG	1	3924	1/1	0.87	0.12	62,62,62,62	0
84	MG	CM	1840	1/1	0.87	0.43	56,56,56,56	0
84	MG	AS	3583	1/1	0.87	0.20	46,46,46,46	0
84	MG	AS	3738	1/1	0.87	0.09	54,54,54,54	0
84	MG	4	210	1/1	0.87	0.27	38,38,38,38	0
84	MG	4	211	1/1	0.87	0.15	63,63,63,63	0
84	MG	1	3466	1/1	0.87	0.20	37,37,37,37	0
84	MG	1	3555	1/1	0.87	0.23	60,60,60,60	0
84	MG	AS	3595	1/1	0.87	0.20	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	o	305	1/1	0.87	0.15	42,42,42,42	0
84	MG	AS	3760	1/1	0.87	0.08	36,36,36,36	0
84	MG	1	3448	1/1	0.87	0.28	36,36,36,36	0
84	MG	AS	3600	1/1	0.87	0.24	50,50,50,50	0
84	MG	B	1930	1/1	0.87	0.17	64,64,64,64	0
84	MG	AS	3609	1/1	0.87	0.15	44,44,44,44	0
84	MG	g	101	1/1	0.87	0.53	87,87,87,87	0
84	MG	B	1932	1/1	0.87	0.14	36,36,36,36	0
84	MG	AS	3417	1/1	0.87	0.29	36,36,36,36	0
84	MG	CM	1883	1/1	0.87	0.26	42,42,42,42	0
84	MG	1	4024	1/1	0.87	0.25	44,44,44,44	0
84	MG	1	3652	1/1	0.87	0.30	67,67,67,67	0
84	MG	v	303	1/1	0.87	0.20	49,49,49,49	0
84	MG	CM	1900	1/1	0.87	0.26	47,47,47,47	0
84	MG	1	3445	1/1	0.87	0.33	31,31,31,31	0
84	MG	AS	3804	1/1	0.87	0.15	67,67,67,67	0
84	MG	AS	3623	1/1	0.87	0.19	51,51,51,51	0
84	MG	1	3931	1/1	0.87	0.19	61,61,61,61	0
84	MG	1	3783	1/1	0.87	0.15	59,59,59,59	0
84	MG	1	3825	1/1	0.87	0.33	48,48,48,48	0
84	MG	1	3737	1/1	0.87	0.40	24,24,24,24	0
84	MG	AS	3456	1/1	0.87	0.19	58,58,58,58	0
84	MG	B	1867	1/1	0.87	0.22	90,90,90,90	0
84	MG	AS	3826	1/1	0.87	0.15	39,39,39,39	0
84	MG	1	3525	1/1	0.87	0.13	55,55,55,55	0
84	MG	CM	1940	1/1	0.87	0.14	46,46,46,46	0
84	MG	AS	3470	1/1	0.87	0.26	46,46,46,46	0
84	MG	AS	3643	1/1	0.87	0.17	61,61,61,61	0
84	MG	CM	1950	1/1	0.87	0.06	40,40,40,40	0
84	MG	1	3657	1/1	0.87	0.27	54,54,54,54	0
84	MG	AS	3645	1/1	0.87	0.19	50,50,50,50	0
84	MG	B	1951	1/1	0.87	0.09	49,49,49,49	0
84	MG	CM	1958	1/1	0.87	0.10	59,59,59,59	0
84	MG	1	3574	1/1	0.87	0.10	41,41,41,41	0
84	MG	1	3960	1/1	0.87	0.10	43,43,43,43	0
84	MG	1	3911	1/1	0.87	0.19	36,36,36,36	0
84	MG	CM	1966	1/1	0.87	0.18	54,54,54,54	0
84	MG	1	3608	1/1	0.87	0.14	71,71,71,71	0
84	MG	1	3978	1/1	0.87	0.08	36,36,36,36	0
84	MG	1	3575	1/1	0.87	0.23	49,49,49,49	0
84	MG	AU	204	1/1	0.87	0.12	43,43,43,43	0
84	MG	B	1892	1/1	0.87	0.15	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3612	1/1	0.87	0.41	49,49,49,49	0
84	MG	AS	3511	1/1	0.87	0.24	48,48,48,48	0
84	MG	BE	303	1/1	0.87	0.24	52,52,52,52	0
84	MG	1	3528	1/1	0.87	0.19	52,52,52,52	0
84	MG	AS	3676	1/1	0.87	0.27	35,35,35,35	0
84	MG	1	3989	1/1	0.87	0.08	35,35,35,35	0
84	MG	BO	201	1/1	0.87	0.11	48,48,48,48	0
84	MG	AS	3681	1/1	0.87	0.12	33,33,33,33	0
84	MG	DG	201	1/1	0.87	0.18	77,77,77,77	0
84	MG	1	3503	1/1	0.87	0.22	49,49,49,49	0
84	MG	B	1902	1/1	0.87	0.16	63,63,63,63	0
84	MG	B	1985	1/1	0.87	0.08	54,54,54,54	0
84	MG	B	1986	1/1	0.87	0.11	44,44,44,44	0
84	MG	B	1809	1/1	0.87	0.28	42,42,42,42	0
84	MG	AS	3542	1/1	0.87	0.38	56,56,56,56	0
84	MG	AS	3548	1/1	0.87	0.26	42,42,42,42	0
84	MG	AS	3705	1/1	0.87	0.15	48,48,48,48	0
84	MG	B	1862	1/1	0.88	0.24	54,54,54,54	0
84	MG	y	203	1/1	0.88	0.25	44,44,44,44	0
84	MG	AS	3762	1/1	0.88	0.23	42,42,42,42	0
84	MG	1	3894	1/1	0.88	0.23	73,73,73,73	0
84	MG	1	3419	1/1	0.88	0.24	18,18,18,18	0
84	MG	CM	1848	1/1	0.88	0.22	39,39,39,39	0
84	MG	AS	3626	1/1	0.88	0.12	45,45,45,45	0
84	MG	B	1868	1/1	0.88	0.20	70,70,70,70	0
84	MG	1	3412	1/1	0.88	0.30	49,49,49,49	0
84	MG	AS	3630	1/1	0.88	0.12	59,59,59,59	0
84	MG	AS	3476	1/1	0.88	0.22	33,33,33,33	0
84	MG	AS	3633	1/1	0.88	0.37	84,84,84,84	0
84	MG	1	3902	1/1	0.88	0.10	57,57,57,57	0
84	MG	CM	1869	1/1	0.88	0.15	46,46,46,46	0
84	MG	AA	201	1/1	0.88	0.13	57,57,57,57	0
84	MG	B	1877	1/1	0.88	0.27	62,62,62,62	0
84	MG	AS	3492	1/1	0.88	0.39	56,56,56,56	0
84	MG	AS	3805	1/1	0.88	0.22	45,45,45,45	0
84	MG	B	1879	1/1	0.88	0.23	42,42,42,42	0
84	MG	AB	202	1/1	0.88	0.19	53,53,53,53	0
84	MG	B	1961	1/1	0.88	0.10	54,54,54,54	0
84	MG	AS	3500	1/1	0.88	0.26	50,50,50,50	0
84	MG	1	3581	1/1	0.88	0.26	45,45,45,45	0
84	MG	1	3678	1/1	0.88	0.11	55,55,55,55	0
84	MG	1	3971	1/1	0.88	0.07	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3974	1/1	0.88	0.10	43,43,43,43	0
84	MG	1	3654	1/1	0.88	0.21	52,52,52,52	0
84	MG	AS	3828	1/1	0.88	0.11	47,47,47,47	0
84	MG	1	3681	1/1	0.88	0.08	45,45,45,45	0
84	MG	AS	3832	1/1	0.88	0.15	39,39,39,39	0
84	MG	CM	1912	1/1	0.88	0.10	44,44,44,44	0
84	MG	B	1980	1/1	0.88	0.11	49,49,49,49	0
84	MG	B	1897	1/1	0.88	0.24	47,47,47,47	0
84	MG	AP	203	1/1	0.88	0.35	74,74,74,74	0
84	MG	1	3785	1/1	0.88	0.23	53,53,53,53	0
84	MG	1	3426	1/1	0.88	0.30	22,22,22,22	0
84	MG	1	3564	1/1	0.88	0.44	54,54,54,54	0
84	MG	CM	1924	1/1	0.88	0.17	53,53,53,53	0
84	MG	1	3567	1/1	0.88	0.17	41,41,41,41	0
84	MG	AS	3547	1/1	0.88	0.19	41,41,41,41	0
84	MG	E	301	1/1	0.88	0.07	48,48,48,48	0
84	MG	AS	3550	1/1	0.88	0.28	35,35,35,35	0
84	MG	1	4003	1/1	0.88	0.11	48,48,48,48	0
84	MG	CM	1949	1/1	0.88	0.10	52,52,52,52	0
84	MG	4	207	1/1	0.88	0.24	43,43,43,43	0
84	MG	AS	3694	1/1	0.88	0.13	54,54,54,54	0
84	MG	1	3795	1/1	0.88	0.15	40,40,40,40	0
84	MG	1	3687	1/1	0.88	0.17	43,43,43,43	0
84	MG	B	1826	1/1	0.88	0.26	47,47,47,47	0
84	MG	B	1827	1/1	0.88	0.20	58,58,58,58	0
84	MG	BI	301	1/1	0.88	0.09	45,45,45,45	0
84	MG	1	3585	1/1	0.88	0.10	57,57,57,57	0
84	MG	1	3689	1/1	0.88	0.12	42,42,42,42	0
84	MG	AS	3582	1/1	0.88	0.33	47,47,47,47	0
84	MG	k	401	1/1	0.88	0.14	65,65,65,65	0
84	MG	CM	1973	1/1	0.88	0.17	45,45,45,45	0
84	MG	1	4019	1/1	0.88	0.21	42,42,42,42	0
84	MG	1	3431	1/1	0.88	0.14	53,53,53,53	0
84	MG	CM	1976	1/1	0.88	0.21	55,55,55,55	0
84	MG	CL	301	1/1	0.88	0.14	49,49,49,49	0
84	MG	CM	1981	1/1	0.88	0.23	45,45,45,45	0
84	MG	1	3802	1/1	0.88	0.20	75,75,75,75	0
84	MG	B	1840	1/1	0.88	0.21	37,37,37,37	0
84	MG	1	3589	1/1	0.88	0.21	33,33,33,33	0
84	MG	1	3632	1/1	0.88	0.11	42,42,42,42	0
84	MG	u	202	1/1	0.88	0.09	47,47,47,47	0
84	MG	AS	3426	1/1	0.88	0.21	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3697	1/1	0.88	0.12	61,61,61,61	0
84	MG	1	3524	1/1	0.88	0.38	50,50,50,50	0
84	MG	AS	3437	1/1	0.88	0.42	54,54,54,54	0
84	MG	1	3640	1/1	0.88	0.12	59,59,59,59	0
84	MG	AS	3743	1/1	0.88	0.08	47,47,47,47	0
84	MG	AS	3614	1/1	0.88	0.15	46,46,46,46	0
84	MG	AS	3439	1/1	0.88	0.35	44,44,44,44	0
84	MG	1	3944	1/1	0.88	0.09	39,39,39,39	0
84	MG	CM	1823	1/1	0.88	0.17	49,49,49,49	0
84	MG	AS	3752	1/1	0.88	0.21	47,47,47,47	0
84	MG	CM	1834	1/1	0.88	0.32	43,43,43,43	0
84	MG	AS	3739	1/1	0.89	0.06	43,43,43,43	0
84	MG	AS	3599	1/1	0.89	0.20	48,48,48,48	0
