



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 2, 2024 – 12:41 am BST

PDB ID : 8OJ3
Title : Crystal structure of the Candida albicans 80S ribosome in complex with geneticin G418 (rotated state)
Authors : Kolosova, O.; Zgadzay, Y.; Yusupov, M.
Deposited on : 2023-03-23
Resolution : 3.50 Å (reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

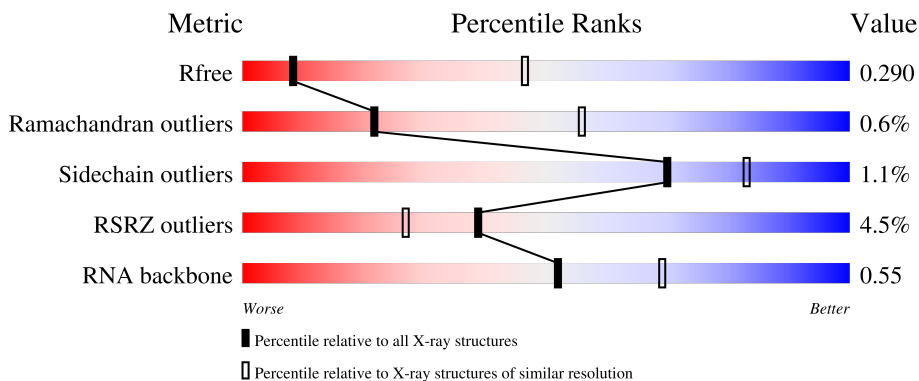
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 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	1094 (3.56-3.44)
Ramachandran outliers	177936	1032 (3.54-3.46)
Sidechain outliers	177891	1033 (3.54-3.46)
RSRZ outliers	164620	1093 (3.56-3.44)
RNA backbone	3690	1089 (4.00-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	3359	
1	AS	3359	
2	3	121	
2	AT	121	
3	4	158	

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Mol	Chain	Length	Quality of chain
3	AU	158	4% 82% 16%
4	AW	254	8% 98%
4	j	254	5% 98%
5	AX	389	7% 98%
5	k	389	4% 99%
6	AY	363	12% 98%
6	l	363	7% 98%
7	AZ	298	9% 97%
7	m	298	6% 98%
8	BA	176	7% 87% 13%
8	n	176	3% 89% 11%
9	BB	241	8% 93% 6%
9	o	241	5% 94% 5%
10	BC	262	3% 85% 11%
10	p	262	2% 89% 10%
11	BD	191	5% 99%
11	q	191	% 99%
12	r	219	3% 94% 5%
13	BF	174	3% 97%
13	s	174	6% 97%
14	BG	202	3% 95%
14	t	202	3% 98%
15	BH	131	2% 99%
15	u	131	6% 97%
16	BI	204	15% 100%

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Mol	Chain	Length	Quality of chain
16	v	204	16% 99%
17	BJ	200	7% 100%
17	w	200	4% 99%
18	BK	185	3% 93% 6%
18	x	185	4% 91% 9%
19	BL	186	9% 99% ..
19	y	186	8% 99% .
20	BM	190	6% 92% 6%
20	z	190	6% 92% 6%
21	0	172	2% 98% ..
21	BN	172	98% ..
22	2	160	6% 99% .
22	BO	160	10% 99% ..
23	5	124	77% 19%
23	BP	124	70% 10% 20%
24	6	137	4% 95% ..
24	BQ	137	3% 95% ..
25	7	155	74% 24%
25	BR	155	3% 68% 30%
26	8	142	8% 84% 15%
26	BS	142	2% 82% 16%
27	9	127	2% 98% ..
27	BT	127	6% 98% ..
28	AA	136	% 99% .
28	BU	136	% 96% ..

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Mol	Chain	Length	Quality of chain
29	AB	149	8% 99% ..
29	BV	149	5% 99% ..
30	AC	63	14% 87% 5% 8%
30	BW	63	13% 95% 5%
31	AD	106	91% . 8%
31	BX	106	88% . 11%
32	AE	112	4% 96% ..
32	BY	112	7% 96% ..
33	AF	131	11% 95% 5%
33	BZ	131	6% 93% 7%
34	AG	107	7% 98% ..
34	CA	107	% 98% ..
35	AH	122	17% 90% . 8%
35	CB	122	16% 89% . 10%
36	AI	120	5% 96% .
36	CC	120	6% 94% ..
37	AJ	99	% 97% ..
37	CD	99	2% 94% . .
38	AK	90	6% 96% .
38	CE	90	7% 96% .
39	AL	78	% 99% .
39	CF	78	3% 91% 8% .
40	AM	51	6% 98% .
40	CG	51	10% 98% .
41	AN	52	10% 96% .

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Mol	Chain	Length	Quality of chain
41	CH	52	13% 94%
42	AO	25	16% 96%
42	CI	25	16% 96%
43	AP	106	2% 96%
43	CJ	106	6% 95%
44	AQ	92	5% 99%
44	CK	92	% 99%
45	CL	267	2% 40% 55%
45	i	267	2% 30% 10% 60%
46	B	1787	4% 70% 24%
46	CM	1787	2% 69% 25%
47	C	261	3% 79% 20%
47	CN	261	3% 79% 20%
48	CO	256	2% 78% 5% 17%
48	D	256	2% 84% 16%
49	CP	249	3% 87% 13%
49	E	249	7% 87% 13%
50	CQ	251	4% 86% 11%
50	F	251	6% 88% 11%
51	CR	262	6% 99%
51	G	262	10% 98%
52	CS	225	5% 86% 5% 9%
52	H	225	8% 92% 8%
53	CT	236	4% 99%
53	I	236	10% 94% 6%

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Mol	Chain	Length	Quality of chain
54	CU	186	2% 90% 6%
54	J	186	6% 97% ..
55	CV	206	8% 99% .
55	K	206	7% 98% .
56	CW	189	5% 94% 6%
56	L	189	12% 94% 6%
57	CX	118	80% 20%
57	M	118	2% 81% 17%
58	CY	155	90% 9%
58	N	155	6% 91% 7%
59	CZ	143	74% 8% 17%
59	O	143	3% 73% 8% 19%
60	DA	151	3% 99% ..
60	P	151	7% 98% .
61	DB	132	2% 92% 8%
61	Q	132	6% 95% ..
62	DC	142	2% 85% 6% 8%
62	R	142	4% 89% 8%
63	DD	142	11% 96% ..
63	S	142	8% 96% ..
64	DE	137	4% 91% 9%
64	T	137	3% 88% 9%
65	DF	145	% 94% ..
65	U	145	2% 97% ..
66	DG	145	3% 97% .

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Mol	Chain	Length	Quality of chain
66	V	145	97%
67	DH	119	79% 18%
67	W	119	83% 14%
68	DI	87	100%
68	X	87	100%
69	DJ	130	98%
69	Y	130	99%
70	DK	145	98%
70	Z	145	98%
71	DL	135	98%
71	a	135	99%
72	DM	105	68% 32%
72	b	105	69% 31%
73	DN	119	82% 18%
73	c	119	80% 18%
74	DO	82	99%
74	d	82	99%
75	DP	67	91% 9%
75	e	67	88% 10%
76	DQ	56	91% 5%
76	f	56	89% 5%
77	DR	63	89% 5% 6%
77	g	63	95% 5%
78	DS	193	28% 7% 65%
78	h	193	34% 64%

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Mol	Chain	Length	Quality of chain
79	AR	317	
79	DT	317	
80	BE	220	
81	P0	312	
82	12	165	

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	3508	-	-	-	X
84	MG	1	3731	-	-	-	X
84	MG	1	3870	-	-	-	X
84	MG	AS	3422	-	-	-	X
84	MG	AS	3641	-	-	-	X
84	MG	AS	3654	-	-	-	X
84	MG	CL	301	-	-	-	X

2 Entry composition [i](#)

There are 86 unique types of molecules in this entry. The entry contains 400037 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 ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	1	3218	Total	C	N	O	P	0	0	0
			68791	30731	12364	22478	3218			
1	AS	3101	Total	C	N	O	P	0	0	0
			66291	29614	11913	21663	3101			

- Molecule 2 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
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 ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	4	156	Total	C	N	O	P	0	0	0
			3313	1482	581	1094	156			
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
			Total	C	N	O	S			
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	0	0
			3077	1950	582	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	359	Total	C	N	O	S	0	0	0
			2734	1720	524	487	3			
6	AY	359	Total	C	N	O	S	0	0	0
			2734	1720	524	487	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	m	294	Total	C	N	O	S	0	0	0
			2409	1534	419	455	1			
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	S	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	229	Total	C	N	O	S	0	0	0
			1843	1182	338	322	1			
9	BB	226	Total	C	N	O	S	0	0	0
			1816	1165	333	317	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	p	236	Total	C	N	O	S	0	0	0
			1825	1168	324	330	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
12	r	207	Total	C	N	O	S	0	0	0
			1681	1064	321	290	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
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
			Total	C	N	O			
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
			Total	C	N	O	S			
15	u	128	Total	C	N	O	S	0	0	0
			1015	651	190	173	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	169	Total	C	N	O	0	0	0
			1352	835	273	244			
18	BK	174	Total	C	N	O	0	0	0
			1396	862	282	252			

- 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			

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
23	5	100	803	518	135	150	0	0	0
23	BP	99	794	512	133	149	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
25	7	118	945	591	192	161	1	0	0	0
25	BR	109	877	549	178	149	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
26	8	120	965	616	173	175	1	0	0	0
26	BS	119	960	613	172	174	1	0	0	0

- Molecule 27 is a protein called Ribosomal protein L24.

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
30	AC	58	Total	C	N	O	0	0	0
			464	290	100	74			
30	BW	60	Total	C	N	O	0	0	0
			482	301	103	78			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
31	AD	98	Total	C	N	O	S	0	0	0
			747	479	124	142	2			
31	BX	94	Total	C	N	O	S	0	0	0
			715	460	119	134	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AE	108	Total	C	N	O	S	0	0	0
			881	556	166	157	2			
32	BY	108	Total	C	N	O	S	0	0	0
			881	556	166	157	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	122	Total	C	N	O	S	0	0	0
			991	633	192	165	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	110	Total	C	N	O	S	0	0	0
			869	536	179	150	4			

- Molecule 36 is a protein called Ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	AI	115	Total	C	N	O	0	0	0
			963	611	190	162			
36	CC	117	Total	C	N	O	0	0	0
			974	618	192	164			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AJ	97	Total	C	N	O	S	0	0	0
			758	471	156	130	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
37	CD	95	736	459	148	128	1	0	0	0

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
41	AN	50	402	249	83	65	5	0	0	0
41	CH	50	403	249	84	65	5	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
42	AO	25	236	144	63	28	1	0	0	0
42	CI	24	227	138	61	27	1	0	0	0

- 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	106	Total	C	N	O	0	0	0
			805	483	147	175			
45	CL	120	Total	C	N	O	0	0	0
			919	554	165	200			

- Molecule 46 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B	1708	Total	C	N	O	P	0	0	0
			36410	16276	6460	11966	1708			
46	CM	1728	Total	C	N	O	P	0	0	0
			36839	16468	6538	12105	1728			

- 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	213	Total	C	N	O	S	0	0	0
			1717	1089	312	312	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	258	Total	C	N	O	S	0	0	0
			2042	1299	383	355	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	205	Total	C	N	O	S	0	0	0
			1606	1002	300	300	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	I	223	Total	C	N	O	S	0	0	0
			1798	1119	348	325	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
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
			Total	C	N	O			
54	J	182	Total	C	N	O	0	0	0
			1466	939	264	263			
54	CU	179	Total	C	N	O	0	0	0
			1449	929	261	259			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
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
			Total	C	N	O	S			
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
			Total	C	N	O	S			
57	M	98	Total	C	N	O	S	0	0	0
			817	531	135	150	1			
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
			Total	C	N	O	S			
58	N	144	Total	C	N	O	S	0	0	0
			1150	734	215	198	3			
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 S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	O	116	Total	C	N	O	S	0	0	0
			885	550	158	172	5			
59	CZ	119	Total	C	N	O	S	0	0	0
			913	566	163	179	5			

- Molecule 60 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	P	148	Total	C	N	O	S	0	0	0
			1175	749	217	208	1			
60	DA	150	Total	C	N	O	S	0	0	0
			1187	757	219	210	1			

- Molecule 61 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	Q	127	Total	C	N	O	S	0	0	0
			942	579	186	174	3			
61	DB	122	Total	C	N	O	S	0	0	0
			905	555	180	167	3			

- Molecule 62 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	R	131	Total	C	N	O	S	0	0	0
			1034	658	190	179	7			
62	DC	130	Total	C	N	O	S	0	0	0
			1029	655	189	178	7			

- Molecule 63 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	S	139	Total	C	N	O	S	0	0	0
			1085	697	197	190	1			
63	DD	139	Total	C	N	O	S	0	0	0
			1085	697	197	190	1			

- Molecule 64 is a protein called 40S ribosomal protein S17-B.

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

- Molecule 65 is a protein called 40S ribosomal protein S18-B.

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

- Molecule 66 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 67 is a protein called Ribosomal protein S10.

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

- Molecule 68 is a protein called 40S ribosomal protein S21.

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

- Molecule 69 is a protein called 40S ribosomal protein S22-A.

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

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

- Molecule 70 is a protein called Ribosomal protein S23 (S12).

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

- Molecule 71 is a protein called 40S ribosomal protein S24.

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

- Molecule 72 is a protein called 40S ribosomal protein S25.

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

- Molecule 73 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
73	c	97	770	477	161	126	6	0	0	0
73	DN	98	779	482	163	128	6	0	0	0

- Molecule 74 is a protein called 40S ribosomal protein S27.

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

- Molecule 75 is a protein called 40S ribosomal protein S28-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	e	60	Total	C	N	O	S	0	0	0
			468	287	93	86	2			
75	DP	61	Total	C	N	O	S	0	0	0
			476	293	94	87	2			

- Molecule 76 is a protein called 40S ribosomal protein S29A.

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

- Molecule 77 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	g	60	Total	C	N	O	S	0	0	0
			474	297	96	79	2			
77	DR	59	Total	C	N	O	S	0	0	0
			470	295	95	78	2			

- Molecule 78 is a protein called Ubiquitin-40S ribosomal protein S31 fusion protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	h	70	Total	C	N	O	S	0	0	0
			574	362	113	93	6			
78	DS	68	Total	C	N	O	S	0	0	0
			555	350	108	91	6			

- Molecule 79 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	AR	311	Total	C	N	O	S	0	0	0
			2398	1519	412	462	5			
79	DT	307	Total	C	N	O	S	0	0	0
			2362	1498	403	456	5			

- Molecule 80 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
80	BE	205	Total 1662	C 1052	N 318	O 285	S 7	0	0	0

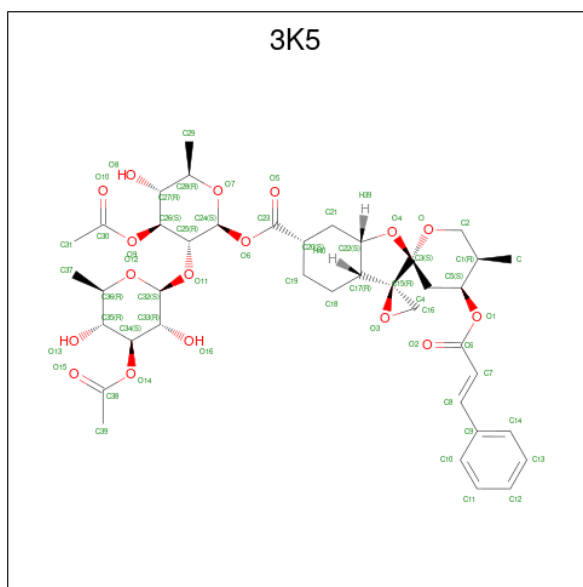
- Molecule 81 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
81	P0	107	Total 845	C 542	N 150	O 150	S 3	0	0	0

- Molecule 82 is a protein called 60S ribosomal protein L12-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
82	12	63	Total 480	C 297	N 85	O 96	S 2	0	0	0

- 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}decahy
 drodispiro[oxirane-2,3'-[1]benzofuran-2',2''-pyran]-6'-yl]carbonyl}-beta-D-glucopyranose
 (three-letter code: 3K5) (formula: C₄₀H₅₂O₁₇).



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

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	1	469	Total Mg 469 469	0	0
84	3	7	Total Mg 7 7	0	0
84	4	1	Total Mg 1 1	0	0
84	j	1	Total Mg 1 1	0	0
84	k	3	Total Mg 3 3	0	0
84	m	1	Total Mg 1 1	0	0
84	o	4	Total Mg 4 4	0	0
84	r	1	Total Mg 1 1	0	0
84	u	1	Total Mg 1 1	0	0
84	v	2	Total Mg 2 2	0	0
84	w	1	Total Mg 1 1	0	0
84	x	1	Total Mg 1 1	0	0
84	y	3	Total Mg 3 3	0	0
84	0	4	Total Mg 4 4	0	0
84	2	1	Total Mg 1 1	0	0
84	6	1	Total Mg 1 1	0	0
84	AB	2	Total Mg 2 2	0	0
84	AC	1	Total Mg 1 1	0	0
84	AD	1	Total Mg 1 1	0	0
84	AJ	1	Total Mg 1 1	0	0
84	AP	2	Total Mg 2 2	0	0
84	B	99	Total Mg 99 99	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	C	1	Total 1	Mg 1	0	0
84	D	1	Total 1	Mg 1	0	0
84	E	1	Total 1	Mg 1	0	0
84	F	1	Total 1	Mg 1	0	0
84	G	1	Total 1	Mg 1	0	0
84	K	1	Total 1	Mg 1	0	0
84	L	1	Total 1	Mg 1	0	0
84	Q	2	Total 2	Mg 2	0	0
84	R	4	Total 4	Mg 4	0	0
84	T	1	Total 1	Mg 1	0	0
84	Y	2	Total 2	Mg 2	0	0
84	a	1	Total 1	Mg 1	0	0
84	AS	389	Total 389	Mg 389	0	0
84	AT	5	Total 5	Mg 5	0	0
84	AU	5	Total 5	Mg 5	0	0
84	AW	1	Total 1	Mg 1	0	0
84	AX	3	Total 3	Mg 3	0	0
84	AY	2	Total 2	Mg 2	0	0
84	AZ	1	Total 1	Mg 1	0	0
84	BB	2	Total 2	Mg 2	0	0
84	BC	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	BE	1	Total Mg 1 1	0	0
84	BI	1	Total Mg 1 1	0	0
84	BK	1	Total Mg 1 1	0	0
84	BL	2	Total Mg 2 2	0	0
84	BO	1	Total Mg 1 1	0	0
84	BQ	1	Total Mg 1 1	0	0
84	BZ	1	Total Mg 1 1	0	0
84	CA	1	Total Mg 1 1	0	0
84	CB	1	Total Mg 1 1	0	0
84	CG	1	Total Mg 1 1	0	0
84	CL	2	Total Mg 2 2	0	0
84	CM	78	Total Mg 78 78	0	0
84	CW	1	Total Mg 1 1	0	0
84	DA	1	Total Mg 1 1	0	0
84	DG	1	Total Mg 1 1	0	0
84	DH	1	Total Mg 1 1	0	0
84	DK	2	Total Mg 2 2	0	0
84	P0	1	Total Mg 1 1	0	0

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

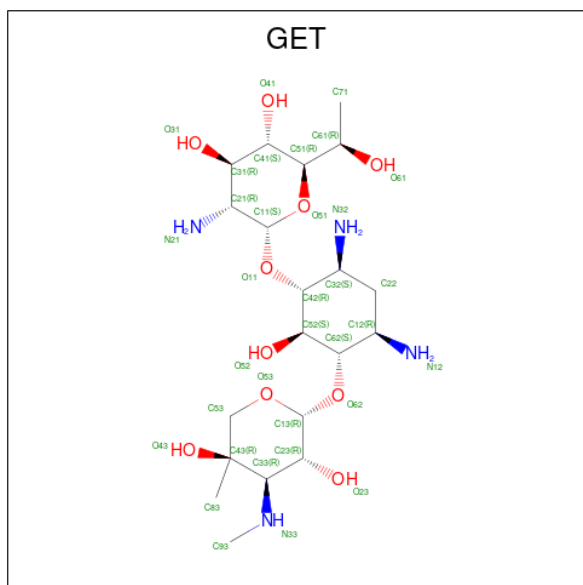
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	AH	1	Total Zn 1 1	0	0

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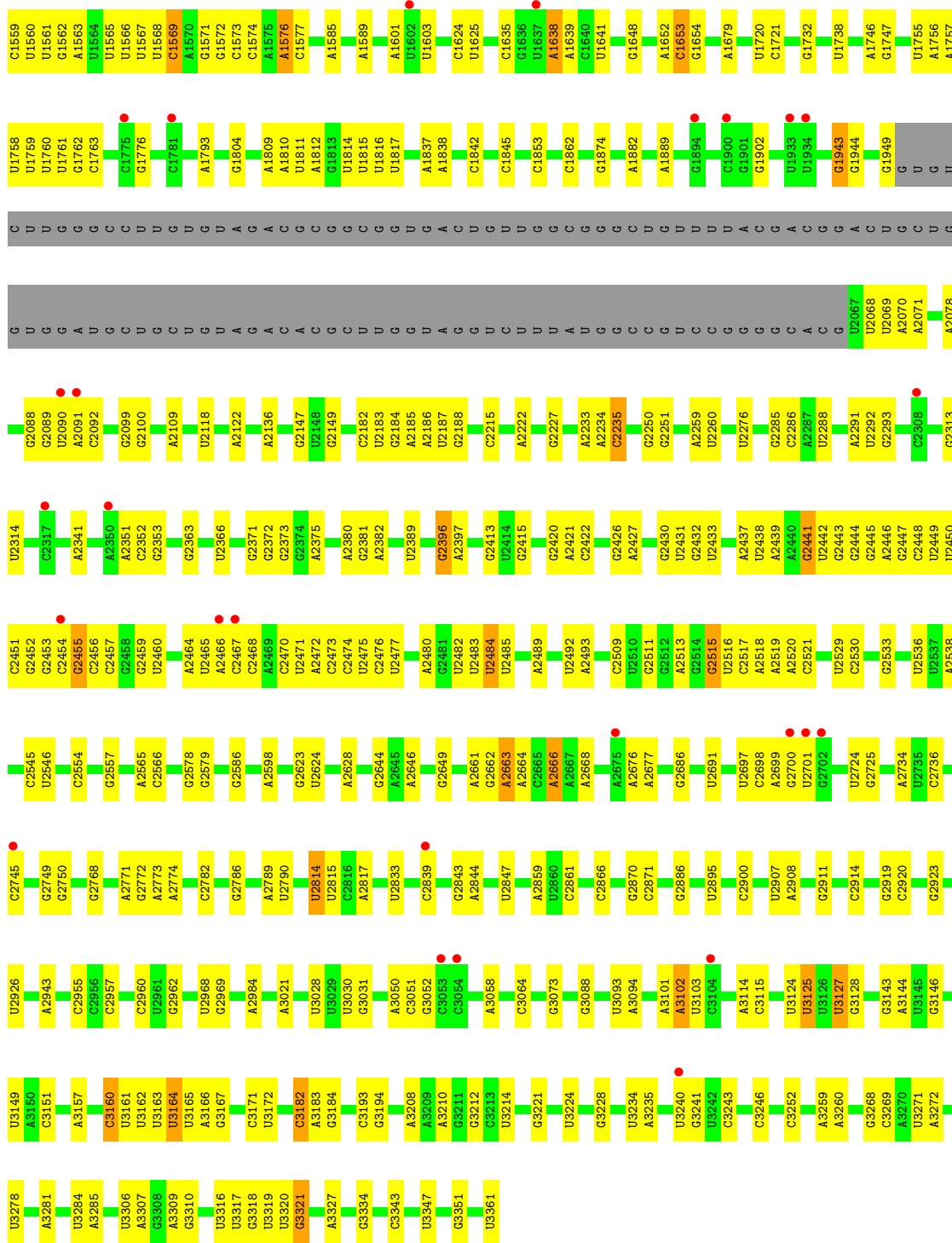
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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85	AN	1	Total Zn 1 1	0	0
85	AP	1	Total Zn 1 1	0	0
85	AQ	1	Total Zn 1 1	0	0
85	c	1	Total Zn 1 1	0	0
85	d	1	Total Zn 1 1	0	0
85	f	1	Total Zn 1 1	0	0
85	h	1	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	DQ	1	Total Zn 1 1	0	0
85	DS	1	Total Zn 1 1	0	0

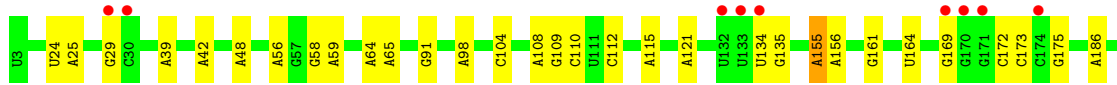
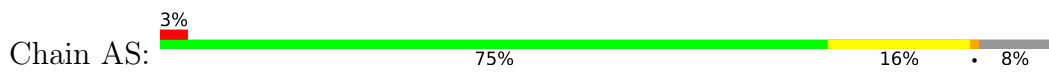
- Molecule 86 is GENETICIN (three-letter code: GET) (formula: C₂₀H₄₀N₄O₁₀) (labeled as "Ligand of Interest" by depositor).

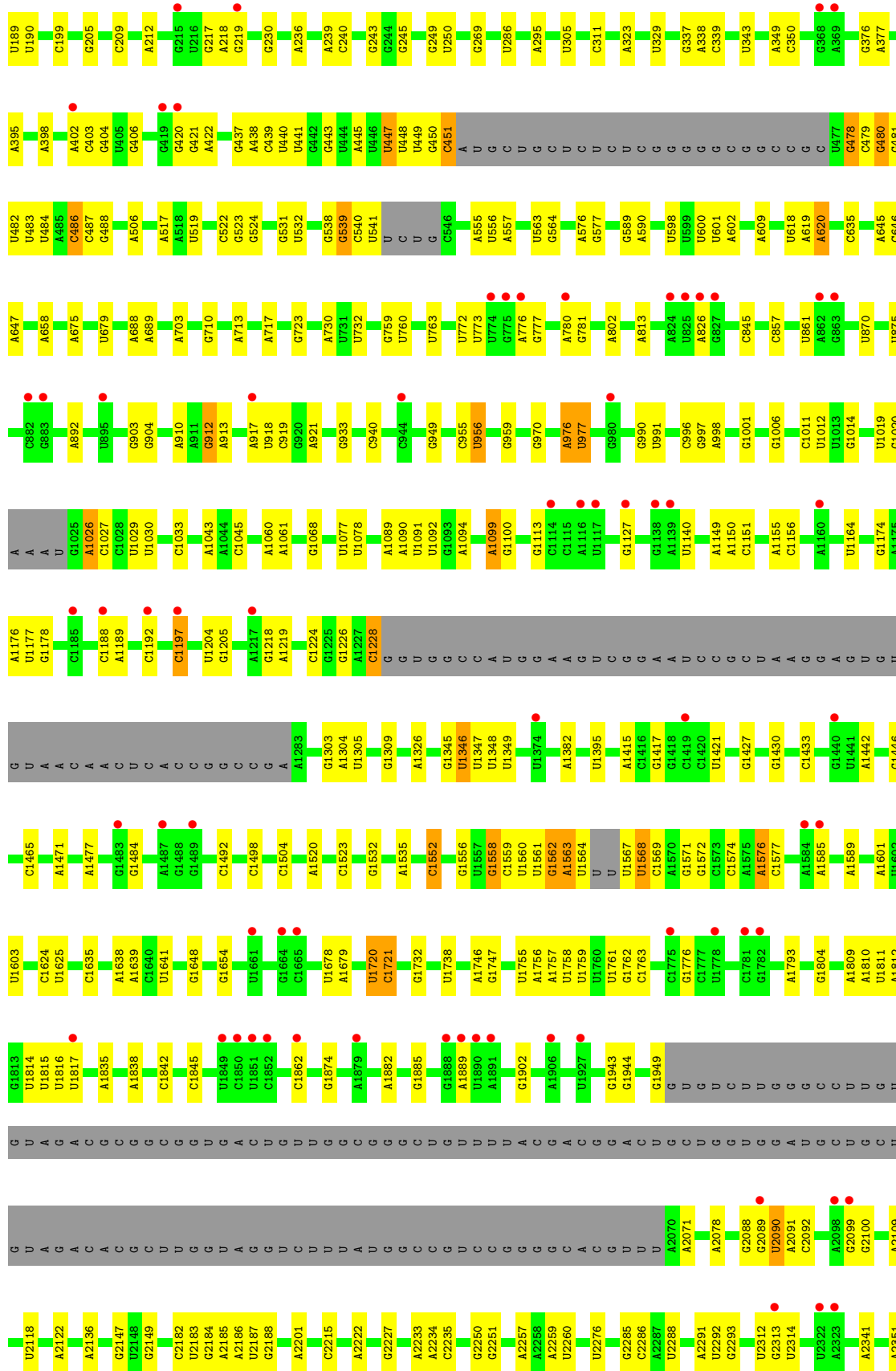


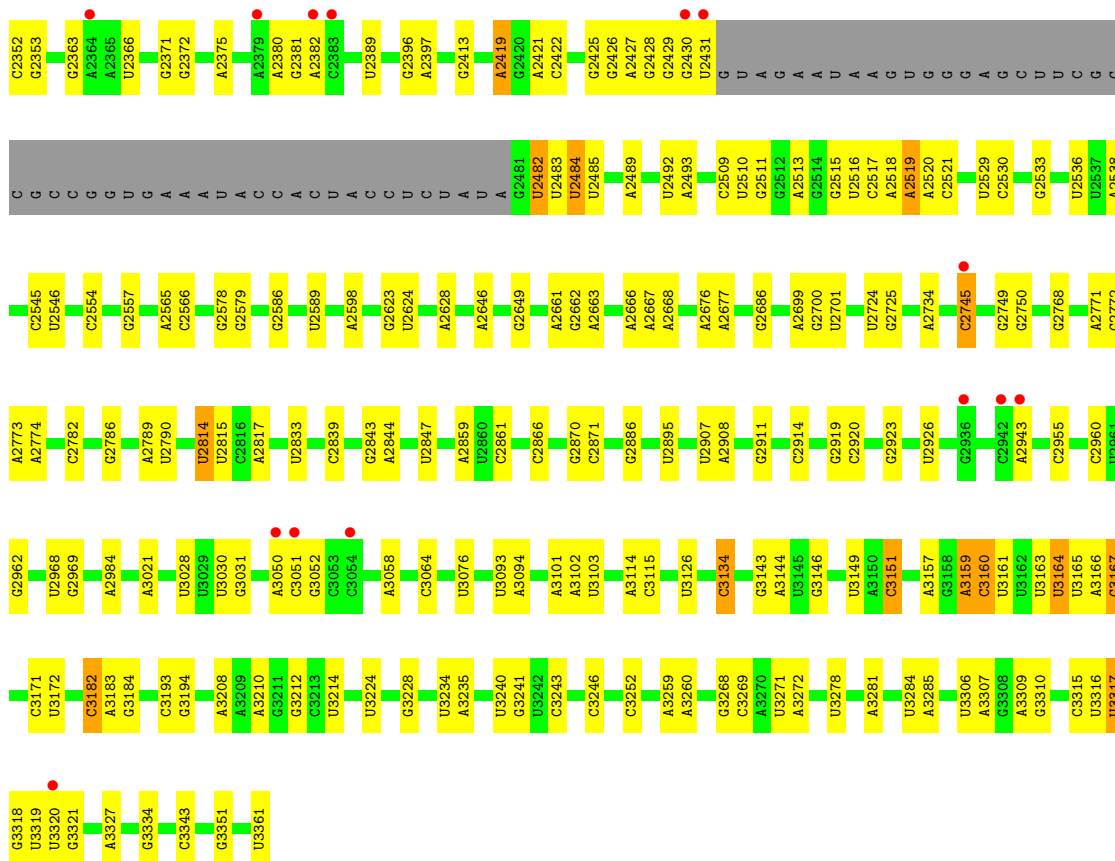
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	N			O
86	B	1	34	20	4	10	0	0
86	CM	1	34	20	4	10	0	0



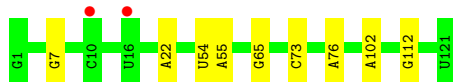
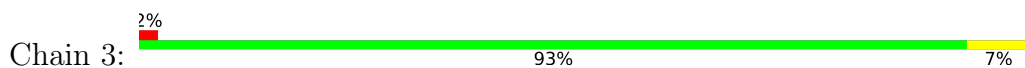
• Molecule 1: 25S ribosomal RNA



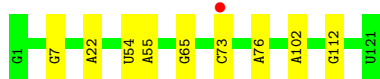




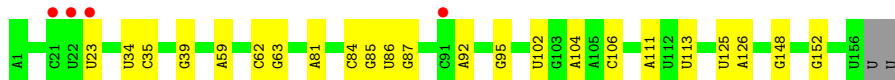
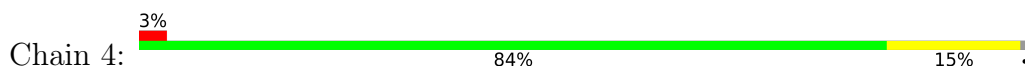
• Molecule 2: 5S ribosomal RNA



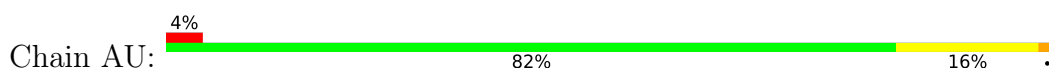
• Molecule 2: 5S ribosomal RNA



• Molecule 3: 5.8S ribosomal RNA

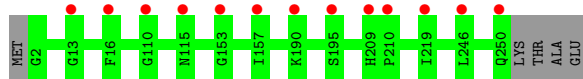


• Molecule 3: 5.8S ribosomal RNA

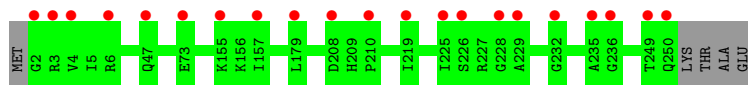




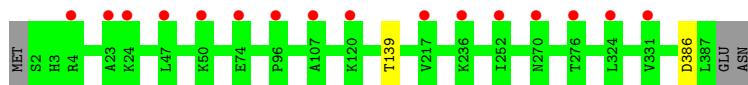
- Molecule 4: 60S ribosomal protein L2-B



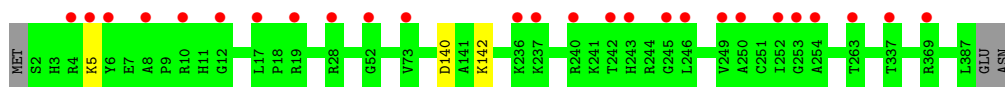
- Molecule 4: 60S ribosomal protein L2-B



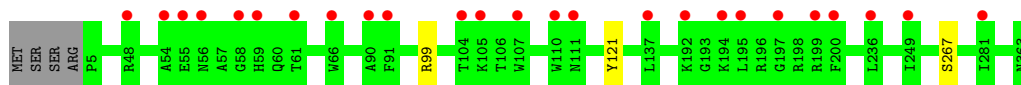
- Molecule 5: 60S ribosomal protein L3



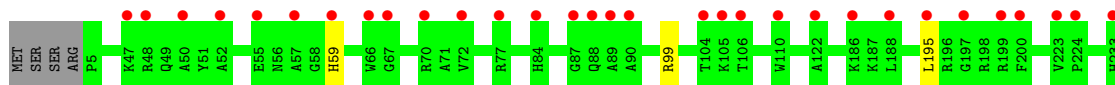
- Molecule 5: 60S ribosomal protein L3



- Molecule 6: 60S ribosomal protein L4-B



- Molecule 6: 60S ribosomal protein L4-B





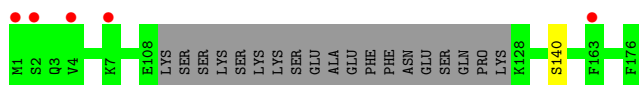
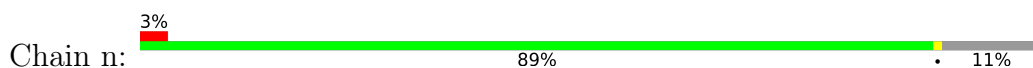
- Molecule 7: Uncharacterized protein CaJ7.0206



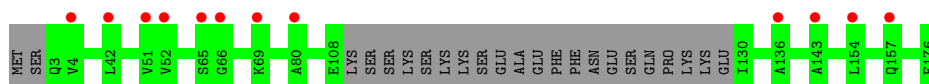
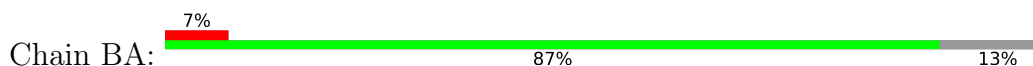
- Molecule 7: Uncharacterized protein CaJ7.0206



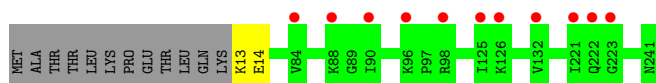
- Molecule 8: 60S ribosomal protein L6



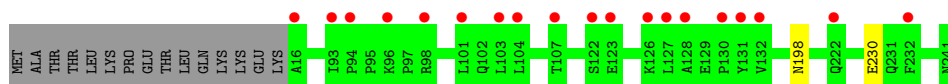
- Molecule 8: 60S ribosomal protein L6



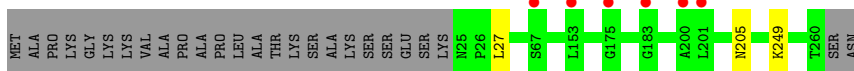
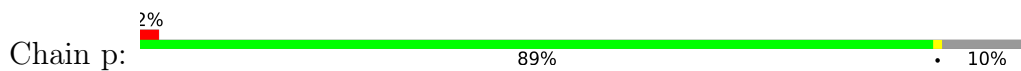
- Molecule 9: 60S ribosomal protein L7-A



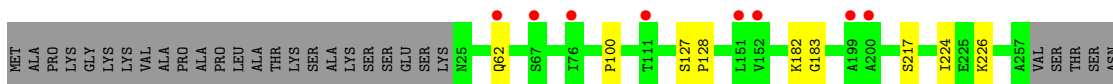
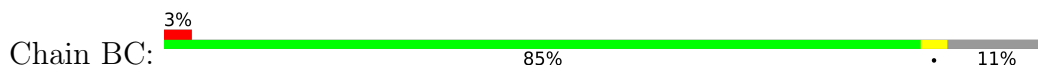
- Molecule 9: 60S ribosomal protein L7-A