84	MG	CM	1822	1/1	0.89	0.18	47,47,47,47	0
84	MG	AS	3405	1/1	0.89	0.28	34,34,34,34	0
84	MG	CM	1824	1/1	0.89	0.13	48,48,48,48	0
84	MG	1	3446	1/1	0.89	0.15	29,29,29,29	0
84	MG	AS	3745	1/1	0.89	0.08	62,62,62,62	0
84	MG	1	3934	1/1	0.89	0.10	51,51,51,51	0
84	MG	AS	3748	1/1	0.89	0.14	36,36,36,36	0
84	MG	1	3733	1/1	0.89	0.23	52,52,52,52	0
84	MG	CM	1839	1/1	0.89	0.20	42,42,42,42	0
84	MG	1	3875	1/1	0.89	0.29	52,52,52,52	0
84	MG	1	3675	1/1	0.89	0.17	54,54,54,54	0
84	MG	1	3545	1/1	0.89	0.40	46,46,46,46	0
84	MG	AS	3754	1/1	0.89	0.15	40,40,40,40	0
84	MG	1	3881	1/1	0.89	0.20	44,44,44,44	0
84	MG	CM	1853	1/1	0.89	0.11	48,48,48,48	0
84	MG	CM	1854	1/1	0.89	0.10	37,37,37,37	0
84	MG	B	1822	1/1	0.89	0.30	47,47,47,47	0
84	MG	CM	1856	1/1	0.89	0.30	54,54,54,54	0
84	MG	1	3550	1/1	0.89	0.17	51,51,51,51	0
84	MG	B	1825	1/1	0.89	0.26	47,47,47,47	0
84	MG	1	3601	1/1	0.89	0.25	51,51,51,51	0
84	MG	1	3647	1/1	0.89	0.23	48,48,48,48	0
84	MG	1	3602	1/1	0.89	0.10	53,53,53,53	0
84	MG	1	3967	1/1	0.89	0.07	51,51,51,51	0
84	MG	AS	3461	1/1	0.89	0.27	33,33,33,33	0
84	MG	AS	3463	1/1	0.89	0.13	54,54,54,54	0
84	MG	AS	3792	1/1	0.89	0.10	64,64,64,64	0
84	MG	1	3968	1/1	0.89	0.10	45,45,45,45	0
84	MG	1	3896	1/1	0.89	0.14	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3799	1/1	0.89	0.08	44,44,44,44	0
84	MG	AS	3635	1/1	0.89	0.13	36,36,36,36	0
84	MG	1	3684	1/1	0.89	0.33	78,78,78,78	0
84	MG	1	3438	1/1	0.89	0.21	34,34,34,34	0
84	MG	1	3901	1/1	0.89	0.17	51,51,51,51	0
84	MG	1	3653	1/1	0.89	0.21	48,48,48,48	0
84	MG	4	212	1/1	0.89	0.16	44,44,44,44	0
84	MG	j	301	1/1	0.89	0.16	35,35,35,35	0
84	MG	1	3607	1/1	0.89	0.23	54,54,54,54	0
84	MG	1	3984	1/1	0.89	0.27	53,53,53,53	0
84	MG	k	403	1/1	0.89	0.20	56,56,56,56	0
84	MG	1	3985	1/1	0.89	0.09	34,34,34,34	0
84	MG	AS	3655	1/1	0.89	0.12	46,46,46,46	0
84	MG	1	3987	1/1	0.89	0.24	44,44,44,44	0
84	MG	1	3908	1/1	0.89	0.20	43,43,43,43	0
84	MG	B	1962	1/1	0.89	0.10	46,46,46,46	0
84	MG	CM	1920	1/1	0.89	0.08	44,44,44,44	0
84	MG	1	3994	1/1	0.89	0.19	37,37,37,37	0
84	MG	1	3557	1/1	0.89	0.25	54,54,54,54	0
84	MG	1	4002	1/1	0.89	0.13	39,39,39,39	0
84	MG	AS	3530	1/1	0.89	0.24	38,38,38,38	0
84	MG	v	302	1/1	0.89	0.21	68,68,68,68	0
84	MG	AS	3674	1/1	0.89	0.34	65,65,65,65	0
84	MG	1	3416	1/1	0.89	0.22	46,46,46,46	0
84	MG	CM	1948	1/1	0.89	0.12	58,58,58,58	0
84	MG	1	4004	1/1	0.89	0.10	48,48,48,48	0
84	MG	AT	211	1/1	0.89	0.09	44,44,44,44	0
84	MG	1	3411	1/1	0.89	0.36	32,32,32,32	0
84	MG	1	3693	1/1	0.89	0.14	47,47,47,47	0
84	MG	B	1880	1/1	0.89	0.27	47,47,47,47	0
84	MG	AS	3685	1/1	0.89	0.14	44,44,44,44	0
84	MG	AU	208	1/1	0.89	0.09	42,42,42,42	0
84	MG	AS	3686	1/1	0.89	0.23	38,38,38,38	0
84	MG	AS	3544	1/1	0.89	0.12	48,48,48,48	0
84	MG	CM	1965	1/1	0.89	0.19	53,53,53,53	0
84	MG	BE	302	1/1	0.89	0.23	36,36,36,36	0
84	MG	1	3915	1/1	0.89	0.17	30,30,30,30	0
84	MG	z	201	1/1	0.89	0.15	74,74,74,74	0
84	MG	0	202	1/1	0.89	0.17	59,59,59,59	0
84	MG	B	1993	1/1	0.89	0.17	42,42,42,42	0
84	MG	1	3659	1/1	0.89	0.26	41,41,41,41	0
84	MG	AS	3704	1/1	0.89	0.13	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	BS	201	1/1	0.89	0.10	49,49,49,49	0
84	MG	1	3614	1/1	0.89	0.15	78,78,78,78	0
84	MG	CM	1983	1/1	0.89	0.27	51,51,51,51	0
84	MG	1	3841	1/1	0.89	0.23	42,42,42,42	0
84	MG	AS	3709	1/1	0.89	0.24	43,43,43,43	0
84	MG	1	4021	1/1	0.89	0.08	47,47,47,47	0
84	MG	1	4022	1/1	0.89	0.06	40,40,40,40	0
84	MG	1	3616	1/1	0.89	0.28	26,26,26,26	0
84	MG	1	3486	1/1	0.89	0.35	37,37,37,37	0
84	MG	AS	3719	1/1	0.89	0.17	42,42,42,42	0
84	MG	1	3467	1/1	0.89	0.34	43,43,43,43	0
84	MG	1	3624	1/1	0.89	0.19	55,55,55,55	0
84	MG	1	3669	1/1	0.89	0.27	42,42,42,42	0
84	MG	1	3427	1/1	0.89	0.28	37,37,37,37	0
84	MG	1	3629	1/1	0.89	0.26	32,32,32,32	0
84	MG	B	1908	1/1	0.89	0.39	53,53,53,53	0
84	MG	1	3862	1/1	0.89	0.17	58,58,58,58	0
84	MG	B	1802	1/1	0.89	0.35	34,34,34,34	0
84	MG	CM	1812	1/1	0.89	0.13	44,44,44,44	0
84	MG	AS	3404	1/1	0.89	0.44	34,34,34,34	0
84	MG	B	1916	1/1	0.90	0.09	58,58,58,58	0
84	MG	B	1917	1/1	0.90	0.33	53,53,53,53	0
84	MG	1	3877	1/1	0.90	0.35	63,63,63,63	0
84	MG	1	3879	1/1	0.90	0.14	41,41,41,41	0
84	MG	1	3499	1/1	0.90	0.26	37,37,37,37	0
84	MG	CM	1826	1/1	0.90	0.10	47,47,47,47	0
84	MG	CM	1827	1/1	0.90	0.21	51,51,51,51	0
84	MG	1	3729	1/1	0.90	0.33	43,43,43,43	0
84	MG	CM	1833	1/1	0.90	0.25	49,49,49,49	0
84	MG	1	3969	1/1	0.90	0.08	43,43,43,43	0
84	MG	1	3526	1/1	0.90	0.25	54,54,54,54	0
84	MG	AS	3440	1/1	0.90	0.20	28,28,28,28	0
84	MG	1	3734	1/1	0.90	0.38	54,54,54,54	0
84	MG	AS	3758	1/1	0.90	0.10	57,57,57,57	0
84	MG	AS	3446	1/1	0.90	0.23	36,36,36,36	0
84	MG	CM	1842	1/1	0.90	0.14	52,52,52,52	0
84	MG	B	1933	1/1	0.90	0.19	70,70,70,70	0
84	MG	1	3976	1/1	0.90	0.07	40,40,40,40	0
84	MG	1	3500	1/1	0.90	0.19	36,36,36,36	0
84	MG	AS	3769	1/1	0.90	0.17	47,47,47,47	0
84	MG	CM	1852	1/1	0.90	0.20	35,35,35,35	0
84	MG	B	1834	1/1	0.90	0.16	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3772	1/1	0.90	0.22	46,46,46,46	0
84	MG	1	3650	1/1	0.90	0.39	43,43,43,43	0
84	MG	AS	3778	1/1	0.90	0.09	50,50,50,50	0
84	MG	1	3606	1/1	0.90	0.21	52,52,52,52	0
84	MG	AS	3467	1/1	0.90	0.27	68,68,68,68	0
84	MG	AS	3788	1/1	0.90	0.13	49,49,49,49	0
84	MG	1	3803	1/1	0.90	0.17	40,40,40,40	0
84	MG	1	3738	1/1	0.90	0.22	35,35,35,35	0
84	MG	B	1843	1/1	0.90	0.29	58,58,58,58	0
84	MG	B	1845	1/1	0.90	0.10	49,49,49,49	0
84	MG	AS	3484	1/1	0.90	0.26	40,40,40,40	0
84	MG	1	3900	1/1	0.90	0.21	53,53,53,53	0
84	MG	1	3743	1/1	0.90	0.17	32,32,32,32	0
84	MG	o	302	1/1	0.90	0.24	34,34,34,34	0
84	MG	1	3477	1/1	0.90	0.39	42,42,42,42	0
84	MG	AS	3807	1/1	0.90	0.05	42,42,42,42	0
84	MG	AS	3808	1/1	0.90	0.07	50,50,50,50	0
84	MG	1	3993	1/1	0.90	0.12	40,40,40,40	0
84	MG	1	3434	1/1	0.90	0.25	23,23,23,23	0
84	MG	CM	1890	1/1	0.90	0.29	34,34,34,34	0
84	MG	1	3542	1/1	0.90	0.33	40,40,40,40	0
84	MG	1	3435	1/1	0.90	0.23	27,27,27,27	0
84	MG	AS	3819	1/1	0.90	0.09	36,36,36,36	0
84	MG	1	3483	1/1	0.90	0.17	37,37,37,37	0
84	MG	1	3418	1/1	0.90	0.24	31,31,31,31	0
84	MG	1	3514	1/1	0.90	0.23	26,26,26,26	0
84	MG	AS	3509	1/1	0.90	0.23	37,37,37,37	0
84	MG	CM	1915	1/1	0.90	0.30	34,34,34,34	0
84	MG	1	3756	1/1	0.90	0.19	47,47,47,47	0
84	MG	B	1870	1/1	0.90	0.21	50,50,50,50	0
84	MG	AS	3514	1/1	0.90	0.26	33,33,33,33	0
84	MG	AS	3670	1/1	0.90	0.12	42,42,42,42	0
84	MG	1	3916	1/1	0.90	0.20	75,75,75,75	0
84	MG	CM	1921	1/1	0.90	0.11	42,42,42,42	0
84	MG	1	3827	1/1	0.90	0.20	52,52,52,52	0
84	MG	AS	3673	1/1	0.90	0.13	49,49,49,49	0
84	MG	1	3918	1/1	0.90	0.06	53,53,53,53	0
84	MG	AS	3675	1/1	0.90	0.17	49,49,49,49	0
84	MG	CM	1935	1/1	0.90	0.11	44,44,44,44	0
84	MG	CM	1939	1/1	0.90	0.15	45,45,45,45	0
84	MG	0	201	1/1	0.90	0.19	41,41,41,41	0
84	MG	1	3620	1/1	0.90	0.15	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3835	1/1	0.90	0.24	35,35,35,35	0
84	MG	1	3838	1/1	0.90	0.23	67,67,67,67	0
84	MG	B	1883	1/1	0.90	0.16	37,37,37,37	0
84	MG	AS	3684	1/1	0.90	0.17	32,32,32,32	0
84	MG	AS	3543	1/1	0.90	0.23	60,60,60,60	0
84	MG	1	3415	1/1	0.90	0.29	38,38,38,38	0
84	MG	CM	1955	1/1	0.90	0.24	42,42,42,42	0
84	MG	AU	206	1/1	0.90	0.11	42,42,42,42	0
84	MG	AS	3687	1/1	0.90	0.33	44,44,44,44	0
84	MG	AS	3546	1/1	0.90	0.16	42,42,42,42	0
84	MG	BB	302	1/1	0.90	0.34	44,44,44,44	0
84	MG	1	3759	1/1	0.90	0.12	36,36,36,36	0
84	MG	B	1994	1/1	0.90	0.11	58,58,58,58	0
84	MG	1	3768	1/1	0.90	0.15	28,28,28,28	0
84	MG	1	3770	1/1	0.90	0.15	33,33,33,33	0
84	MG	1	3494	1/1	0.90	0.08	37,37,37,37	0
84	MG	1	3849	1/1	0.90	0.17	38,38,38,38	0
84	MG	AS	3559	1/1	0.90	0.24	46,46,46,46	0
84	MG	AS	3565	1/1	0.90	0.31	35,35,35,35	0
84	MG	1	4034	1/1	0.90	0.07	58,58,58,58	0
84	MG	AS	3569	1/1	0.90	0.15	37,37,37,37	0
84	MG	CM	1980	1/1	0.90	0.08	43,43,43,43	0
84	MG	1	3592	1/1	0.90	0.18	53,53,53,53	0
84	MG	1	3666	1/1	0.90	0.19	42,42,42,42	0
84	MG	1	3559	1/1	0.90	0.16	43,43,43,43	0
84	MG	AI	201	1/1	0.90	0.08	54,54,54,54	0
84	MG	1	3714	1/1	0.90	0.21	42,42,42,42	0
84	MG	1	3460	1/1	0.90	0.22	21,21,21,21	0
84	MG	AS	3727	1/1	0.90	0.17	51,51,51,51	0
84	MG	1	3867	1/1	0.90	0.14	94,94,94,94	0
84	MG	1	3462	1/1	0.90	0.30	50,50,50,50	0
84	MG	1	3638	1/1	0.90	0.16	38,38,38,38	0
84	MG	1	3955	1/1	0.90	0.11	41,41,41,41	0
84	MG	AS	3593	1/1	0.90	0.19	52,52,52,52	0
84	MG	1	3600	1/1	0.90	0.10	47,47,47,47	0
84	MG	AS	3737	1/1	0.90	0.06	36,36,36,36	0
84	MG	AS	3596	1/1	0.90	0.16	142,142,142,142	0
84	MG	B	1813	1/1	0.90	0.22	50,50,50,50	0
85	ZN	h	201	1/1	0.90	0.09	238,238,238,238	0
84	MG	1	3727	1/1	0.90	0.11	36,36,36,36	0
84	MG	CM	1815	1/1	0.90	0.24	44,44,44,44	0
84	MG	CM	1817	1/1	0.90	0.24	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3833	1/1	0.91	0.11	34,34,34,34	0
84	MG	AS	3572	1/1	0.91	0.20	36,36,36,36	0
84	MG	1	3507	1/1	0.91	0.28	32,32,32,32	0
84	MG	1	3465	1/1	0.91	0.25	38,38,38,38	0
84	MG	1	3730	1/1	0.91	0.24	32,32,32,32	0
84	MG	Y	203	1/1	0.91	0.18	85,85,85,85	0
84	MG	B	1906	1/1	0.91	0.17	39,39,39,39	0
84	MG	1	3610	1/1	0.91	0.13	28,28,28,28	0
84	MG	1	3842	1/1	0.91	0.26	50,50,50,50	0
84	MG	AS	3736	1/1	0.91	0.08	35,35,35,35	0
84	MG	1	3910	1/1	0.91	0.11	69,69,69,69	0
84	MG	CM	1820	1/1	0.91	0.36	42,42,42,42	0
84	MG	AS	3587	1/1	0.91	0.21	44,44,44,44	0
84	MG	1	3611	1/1	0.91	0.27	31,31,31,31	0
84	MG	4	203	1/1	0.91	0.25	40,40,40,40	0
84	MG	AS	3592	1/1	0.91	0.09	42,42,42,42	0
84	MG	1	3844	1/1	0.91	0.18	54,54,54,54	0
84	MG	AS	3594	1/1	0.91	0.42	43,43,43,43	0
84	MG	B	1819	1/1	0.91	0.19	40,40,40,40	0
84	MG	CM	1830	1/1	0.91	0.24	36,36,36,36	0
84	MG	1	3983	1/1	0.91	0.08	44,44,44,44	0
84	MG	AS	3423	1/1	0.91	0.23	27,27,27,27	0
83	3K5	AS	3401	57/57	0.91	0.16	47,66,88,92	0
84	MG	4	209	1/1	0.91	0.15	39,39,39,39	0
84	MG	1	3644	1/1	0.91	0.15	34,34,34,34	0
84	MG	CM	1838	1/1	0.91	0.14	53,53,53,53	0
84	MG	1	3691	1/1	0.91	0.21	43,43,43,43	0
84	MG	AS	3602	1/1	0.91	0.44	43,43,43,43	0
84	MG	AS	3759	1/1	0.91	0.18	42,42,42,42	0
84	MG	AS	3608	1/1	0.91	0.22	50,50,50,50	0
84	MG	AS	3761	1/1	0.91	0.26	42,42,42,42	0
84	MG	1	3791	1/1	0.91	0.16	31,31,31,31	0
84	MG	B	1926	1/1	0.91	0.21	56,56,56,56	0
84	MG	4	213	1/1	0.91	0.14	43,43,43,43	0
84	MG	B	1929	1/1	0.91	0.18	45,45,45,45	0
84	MG	1	3856	1/1	0.91	0.22	46,46,46,46	0
84	MG	B	1833	1/1	0.91	0.12	34,34,34,34	0
84	MG	AS	3447	1/1	0.91	0.24	43,43,43,43	0
84	MG	AS	3450	1/1	0.91	0.21	41,41,41,41	0
84	MG	AS	3782	1/1	0.91	0.11	50,50,50,50	0
84	MG	1	3667	1/1	0.91	0.13	43,43,43,43	0
84	MG	AS	3454	1/1	0.91	0.32	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	CM	1868	1/1	0.91	0.17	48,48,48,48	0
84	MG	1	3995	1/1	0.91	0.10	45,45,45,45	0
84	MG	B	1935	1/1	0.91	0.20	86,86,86,86	0
84	MG	k	402	1/1	0.91	0.10	62,62,62,62	0
84	MG	1	3645	1/1	0.91	0.13	34,34,34,34	0
84	MG	AS	3793	1/1	0.91	0.13	59,59,59,59	0
84	MG	1	3613	1/1	0.91	0.23	33,33,33,33	0
84	MG	AS	3795	1/1	0.91	0.08	41,41,41,41	0
84	MG	B	1841	1/1	0.91	0.25	28,28,28,28	0
84	MG	B	1842	1/1	0.91	0.20	35,35,35,35	0
84	MG	k	405	1/1	0.91	0.18	34,34,34,34	0
84	MG	AS	3472	1/1	0.91	0.24	40,40,40,40	0
84	MG	CM	1888	1/1	0.91	0.11	39,39,39,39	0
84	MG	1	3533	1/1	0.91	0.16	31,31,31,31	0
84	MG	1	3865	1/1	0.91	0.12	56,56,56,56	0
84	MG	CM	1893	1/1	0.91	0.18	31,31,31,31	0
84	MG	AS	3480	1/1	0.91	0.12	38,38,38,38	0
84	MG	CM	1898	1/1	0.91	0.27	44,44,44,44	0
84	MG	AS	3483	1/1	0.91	0.23	32,32,32,32	0
84	MG	CM	1901	1/1	0.91	0.08	60,60,60,60	0
84	MG	CM	1905	1/1	0.91	0.31	35,35,35,35	0
84	MG	1	3866	1/1	0.91	0.13	52,52,52,52	0
84	MG	1	3598	1/1	0.91	0.38	42,42,42,42	0
84	MG	1	3699	1/1	0.91	0.15	40,40,40,40	0
84	MG	AS	3648	1/1	0.91	0.07	44,44,44,44	0
84	MG	1	3929	1/1	0.91	0.24	52,52,52,52	0
84	MG	B	1858	1/1	0.91	0.12	36,36,36,36	0
84	MG	1	4018	1/1	0.91	0.26	39,39,39,39	0
84	MG	1	3700	1/1	0.91	0.17	28,28,28,28	0
84	MG	1	3703	1/1	0.91	0.20	53,53,53,53	0
84	MG	1	3539	1/1	0.91	0.35	48,48,48,48	0
84	MG	x	201	1/1	0.91	0.28	28,28,28,28	0
84	MG	AS	3831	1/1	0.91	0.07	44,44,44,44	0
84	MG	B	1963	1/1	0.91	0.20	59,59,59,59	0
84	MG	AS	3667	1/1	0.91	0.10	36,36,36,36	0
84	MG	AS	3834	1/1	0.91	0.25	30,30,30,30	0
84	MG	AT	202	1/1	0.91	0.30	47,47,47,47	0
84	MG	AS	3668	1/1	0.91	0.12	41,41,41,41	0
84	MG	B	1964	1/1	0.91	0.06	55,55,55,55	0
84	MG	AS	3507	1/1	0.91	0.37	48,48,48,48	0
84	MG	1	3708	1/1	0.91	0.23	40,40,40,40	0
84	MG	1	3935	1/1	0.91	0.22	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	4026	1/1	0.91	0.12	42,42,42,42	0
84	MG	AS	3513	1/1	0.91	0.20	40,40,40,40	0
84	MG	B	1976	1/1	0.91	0.11	40,40,40,40	0
84	MG	AT	212	1/1	0.91	0.20	44,44,44,44	0
84	MG	CM	1953	1/1	0.91	0.28	42,42,42,42	0
84	MG	AS	3515	1/1	0.91	0.33	46,46,46,46	0
84	MG	1	3937	1/1	0.91	0.17	70,70,70,70	0
84	MG	AS	3680	1/1	0.91	0.13	49,49,49,49	0
84	MG	1	3711	1/1	0.91	0.10	31,31,31,31	0
84	MG	1	3561	1/1	0.91	0.20	43,43,43,43	0
84	MG	1	4031	1/1	0.91	0.08	43,43,43,43	0
84	MG	AW	302	1/1	0.91	0.27	42,42,42,42	0
84	MG	CM	1964	1/1	0.91	0.11	49,49,49,49	0
84	MG	AX	1300	1/1	0.91	0.30	36,36,36,36	0
84	MG	1	3501	1/1	0.91	0.14	28,28,28,28	0
84	MG	BB	301	1/1	0.91	0.12	37,37,37,37	0