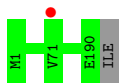
- Molecule 10: 60S ribosomal protein L8



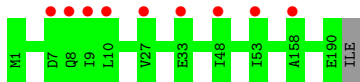
- Molecule 10: 60S ribosomal protein L8



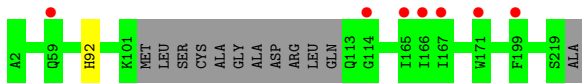
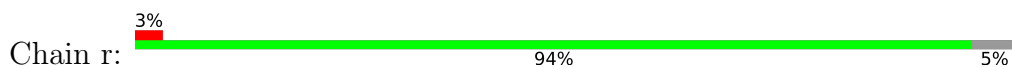
- Molecule 11: 60S ribosomal protein L9-B



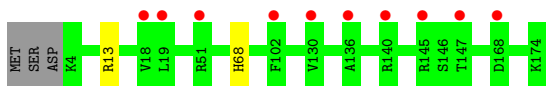
- Molecule 11: 60S ribosomal protein L9-B



- Molecule 12: 60S ribosomal protein L10



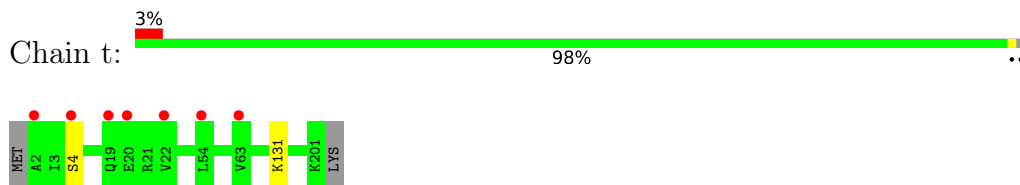
- Molecule 13: 60S ribosomal protein L11-B



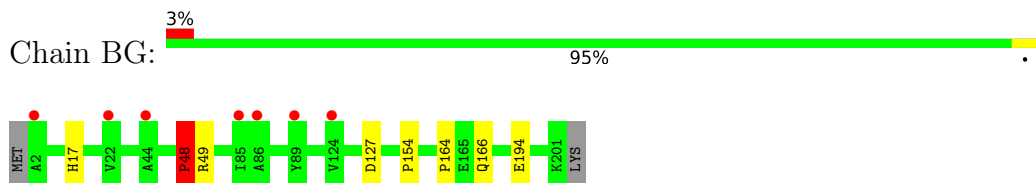
- Molecule 13: 60S ribosomal protein L11-B



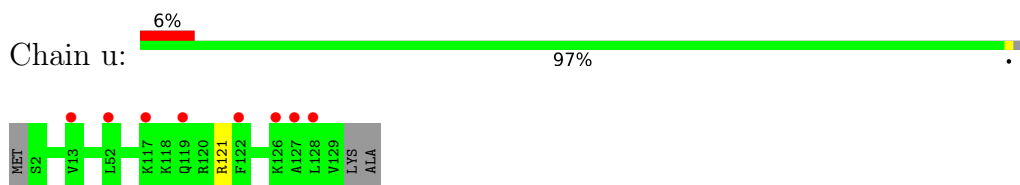
- Molecule 14: 60S ribosomal protein L13



- Molecule 14: 60S ribosomal protein L13



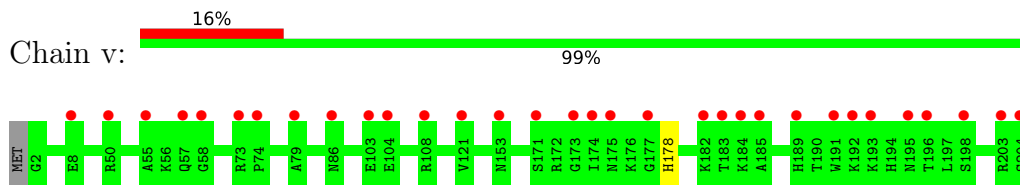
- Molecule 15: 60S ribosomal protein L14-B



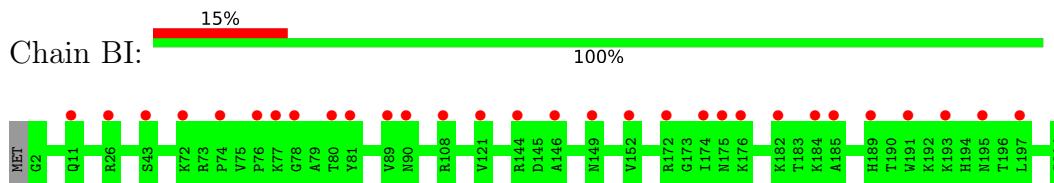
- Molecule 15: 60S ribosomal protein L14-B



- Molecule 16: 60S ribosomal protein L15-A

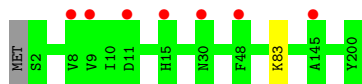


- Molecule 16: 60S ribosomal protein L15-A

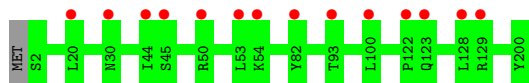


- Molecule 17: Ribosomal protein L13

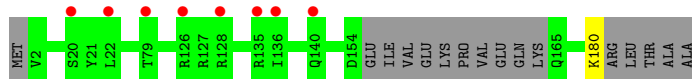
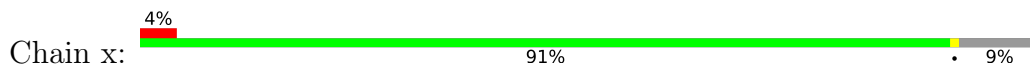




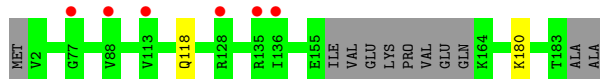
- Molecule 17: Ribosomal protein L13



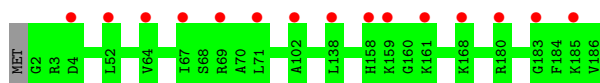
- Molecule 18: Ribosomal protein L22



- Molecule 18: Ribosomal protein L22



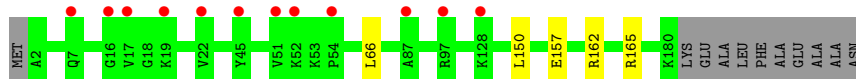
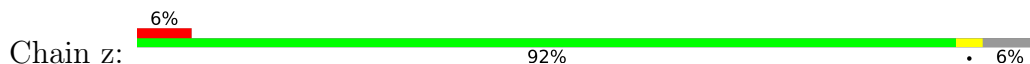
- Molecule 19: 60S ribosomal protein L18-A



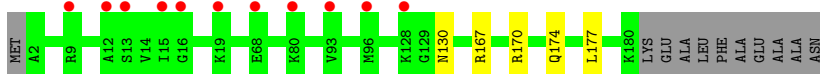
- Molecule 19: 60S ribosomal protein L18-A



- Molecule 20: 60S ribosomal protein L19-A



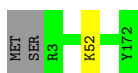
- Molecule 20: 60S ribosomal protein L19-A



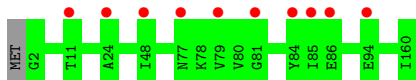
- Molecule 21: 60S ribosomal protein L20



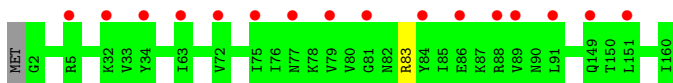
- Molecule 21: 60S ribosomal protein L20



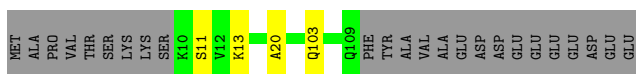
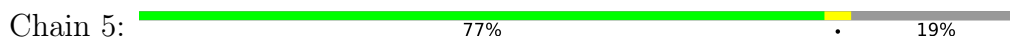
- Molecule 22: 60S ribosomal protein L21-A



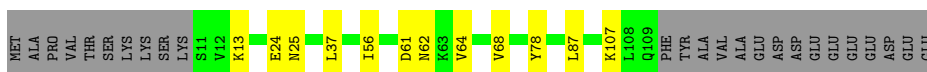
- Molecule 22: 60S ribosomal protein L21-A



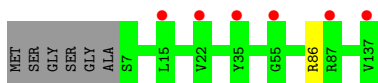
- Molecule 23: 60S ribosomal protein L22-B



- Molecule 23: 60S ribosomal protein L22-B



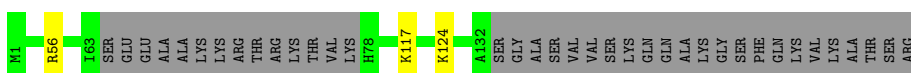
- Molecule 24: 60S ribosomal protein L23-A



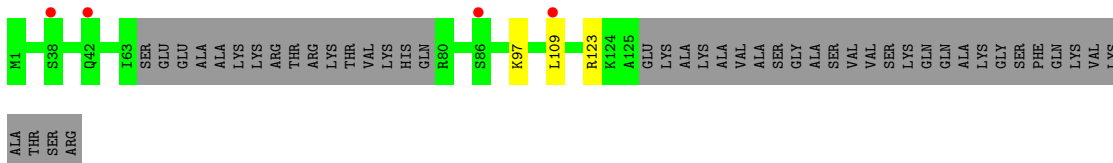
- Molecule 24: 60S ribosomal protein L23-A



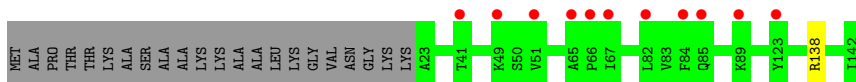
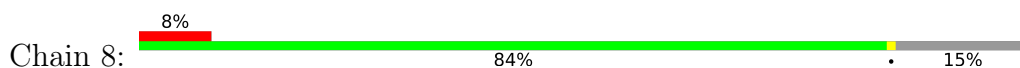
- Molecule 25: 60S ribosomal protein L24-A



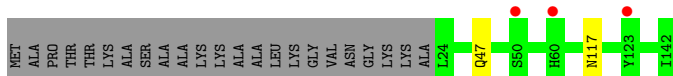
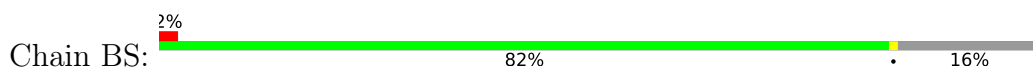
- Molecule 25: 60S ribosomal protein L24-A



- Molecule 26: 60S ribosomal protein L25

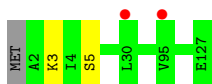


- Molecule 26: 60S ribosomal protein L25

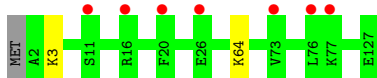


- Molecule 27: Ribosomal protein L24

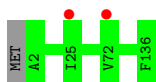




- Molecule 27: Ribosomal protein L24



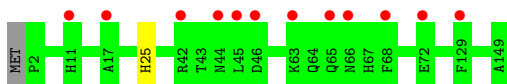
- Molecule 28: 60S ribosomal protein L27



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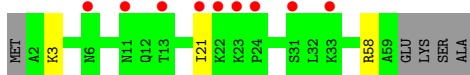
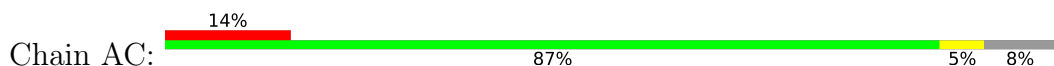
- Molecule 29: 60S ribosomal protein L28



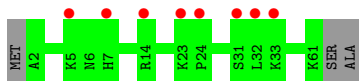
- Molecule 29: 60S ribosomal protein L28



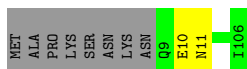
- Molecule 30: 60S ribosomal protein L29



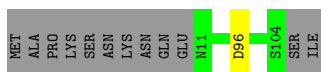
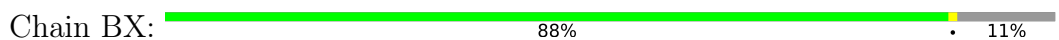
- Molecule 30: 60S ribosomal protein L29



- Molecule 31: 60S ribosomal protein L30



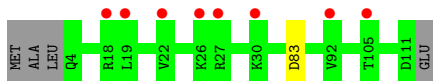
- Molecule 31: 60S ribosomal protein L30



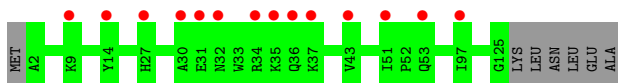
- Molecule 32: 60S ribosomal protein L31-B



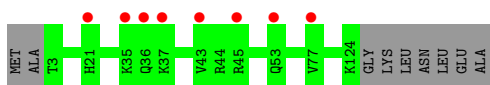
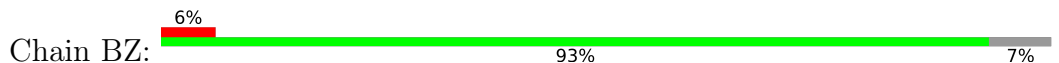
- Molecule 32: 60S ribosomal protein L31-B



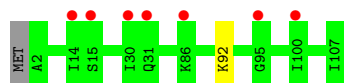
- Molecule 33: 60S ribosomal protein L32



- Molecule 33: 60S ribosomal protein L32



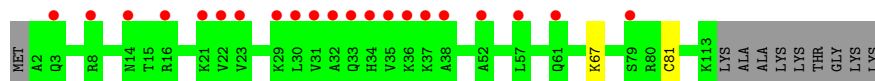
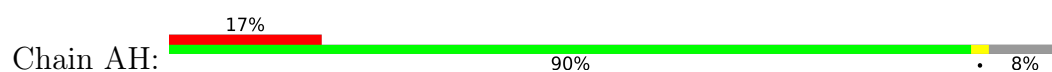
- Molecule 34: 60S ribosomal protein L33-A



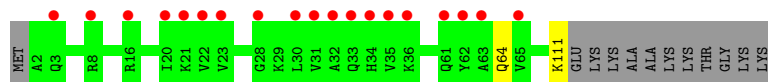
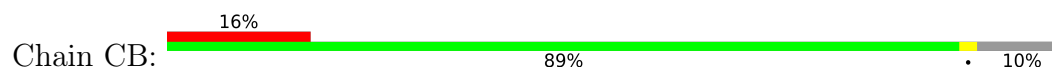
- Molecule 34: 60S ribosomal protein L33-A



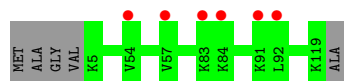
- Molecule 35: 60S ribosomal protein L34-B



- Molecule 35: 60S ribosomal protein L34-B



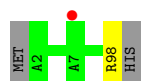
- Molecule 36: Ribosomal protein L29



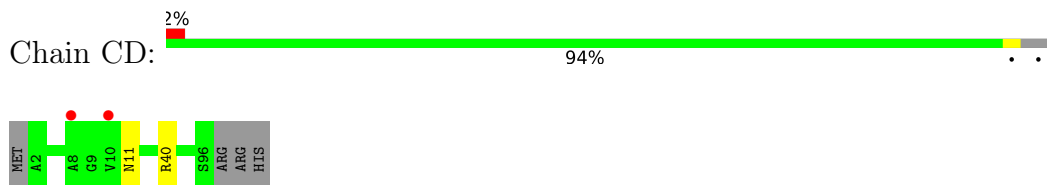
- Molecule 36: Ribosomal protein L29



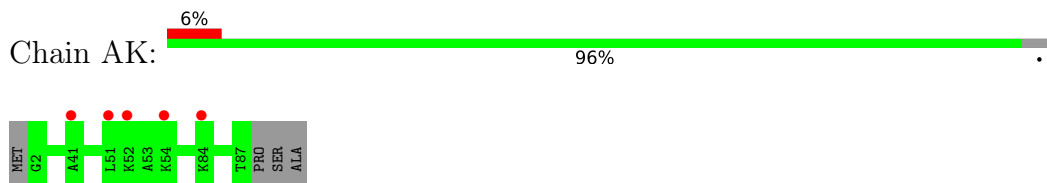
- Molecule 37: 60S ribosomal protein L36



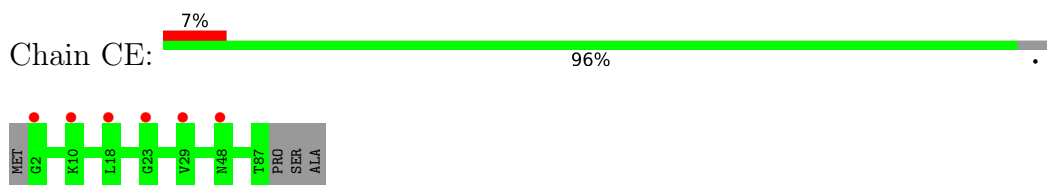
- Molecule 37: 60S ribosomal protein L36



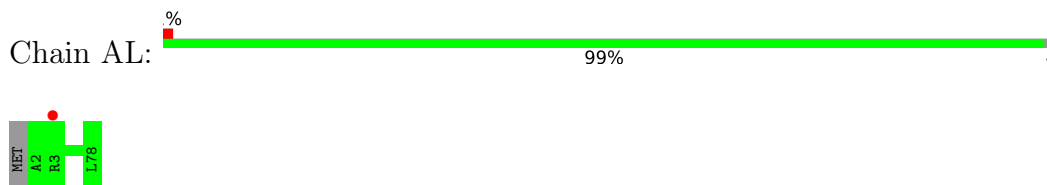
- Molecule 38: 60S ribosomal protein L37-B



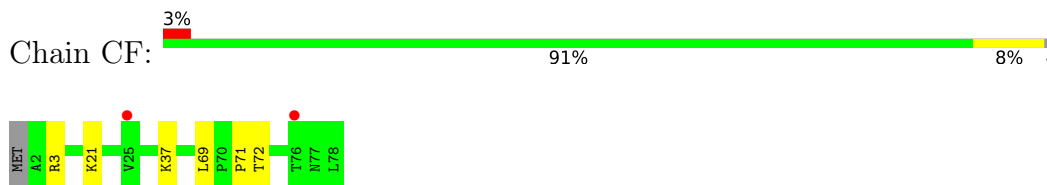
- Molecule 38: 60S ribosomal protein L37-B



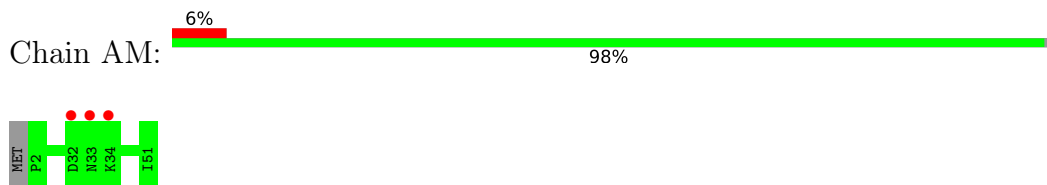
- Molecule 39: 60S ribosomal protein L38



- Molecule 39: 60S ribosomal protein L38

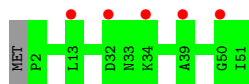


- Molecule 40: 60S ribosomal protein L39

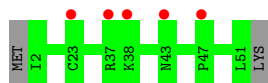


- Molecule 40: 60S ribosomal protein L39

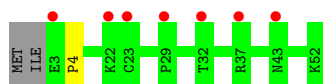




- Molecule 41: 60S ribosomal protein L40-B



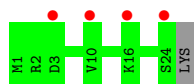
- Molecule 41: 60S ribosomal protein L40-B



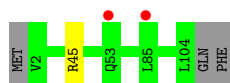
- Molecule 42: 60S ribosomal protein L41