84	MG	1	3765	1/1	0.91	0.16	33,33,33,33	0
84	MG	BB	304	1/1	0.91	0.08	40,40,40,40	0
84	MG	1	3953	1/1	0.91	0.12	38,38,38,38	0
84	MG	BB	306	1/1	0.91	0.15	42,42,42,42	0
84	MG	BE	301	1/1	0.91	0.17	37,37,37,37	0
84	MG	AS	3540	1/1	0.91	0.30	47,47,47,47	0
84	MG	1	3767	1/1	0.91	0.27	61,61,61,61	0
84	MG	B	1991	1/1	0.91	0.13	38,38,38,38	0
84	MG	AC	102	1/1	0.91	0.07	42,42,42,42	0
84	MG	1	3425	1/1	0.91	0.30	27,27,27,27	0
84	MG	CQ	302	1/1	0.91	0.08	41,41,41,41	0
84	MG	BJ	303	1/1	0.91	0.24	41,41,41,41	0
84	MG	1	4037	1/1	0.91	0.42	30,30,30,30	0
84	MG	B	1995	1/1	0.91	0.07	41,41,41,41	0
84	MG	AS	3549	1/1	0.91	0.11	40,40,40,40	0
84	MG	1	3627	1/1	0.91	0.21	40,40,40,40	0
84	MG	1	3895	1/1	0.91	0.18	36,36,36,36	0
84	MG	1	3774	1/1	0.91	0.14	44,44,44,44	0
84	MG	AS	3557	1/1	0.91	0.28	46,46,46,46	0
84	MG	BZ	204	1/1	0.91	0.20	43,43,43,43	0
84	MG	CA	201	1/1	0.91	0.12	51,51,51,51	0
84	MG	CJ	202	1/1	0.91	0.21	55,55,55,55	0
84	MG	1	3544	1/1	0.91	0.12	47,47,47,47	0
84	MG	1	3505	1/1	0.91	0.23	32,32,32,32	0
84	MG	AS	3717	1/1	0.91	0.12	39,39,39,39	0
84	MG	K	302	1/1	0.91	0.15	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AJ	101	1/1	0.91	0.14	68,68,68,68	0
84	MG	AS	3724	1/1	0.91	0.11	38,38,38,38	0
85	ZN	DS	201	1/1	0.91	0.11	208,208,208,208	0
84	MG	1	4001	1/1	0.92	0.16	43,43,43,43	0
84	MG	1	3472	1/1	0.92	0.26	27,27,27,27	0
84	MG	1	3615	1/1	0.92	0.17	40,40,40,40	0
84	MG	AS	3562	1/1	0.92	0.15	50,50,50,50	0
84	MG	w	302	1/1	0.92	0.15	53,53,53,53	0
84	MG	1	3502	1/1	0.92	0.27	46,46,46,46	0
84	MG	1	3845	1/1	0.92	0.16	44,44,44,44	0
84	MG	AS	3570	1/1	0.92	0.07	29,29,29,29	0
84	MG	AS	3571	1/1	0.92	0.15	61,61,61,61	0
84	MG	y	201	1/1	0.92	0.14	43,43,43,43	0
84	MG	1	4012	1/1	0.92	0.34	47,47,47,47	0
84	MG	AS	3576	1/1	0.92	0.12	46,46,46,46	0
84	MG	AS	3577	1/1	0.92	0.27	45,45,45,45	0
84	MG	1	3617	1/1	0.92	0.15	40,40,40,40	0
84	MG	1	3718	1/1	0.92	0.11	43,43,43,43	0
84	MG	CM	1825	1/1	0.92	0.17	34,34,34,34	0
84	MG	AS	3744	1/1	0.92	0.07	55,55,55,55	0
84	MG	1	3848	1/1	0.92	0.43	55,55,55,55	0
84	MG	1	3456	1/1	0.92	0.28	19,19,19,19	0
84	MG	1	3535	1/1	0.92	0.15	25,25,25,25	0
84	MG	1	3476	1/1	0.92	0.25	27,27,27,27	0
84	MG	Z	202	1/1	0.92	0.36	55,55,55,55	0
84	MG	1	3459	1/1	0.92	0.32	27,27,27,27	0
84	MG	AS	3588	1/1	0.92	0.13	43,43,43,43	0
84	MG	1	3478	1/1	0.92	0.28	31,31,31,31	0
84	MG	AS	3757	1/1	0.92	0.13	49,49,49,49	0
84	MG	1	3587	1/1	0.92	0.24	41,41,41,41	0
84	MG	1	4025	1/1	0.92	0.13	40,40,40,40	0
84	MG	1	3588	1/1	0.92	0.24	31,31,31,31	0
84	MG	1	3509	1/1	0.92	0.28	28,28,28,28	0
84	MG	AS	3406	1/1	0.92	0.51	32,32,32,32	0
84	MG	AS	3408	1/1	0.92	0.09	43,43,43,43	0
84	MG	AS	3410	1/1	0.92	0.35	32,32,32,32	0
84	MG	AS	3768	1/1	0.92	0.15	39,39,39,39	0
84	MG	AS	3416	1/1	0.92	0.30	22,22,22,22	0
84	MG	1	3591	1/1	0.92	0.31	54,54,54,54	0
84	MG	AS	3771	1/1	0.92	0.19	42,42,42,42	0
84	MG	1	3636	1/1	0.92	0.11	33,33,33,33	0
84	MG	AS	3773	1/1	0.92	0.12	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	CM	1859	1/1	0.92	0.11	40,40,40,40	0
84	MG	1	3936	1/1	0.92	0.17	70,70,70,70	0
84	MG	AG	201	1/1	0.92	0.10	57,57,57,57	0
84	MG	AS	3606	1/1	0.92	0.12	59,59,59,59	0
84	MG	CM	1867	1/1	0.92	0.18	74,74,74,74	0
84	MG	1	3868	1/1	0.92	0.22	40,40,40,40	0
84	MG	B	1911	1/1	0.92	0.31	49,49,49,49	0
84	MG	1	3872	1/1	0.92	0.11	54,54,54,54	0
84	MG	AS	3434	1/1	0.92	0.29	39,39,39,39	0
84	MG	1	3424	1/1	0.92	0.15	40,40,40,40	0
84	MG	1	3481	1/1	0.92	0.27	34,34,34,34	0
84	MG	AP	202	1/1	0.92	0.25	33,33,33,33	0
84	MG	1	3945	1/1	0.92	0.14	40,40,40,40	0
84	MG	1	3443	1/1	0.92	0.21	37,37,37,37	0
84	MG	1	3951	1/1	0.92	0.11	40,40,40,40	0
84	MG	1	3952	1/1	0.92	0.18	44,44,44,44	0
84	MG	AS	3448	1/1	0.92	0.31	38,38,38,38	0
84	MG	1	3739	1/1	0.92	0.32	32,32,32,32	0
84	MG	AS	3451	1/1	0.92	0.31	51,51,51,51	0
84	MG	1	3740	1/1	0.92	0.19	53,53,53,53	0
84	MG	1	3556	1/1	0.92	0.28	46,46,46,46	0
84	MG	B	1812	1/1	0.92	0.21	61,61,61,61	0
84	MG	CM	1897	1/1	0.92	0.27	31,31,31,31	0
84	MG	AS	3810	1/1	0.92	0.21	42,42,42,42	0
84	MG	AS	3812	1/1	0.92	0.08	45,45,45,45	0
84	MG	3	212	1/1	0.92	0.13	60,60,60,60	0
84	MG	B	1931	1/1	0.92	0.14	47,47,47,47	0
84	MG	1	3956	1/1	0.92	0.07	42,42,42,42	0
84	MG	1	3957	1/1	0.92	0.12	44,44,44,44	0
84	MG	AS	3464	1/1	0.92	0.24	50,50,50,50	0
84	MG	B	1817	1/1	0.92	0.28	38,38,38,38	0
84	MG	AS	3824	1/1	0.92	0.16	48,48,48,48	0
84	MG	CM	1914	1/1	0.92	0.12	54,54,54,54	0
84	MG	1	3806	1/1	0.92	0.14	43,43,43,43	0
84	MG	AS	3469	1/1	0.92	0.16	37,37,37,37	0
84	MG	1	3744	1/1	0.92	0.17	47,47,47,47	0
84	MG	B	1823	1/1	0.92	0.28	36,36,36,36	0
84	MG	1	3414	1/1	0.92	0.35	29,29,29,29	0
84	MG	1	3885	1/1	0.92	0.22	47,47,47,47	0
84	MG	3	219	1/1	0.92	0.11	46,46,46,46	0
84	MG	AS	3482	1/1	0.92	0.20	32,32,32,32	0
84	MG	1	3965	1/1	0.92	0.07	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3746	1/1	0.92	0.23	40,40,40,40	0
84	MG	1	3516	1/1	0.92	0.10	45,45,45,45	0
84	MG	CM	1932	1/1	0.92	0.16	49,49,49,49	0
84	MG	AS	3489	1/1	0.92	0.24	40,40,40,40	0
84	MG	AT	205	1/1	0.92	0.11	54,54,54,54	0
84	MG	AS	3665	1/1	0.92	0.36	51,51,51,51	0
84	MG	B	1830	1/1	0.92	0.26	34,34,34,34	0
84	MG	1	3436	1/1	0.92	0.28	33,33,33,33	0
84	MG	CM	1947	1/1	0.92	0.37	44,44,44,44	0
84	MG	4	206	1/1	0.92	0.20	30,30,30,30	0
84	MG	1	3970	1/1	0.92	0.25	46,46,46,46	0
84	MG	1	3649	1/1	0.92	0.13	65,65,65,65	0
84	MG	1	3819	1/1	0.92	0.07	32,32,32,32	0
84	MG	1	3430	1/1	0.92	0.27	34,34,34,34	0
84	MG	AT	214	1/1	0.92	0.14	39,39,39,39	0
84	MG	1	3977	1/1	0.92	0.14	45,45,45,45	0
84	MG	1	3562	1/1	0.92	0.20	37,37,37,37	0
84	MG	AS	3504	1/1	0.92	0.10	55,55,55,55	0
84	MG	1	3899	1/1	0.92	0.07	50,50,50,50	0
84	MG	4	215	1/1	0.92	0.16	30,30,30,30	0
84	MG	1	3823	1/1	0.92	0.10	29,29,29,29	0
84	MG	B	1965	1/1	0.92	0.17	46,46,46,46	0
84	MG	1	3447	1/1	0.92	0.25	25,25,25,25	0
84	MG	1	3468	1/1	0.92	0.27	38,38,38,38	0
84	MG	B	1969	1/1	0.92	0.08	46,46,46,46	0
84	MG	BB	303	1/1	0.92	0.07	44,44,44,44	0
84	MG	CM	1971	1/1	0.92	0.13	42,42,42,42	0
84	MG	1	3440	1/1	0.92	0.26	40,40,40,40	0
84	MG	AS	3520	1/1	0.92	0.27	51,51,51,51	0
84	MG	AS	3523	1/1	0.92	0.10	27,27,27,27	0
84	MG	B	1975	1/1	0.92	0.08	45,45,45,45	0
84	MG	1	3470	1/1	0.92	0.19	26,26,26,26	0
84	MG	1	3569	1/1	0.92	0.13	39,39,39,39	0
84	MG	1	3761	1/1	0.92	0.28	24,24,24,24	0
84	MG	o	301	1/1	0.92	0.20	38,38,38,38	0
84	MG	AS	3699	1/1	0.92	0.14	50,50,50,50	0
84	MG	AS	3700	1/1	0.92	0.07	37,37,37,37	0
84	MG	1	3992	1/1	0.92	0.11	40,40,40,40	0
84	MG	AS	3703	1/1	0.92	0.07	41,41,41,41	0