- Molecule 42: 60S ribosomal protein L41



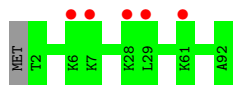
- Molecule 43: 60S ribosomal protein L42-B



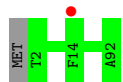
- Molecule 43: 60S ribosomal protein L42-B



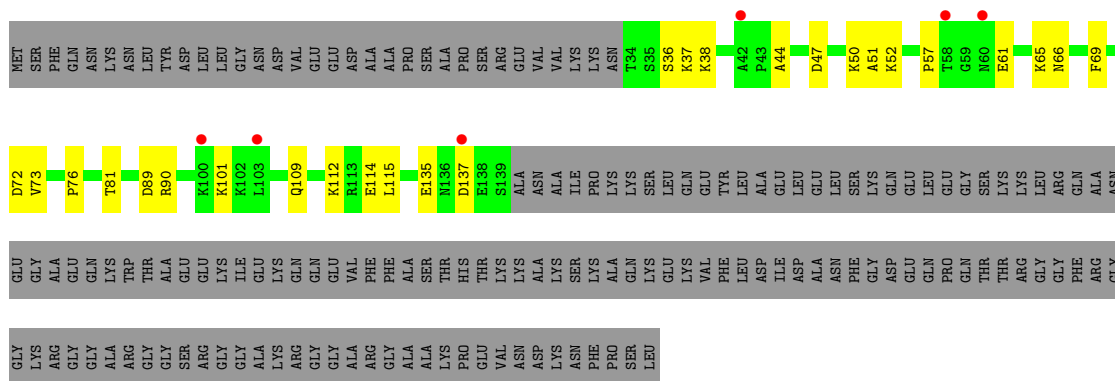
- Molecule 44: 60S ribosomal protein L43-A



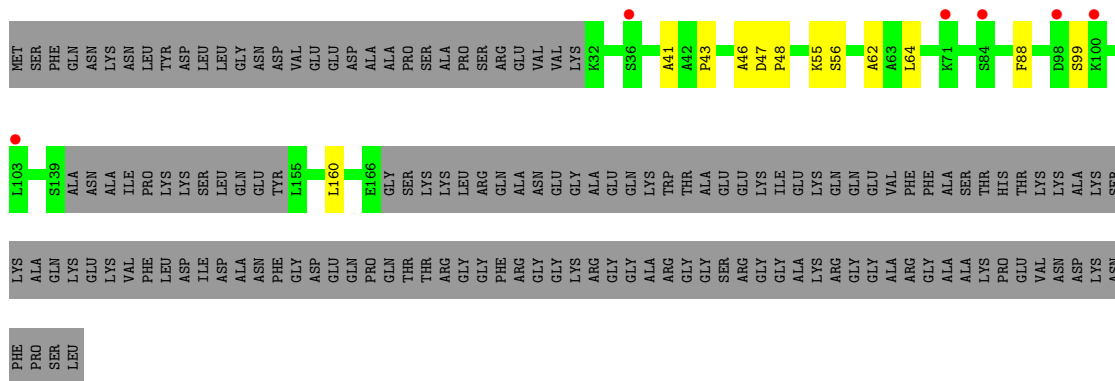
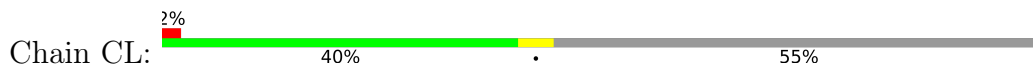
- Molecule 44: 60S ribosomal protein L43-A



- Molecule 45: 60S ribosomal protein CAALFM_C304810CA

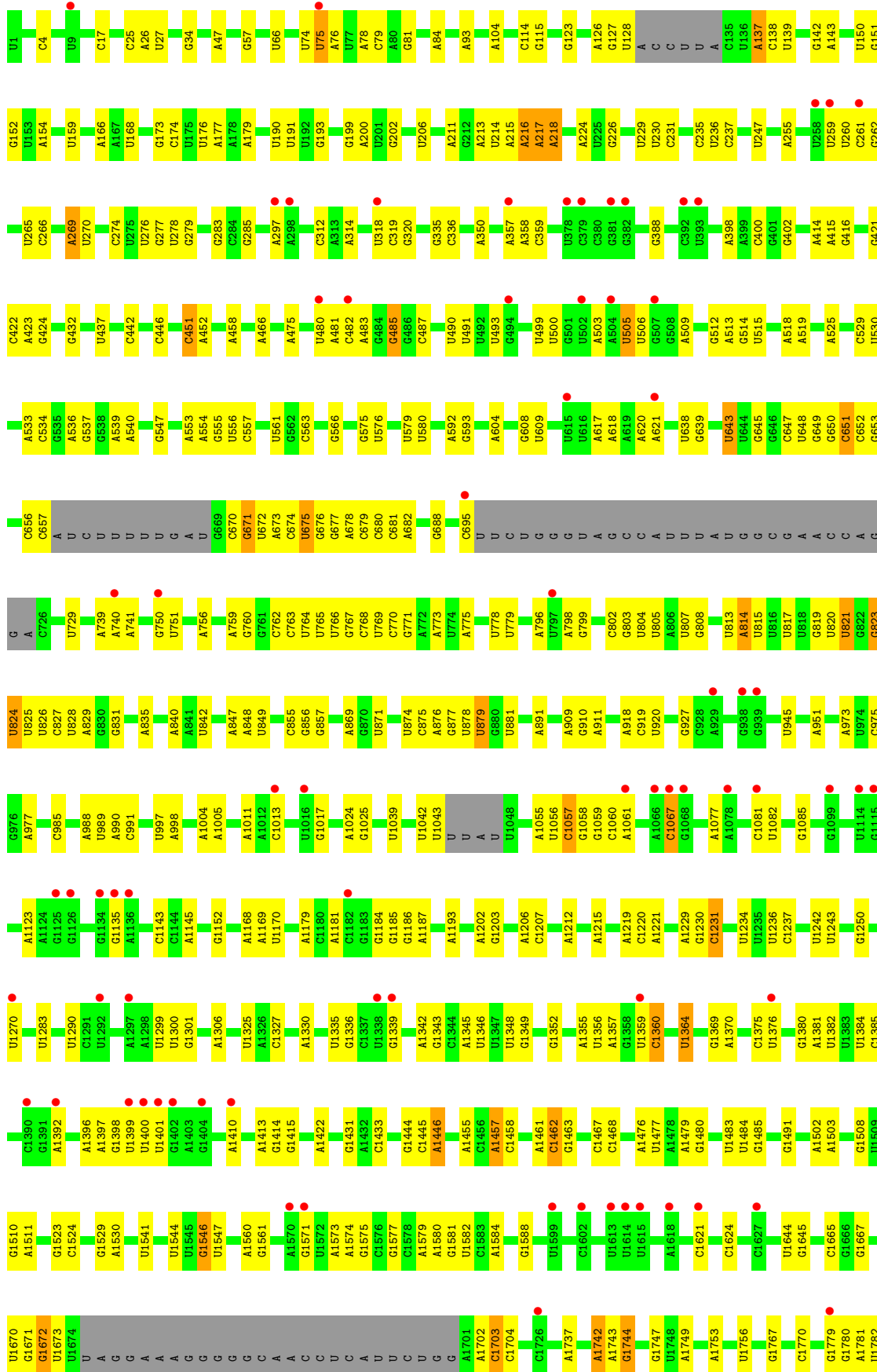


- Molecule 45: 60S ribosomal protein CAALFM_C304810CA



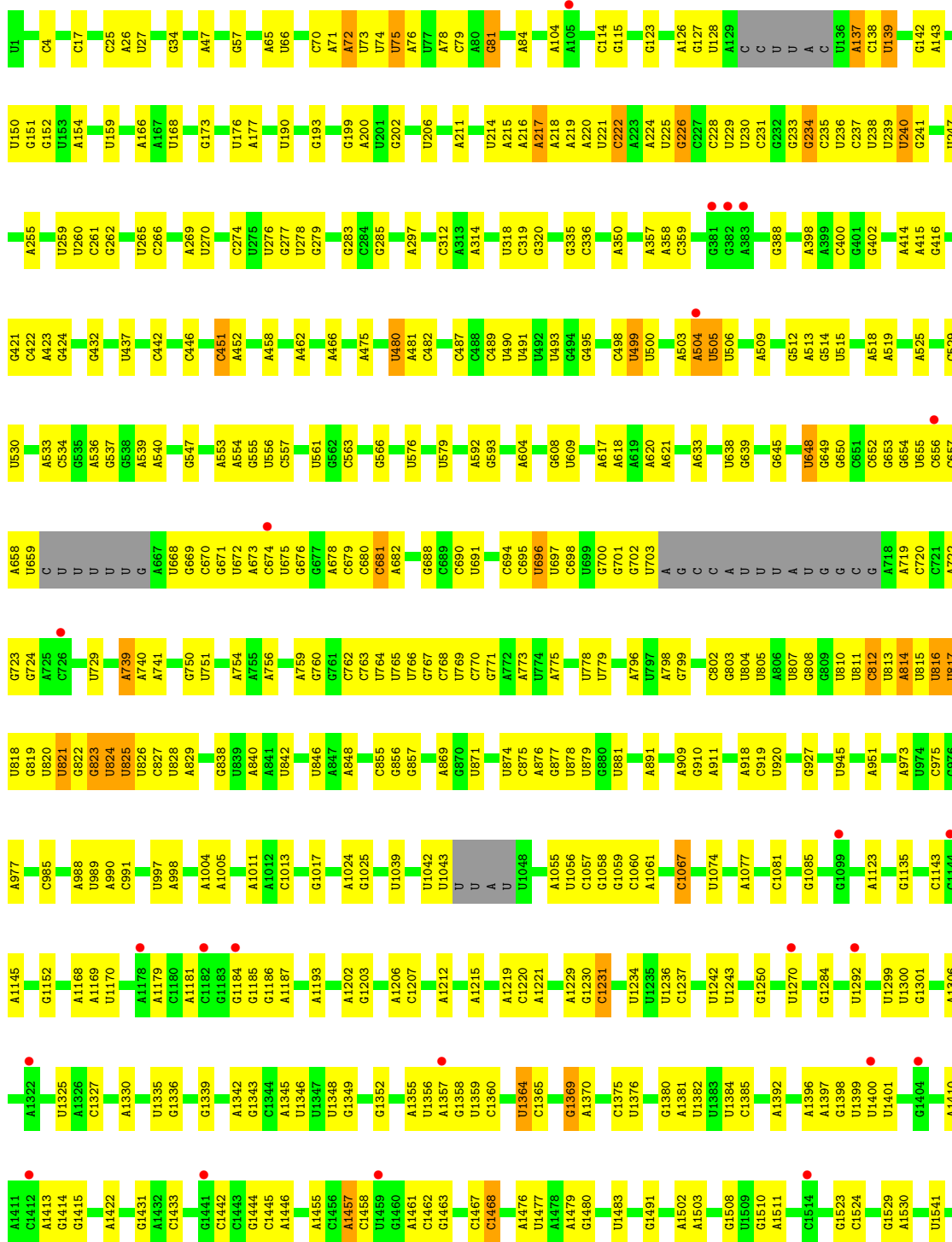
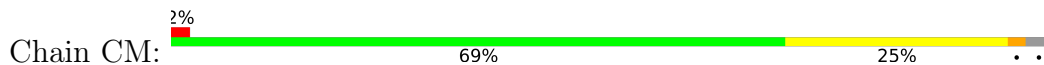
- Molecule 46: 18S ribosomal RNA

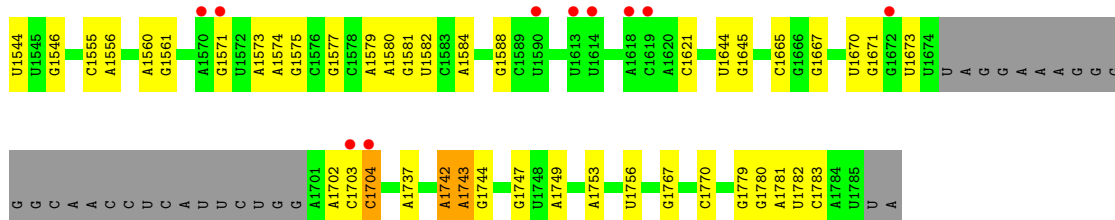




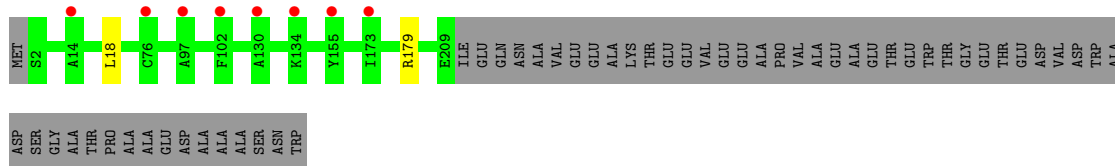
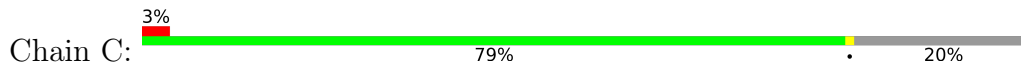
C1783
A1784
U1785
U
A

• Molecule 46: 18S ribosomal RNA

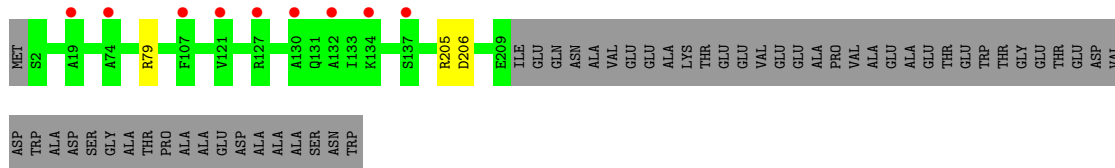
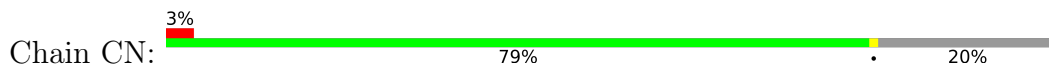




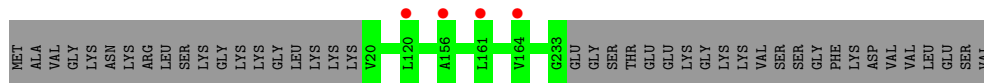
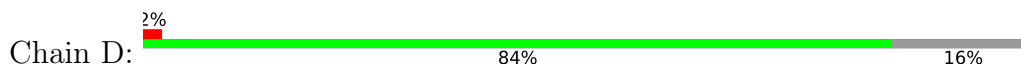
● Molecule 47: 40S ribosomal protein S0



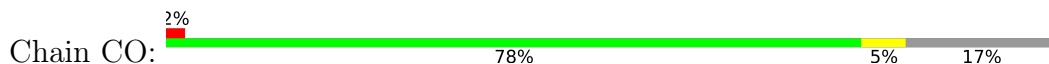
● Molecule 47: 40S ribosomal protein S0



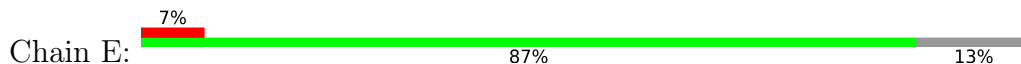
● Molecule 48: 40S ribosomal protein S1

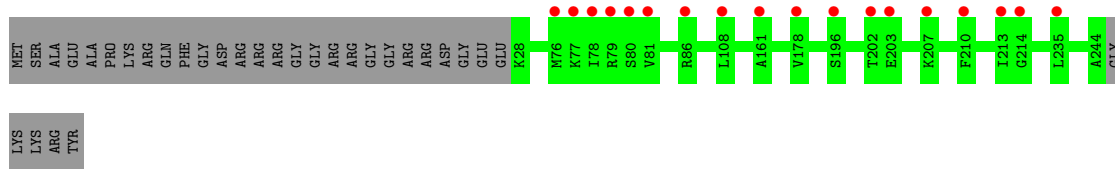


● Molecule 48: 40S ribosomal protein S1

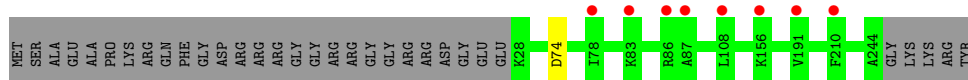
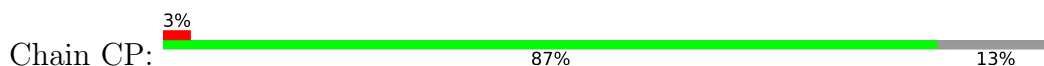


● Molecule 49: Ribosomal protein S5

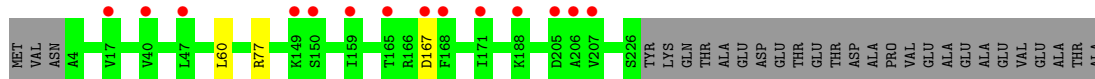
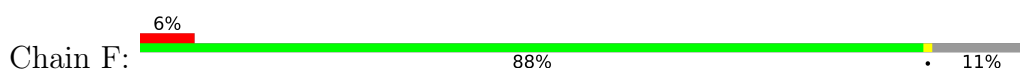




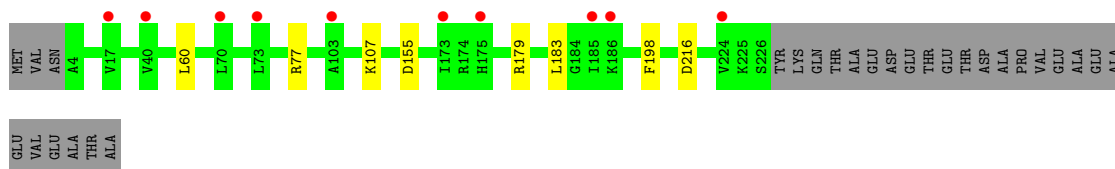
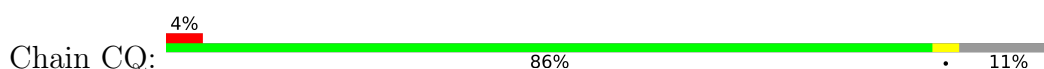
● Molecule 49: Ribosomal protein S5



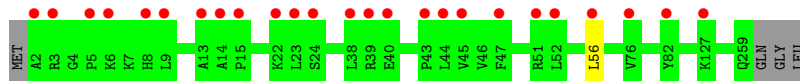
● Molecule 50: Ribosomal protein S3



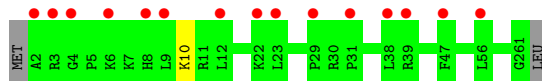
● Molecule 50: Ribosomal protein S3



● Molecule 51: 40S ribosomal protein S4

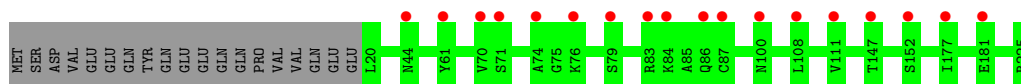


● Molecule 51: 40S ribosomal protein S4

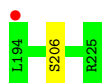
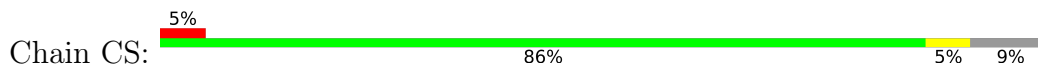


● Molecule 52: Ribosomal protein S7

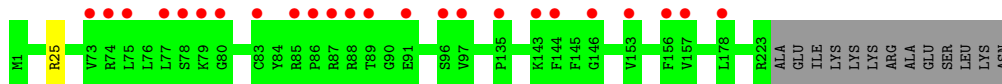
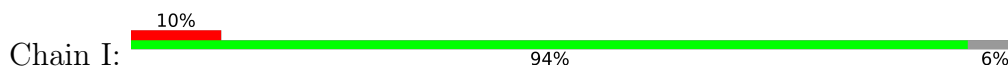




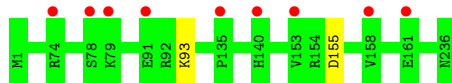
- Molecule 52: Ribosomal protein S7



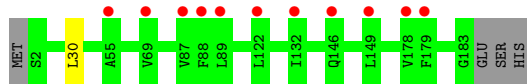
- Molecule 53: 40S ribosomal protein S6



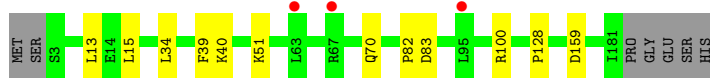
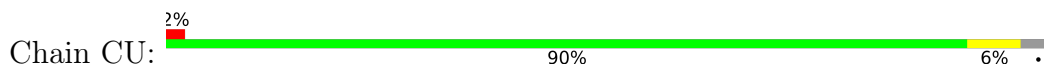
- Molecule 53: 40S ribosomal protein S6



- Molecule 54: 40S ribosomal protein S7

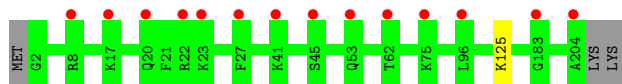


- Molecule 54: 40S ribosomal protein S7

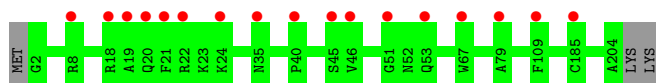


- Molecule 55: 40S ribosomal protein S8

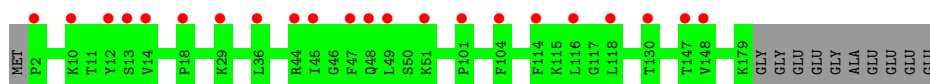
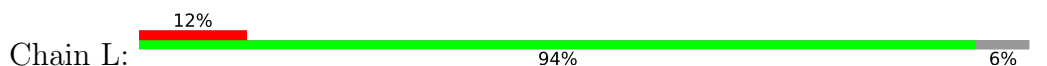




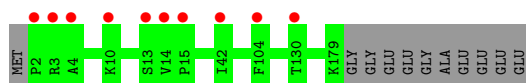
- Molecule 55: 40S ribosomal protein S8



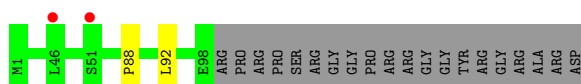
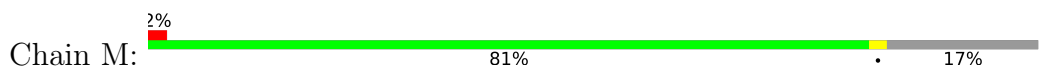
- Molecule 56: Ribosomal protein S4



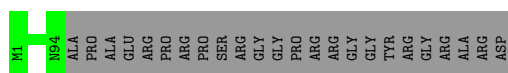
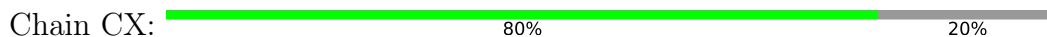
- Molecule 56: Ribosomal protein S4



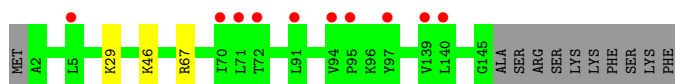
- Molecule 57: 40S ribosomal protein S10-A



- Molecule 57: 40S ribosomal protein S10-A

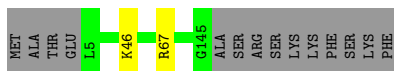


- Molecule 58: 40S ribosomal protein S11A




- Molecule 58: 40S ribosomal protein S11A

Chain CY:  90% 9%




- Molecule 59: 40S ribosomal protein S12

Chain O:  3% 73% 8% 19%



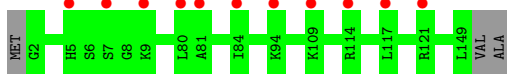
- Molecule 59: 40S ribosomal protein S12

Chain CZ:  74% 8% 17%



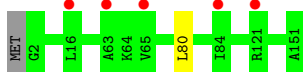
- Molecule 60: 40S ribosomal protein S13

Chain P:  7% 98%

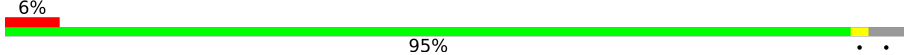


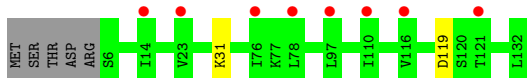
- Molecule 60: 40S ribosomal protein S13

Chain DA:  3% 99%



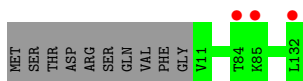
- Molecule 61: 40S ribosomal protein S14-A

Chain Q:  6% 95%

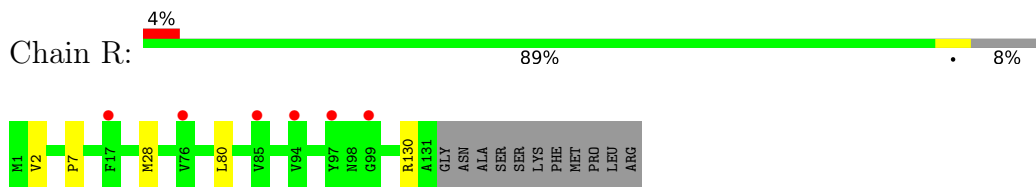


- Molecule 61: 40S ribosomal protein S14-A

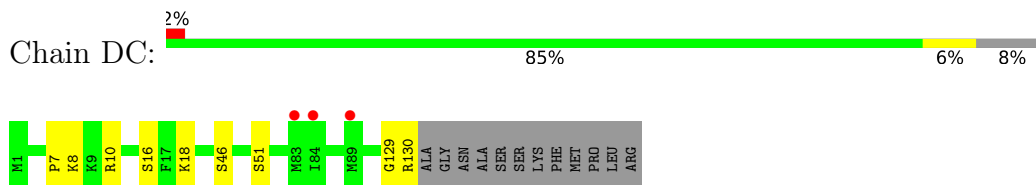
Chain DB:  2% 92% 8%



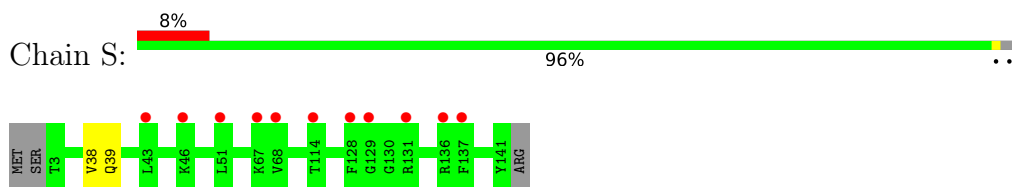
- Molecule 62: 40S ribosomal protein S15



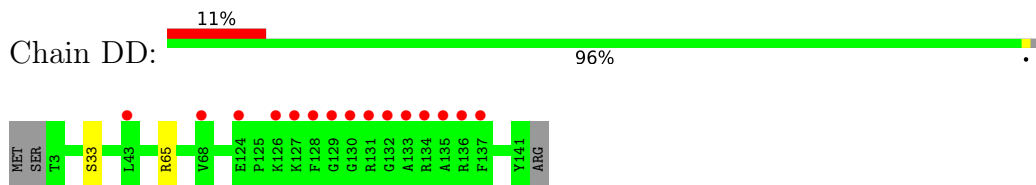
- Molecule 62: 40S ribosomal protein S15



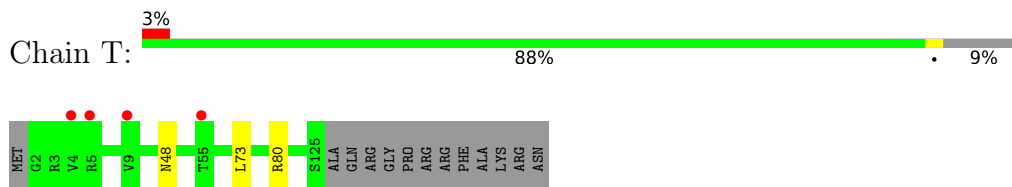
- Molecule 63: 40S ribosomal protein S16



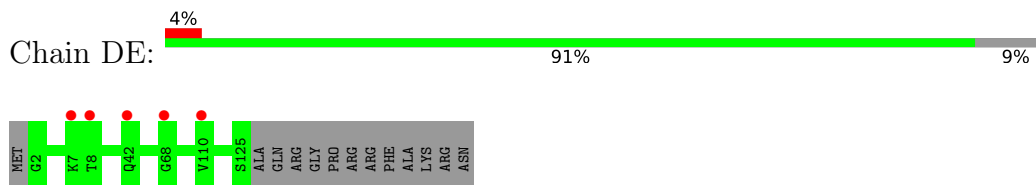
- Molecule 63: 40S ribosomal protein S16



- Molecule 64: 40S ribosomal protein S17-B



- Molecule 64: 40S ribosomal protein S17-B



- Molecule 65: 40S ribosomal protein S18-B

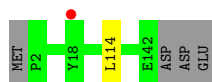




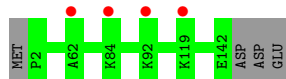
- Molecule 65: 40S ribosomal protein S18-B



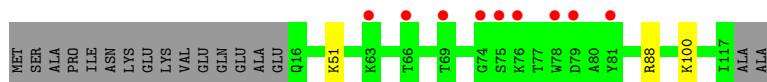
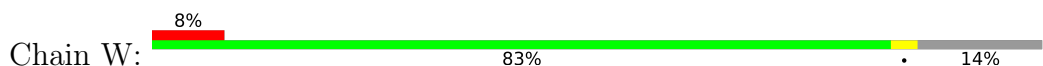
- Molecule 66: 40S ribosomal protein S19-A



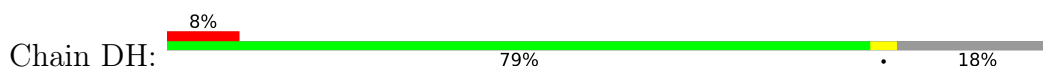
- Molecule 66: 40S ribosomal protein S19-A



- Molecule 67: Ribosomal protein S10



- Molecule 67: Ribosomal protein S10



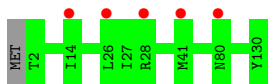
- Molecule 68: 40S ribosomal protein S21



- Molecule 68: 40S ribosomal protein S21



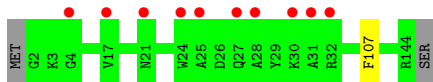
- Molecule 69: 40S ribosomal protein S22-A



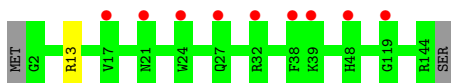
- Molecule 69: 40S ribosomal protein S22-A



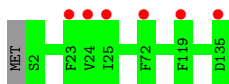
- Molecule 70: Ribosomal protein S23 (S12)



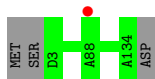
- Molecule 70: Ribosomal protein S23 (S12)



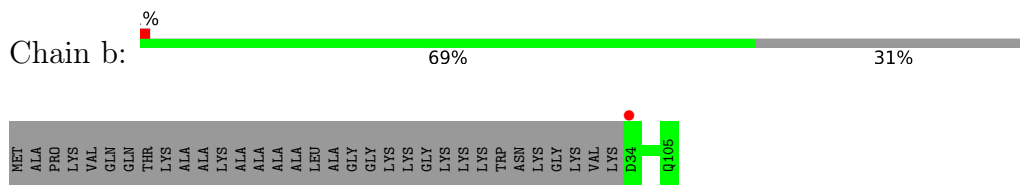
- Molecule 71: 40S ribosomal protein S24



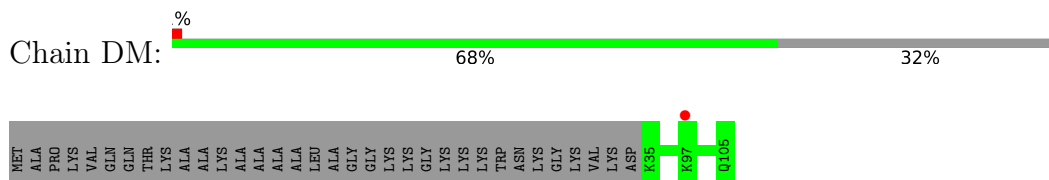
- Molecule 71: 40S ribosomal protein S24



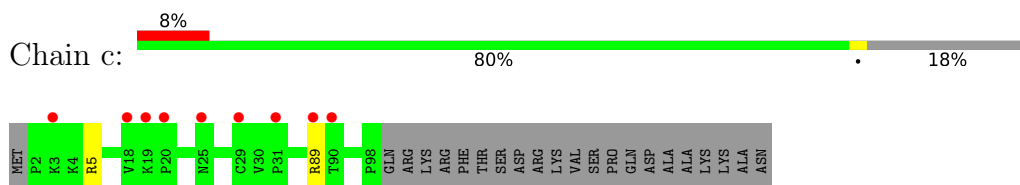
- Molecule 72: 40S ribosomal protein S25



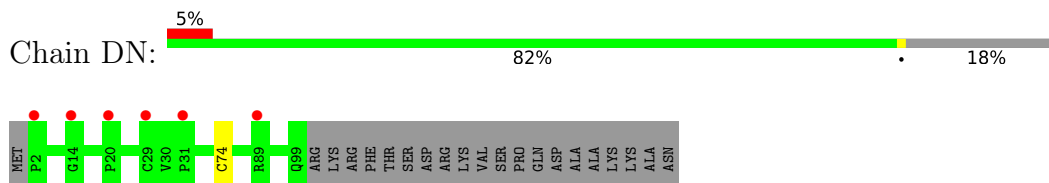
- Molecule 72: 40S ribosomal protein S25



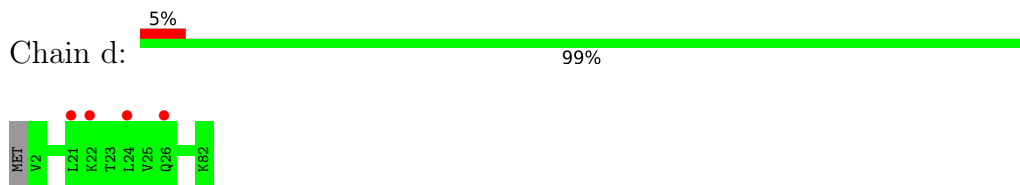
- Molecule 73: 40S ribosomal protein S26



- Molecule 73: 40S ribosomal protein S26



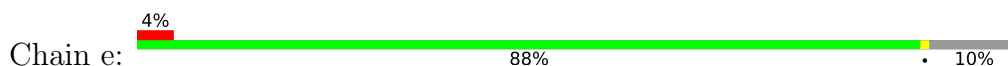
- Molecule 74: 40S ribosomal protein S27



- Molecule 74: 40S ribosomal protein S27

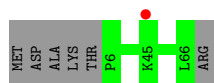


- Molecule 75: 40S ribosomal protein S28-B

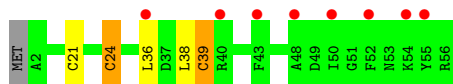
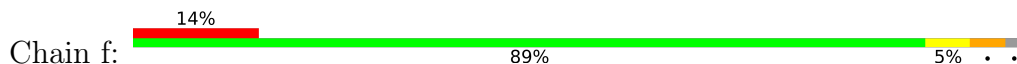




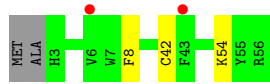
• Molecule 75: 40S ribosomal protein S28-B



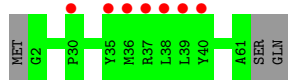
• Molecule 76: 40S ribosomal protein S29A



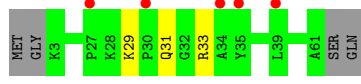
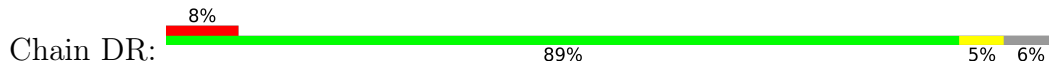
• Molecule 76: 40S ribosomal protein S29A



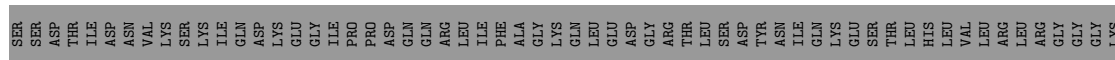
• Molecule 77: 40S ribosomal protein S30



• Molecule 77: 40S ribosomal protein S30

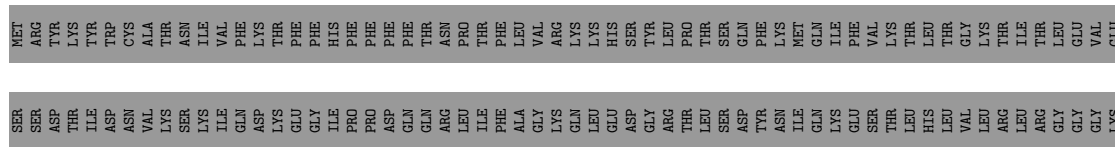


• Molecule 78: Ubiquitin-40S ribosomal protein S31 fusion protein





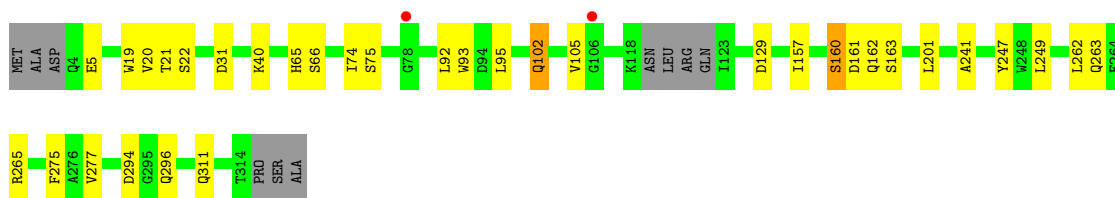
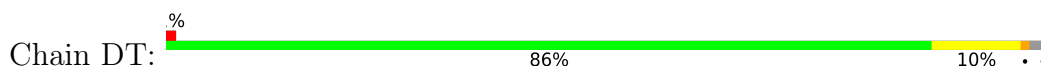
• Molecule 78: Ubiquitin-40S ribosomal protein S31 fusion protein



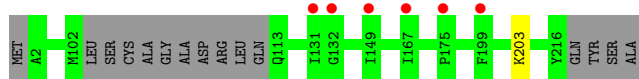
• Molecule 79: Guanine nucleotide-binding protein subunit beta-like protein



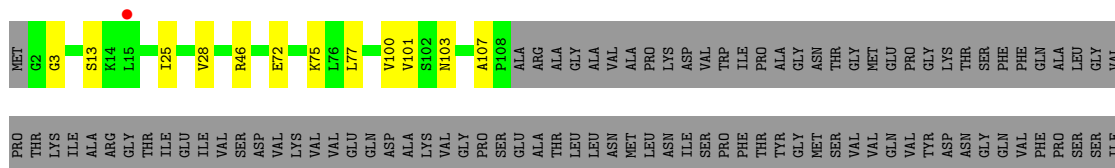
• Molecule 79: Guanine nucleotide-binding protein subunit beta-like protein