84	MG	o	303	1/1	0.92	0.20	34,34,34,34	0
84	MG	CY	201	1/1	0.92	0.15	49,49,49,49	0
84	MG	B	1982	1/1	0.92	0.12	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	B	1983	1/1	0.92	0.06	56,56,56,56	0
84	MG	AS	3708	1/1	0.92	0.06	56,56,56,56	0
84	MG	B	1984	1/1	0.92	0.09	62,62,62,62	0
84	MG	1	3836	1/1	0.92	0.17	38,38,38,38	0
84	MG	1	3573	1/1	0.92	0.13	50,50,50,50	0
84	MG	CA	202	1/1	0.92	0.07	46,46,46,46	0
84	MG	B	1987	1/1	0.92	0.07	46,46,46,46	0
84	MG	1	3527	1/1	0.92	0.22	38,38,38,38	0
84	MG	1	3996	1/1	0.92	0.24	40,40,40,40	0
84	MG	B	1869	1/1	0.92	0.18	72,72,72,72	0
84	MG	AS	3721	1/1	0.92	0.10	47,47,47,47	0
84	MG	AS	3723	1/1	0.92	0.24	47,47,47,47	0
84	MG	1	3453	1/1	0.92	0.33	26,26,26,26	0
84	MG	v	301	1/1	0.92	0.08	36,36,36,36	0
84	MG	CM	1829	1/1	0.93	0.27	35,35,35,35	0
84	MG	1	3661	1/1	0.93	0.20	39,39,39,39	0
84	MG	CM	1831	1/1	0.93	0.17	51,51,51,51	0
84	MG	AF	201	1/1	0.93	0.07	41,41,41,41	0
84	MG	AS	3781	1/1	0.93	0.12	42,42,42,42	0
84	MG	1	3732	1/1	0.93	0.16	32,32,32,32	0
84	MG	1	3603	1/1	0.93	0.08	52,52,52,52	0
84	MG	1	3551	1/1	0.93	0.28	52,52,52,52	0
84	MG	AS	3786	1/1	0.93	0.17	44,44,44,44	0
84	MG	1	3552	1/1	0.93	0.08	56,56,56,56	0
84	MG	1	3932	1/1	0.93	0.16	43,43,43,43	0
84	MG	1	3437	1/1	0.93	0.21	26,26,26,26	0
84	MG	AO	101	1/1	0.93	0.21	43,43,43,43	0
84	MG	1	3474	1/1	0.93	0.19	31,31,31,31	0
84	MG	B	1988	1/1	0.93	0.09	43,43,43,43	0
84	MG	B	1989	1/1	0.93	0.07	42,42,42,42	0
84	MG	1	3831	1/1	0.93	0.19	44,44,44,44	0
84	MG	AS	3656	1/1	0.93	0.07	35,35,35,35	0
84	MG	1	3458	1/1	0.93	0.21	35,35,35,35	0
84	MG	AS	3659	1/1	0.93	0.27	45,45,45,45	0
84	MG	B	1896	1/1	0.93	0.10	58,58,58,58	0
84	MG	AS	3806	1/1	0.93	0.08	34,34,34,34	0
83	3K5	1	3401	57/57	0.93	0.14	40,55,74,85	0
84	MG	1	3888	1/1	0.93	0.13	44,44,44,44	0
84	MG	1	3939	1/1	0.93	0.10	35,35,35,35	0
84	MG	AS	3517	1/1	0.93	0.20	34,34,34,34	0
84	MG	AS	3811	1/1	0.93	0.04	38,38,38,38	0
84	MG	B	1806	1/1	0.93	0.14	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3521	1/1	0.93	0.39	43,43,43,43	0
84	MG	1	3941	1/1	0.93	0.10	34,34,34,34	0
84	MG	1	3891	1/1	0.93	0.07	57,57,57,57	0
84	MG	B	1811	1/1	0.93	0.20	39,39,39,39	0
84	MG	1	4006	1/1	0.93	0.07	44,44,44,44	0
84	MG	4	214	1/1	0.93	0.09	45,45,45,45	0
84	MG	1	4009	1/1	0.93	0.08	43,43,43,43	0
84	MG	1	3943	1/1	0.93	0.09	36,36,36,36	0
84	MG	1	4011	1/1	0.93	0.09	37,37,37,37	0
84	MG	CM	1882	1/1	0.93	0.20	42,42,42,42	0
84	MG	1	3493	1/1	0.93	0.08	41,41,41,41	0
84	MG	B	1820	1/1	0.93	0.39	48,48,48,48	0
84	MG	1	3560	1/1	0.93	0.12	27,27,27,27	0
84	MG	1	4015	1/1	0.93	0.08	38,38,38,38	0
84	MG	1	3787	1/1	0.93	0.20	38,38,38,38	0
84	MG	1	3520	1/1	0.93	0.10	25,25,25,25	0
84	MG	1	3789	1/1	0.93	0.16	39,39,39,39	0
84	MG	1	3521	1/1	0.93	0.11	32,32,32,32	0
84	MG	1	3705	1/1	0.93	0.17	47,47,47,47	0
84	MG	1	3707	1/1	0.93	0.29	40,40,40,40	0
84	MG	1	3749	1/1	0.93	0.27	39,39,39,39	0
84	MG	CM	1902	1/1	0.93	0.32	50,50,50,50	0
84	MG	CM	1903	1/1	0.93	0.20	51,51,51,51	0
84	MG	AS	3691	1/1	0.93	0.09	47,47,47,47	0
84	MG	B	1927	1/1	0.93	0.07	48,48,48,48	0
84	MG	1	3540	1/1	0.93	0.17	35,35,35,35	0
84	MG	CM	1910	1/1	0.93	0.07	53,53,53,53	0
84	MG	1	3541	1/1	0.93	0.23	30,30,30,30	0
84	MG	AS	3411	1/1	0.93	0.05	29,29,29,29	0
84	MG	AS	3563	1/1	0.93	0.10	47,47,47,47	0
84	MG	AS	3701	1/1	0.93	0.09	42,42,42,42	0
84	MG	AS	3564	1/1	0.93	0.25	50,50,50,50	0
84	MG	u	201	1/1	0.93	0.09	37,37,37,37	0
84	MG	B	1835	1/1	0.93	0.28	43,43,43,43	0
84	MG	1	3506	1/1	0.93	0.34	43,43,43,43	0
84	MG	B	1837	1/1	0.93	0.21	38,38,38,38	0
84	MG	AS	3424	1/1	0.93	0.26	31,31,31,31	0
84	MG	1	3961	1/1	0.93	0.06	41,41,41,41	0
84	MG	CM	1922	1/1	0.93	0.07	43,43,43,43	0
84	MG	1	4028	1/1	0.93	0.09	46,46,46,46	0
84	MG	AW	303	1/1	0.93	0.23	52,52,52,52	0
84	MG	CM	1926	1/1	0.93	0.16	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AW	304	1/1	0.93	0.09	62,62,62,62	0
84	MG	1	3962	1/1	0.93	0.09	38,38,38,38	0
84	MG	CM	1930	1/1	0.93	0.24	45,45,45,45	0
84	MG	CM	1931	1/1	0.93	0.11	43,43,43,43	0
84	MG	AS	3713	1/1	0.93	0.14	54,54,54,54	0
84	MG	CM	1933	1/1	0.93	0.09	45,45,45,45	0
84	MG	AS	3714	1/1	0.93	0.07	46,46,46,46	0
84	MG	1	3851	1/1	0.93	0.22	46,46,46,46	0
84	MG	1	3406	1/1	0.93	0.30	33,33,33,33	0
84	MG	AS	3435	1/1	0.93	0.14	33,33,33,33	0
84	MG	1	3854	1/1	0.93	0.06	29,29,29,29	0
84	MG	AS	3720	1/1	0.93	0.09	46,46,46,46	0
84	MG	1	3717	1/1	0.93	0.18	43,43,43,43	0
84	MG	B	1848	1/1	0.93	0.10	51,51,51,51	0
84	MG	B	1944	1/1	0.93	0.11	82,82,82,82	0
84	MG	1	3858	1/1	0.93	0.14	45,45,45,45	0
84	MG	AS	3445	1/1	0.93	0.33	47,47,47,47	0
84	MG	B	1850	1/1	0.93	0.19	77,77,77,77	0
84	MG	BJ	301	1/1	0.93	0.09	30,30,30,30	0
84	MG	CM	1956	1/1	0.93	0.29	47,47,47,47	0
84	MG	1	3804	1/1	0.93	0.15	48,48,48,48	0
84	MG	BK	201	1/1	0.93	0.29	36,36,36,36	0
84	MG	B	1948	1/1	0.93	0.09	61,61,61,61	0
84	MG	AS	3449	1/1	0.93	0.13	27,27,27,27	0
84	MG	1	3451	1/1	0.93	0.27	24,24,24,24	0
84	MG	1	3683	1/1	0.93	0.42	72,72,72,72	0
84	MG	B	1952	1/1	0.93	0.09	42,42,42,42	0
84	MG	1	3972	1/1	0.93	0.20	49,49,49,49	0
84	MG	3	203	1/1	0.93	0.29	45,45,45,45	0
84	MG	CM	1969	1/1	0.93	0.04	43,43,43,43	0
84	MG	1	3973	1/1	0.93	0.19	43,43,43,43	0
84	MG	AS	3457	1/1	0.93	0.29	32,32,32,32	0
84	MG	1	3463	1/1	0.93	0.11	33,33,33,33	0
84	MG	AS	3459	1/1	0.93	0.24	34,34,34,34	0
84	MG	B	1957	1/1	0.93	0.16	55,55,55,55	0
84	MG	6	202	1/1	0.93	0.08	31,31,31,31	0
84	MG	B	1959	1/1	0.93	0.22	52,52,52,52	0
84	MG	AS	3466	1/1	0.93	0.21	45,45,45,45	0
84	MG	AS	3610	1/1	0.93	0.08	41,41,41,41	0
84	MG	CM	1803	1/1	0.93	0.15	29,29,29,29	0
84	MG	B	1863	1/1	0.93	0.09	87,87,87,87	0
84	MG	CO	301	1/1	0.93	0.22	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3750	1/1	0.93	0.14	41,41,41,41	0
84	MG	3	209	1/1	0.93	0.06	43,43,43,43	0
84	MG	AS	3613	1/1	0.93	0.08	44,44,44,44	0
84	MG	B	1865	1/1	0.93	0.31	39,39,39,39	0
84	MG	1	3725	1/1	0.93	0.23	44,44,44,44	0
84	MG	AS	3471	1/1	0.93	0.17	30,30,30,30	0
84	MG	1	3547	1/1	0.93	0.25	35,35,35,35	0
84	MG	1	3626	1/1	0.93	0.12	37,37,37,37	0
84	MG	AS	3478	1/1	0.93	0.09	40,40,40,40	0
84	MG	1	3441	1/1	0.93	0.29	36,36,36,36	0
84	MG	1	3578	1/1	0.93	0.16	40,40,40,40	0
84	MG	B	1871	1/1	0.93	0.20	75,75,75,75	0
84	MG	B	1973	1/1	0.93	0.06	44,44,44,44	0
84	MG	AS	3629	1/1	0.93	0.15	41,41,41,41	0
84	MG	AD	202	1/1	0.93	0.11	50,50,50,50	0
84	MG	AS	3485	1/1	0.93	0.34	35,35,35,35	0
84	MG	AS	3632	1/1	0.93	0.16	40,40,40,40	0
84	MG	1	3820	1/1	0.93	0.23	39,39,39,39	0
84	MG	B	1874	1/1	0.93	0.21	38,38,38,38	0
84	MG	AS	3774	1/1	0.93	0.08	59,59,59,59	0