• Molecule 80: 60S ribosomal protein L10



• Molecule 81: 60S acidic ribosomal protein P0



LEU ASP
 THR THR
 ASP ASP
 GLU
 LEU
 PRO
 SER
 HIS
 PHE
 VAL
 SER
 ALA
 ALA
 PRO
 ASN
 THR
 THR
 ILE
 ALA
 ALA
 ALA
 GLY
 TYR
 PRO
 ALA
 THR
 LEU
 PRO
 SER
 VAL
 HIS
 ASP
 LYS
 ASN
 VAL
 MET
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 PHE
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 THR
 TYR
 THR
 TYR
 GLU
 GLY
 SER
 GLU

ALA
 VAL
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● Molecule 82: 60S ribosomal protein L12-A

Chain 12:  33% 62%

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 R114
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 I160
 N165

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	300.29Å 294.06Å 442.55Å 90.00° 99.77° 90.00°	Depositor
Resolution (Å)	266.82 – 3.50 266.82 – 3.50	Depositor EDS
% Data completeness (in resolution range)	97.9 (266.82-3.50) 86.6 (266.82-3.50)	Depositor EDS
R_{merge}	0.52	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.69 (at 3.19Å)	Xtrriage
Refinement program	PHENIX 1.19rc4_4035	Depositor
R, R_{free}	0.249 , 0.293 0.251 , 0.290	Depositor DCC
R_{free} test set	1526 reflections (0.16%)	wwPDB-VP
Wilson B-factor (Å ²)	67.6	Xtrriage
Anisotropy	0.138	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 91.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	400037	wwPDB-VP
Average B, all atoms (Å ²)	132.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.28% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GET, 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	0.34	0/76993	0.97	129/120031 (0.1%)
1	AS	0.33	0/74190	0.97	118/115649 (0.1%)
2	3	0.29	0/2884	0.83	0/4492
2	AT	0.31	0/2884	0.87	0/4492
3	4	0.27	0/3702	0.86	1/5764 (0.0%)
3	AU	0.31	0/3746	0.93	7/5832 (0.1%)
4	AW	0.28	0/1922	0.59	0/2581
4	j	0.27	0/1922	0.61	0/2581
5	AX	0.29	0/3145	0.64	4/4231 (0.1%)
5	k	0.29	0/3145	0.60	0/4231
6	AY	0.27	0/2782	0.57	0/3754
6	l	0.28	0/2782	0.59	0/3754
7	AZ	0.28	0/2447	0.56	0/3294
7	m	0.28	0/2462	0.57	0/3315
8	BA	0.29	0/1231	0.59	0/1662
8	n	0.30	0/1263	0.60	0/1703
9	BB	0.28	0/1849	0.55	0/2485
9	o	0.30	0/1876	0.56	0/2519
10	BC	0.47	0/1835	0.83	1/2472 (0.0%)
10	p	0.32	0/1855	0.63	1/2500 (0.0%)
11	BD	0.26	0/1537	0.56	0/2067
11	q	0.30	0/1537	0.63	0/2067
12	r	0.29	0/1716	0.59	0/2304
13	BF	0.28	0/1390	0.61	0/1861
13	s	0.28	0/1390	0.61	0/1861
14	BG	0.48	0/1637	0.85	1/2195 (0.0%)
14	t	0.32	0/1637	0.68	1/2195 (0.0%)
15	BH	0.27	0/1044	0.57	0/1407
15	u	0.30	0/1030	0.59	0/1389
16	BI	0.27	0/1753	0.63	0/2347
16	v	0.27	0/1753	0.63	0/2347
17	BJ	0.29	0/1620	0.57	0/2167

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	w	0.28	0/1620	0.59	0/2167
18	BK	0.27	0/1419	0.61	0/1906
18	x	0.30	0/1375	0.64	0/1848
19	BL	0.27	0/1482	0.61	0/1985
19	y	0.28	0/1482	0.62	0/1985
20	BM	0.34	0/1475	0.71	1/1961 (0.1%)
20	z	0.39	0/1475	0.71	4/1961 (0.2%)
21	0	0.27	0/1457	0.59	0/1962
21	BN	0.27	0/1457	0.56	0/1962
22	2	0.27	0/1285	0.57	0/1723
22	BO	0.37	0/1285	0.69	0/1723
23	5	0.30	0/816	0.60	0/1099
23	BP	0.50	0/807	0.91	4/1088 (0.4%)
24	6	0.28	0/993	0.61	0/1339
24	BQ	0.29	0/993	0.61	0/1339
25	7	0.31	0/958	0.60	0/1267
25	BR	0.31	0/889	0.63	1/1175 (0.1%)
26	8	0.28	0/981	0.59	0/1326
26	BS	0.49	0/976	0.91	0/1319
27	9	0.32	0/999	0.63	0/1334
27	BT	0.27	0/999	0.58	0/1334
28	AA	0.28	0/1112	0.52	0/1488
28	BU	0.50	0/1112	0.89	1/1488 (0.1%)
29	AB	0.27	0/1199	0.57	0/1607
29	BV	0.29	0/1199	0.58	0/1607
30	AC	0.26	0/474	0.67	0/630
30	BW	0.27	0/492	0.54	0/653
31	AD	0.30	0/756	0.55	0/1018
31	BX	0.27	0/724	0.52	0/975
32	AE	0.27	0/894	0.61	0/1201
32	BY	0.25	0/894	0.59	0/1201
33	AF	0.27	0/1021	0.59	0/1368
33	BZ	0.28	0/1012	0.61	0/1356
34	AG	0.29	0/866	0.59	0/1165
34	CA	0.29	0/866	0.56	0/1165
35	AH	0.28	0/896	0.61	0/1195
35	CB	0.31	0/878	0.69	1/1172 (0.1%)
36	AI	0.27	0/974	0.59	0/1297
36	CC	0.50	0/985	0.89	0/1312
37	AJ	0.27	0/763	0.60	0/1012
37	CD	0.47	0/741	0.91	0/984
38	AK	0.27	0/690	0.66	0/916
38	CE	0.27	0/690	0.65	0/916

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	AL	0.27	0/623	0.56	0/831
39	CF	0.45	0/623	0.84	1/831 (0.1%)
40	AM	0.27	0/447	0.64	0/594
40	CG	0.27	0/447	0.64	0/594
41	AN	0.25	0/408	0.59	0/542
41	CH	0.30	0/409	0.62	0/542
42	AO	0.29	0/237	0.74	0/304
42	CI	0.29	0/228	0.74	0/293
43	AP	0.28	0/840	0.60	0/1110
43	CJ	0.28	0/840	0.63	1/1110 (0.1%)
44	AQ	0.29	0/705	0.65	0/940
44	CK	0.26	0/705	0.62	0/940
45	CL	0.52	0/929	0.90	0/1240
45	i	0.48	0/816	0.99	3/1091 (0.3%)
46	B	0.34	0/40724	1.00	96/63452 (0.2%)
46	CM	0.36	0/41205	1.03	126/64202 (0.2%)
47	C	0.27	0/1666	0.54	0/2273
47	CN	0.27	0/1666	0.55	0/2273
48	CO	0.55	0/1743	0.99	3/2344 (0.1%)
48	D	0.26	0/1750	0.60	0/2354
49	CP	0.27	0/1657	0.56	0/2248
49	E	0.27	0/1657	0.54	0/2248
50	CQ	0.28	0/1731	0.66	3/2324 (0.1%)
50	F	0.30	0/1731	0.67	1/2324 (0.0%)
51	CR	0.27	0/2096	0.58	0/2822
51	G	0.28	0/2083	0.59	1/2805 (0.0%)
52	CS	0.57	0/1623	0.97	3/2188 (0.1%)
52	H	0.26	0/1631	0.57	0/2199
53	CT	0.29	0/1929	0.67	0/2571
53	I	0.27	0/1823	0.59	0/2434
54	CU	0.49	0/1472	0.96	3/1979 (0.2%)
54	J	0.26	0/1490	0.58	0/2004
55	CV	0.30	0/1606	0.63	0/2150
55	K	0.29	0/1606	0.61	0/2150
56	CW	0.26	0/1478	0.59	0/1978
56	L	0.27	0/1478	0.59	0/1978
57	CX	0.29	0/809	0.61	0/1092
57	M	0.31	0/836	0.67	0/1130
58	CY	0.30	0/1154	0.61	0/1553
58	N	0.27	0/1175	0.59	0/1582
59	CZ	0.53	0/921	1.03	4/1240 (0.3%)
59	O	0.32	0/892	0.76	1/1203 (0.1%)
60	DA	0.25	0/1210	0.55	0/1631

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	P	0.27	0/1198	0.55	0/1614
61	DB	0.27	0/915	0.65	0/1228
61	Q	0.28	0/953	0.64	0/1279
62	DC	0.50	0/1049	0.96	1/1409 (0.1%)
62	R	0.33	0/1054	0.69	1/1416 (0.1%)
63	DD	0.27	0/1103	0.58	0/1478
63	S	0.28	0/1103	0.56	0/1478
64	DE	0.29	0/1009	0.66	0/1354
64	T	0.26	0/1009	0.64	1/1354 (0.1%)
65	DF	0.27	0/1178	0.62	0/1579
65	U	0.29	0/1205	0.66	1/1615 (0.1%)
66	DG	0.27	0/1120	0.58	0/1508
66	V	0.28	0/1120	0.61	1/1508 (0.1%)
67	DH	0.27	0/772	0.63	1/1045 (0.1%)
67	W	0.27	0/818	0.60	0/1106
68	DI	0.30	0/683	0.63	0/918
68	X	0.28	0/683	0.60	0/918
69	DJ	0.27	0/1049	0.57	0/1412
69	Y	0.27	0/1049	0.57	0/1412
70	DK	0.28	0/1128	0.63	0/1505
70	Z	0.29	0/1128	0.66	0/1505
71	DL	0.28	0/1086	0.62	0/1447
71	a	0.27	0/1100	0.59	0/1466
72	DM	0.33	0/577	0.60	0/778
72	b	0.26	0/585	0.56	0/789
73	DN	0.25	0/791	0.63	0/1060
73	c	0.27	0/782	0.64	0/1048
74	DO	0.27	0/624	0.61	0/843
74	d	0.27	0/624	0.56	0/843
75	DP	0.29	0/478	0.74	0/640
75	e	0.27	0/470	0.70	0/629
76	DQ	0.37	0/461	0.63	0/613
76	f	0.39	0/466	0.77	3/620 (0.5%)
77	DR	0.37	0/478	0.72	0/637
77	g	0.34	0/482	0.66	0/642
78	DS	0.51	0/564	1.08	0/749
78	h	0.29	0/585	0.73	1/778 (0.1%)
79	AR	0.26	0/2451	0.57	0/3337
79	DT	0.56	0/2414	1.05	6/3286 (0.2%)
80	BE	0.29	0/1696	0.60	0/2276
81	P0	0.37	0/857	0.71	0/1148
82	12	0.40	0/486	0.67	1/653 (0.2%)
All	All	0.33	0/427902	0.87	538/627694 (0.1%)

There are no bond length outliers.

The worst 5 of 538 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	3127	U	O4'-C1'-N1	13.98	119.38	108.20
46	B	676	G	O4'-C1'-N9	12.71	118.37	108.20
79	DT	40	LYS	CD-CE-NZ	12.13	139.60	111.70
46	CM	679	C	O5'-P-OP2	-12.11	94.81	105.70
1	AS	1576	A	O4'-C1'-N9	11.40	117.32	108.20

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%)	240 (97%)	7 (3%)	0	100	100
4	j	247/254 (97%)	239 (97%)	8 (3%)	0	100	100
5	AX	384/389 (99%)	372 (97%)	12 (3%)	0	100	100
5	k	384/389 (99%)	374 (97%)	9 (2%)	1 (0%)	37	68
6	AY	357/363 (98%)	349 (98%)	8 (2%)	0	100	100
6	l	357/363 (98%)	346 (97%)	10 (3%)	1 (0%)	37	68
7	AZ	290/298 (97%)	280 (97%)	10 (3%)	0	100	100
7	m	292/298 (98%)	281 (96%)	11 (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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	BB	224/241 (93%)	218 (97%)	5 (2%)	1 (0%)	30	64
9	o	227/241 (94%)	220 (97%)	7 (3%)	0	100	100
10	BC	231/262 (88%)	210 (91%)	16 (7%)	5 (2%)	5	31
10	p	234/262 (89%)	225 (96%)	8 (3%)	1 (0%)	30	64
11	BD	188/191 (98%)	182 (97%)	6 (3%)	0	100	100
11	q	188/191 (98%)	182 (97%)	6 (3%)	0	100	100
12	r	203/219 (93%)	201 (99%)	2 (1%)	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%)	179 (90%)	12 (6%)	7 (4%)	3	24
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	126/131 (96%)	123 (98%)	3 (2%)	0	100	100
16	BI	201/204 (98%)	198 (98%)	3 (2%)	0	100	100
16	v	201/204 (98%)	196 (98%)	5 (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	170/185 (92%)	166 (98%)	4 (2%)	0	100	100
18	x	165/185 (89%)	160 (97%)	5 (3%)	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%)	174 (98%)	3 (2%)	0	100	100
20	z	177/190 (93%)	172 (97%)	5 (3%)	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
22	2	157/160 (98%)	153 (98%)	4 (2%)	0	100	100
22	BO	157/160 (98%)	153 (98%)	4 (2%)	0	100	100
23	5	98/124 (79%)	90 (92%)	6 (6%)	2 (2%)	6	33
23	BP	97/124 (78%)	75 (77%)	16 (16%)	6 (6%)	1	12
24	6	129/137 (94%)	126 (98%)	3 (2%)	0	100	100
24	BQ	129/137 (94%)	126 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	7	114/155 (74%)	89 (78%)	25 (22%)	0	100	100
25	BR	105/155 (68%)	90 (86%)	14 (13%)	1 (1%)	13	46
26	8	118/142 (83%)	117 (99%)	1 (1%)	0	100	100
26	BS	117/142 (82%)	111 (95%)	5 (4%)	1 (1%)	14	49
27	9	124/127 (98%)	120 (97%)	4 (3%)	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%)	116 (87%)	15 (11%)	2 (2%)	8	39
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	56/63 (89%)	52 (93%)	1 (2%)	3 (5%)	1	14
30	BW	58/63 (92%)	57 (98%)	1 (2%)	0	100	100
31	AD	96/106 (91%)	92 (96%)	4 (4%)	0	100	100
31	BX	92/106 (87%)	90 (98%)	2 (2%)	0	100	100
32	AE	106/112 (95%)	104 (98%)	2 (2%)	0	100	100
32	BY	106/112 (95%)	103 (97%)	2 (2%)	1 (1%)	14	49
33	AF	122/131 (93%)	121 (99%)	1 (1%)	0	100	100
33	BZ	120/131 (92%)	120 (100%)	0	0	100	100
34	AG	104/107 (97%)	101 (97%)	3 (3%)	0	100	100
34	CA	104/107 (97%)	101 (97%)	3 (3%)	0	100	100
35	AH	110/122 (90%)	108 (98%)	2 (2%)	0	100	100
35	CB	108/122 (88%)	105 (97%)	3 (3%)	0	100	100
36	AI	113/120 (94%)	112 (99%)	1 (1%)	0	100	100
36	CC	115/120 (96%)	111 (96%)	3 (3%)	1 (1%)	14	49
37	AJ	95/99 (96%)	94 (99%)	1 (1%)	0	100	100
37	CD	93/99 (94%)	85 (91%)	8 (9%)	0	100	100
38	AK	84/90 (93%)	80 (95%)	4 (5%)	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%)	65 (87%)	7 (9%)	3 (4%)	2	20
40	AM	48/51 (94%)	48 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	CG	48/51 (94%)	47 (98%)	1 (2%)	0	100	100
41	AN	48/52 (92%)	48 (100%)	0	0	100	100
41	CH	48/52 (92%)	46 (96%)	1 (2%)	1 (2%)	5	32
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%)	99 (98%)	2 (2%)	0	100	100
43	CJ	101/106 (95%)	99 (98%)	2 (2%)	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	116/267 (43%)	72 (62%)	34 (29%)	10 (9%)	0	7
45	i	104/267 (39%)	51 (49%)	35 (34%)	18 (17%)	0	2
47	C	206/261 (79%)	200 (97%)	6 (3%)	0	100	100
47	CN	206/261 (79%)	199 (97%)	7 (3%)	0	100	100
48	CO	211/256 (82%)	191 (90%)	14 (7%)	6 (3%)	4	27
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%)	208 (97%)	7 (3%)	0	100	100
50	CQ	221/251 (88%)	211 (96%)	10 (4%)	0	100	100
50	F	221/251 (88%)	214 (97%)	7 (3%)	0	100	100
51	CR	258/262 (98%)	255 (99%)	3 (1%)	0	100	100
51	G	256/262 (98%)	252 (98%)	4 (2%)	0	100	100
52	CS	203/225 (90%)	180 (89%)	20 (10%)	3 (2%)	8	39
52	H	204/225 (91%)	193 (95%)	11 (5%)	0	100	100
53	CT	234/236 (99%)	228 (97%)	6 (3%)	0	100	100
53	I	221/236 (94%)	217 (98%)	4 (2%)	0	100	100
54	CU	177/186 (95%)	150 (85%)	21 (12%)	6 (3%)	3	24
54	J	180/186 (97%)	171 (95%)	9 (5%)	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%)	174 (99%)	2 (1%)	0	100	100
56	L	176/189 (93%)	175 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
57	CX	92/118 (78%)	86 (94%)	6 (6%)	0	100	100
57	M	96/118 (81%)	82 (85%)	12 (12%)	2 (2%)	5	32
58	CY	139/155 (90%)	133 (96%)	6 (4%)	0	100	100
58	N	142/155 (92%)	136 (96%)	6 (4%)	0	100	100
59	CZ	117/143 (82%)	75 (64%)	36 (31%)	6 (5%)	1	16
59	O	114/143 (80%)	88 (77%)	24 (21%)	2 (2%)	7	35
60	DA	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
60	P	146/151 (97%)	144 (99%)	2 (1%)	0	100	100
61	DB	120/132 (91%)	114 (95%)	6 (5%)	0	100	100
61	Q	125/132 (95%)	121 (97%)	3 (2%)	1 (1%)	16	51
62	DC	128/142 (90%)	97 (76%)	27 (21%)	4 (3%)	3	26
62	R	129/142 (91%)	110 (85%)	17 (13%)	2 (2%)	8	38
63	DD	137/142 (96%)	133 (97%)	4 (3%)	0	100	100
63	S	137/142 (96%)	130 (95%)	7 (5%)	0	100	100
64	DE	122/137 (89%)	119 (98%)	3 (2%)	0	100	100
64	T	122/137 (89%)	118 (97%)	4 (3%)	0	100	100
65	DF	139/145 (96%)	133 (96%)	6 (4%)	0	100	100
65	U	142/145 (98%)	137 (96%)	5 (4%)	0	100	100
66	DG	139/145 (96%)	134 (96%)	5 (4%)	0	100	100
66	V	139/145 (96%)	136 (98%)	3 (2%)	0	100	100
67	DH	95/119 (80%)	93 (98%)	2 (2%)	0	100	100
67	W	100/119 (84%)	97 (97%)	3 (3%)	0	100	100
68	DI	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
68	X	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
69	DJ	127/130 (98%)	124 (98%)	3 (2%)	0	100	100
69	Y	127/130 (98%)	125 (98%)	2 (2%)	0	100	100
70	DK	141/145 (97%)	138 (98%)	3 (2%)	0	100	100
70	Z	141/145 (97%)	138 (98%)	3 (2%)	0	100	100
71	DL	130/135 (96%)	130 (100%)	0	0	100	100
71	a	132/135 (98%)	129 (98%)	3 (2%)	0	100	100
72	DM	69/105 (66%)	66 (96%)	3 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
72	b	70/105 (67%)	69 (99%)	1 (1%)	0	100	100
73	DN	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
73	c	95/119 (80%)	93 (98%)	2 (2%)	0	100	100
74	DO	79/82 (96%)	72 (91%)	7 (9%)	0	100	100
74	d	79/82 (96%)	75 (95%)	4 (5%)	0	100	100
75	DP	59/67 (88%)	54 (92%)	5 (8%)	0	100	100
75	e	58/67 (87%)	55 (95%)	3 (5%)	0	100	100
76	DQ	52/56 (93%)	50 (96%)	2 (4%)	0	100	100
76	f	53/56 (95%)	51 (96%)	2 (4%)	0	100	100
77	DR	57/63 (90%)	50 (88%)	6 (10%)	1 (2%)	7	35
77	g	58/63 (92%)	53 (91%)	5 (9%)	0	100	100
78	DS	64/193 (33%)	31 (48%)	23 (36%)	10 (16%)	0	2
78	h	68/193 (35%)	56 (82%)	11 (16%)	1 (2%)	8	39
79	AR	309/317 (98%)	291 (94%)	17 (6%)	1 (0%)	37	68
79	DT	303/317 (96%)	221 (73%)	65 (22%)	17 (6%)	1	14
80	BE	201/220 (91%)	197 (98%)	4 (2%)	0	100	100
81	P0	105/312 (34%)	69 (66%)	27 (26%)	9 (9%)	0	7
82	12	61/165 (37%)	36 (59%)	22 (36%)	3 (5%)	2	16
All	All	22176/24752 (90%)	21009 (95%)	1028 (5%)	139 (1%)	22	56