84	MG	AS	3541	1/1	0.94	0.25	37,37,37,37	0
84	MG	1	3950	1/1	0.94	0.12	49,49,49,49	0
84	MG	1	3658	1/1	0.94	0.16	27,27,27,27	0
84	MG	1	3887	1/1	0.94	0.33	44,44,44,44	0
84	MG	AS	3545	1/1	0.94	0.31	39,39,39,39	0
84	MG	1	3775	1/1	0.94	0.11	38,38,38,38	0
84	MG	AS	3813	1/1	0.94	0.06	51,51,51,51	0
84	MG	1	4023	1/1	0.94	0.19	48,48,48,48	0
84	MG	1	3776	1/1	0.94	0.14	35,35,35,35	0
84	MG	1	3537	1/1	0.94	0.17	42,42,42,42	0
84	MG	B	1937	1/1	0.94	0.15	46,46,46,46	0
84	MG	1	3828	1/1	0.94	0.19	40,40,40,40	0
84	MG	1	3510	1/1	0.94	0.23	22,22,22,22	0
84	MG	CM	1863	1/1	0.94	0.24	58,58,58,58	0
84	MG	AS	3822	1/1	0.94	0.15	47,47,47,47	0
84	MG	AS	3556	1/1	0.94	0.20	46,46,46,46	0
84	MG	w	304	1/1	0.94	0.08	40,40,40,40	0
84	MG	1	3457	1/1	0.94	0.16	26,26,26,26	0
84	MG	x	202	1/1	0.94	0.14	38,38,38,38	0
84	MG	AS	3432	1/1	0.94	0.23	32,32,32,32	0
84	MG	CM	1874	1/1	0.94	0.32	42,42,42,42	0
84	MG	1	3488	1/1	0.94	0.07	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3450	1/1	0.94	0.23	33,33,33,33	0
84	MG	B	1853	1/1	0.94	0.06	58,58,58,58	0
84	MG	AS	3566	1/1	0.94	0.36	44,44,44,44	0
84	MG	AS	3695	1/1	0.94	0.28	34,34,34,34	0
84	MG	AT	201	1/1	0.94	0.22	24,24,24,24	0
84	MG	CM	1881	1/1	0.94	0.15	43,43,43,43	0
84	MG	AS	3696	1/1	0.94	0.10	41,41,41,41	0
84	MG	AS	3567	1/1	0.94	0.19	23,23,23,23	0
84	MG	CM	1884	1/1	0.94	0.13	43,43,43,43	0
84	MG	1	3417	1/1	0.94	0.15	45,45,45,45	0
84	MG	CM	1887	1/1	0.94	0.22	74,74,74,74	0
84	MG	1	3473	1/1	0.94	0.33	19,19,19,19	0
84	MG	B	1857	1/1	0.94	0.10	47,47,47,47	0
84	MG	AS	3441	1/1	0.94	0.14	42,42,42,42	0
84	MG	1	3639	1/1	0.94	0.17	26,26,26,26	0
84	MG	AS	3573	1/1	0.94	0.07	41,41,41,41	0
84	MG	CM	1896	1/1	0.94	0.25	36,36,36,36	0
84	MG	B	1859	1/1	0.94	0.11	71,71,71,71	0
84	MG	1	3840	1/1	0.94	0.07	28,28,28,28	0
84	MG	CM	1899	1/1	0.94	0.12	33,33,33,33	0
84	MG	0	203	1/1	0.94	0.09	50,50,50,50	0
84	MG	1	3903	1/1	0.94	0.18	43,43,43,43	0
84	MG	1	3402	1/1	0.94	0.19	19,19,19,19	0
84	MG	AU	201	1/1	0.94	0.24	28,28,28,28	0
84	MG	1	3668	1/1	0.94	0.11	45,45,45,45	0
84	MG	3	201	1/1	0.94	0.21	23,23,23,23	0
84	MG	CM	1907	1/1	0.94	0.07	52,52,52,52	0
84	MG	CM	1908	1/1	0.94	0.21	49,49,49,49	0
84	MG	1	3642	1/1	0.94	0.29	33,33,33,33	0
84	MG	AS	3584	1/1	0.94	0.18	36,36,36,36	0
84	MG	1	3741	1/1	0.94	0.19	29,29,29,29	0
84	MG	1	3790	1/1	0.94	0.40	41,41,41,41	0
84	MG	AC	101	1/1	0.94	0.09	38,38,38,38	0
84	MG	3	207	1/1	0.94	0.07	39,39,39,39	0
84	MG	1	3566	1/1	0.94	0.13	22,22,22,22	0
84	MG	1	3792	1/1	0.94	0.26	34,34,34,34	0
84	MG	1	3793	1/1	0.94	0.17	33,33,33,33	0
84	MG	1	3671	1/1	0.94	0.06	44,44,44,44	0
84	MG	B	1970	1/1	0.94	0.21	47,47,47,47	0
84	MG	AS	3465	1/1	0.94	0.19	37,37,37,37	0
84	MG	1	3518	1/1	0.94	0.14	28,28,28,28	0
84	MG	1	3706	1/1	0.94	0.20	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	B	1974	1/1	0.94	0.15	56,56,56,56	0
84	MG	B	1878	1/1	0.94	0.30	38,38,38,38	0
84	MG	CM	1925	1/1	0.94	0.14	45,45,45,45	0
84	MG	1	3919	1/1	0.94	0.12	41,41,41,41	0
84	MG	1	3981	1/1	0.94	0.15	41,41,41,41	0
84	MG	B	1881	1/1	0.94	0.18	64,64,64,64	0
84	MG	AS	3605	1/1	0.94	0.13	40,40,40,40	0
84	MG	1	3590	1/1	0.94	0.23	50,50,50,50	0
84	MG	AS	3477	1/1	0.94	0.09	27,27,27,27	0
84	MG	BJ	304	1/1	0.94	0.11	50,50,50,50	0
84	MG	1	3855	1/1	0.94	0.09	39,39,39,39	0
84	MG	CM	1938	1/1	0.94	0.07	33,33,33,33	0
84	MG	1	3519	1/1	0.94	0.30	57,57,57,57	0
84	MG	B	1885	1/1	0.94	0.15	60,60,60,60	0
84	MG	BO	202	1/1	0.94	0.26	50,50,50,50	0
84	MG	AM	101	1/1	0.94	0.36	45,45,45,45	0
84	MG	CM	1946	1/1	0.94	0.07	40,40,40,40	0
84	MG	1	3709	1/1	0.94	0.16	39,39,39,39	0
84	MG	1	3710	1/1	0.94	0.10	32,32,32,32	0
84	MG	BZ	201	1/1	0.94	0.18	47,47,47,47	0
84	MG	AS	3746	1/1	0.94	0.07	40,40,40,40	0
84	MG	CM	1951	1/1	0.94	0.16	41,41,41,41	0
84	MG	AS	3616	1/1	0.94	0.29	44,44,44,44	0
84	MG	1	3531	1/1	0.94	0.28	26,26,26,26	0
84	MG	1	3990	1/1	0.94	0.27	45,45,45,45	0
84	MG	4	204	1/1	0.94	0.20	32,32,32,32	0
84	MG	1	3991	1/1	0.94	0.42	47,47,47,47	0
84	MG	1	3532	1/1	0.94	0.27	32,32,32,32	0
84	MG	1	3805	1/1	0.94	0.19	52,52,52,52	0
84	MG	CM	1960	1/1	0.94	0.08	50,50,50,50	0
84	MG	1	3679	1/1	0.94	0.23	30,30,30,30	0
84	MG	1	3554	1/1	0.94	0.09	36,36,36,36	0
84	MG	1	3595	1/1	0.94	0.23	31,31,31,31	0
84	MG	1	3719	1/1	0.94	0.08	41,41,41,41	0
84	MG	B	1996	1/1	0.94	0.06	40,40,40,40	0
84	MG	CM	1805	1/1	0.94	0.28	34,34,34,34	0
84	MG	D	301	1/1	0.94	0.15	44,44,44,44	0
84	MG	1	4000	1/1	0.94	0.11	35,35,35,35	0
84	MG	1	3870	1/1	0.94	0.16	51,51,51,51	0
84	MG	1	3810	1/1	0.94	0.13	34,34,34,34	0
84	MG	1	3812	1/1	0.94	0.15	48,48,48,48	0
84	MG	AS	3510	1/1	0.94	0.34	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3813	1/1	0.94	0.09	62,62,62,62	0
84	MG	1	3454	1/1	0.94	0.06	23,23,23,23	0
84	MG	CM	1977	1/1	0.94	0.15	56,56,56,56	0
84	MG	AS	3639	1/1	0.94	0.14	49,49,49,49	0
84	MG	1	4007	1/1	0.94	0.44	38,38,38,38	0
84	MG	1	4008	1/1	0.94	0.07	47,47,47,47	0
84	MG	CM	1982	1/1	0.94	0.08	42,42,42,42	0
84	MG	B	1914	1/1	0.94	0.16	46,46,46,46	0
84	MG	1	3576	1/1	0.94	0.06	29,29,29,29	0
84	MG	AS	3518	1/1	0.94	0.26	28,28,28,28	0
84	MG	CQ	301	1/1	0.94	0.26	40,40,40,40	0
84	MG	AS	3519	1/1	0.94	0.17	38,38,38,38	0
84	MG	1	3764	1/1	0.94	0.11	51,51,51,51	0
84	MG	AS	3652	1/1	0.94	0.13	44,44,44,44	0
84	MG	1	3818	1/1	0.94	0.13	36,36,36,36	0
84	MG	AS	3654	1/1	0.94	0.13	33,33,33,33	0
84	MG	k	406	1/1	0.94	0.07	33,33,33,33	0
84	MG	1	3724	1/1	0.94	0.13	33,33,33,33	0
84	MG	Z	203	1/1	0.94	0.38	66,66,66,66	0
84	MG	AS	3531	1/1	0.94	0.15	38,38,38,38	0
84	MG	AS	3532	1/1	0.94	0.19	59,59,59,59	0
84	MG	1	3623	1/1	0.94	0.20	44,44,44,44	0
84	MG	1	3577	1/1	0.94	0.26	28,28,28,28	0
84	MG	AS	3798	1/1	0.94	0.15	37,37,37,37	0
85	ZN	AN	101	1/1	0.94	0.13	142,142,142,142	0
84	MG	AS	3663	1/1	0.94	0.06	94,94,94,94	0
84	MG	1	3883	1/1	0.94	0.17	42,42,42,42	0
84	MG	1	3948	1/1	0.94	0.10	38,38,38,38	0
84	MG	r	301	1/1	0.94	0.16	34,34,34,34	0
84	MG	1	3428	1/1	0.94	0.29	27,27,27,27	0
84	MG	CM	1843	1/1	0.94	0.25	42,42,42,42	0
84	MG	CM	1844	1/1	0.94	0.16	41,41,41,41	0
84	MG	CM	1894	1/1	0.95	0.23	43,43,43,43	0
84	MG	BN	203	1/1	0.95	0.10	39,39,39,39	0
84	MG	AS	3783	1/1	0.95	0.07	46,46,46,46	0
84	MG	1	3763	1/1	0.95	0.07	30,30,30,30	0
84	MG	1	3546	1/1	0.95	0.23	44,44,44,44	0
84	MG	AS	3689	1/1	0.95	0.24	38,38,38,38	0
84	MG	AS	3604	1/1	0.95	0.18	26,26,26,26	0
84	MG	B	1888	1/1	0.95	0.19	46,46,46,46	0
84	MG	AS	3527	1/1	0.95	0.13	63,63,63,63	0
84	MG	AS	3791	1/1	0.95	0.10	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	CM	1904	1/1	0.95	0.25	44,44,44,44	0
84	MG	AS	3607	1/1	0.95	0.20	37,37,37,37	0
84	MG	B	1889	1/1	0.95	0.22	36,36,36,36	0
84	MG	AS	3529	1/1	0.95	0.33	52,52,52,52	0
84	MG	1	3455	1/1	0.95	0.12	29,29,29,29	0
84	MG	AS	3796	1/1	0.95	0.24	43,43,43,43	0
84	MG	G	301	1/1	0.95	0.15	54,54,54,54	0
84	MG	o	304	1/1	0.95	0.16	41,41,41,41	0
84	MG	1	3766	1/1	0.95	0.20	45,45,45,45	0
84	MG	B	1894	1/1	0.95	0.19	40,40,40,40	0
84	MG	AS	3615	1/1	0.95	0.15	47,47,47,47	0
84	MG	1	4005	1/1	0.95	0.13	42,42,42,42	0
84	MG	1	3549	1/1	0.95	0.15	40,40,40,40	0
84	MG	AS	3538	1/1	0.95	0.16	42,42,42,42	0
84	MG	B	1844	1/1	0.95	0.27	41,41,41,41	0
84	MG	AS	3462	1/1	0.95	0.16	31,31,31,31	0
84	MG	1	3565	1/1	0.95	0.23	26,26,26,26	0
84	MG	1	3713	1/1	0.95	0.28	32,32,32,32	0
84	MG	AS	3625	1/1	0.95	0.12	65,65,65,65	0
84	MG	1	3966	1/1	0.95	0.06	33,33,33,33	0
84	MG	AS	3814	1/1	0.95	0.06	47,47,47,47	0
84	MG	1	3771	1/1	0.95	0.13	38,38,38,38	0
84	MG	CM	1816	1/1	0.95	0.28	31,31,31,31	0
84	MG	CM	1927	1/1	0.95	0.12	33,33,33,33	0
84	MG	1	3884	1/1	0.95	0.15	49,49,49,49	0
84	MG	CM	1818	1/1	0.95	0.18	29,29,29,29	0
84	MG	AS	3817	1/1	0.95	0.06	42,42,42,42	0
84	MG	B	1960	1/1	0.95	0.27	41,41,41,41	0
84	MG	i	301	1/1	0.95	0.06	40,40,40,40	0
84	MG	B	1801	1/1	0.95	0.21	38,38,38,38	0
84	MG	1	3772	1/1	0.95	0.06	34,34,34,34	0
84	MG	CM	1936	1/1	0.95	0.13	46,46,46,46	0
84	MG	CM	1937	1/1	0.95	0.14	49,49,49,49	0
84	MG	AS	3722	1/1	0.95	0.07	59,59,59,59	0
84	MG	1	3773	1/1	0.95	0.08	46,46,46,46	0
84	MG	AS	3475	1/1	0.95	0.14	36,36,36,36	0
84	MG	AS	3552	1/1	0.95	0.23	37,37,37,37	0
84	MG	1	3534	1/1	0.95	0.20	30,30,30,30	0
84	MG	CM	1944	1/1	0.95	0.08	55,55,55,55	0
84	MG	1	3409	1/1	0.95	0.26	22,22,22,22	0
84	MG	1	3605	1/1	0.95	0.10	44,44,44,44	0
84	MG	B	1807	1/1	0.95	0.08	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3407	1/1	0.95	0.22	23,23,23,23	0
84	MG	AS	3731	1/1	0.95	0.08	49,49,49,49	0
84	MG	AS	3560	1/1	0.95	0.10	32,32,32,32	0
84	MG	AS	3481	1/1	0.95	0.11	41,41,41,41	0
84	MG	1	3811	1/1	0.95	0.04	43,43,43,43	0
84	MG	1	3536	1/1	0.95	0.21	34,34,34,34	0
84	MG	AS	3647	1/1	0.95	0.08	37,37,37,37	0
84	MG	1	3852	1/1	0.95	0.19	43,43,43,43	0
84	MG	CM	1841	1/1	0.95	0.18	49,49,49,49	0
84	MG	1	3692	1/1	0.95	0.06	59,59,59,59	0
84	MG	AS	3486	1/1	0.95	0.12	44,44,44,44	0
84	MG	1	3515	1/1	0.95	0.23	33,33,33,33	0
84	MG	AS	3488	1/1	0.95	0.20	36,36,36,36	0
84	MG	CM	1846	1/1	0.95	0.14	46,46,46,46	0
84	MG	CM	1847	1/1	0.95	0.16	45,45,45,45	0
84	MG	AS	3418	1/1	0.95	0.11	17,17,17,17	0
84	MG	AS	3490	1/1	0.95	0.17	39,39,39,39	0
84	MG	CM	1967	1/1	0.95	0.07	60,60,60,60	0
84	MG	1	3485	1/1	0.95	0.21	37,37,37,37	0
84	MG	AS	3420	1/1	0.95	0.17	50,50,50,50	0
84	MG	AS	3493	1/1	0.95	0.22	34,34,34,34	0
84	MG	1	3497	1/1	0.95	0.25	29,29,29,29	0
84	MG	AS	3496	1/1	0.95	0.07	31,31,31,31	0
84	MG	1	3857	1/1	0.95	0.12	29,29,29,29	0
84	MG	1	3631	1/1	0.95	0.09	23,23,23,23	0
84	MG	1	3408	1/1	0.95	0.16	22,22,22,22	0
84	MG	AU	207	1/1	0.95	0.06	40,40,40,40	0
84	MG	1	3752	1/1	0.95	0.19	37,37,37,37	0
84	MG	AS	3756	1/1	0.95	0.17	35,35,35,35	0
84	MG	CM	1865	1/1	0.95	0.24	51,51,51,51	0
84	MG	AS	3430	1/1	0.95	0.28	29,29,29,29	0
84	MG	1	3904	1/1	0.95	0.24	46,46,46,46	0
84	MG	1	3677	1/1	0.95	0.15	47,47,47,47	0
84	MG	6	203	1/1	0.95	0.08	39,39,39,39	0
84	MG	CP	301	1/1	0.95	0.23	38,38,38,38	0
84	MG	1	3420	1/1	0.95	0.17	42,42,42,42	0
84	MG	CM	1872	1/1	0.95	0.23	32,32,32,32	0
84	MG	AS	3508	1/1	0.95	0.27	29,29,29,29	0
84	MG	AS	3763	1/1	0.95	0.12	41,41,41,41	0
84	MG	1	3635	1/1	0.95	0.13	26,26,26,26	0
84	MG	1	3421	1/1	0.95	0.38	26,26,26,26	0
84	MG	AB	201	1/1	0.95	0.21	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3677	1/1	0.95	0.08	31,31,31,31	0
84	MG	AS	3678	1/1	0.95	0.35	29,29,29,29	0
84	MG	1	3731	1/1	0.95	0.10	34,34,34,34	0
84	MG	1	3490	1/1	0.95	0.11	50,50,50,50	0
84	MG	1	3579	1/1	0.95	0.11	55,55,55,55	0
84	MG	AS	3443	1/1	0.95	0.09	48,48,48,48	0
84	MG	AS	3516	1/1	0.95	0.30	35,35,35,35	0
84	MG	BJ	302	1/1	0.95	0.14	53,53,53,53	0
84	MG	CM	1886	1/1	0.95	0.13	53,53,53,53	0
84	MG	1	3760	1/1	0.95	0.21	33,33,33,33	0
84	MG	AS	3779	1/1	0.95	0.24	48,48,48,48	0
84	MG	1	3491	1/1	0.95	0.11	35,35,35,35	0
84	MG	1	3762	1/1	0.95	0.13	38,38,38,38	0
84	MG	CM	1891	1/1	0.95	0.09	54,54,54,54	0
84	MG	BN	202	1/1	0.95	0.08	37,37,37,37	0
84	MG	AS	3657	1/1	0.96	0.07	47,47,47,47	0
84	MG	1	3907	1/1	0.96	0.18	30,30,30,30	0
84	MG	AS	3505	1/1	0.96	0.16	63,63,63,63	0
84	MG	1	3651	1/1	0.96	0.20	39,39,39,39	0
84	MG	B	1846	1/1	0.96	0.19	36,36,36,36	0
84	MG	B	1890	1/1	0.96	0.08	37,37,37,37	0
84	MG	B	1942	1/1	0.96	0.29	49,49,49,49	0
84	MG	B	1847	1/1	0.96	0.18	41,41,41,41	0
84	MG	1	3405	1/1	0.96	0.37	33,33,33,33	0
84	MG	1	3832	1/1	0.96	0.16	36,36,36,36	0
84	MG	B	1997	1/1	0.96	0.08	48,48,48,48	0
84	MG	1	3747	1/1	0.96	0.16	43,43,43,43	0
84	MG	B	1895	1/1	0.96	0.09	52,52,52,52	0
84	MG	1	3834	1/1	0.96	0.08	35,35,35,35	0
84	MG	B	1810	1/1	0.96	0.12	21,21,21,21	0
84	MG	AS	3755	1/1	0.96	0.18	43,43,43,43	0
84	MG	B	1950	1/1	0.96	0.16	55,55,55,55	0
84	MG	1	3452	1/1	0.96	0.08	32,32,32,32	0
84	MG	AS	3453	1/1	0.96	0.25	33,33,33,33	0
84	MG	1	3596	1/1	0.96	0.20	32,32,32,32	0
84	MG	CM	1934	1/1	0.96	0.06	53,53,53,53	0
84	MG	AS	3522	1/1	0.96	0.25	31,31,31,31	0
84	MG	B	1900	1/1	0.96	0.18	63,63,63,63	0
84	MG	AS	3524	1/1	0.96	0.14	47,47,47,47	0
84	MG	AS	3525	1/1	0.96	0.12	65,65,65,65	0
84	MG	AS	3526	1/1	0.96	0.20	40,40,40,40	0
84	MG	1	3975	1/1	0.96	0.04	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	AS	3766	1/1	0.96	0.06	52,52,52,52	0
84	MG	AS	3767	1/1	0.96	0.10	53,53,53,53	0
84	MG	B	1856	1/1	0.96	0.13	38,38,38,38	0
84	MG	1	3641	1/1	0.96	0.25	29,29,29,29	0
84	MG	1	3946	1/1	0.96	0.12	35,35,35,35	0
84	MG	Y	201	1/1	0.96	0.06	30,30,30,30	0
84	MG	1	3889	1/1	0.96	0.13	36,36,36,36	0
84	MG	B	1818	1/1	0.96	0.19	36,36,36,36	0
84	MG	1	3890	1/1	0.96	0.06	27,27,27,27	0
84	MG	1	4014	1/1	0.96	0.10	43,43,43,43	0
84	MG	CM	1860	1/1	0.96	0.06	52,52,52,52	0
84	MG	B	1821	1/1	0.96	0.23	31,31,31,31	0
84	MG	AS	3693	1/1	0.96	0.10	52,52,52,52	0
84	MG	AS	3780	1/1	0.96	0.12	47,47,47,47	0
84	MG	AS	3537	1/1	0.96	0.11	50,50,50,50	0
84	MG	1	3712	1/1	0.96	0.18	32,32,32,32	0
84	MG	CM	1959	1/1	0.96	0.12	56,56,56,56	0
84	MG	1	3461	1/1	0.96	0.20	19,19,19,19	0
84	MG	f	102	1/1	0.96	0.09	61,61,61,61	0
84	MG	1	3893	1/1	0.96	0.18	39,39,39,39	0
84	MG	CM	1870	1/1	0.96	0.16	63,63,63,63	0
84	MG	1	3429	1/1	0.96	0.12	35,35,35,35	0
84	MG	AS	3787	1/1	0.96	0.08	55,55,55,55	0
84	MG	AS	3620	1/1	0.96	0.18	37,37,37,37	0
84	MG	AS	3403	1/1	0.96	0.23	22,22,22,22	0
84	MG	AS	3474	1/1	0.96	0.15	33,33,33,33	0
84	MG	r	302	1/1	0.96	0.22	29,29,29,29	0
84	MG	AS	3624	1/1	0.96	0.09	37,37,37,37	0
84	MG	B	1968	1/1	0.96	0.14	58,58,58,58	0
84	MG	1	3599	1/1	0.96	0.17	43,43,43,43	0
84	MG	AS	3707	1/1	0.96	0.25	33,33,33,33	0
84	MG	1	3403	1/1	0.96	0.19	46,46,46,46	0
84	MG	B	1971	1/1	0.96	0.12	46,46,46,46	0
84	MG	AS	3409	1/1	0.96	0.26	24,24,24,24	0
84	MG	B	1918	1/1	0.96	0.07	47,47,47,47	0
84	MG	AS	3800	1/1	0.96	0.06	41,41,41,41	0
84	MG	AS	3801	1/1	0.96	0.12	54,54,54,54	0
84	MG	1	3986	1/1	0.96	0.06	36,36,36,36	0
84	MG	AS	3412	1/1	0.96	0.36	47,47,47,47	0
84	MG	AS	3415	1/1	0.96	0.21	28,28,28,28	0
84	MG	1	3701	1/1	0.96	0.05	47,47,47,47	0
84	MG	1	3777	1/1	0.96	0.24	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	CM	1892	1/1	0.96	0.14	43,43,43,43	0
84	MG	B	1832	1/1	0.96	0.27	38,38,38,38	0
84	MG	1	3702	1/1	0.96	0.06	55,55,55,55	0
84	MG	B	1876	1/1	0.96	0.13	58,58,58,58	0
84	MG	1	3959	1/1	0.96	0.14	47,47,47,47	0
84	MG	AS	3640	1/1	0.96	0.15	48,48,48,48	0
84	MG	1	3619	1/1	0.96	0.05	38,38,38,38	0
84	MG	w	301	1/1	0.96	0.27	42,42,42,42	0
84	MG	1	3721	1/1	0.96	0.08	40,40,40,40	0
84	MG	AS	3427	1/1	0.96	0.20	30,30,30,30	0
84	MG	AS	3495	1/1	0.96	0.12	34,34,34,34	0
84	MG	DG	202	1/1	0.96	0.10	61,61,61,61	0
84	MG	1	3479	1/1	0.96	0.28	17,17,17,17	0
84	MG	AS	3497	1/1	0.96	0.19	36,36,36,36	0
84	MG	1	3723	1/1	0.96	0.09	30,30,30,30	0
84	MG	AS	3650	1/1	0.96	0.07	30,30,30,30	0
84	MG	CM	1814	1/1	0.96	0.29	41,41,41,41	0
84	MG	1	3621	1/1	0.96	0.06	58,58,58,58	0
84	MG	1	3905	1/1	0.96	0.06	36,36,36,36	0
84	MG	AS	3735	1/1	0.96	0.05	31,31,31,31	0
85	ZN	CH	101	1/1	0.96	0.12	150,150,150,150	0
84	MG	AS	3433	1/1	0.96	0.08	41,41,41,41	0
84	MG	1	3998	1/1	0.96	0.09	40,40,40,40	0
84	MG	1	3495	1/1	0.96	0.24	23,23,23,23	0
84	MG	AS	3664	1/1	0.97	0.06	80,80,80,80	0
84	MG	k	407	1/1	0.97	0.16	36,36,36,36	0
84	MG	AS	3716	1/1	0.97	0.09	33,33,33,33	0
84	MG	CM	1832	1/1	0.97	0.30	31,31,31,31	0
84	MG	6	201	1/1	0.97	0.12	38,38,38,38	0
84	MG	1	3504	1/1	0.97	0.07	26,26,26,26	0
84	MG	1	3940	1/1	0.97	0.13	40,40,40,40	0
84	MG	AS	3823	1/1	0.97	0.19	43,43,43,43	0
84	MG	1	3824	1/1	0.97	0.10	46,46,46,46	0
84	MG	AS	3575	1/1	0.97	0.08	40,40,40,40	0
84	MG	1	3489	1/1	0.97	0.25	23,23,23,23	0
84	MG	1	3695	1/1	0.97	0.09	39,39,39,39	0
84	MG	1	3449	1/1	0.97	0.24	44,44,44,44	0
84	MG	B	1814	1/1	0.97	0.07	45,45,45,45	0
84	MG	AS	3777	1/1	0.97	0.24	42,42,42,42	0
84	MG	1	3646	1/1	0.97	0.12	37,37,37,37	0
84	MG	AS	3581	1/1	0.97	0.09	33,33,33,33	0
84	MG	1	3999	1/1	0.97	0.03	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3742	1/1	0.97	0.17	33,33,33,33	0
84	MG	1	3947	1/1	0.97	0.07	31,31,31,31	0
84	MG	CM	1849	1/1	0.97	0.05	46,46,46,46	0
84	MG	1	3922	1/1	0.97	0.21	48,48,48,48	0
84	MG	AS	3414	1/1	0.97	0.07	58,58,58,58	0
84	MG	1	3572	1/1	0.97	0.09	34,34,34,34	0
84	MG	B	1921	1/1	0.97	0.10	78,78,78,78	0
84	MG	AS	3460	1/1	0.97	0.10	34,34,34,34	0
84	MG	B	1922	1/1	0.97	0.07	41,41,41,41	0
84	MG	AS	3591	1/1	0.97	0.22	47,47,47,47	0
84	MG	CM	1857	1/1	0.97	0.14	29,29,29,29	0
84	MG	CM	1979	1/1	0.97	0.07	55,55,55,55	0
84	MG	1	3484	1/1	0.97	0.18	30,30,30,30	0
84	MG	1	3637	1/1	0.97	0.07	40,40,40,40	0
84	MG	CM	1802	1/1	0.97	0.41	29,29,29,29	0
84	MG	AS	3740	1/1	0.97	0.05	46,46,46,46	0
84	MG	B	1925	1/1	0.97	0.12	54,54,54,54	0
84	MG	AS	3421	1/1	0.97	0.09	29,29,29,29	0
84	MG	CM	1864	1/1	0.97	0.12	43,43,43,43	0
84	MG	1	3715	1/1	0.97	0.08	30,30,30,30	0
84	MG	AU	202	1/1	0.97	0.12	55,55,55,55	0
84	MG	1	3796	1/1	0.97	0.15	50,50,50,50	0
84	MG	1	3674	1/1	0.97	0.08	34,34,34,34	0
84	MG	1	3837	1/1	0.97	0.14	68,68,68,68	0
84	MG	AS	3554	1/1	0.97	0.11	44,44,44,44	0
84	MG	1	3798	1/1	0.97	0.23	35,35,35,35	0
84	MG	1	3553	1/1	0.97	0.07	50,50,50,50	0
84	MG	AU	209	1/1	0.97	0.04	33,33,33,33	0
84	MG	AS	3603	1/1	0.97	0.11	38,38,38,38	0
84	MG	AS	3651	1/1	0.97	0.08	54,54,54,54	0
84	MG	AS	3429	1/1	0.97	0.28	27,27,27,27	0
84	MG	1	3538	1/1	0.97	0.12	36,36,36,36	0
84	MG	1	3492	1/1	0.97	0.25	22,22,22,22	0
84	MG	3	205	1/1	0.97	0.17	30,30,30,30	0
84	MG	3	206	1/1	0.97	0.08	63,63,63,63	0
84	MG	1	3863	1/1	0.97	0.05	57,57,57,57	0
84	MG	1	3864	1/1	0.97	0.11	51,51,51,51	0
84	MG	1	3988	1/1	0.97	0.10	69,69,69,69	0
84	MG	CM	1943	1/1	0.97	0.15	48,48,48,48	0
84	MG	1	3410	1/1	0.97	0.32	25,25,25,25	0
84	MG	1	3913	1/1	0.97	0.09	33,33,33,33	0
85	ZN	DN	201	1/1	0.97	0.04	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3548	1/1	0.97	0.16	26,26,26,26	0
84	MG	B	1905	1/1	0.97	0.05	39,39,39,39	0
84	MG	AS	3553	1/1	0.98	0.10	29,29,29,29	0
84	MG	AS	3711	1/1	0.98	0.05	45,45,45,45	0
84	MG	1	3817	1/1	0.98	0.17	34,34,34,34	0
84	MG	AS	3776	1/1	0.98	0.07	40,40,40,40	0
84	MG	1	3878	1/1	0.98	0.04	35,35,35,35	0
84	MG	1	3769	1/1	0.98	0.11	27,27,27,27	0
84	MG	1	3850	1/1	0.98	0.15	28,28,28,28	0
84	MG	AS	3802	1/1	0.98	0.04	48,48,48,48	0
84	MG	1	3869	1/1	0.98	0.12	48,48,48,48	0
84	MG	AS	3473	1/1	0.98	0.15	28,28,28,28	0
84	MG	CM	1945	1/1	0.98	0.09	40,40,40,40	0
84	MG	j	303	1/1	0.98	0.11	26,26,26,26	0
84	MG	CM	1972	1/1	0.98	0.07	40,40,40,40	0
84	MG	AS	3561	1/1	0.98	0.05	29,29,29,29	0
84	MG	1	3634	1/1	0.98	0.08	33,33,33,33	0
84	MG	1	3871	1/1	0.98	0.08	47,47,47,47	0
84	MG	AS	3444	1/1	0.98	0.10	41,41,41,41	0
84	MG	AS	3641	1/1	0.98	0.06	41,41,41,41	0
85	ZN	AQ	101	1/1	0.98	0.06	84,84,84,84	0
84	MG	AW	301	1/1	0.98	0.12	37,37,37,37	0
85	ZN	f	101	1/1	0.98	0.08	75,75,75,75	0
84	MG	1	3630	1/1	0.98	0.07	44,44,44,44	0
84	MG	AS	3413	1/1	0.98	0.24	25,25,25,25	0
85	ZN	CE	101	1/1	0.98	0.04	71,71,71,71	0
84	MG	x	203	1/1	0.98	0.30	37,37,37,37	0
84	MG	1	3570	1/1	0.98	0.15	29,29,29,29	0
84	MG	1	3625	1/1	0.98	0.23	31,31,31,31	0
84	MG	1	3830	1/1	0.98	0.06	37,37,37,37	0
85	ZN	DQ	101	1/1	0.98	0.10	51,51,51,51	0
84	MG	1	3571	1/1	0.98	0.05	26,26,26,26	0
84	MG	AS	3402	1/1	0.99	0.04	39,39,39,39	0
84	MG	AS	3692	1/1	0.99	0.03	50,50,50,50	0
85	ZN	c	201	1/1	0.99	0.04	84,84,84,84	0
85	ZN	CK	101	1/1	0.99	0.03	116,116,116,116	0
84	MG	AS	3436	1/1	0.99	0.09	37,37,37,37	0
84	MG	1	3423	1/1	0.99	0.30	24,24,24,24	0
84	MG	AS	3830	1/1	0.99	0.04	49,49,49,49	0
84	MG	AS	3422	1/1	0.99	0.06	28,28,28,28	0
84	MG	1	3407	1/1	1.00	0.03	42,42,42,42	0
85	ZN	AK	101	1/1	1.00	0.04	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
84	MG	1	3439	1/1	1.00	0.07	28,28,28,28	0

6.5 Other polymers (i)

There are no such residues in this entry.