5 of 139 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
6	l	267	SER
10	p	205	ASN
45	i	36	SER
45	i	37	LYS
45	i	44	ALA

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%)	190 (100%)	0	100	100
4	j	190/194 (98%)	190 (100%)	0	100	100
5	AX	325/328 (99%)	324 (100%)	1 (0%)	91	96
5	k	325/328 (99%)	324 (100%)	1 (0%)	91	96
6	AY	288/292 (99%)	285 (99%)	3 (1%)	73	84
6	l	288/292 (99%)	286 (99%)	2 (1%)	81	89
7	AZ	247/252 (98%)	244 (99%)	3 (1%)	67	82
7	m	248/252 (98%)	246 (99%)	2 (1%)	79	88
8	BA	132/154 (86%)	132 (100%)	0	100	100
8	n	136/154 (88%)	135 (99%)	1 (1%)	81	89
9	BB	190/204 (93%)	189 (100%)	1 (0%)	86	93
9	o	193/204 (95%)	191 (99%)	2 (1%)	73	84
10	BC	193/216 (89%)	190 (98%)	3 (2%)	58	76
10	p	196/216 (91%)	195 (100%)	1 (0%)	86	93
11	BD	169/170 (99%)	169 (100%)	0	100	100
11	q	169/170 (99%)	169 (100%)	0	100	100
12	r	177/185 (96%)	176 (99%)	1 (1%)	84	91
13	BF	146/149 (98%)	144 (99%)	2 (1%)	62	79
13	s	146/149 (98%)	144 (99%)	2 (1%)	62	79
14	BG	166/168 (99%)	164 (99%)	2 (1%)	67	82
14	t	166/168 (99%)	165 (99%)	1 (1%)	84	91
15	BH	108/109 (99%)	108 (100%)	0	100	100
15	u	107/109 (98%)	106 (99%)	1 (1%)	75	86
16	BI	177/178 (99%)	177 (100%)	0	100	100
16	v	177/178 (99%)	176 (99%)	1 (1%)	84	91
17	BJ	166/167 (99%)	166 (100%)	0	100	100
17	w	166/167 (99%)	165 (99%)	1 (1%)	84	91
18	BK	145/154 (94%)	143 (99%)	2 (1%)	62	79
18	x	140/154 (91%)	139 (99%)	1 (1%)	81	89
19	BL	153/154 (99%)	152 (99%)	1 (1%)	81	89
19	y	153/154 (99%)	153 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	BM	146/153 (95%)	142 (97%)	4 (3%)	40	65
20	z	146/153 (95%)	144 (99%)	2 (1%)	62	79
21	0	155/157 (99%)	153 (99%)	2 (1%)	65	81
21	BN	155/157 (99%)	154 (99%)	1 (1%)	84	91
22	2	133/134 (99%)	133 (100%)	0	100	100
22	BO	133/134 (99%)	132 (99%)	1 (1%)	79	88
23	5	91/112 (81%)	89 (98%)	2 (2%)	47	70
23	BP	90/112 (80%)	87 (97%)	3 (3%)	33	61
24	6	101/104 (97%)	100 (99%)	1 (1%)	73	84
24	BQ	101/104 (97%)	100 (99%)	1 (1%)	73	84
25	7	97/127 (76%)	94 (97%)	3 (3%)	35	63
25	BR	91/127 (72%)	90 (99%)	1 (1%)	70	83
26	8	107/121 (88%)	106 (99%)	1 (1%)	75	86
26	BS	107/121 (88%)	106 (99%)	1 (1%)	75	86
27	9	111/112 (99%)	109 (98%)	2 (2%)	54	74
27	BT	111/112 (99%)	109 (98%)	2 (2%)	54	74
28	AA	117/118 (99%)	117 (100%)	0	100	100
28	BU	117/118 (99%)	115 (98%)	2 (2%)	56	75
29	AB	120/121 (99%)	119 (99%)	1 (1%)	79	88
29	BV	120/121 (99%)	119 (99%)	1 (1%)	79	88
30	AC	45/49 (92%)	45 (100%)	0	100	100
30	BW	47/49 (96%)	47 (100%)	0	100	100
31	AD	83/90 (92%)	81 (98%)	2 (2%)	44	68
31	BX	79/90 (88%)	78 (99%)	1 (1%)	65	81
32	AE	97/100 (97%)	96 (99%)	1 (1%)	73	84
32	BY	97/100 (97%)	97 (100%)	0	100	100
33	AF	109/115 (95%)	109 (100%)	0	100	100
33	BZ	109/115 (95%)	109 (100%)	0	100	100
34	AG	91/92 (99%)	90 (99%)	1 (1%)	70	83
34	CA	91/92 (99%)	90 (99%)	1 (1%)	70	83
35	AH	95/102 (93%)	93 (98%)	2 (2%)	48	71

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	CB	93/102 (91%)	92 (99%)	1 (1%)	70	83
36	AI	104/106 (98%)	104 (100%)	0	100	100
36	CC	105/106 (99%)	102 (97%)	3 (3%)	37	64
37	AJ	77/79 (98%)	76 (99%)	1 (1%)	65	81
37	CD	75/79 (95%)	73 (97%)	2 (3%)	40	65
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%)	66 (97%)	2 (3%)	37	64
40	AM	46/47 (98%)	46 (100%)	0	100	100
40	CG	46/47 (98%)	46 (100%)	0	100	100
41	AN	45/47 (96%)	45 (100%)	0	100	100
41	CH	45/47 (96%)	45 (100%)	0	100	100
42	AO	24/24 (100%)	23 (96%)	1 (4%)	25	54
42	CI	23/24 (96%)	23 (100%)	0	100	100
43	AP	88/91 (97%)	87 (99%)	1 (1%)	70	83
43	CJ	88/91 (97%)	87 (99%)	1 (1%)	70	83
44	AQ	72/73 (99%)	72 (100%)	0	100	100
44	CK	72/73 (99%)	72 (100%)	0	100	100
45	CL	99/212 (47%)	97 (98%)	2 (2%)	50	72
45	i	86/212 (41%)	79 (92%)	7 (8%)	9	33
47	C	176/215 (82%)	174 (99%)	2 (1%)	70	83
47	CN	176/215 (82%)	173 (98%)	3 (2%)	56	75
48	CO	193/229 (84%)	187 (97%)	6 (3%)	35	63
48	D	194/229 (85%)	194 (100%)	0	100	100
49	CP	175/198 (88%)	174 (99%)	1 (1%)	84	91
49	E	175/198 (88%)	175 (100%)	0	100	100
50	CQ	174/196 (89%)	169 (97%)	5 (3%)	37	64
50	F	174/196 (89%)	172 (99%)	2 (1%)	70	83
51	CR	218/220 (99%)	217 (100%)	1 (0%)	86	93
51	G	217/220 (99%)	217 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
52	CS	177/197 (90%)	170 (96%)	7 (4%)	27	56
52	H	178/197 (90%)	178 (100%)	0	100	100
53	CT	204/204 (100%)	202 (99%)	2 (1%)	73	84
53	I	193/204 (95%)	192 (100%)	1 (0%)	86	93
54	CU	161/167 (96%)	158 (98%)	3 (2%)	52	73
54	J	163/167 (98%)	162 (99%)	1 (1%)	84	91
55	CV	157/160 (98%)	157 (100%)	0	100	100
55	K	157/160 (98%)	156 (99%)	1 (1%)	84	91
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	90/104 (86%)	90 (100%)	0	100	100
58	CY	122/134 (91%)	120 (98%)	2 (2%)	58	76
58	N	124/134 (92%)	121 (98%)	3 (2%)	44	68
59	CZ	101/123 (82%)	97 (96%)	4 (4%)	27	56
59	O	98/123 (80%)	90 (92%)	8 (8%)	9	33
60	DA	129/130 (99%)	128 (99%)	1 (1%)	79	88
60	P	128/130 (98%)	128 (100%)	0	100	100
61	DB	93/102 (91%)	93 (100%)	0	100	100
61	Q	97/102 (95%)	96 (99%)	1 (1%)	73	84
62	DC	112/121 (93%)	108 (96%)	4 (4%)	30	59
62	R	112/121 (93%)	110 (98%)	2 (2%)	54	74
63	DD	113/116 (97%)	111 (98%)	2 (2%)	54	74
63	S	113/116 (97%)	111 (98%)	2 (2%)	54	74
64	DE	112/122 (92%)	112 (100%)	0	100	100
64	T	112/122 (92%)	110 (98%)	2 (2%)	54	74
65	DF	125/129 (97%)	121 (97%)	4 (3%)	34	62
65	U	128/129 (99%)	125 (98%)	3 (2%)	45	69
66	DG	113/117 (97%)	113 (100%)	0	100	100
66	V	113/117 (97%)	113 (100%)	0	100	100
67	DH	87/105 (83%)	85 (98%)	2 (2%)	45	69

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
67	W	92/105 (88%)	89 (97%)	3 (3%)	33	61
68	DI	71/71 (100%)	71 (100%)	0	100	100
68	X	71/71 (100%)	71 (100%)	0	100	100
69	DJ	112/113 (99%)	111 (99%)	1 (1%)	75	86
69	Y	112/113 (99%)	112 (100%)	0	100	100
70	DK	116/118 (98%)	115 (99%)	1 (1%)	75	86
70	Z	116/118 (98%)	115 (99%)	1 (1%)	75	86
71	DL	109/112 (97%)	109 (100%)	0	100	100
71	a	111/112 (99%)	111 (100%)	0	100	100
72	DM	63/85 (74%)	63 (100%)	0	100	100
72	b	64/85 (75%)	64 (100%)	0	100	100
73	DN	84/102 (82%)	83 (99%)	1 (1%)	67	82
73	c	83/102 (81%)	81 (98%)	2 (2%)	44	68
74	DO	72/73 (99%)	72 (100%)	0	100	100
74	d	72/73 (99%)	72 (100%)	0	100	100
75	DP	53/58 (91%)	53 (100%)	0	100	100
75	e	52/58 (90%)	51 (98%)	1 (2%)	52	73
76	DQ	47/48 (98%)	44 (94%)	3 (6%)	14	41
76	f	47/48 (98%)	43 (92%)	4 (8%)	8	32
77	DR	51/54 (94%)	49 (96%)	2 (4%)	27	56
77	g	51/54 (94%)	51 (100%)	0	100	100
78	DS	60/175 (34%)	57 (95%)	3 (5%)	20	49
78	h	62/175 (35%)	60 (97%)	2 (3%)	34	62
79	AR	259/263 (98%)	258 (100%)	1 (0%)	89	95
79	DT	255/263 (97%)	242 (95%)	13 (5%)	20	48
80	BE	175/186 (94%)	174 (99%)	1 (1%)	84	91
81	P0	92/247 (37%)	89 (97%)	3 (3%)	33	61
82	12	53/137 (39%)	48 (91%)	5 (9%)	7	29
All	All	19011/20831 (91%)	18794 (99%)	217 (1%)	70	83

5 of 217 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
23	BP	78	TYR
48	CO	128	LYS
79	DT	66	SER
26	BS	47	GLN
36	CC	59	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 57 such sidechains are listed below:

Mol	Chain	Res	Type
22	BO	95	HIS
81	P0	10	GLN
37	CD	79	HIS
79	DT	107	HIS
69	DJ	92	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3215/3359 (95%)	607 (18%)	45 (1%)
1	AS	3093/3359 (92%)	528 (17%)	39 (1%)
2	3	120/121 (99%)	9 (7%)	0
2	AT	120/121 (99%)	9 (7%)	0
3	4	155/158 (98%)	22 (14%)	2 (1%)
3	AU	157/158 (99%)	23 (14%)	3 (1%)
46	B	1702/1787 (95%)	405 (23%)	45 (2%)
46	CM	1722/1787 (96%)	430 (24%)	48 (2%)
All	All	10284/10850 (94%)	2033 (19%)	182 (1%)

5 of 2033 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 182 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AS	2515	G

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Mol	Chain	Res	Type
46	CM	259	U
1	AS	2789	A
1	AS	3317	U
46	CM	518	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 1152 ligands modelled in this entry, 1148 are monoatomic - leaving 4 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
83	3K5	1	3401	-	62,63,63	0.21	0	82,95,95	0.46	1 (1%)
86	GET	B	1851	-	33,36,36	0.45	0	43,55,55	0.60	1 (2%)
83	3K5	AS	3401	-	62,63,63	0.30	0	82,95,95	0.92	3 (3%)
86	GET	CM	1822	-	33,36,36	0.43	0	43,55,55	0.63	1 (2%)

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	1	3401	-	-	4/29/121/121	0/7/7/7
86	GET	B	1851	-	-	3/13/74/74	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
83	3K5	AS	3401	-	-	4/29/121/121	0/7/7/7
86	GET	CM	1822	-	-	2/13/74/74	0/3/3/3

There are no bond length outliers.

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
83	AS	3401	3K5	C34-O14-C38	4.26	124.32	117.72
83	AS	3401	3K5	O14-C34-C35	3.95	116.71	107.70
83	AS	3401	3K5	O14-C34-C33	3.42	115.51	107.70
86	CM	1822	GET	O11-C11-C21	3.18	113.70	108.22
86	B	1851	GET	O11-C11-C21	2.59	112.67	108.22

There are no chirality outliers.

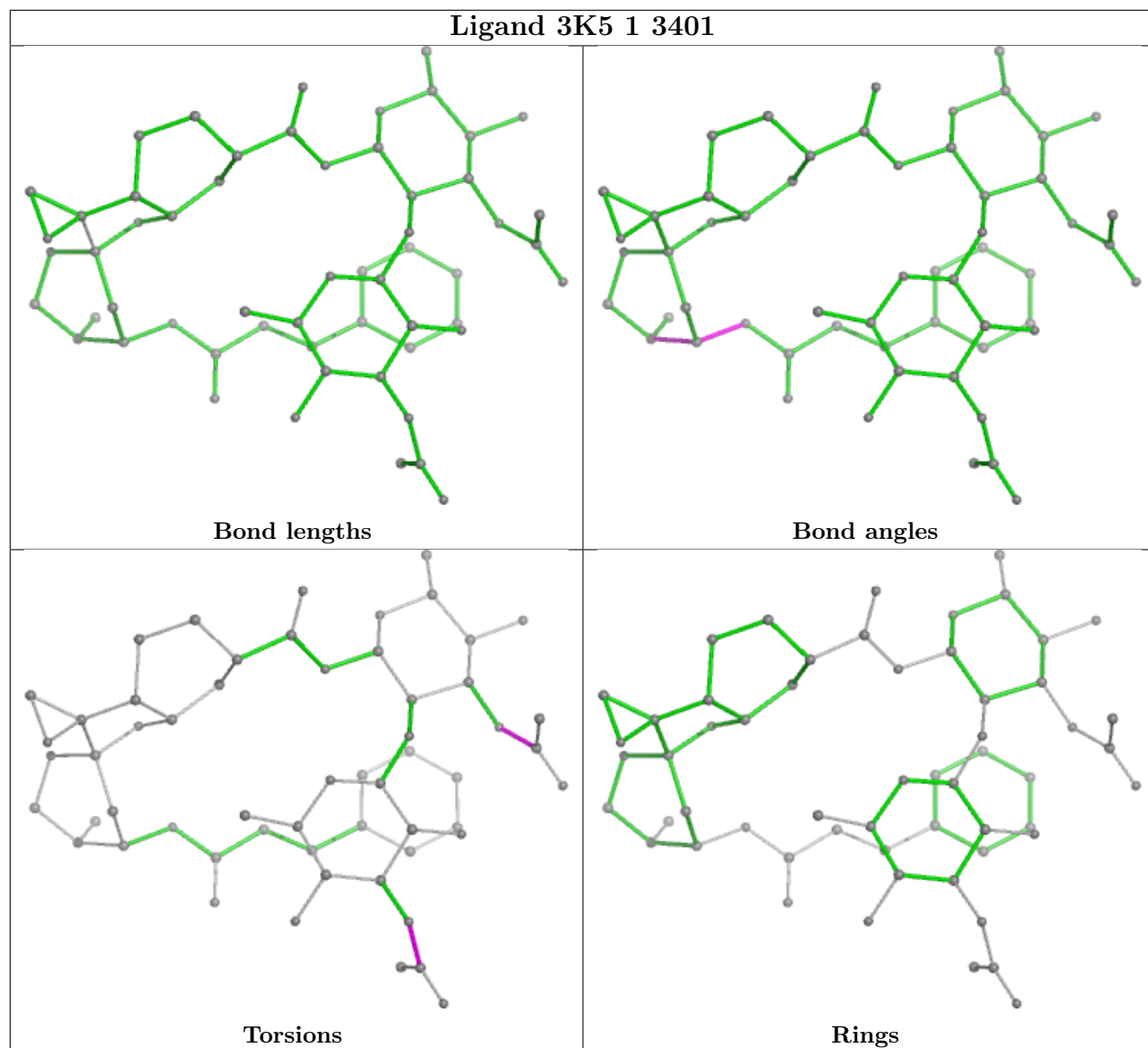
5 of 13 torsion outliers are listed below:

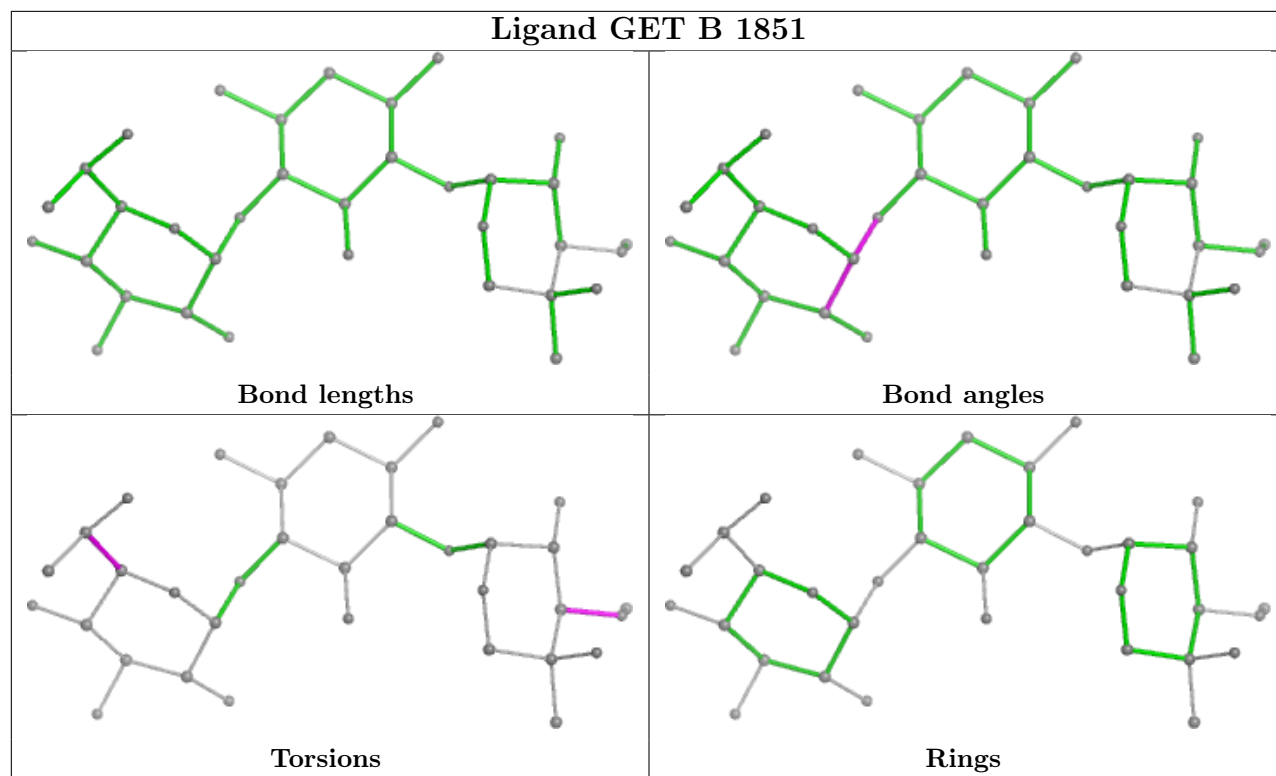
Mol	Chain	Res	Type	Atoms
86	B	1851	GET	O51-C51-C61-O61
86	B	1851	GET	C23-C33-N33-C93
86	CM	1822	GET	C23-C33-N33-C93
83	1	3401	3K5	C39-C38-O14-C34
83	1	3401	3K5	C31-C30-O9-C26

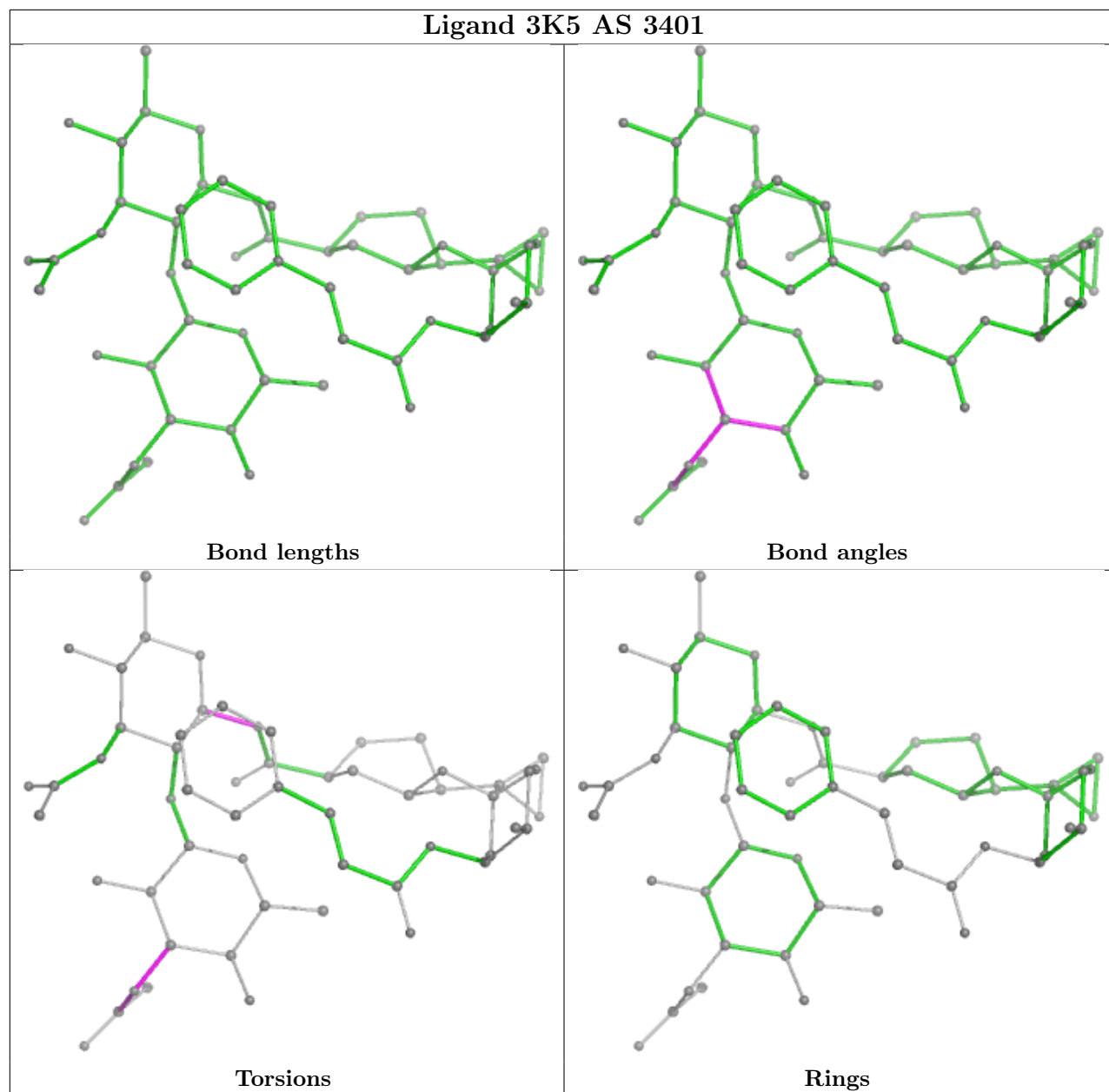
There are no ring outliers.

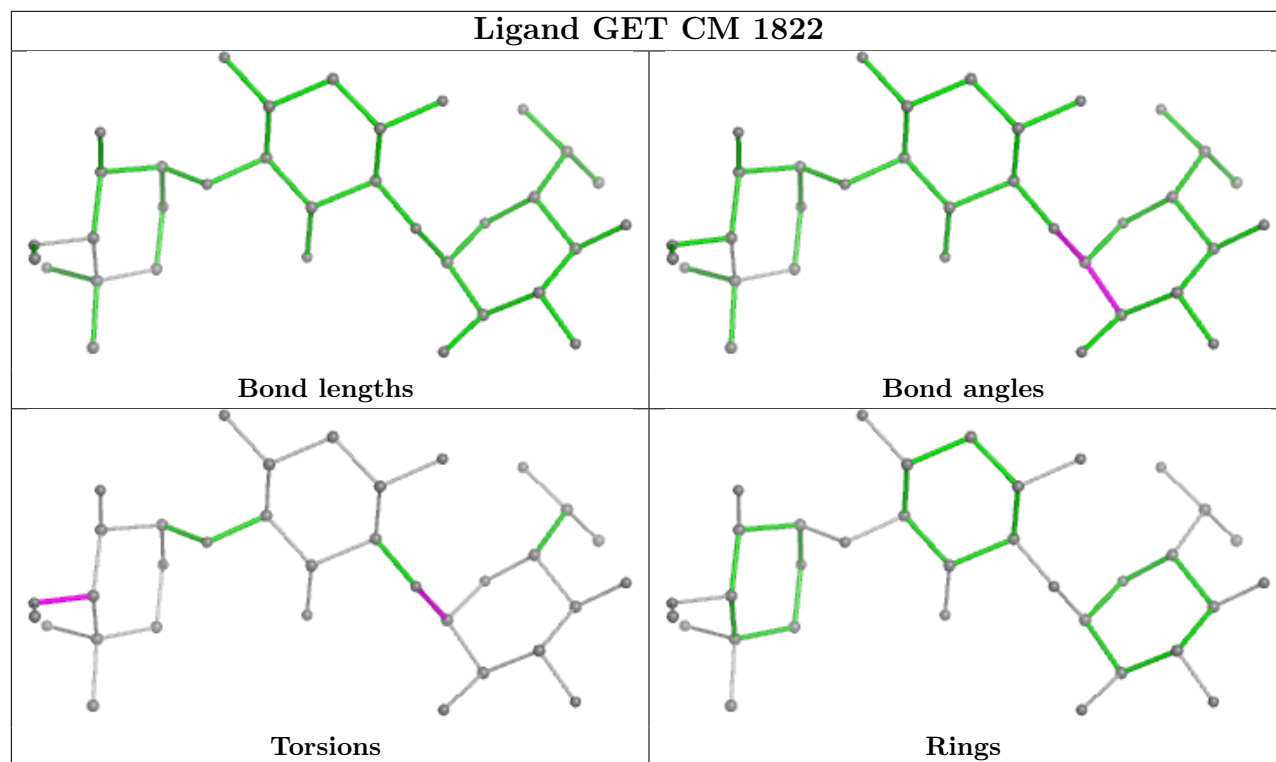
No monomer is involved in short contacts.

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 than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

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

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1	3218/3359 (95%)	-0.02	72 (2%) 62 43	67, 107, 226, 432	0
1	AS	3101/3359 (92%)	0.10	92 (2%) 52 35	74, 119, 222, 327	0
2	3	121/121 (100%)	-0.27	2 (1%) 69 49	81, 112, 128, 178	0
2	AT	121/121 (100%)	-0.14	1 (0%) 82 67	86, 122, 141, 189	0
3	4	156/158 (98%)	-0.10	4 (2%) 57 39	88, 119, 158, 213	0
3	AU	158/158 (100%)	0.07	6 (3%) 44 30	103, 142, 189, 269	0
4	AW	249/254 (98%)	0.35	21 (8%) 18 14	88, 128, 152, 164	0
4	j	249/254 (98%)	0.34	13 (5%) 34 24	67, 103, 134, 178	0
5	AX	386/389 (99%)	0.27	26 (6%) 25 19	61, 100, 137, 204	0
5	k	386/389 (99%)	0.25	16 (4%) 42 28	59, 100, 127, 167	0
6	AY	359/363 (98%)	0.54	42 (11%) 10 9	76, 125, 157, 177	0
6	l	359/363 (98%)	0.42	25 (6%) 24 19	58, 111, 144, 177	0
7	AZ	292/298 (97%)	0.54	26 (8%) 17 13	88, 141, 175, 185	0
7	m	294/298 (98%)	0.12	17 (5%) 30 22	88, 123, 160, 181	0
8	BA	153/176 (86%)	0.48	12 (7%) 20 16	92, 129, 157, 192	0
8	n	157/176 (89%)	0.17	5 (3%) 50 34	93, 124, 156, 186	0
9	BB	226/241 (93%)	0.38	19 (8%) 18 14	75, 107, 144, 180	0
9	o	229/241 (95%)	0.10	11 (4%) 36 26	70, 97, 140, 210	0
10	BC	233/262 (88%)	0.14	8 (3%) 48 32	132, 169, 208, 223	0
10	p	236/262 (90%)	0.05	6 (2%) 58 40	101, 134, 180, 207	0
11	BD	190/191 (99%)	0.06	9 (4%) 37 26	97, 127, 155, 192	0
11	q	190/191 (99%)	0.01	1 (0%) 87 75	84, 115, 139, 174	0
12	r	207/219 (94%)	0.07	7 (3%) 48 32	57, 93, 137, 168	0
13	BF	171/174 (98%)	0.07	5 (2%) 54 36	91, 132, 162, 183	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	s	171/174 (98%)	0.17	10 (5%) 30 22	82, 126, 154, 168	0
14	BG	200/202 (99%)	0.14	7 (3%) 47 32	88, 140, 182, 202	0
14	t	200/202 (99%)	0.04	7 (3%) 47 32	68, 122, 169, 194	0
15	BH	130/131 (99%)	0.07	3 (2%) 61 42	90, 123, 153, 167	0
15	u	128/131 (97%)	0.07	8 (6%) 27 20	87, 112, 136, 151	0
16	BI	203/204 (99%)	1.05	30 (14%) 7 6	93, 134, 156, 171	0
16	v	203/204 (99%)	0.87	32 (15%) 6 6	74, 104, 123, 140	0
17	BJ	199/200 (99%)	0.27	14 (7%) 24 19	74, 100, 145, 164	0
17	w	199/200 (99%)	0.27	7 (3%) 47 32	69, 96, 136, 157	0
18	BK	174/185 (94%)	0.34	6 (3%) 48 32	82, 114, 142, 165	0
18	x	169/185 (91%)	0.41	8 (4%) 37 26	75, 105, 153, 171	0
19	BL	185/186 (99%)	0.58	16 (8%) 18 14	91, 120, 141, 159	0
19	y	185/186 (99%)	0.39	15 (8%) 19 15	75, 106, 131, 150	0
20	BM	179/190 (94%)	0.31	11 (6%) 28 21	103, 134, 198, 217	0
20	z	179/190 (94%)	0.45	12 (6%) 25 19	91, 120, 185, 204	0
21	0	170/172 (98%)	-0.00	3 (1%) 67 48	75, 96, 124, 174	0
21	BN	170/172 (98%)	0.05	0 100 100	81, 110, 135, 159	0
22	2	159/160 (99%)	0.25	10 (6%) 27 20	74, 97, 165, 186	0
22	BO	159/160 (99%)	0.58	16 (10%) 14 11	80, 109, 165, 203	0
23	5	100/124 (80%)	-0.15	0 100 100	122, 159, 188, 195	0
23	BP	99/124 (79%)	-0.40	0 100 100	137, 175, 196, 243	0
24	6	131/137 (95%)	0.40	6 (4%) 38 27	69, 92, 121, 137	0
24	BQ	131/137 (95%)	0.29	4 (3%) 51 35	58, 94, 121, 142	0
25	7	118/155 (76%)	-0.13	0 100 100	80, 126, 175, 186	0
25	BR	109/155 (70%)	0.05	4 (3%) 45 30	84, 117, 150, 174	0
26	8	120/142 (84%)	0.32	11 (9%) 16 12	93, 123, 143, 156	0
26	BS	119/142 (83%)	0.22	3 (2%) 58 40	118, 146, 163, 176	0
27	9	126/127 (99%)	0.16	2 (1%) 70 51	92, 126, 155, 164	0
27	BT	126/127 (99%)	0.29	7 (5%) 31 23	110, 143, 174, 191	0
28	AA	135/136 (99%)	0.08	2 (1%) 71 53	112, 141, 166, 198	0
28	BU	135/136 (99%)	-0.13	1 (0%) 84 69	138, 171, 197, 224	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	AB	148/149 (99%)	0.50	12 (8%) 19 15	70, 101, 132, 161	0
29	BV	148/149 (99%)	0.51	8 (5%) 32 23	77, 124, 153, 170	0
30	AC	58/63 (92%)	0.53	9 (15%) 6 6	69, 114, 142, 164	0
30	BW	60/63 (95%)	0.81	8 (13%) 8 7	87, 130, 167, 194	0
31	AD	98/106 (92%)	-0.00	0 100 100	99, 130, 149, 153	0
31	BX	94/106 (88%)	-0.17	0 100 100	129, 160, 181, 199	0
32	AE	108/112 (96%)	0.17	5 (4%) 38 27	86, 115, 163, 184	0
32	BY	108/112 (96%)	0.36	8 (7%) 22 17	87, 120, 164, 203	0
33	AF	124/131 (94%)	0.69	14 (11%) 11 9	64, 105, 131, 151	0
33	BZ	122/131 (93%)	0.69	8 (6%) 26 19	88, 112, 140, 154	0
34	AG	106/107 (99%)	0.35	7 (6%) 26 19	76, 102, 120, 142	0
34	CA	106/107 (99%)	0.14	1 (0%) 81 64	85, 106, 127, 144	0
35	AH	112/122 (91%)	0.92	21 (18%) 4 4	87, 121, 168, 190	0
35	CB	110/122 (90%)	0.93	19 (17%) 5 5	112, 146, 194, 201	0
36	AI	115/120 (95%)	0.17	6 (5%) 34 24	105, 131, 157, 175	0
36	CC	117/120 (97%)	0.29	7 (5%) 29 22	127, 155, 175, 210	0
37	AJ	97/99 (97%)	-0.06	1 (1%) 79 61	103, 119, 155, 199	0
37	CD	95/99 (95%)	0.03	2 (2%) 63 44	115, 148, 174, 197	0
38	AK	86/90 (95%)	0.46	5 (5%) 30 22	81, 102, 141, 152	0
38	CE	86/90 (95%)	0.44	6 (6%) 24 19	88, 120, 160, 169	0
39	AL	77/78 (98%)	0.22	1 (1%) 74 56	113, 152, 178, 207	0
39	CF	77/78 (98%)	-0.13	2 (2%) 57 39	140, 167, 202, 208	0
40	AM	50/51 (98%)	0.53	3 (6%) 29 22	84, 111, 135, 143	0
40	CG	50/51 (98%)	0.57	5 (10%) 14 11	95, 125, 143, 147	0
41	AN	50/52 (96%)	0.70	5 (10%) 14 11	113, 149, 165, 169	0
41	CH	50/52 (96%)	0.79	7 (14%) 7 6	121, 154, 169, 181	0
42	AO	25/25 (100%)	0.96	4 (16%) 6 5	99, 107, 123, 130	0
42	CI	24/25 (96%)	1.02	4 (16%) 5 5	93, 112, 125, 132	0
43	AP	103/106 (97%)	0.05	2 (1%) 66 46	73, 100, 143, 158	0
43	CJ	103/106 (97%)	0.26	6 (5%) 30 22	91, 124, 160, 171	0
44	AQ	91/92 (98%)	0.30	5 (5%) 32 23	79, 111, 140, 165	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	CK	91/92 (98%)	-0.12	1 (1%) 77 59	106, 130, 160, 174	0
45	CL	120/267 (44%)	0.01	6 (5%) 35 25	100, 143, 178, 186	0
45	i	106/267 (39%)	0.35	6 (5%) 30 23	108, 150, 178, 201	0
46	B	1708/1787 (95%)	0.13	74 (4%) 40 27	83, 128, 212, 439	0
46	CM	1728/1787 (96%)	-0.02	33 (1%) 66 46	86, 131, 222, 410	0
47	C	208/261 (79%)	0.16	8 (3%) 44 30	127, 161, 191, 201	0
47	CN	208/261 (79%)	0.08	9 (4%) 40 27	101, 152, 181, 215	0
48	CO	213/256 (83%)	-0.24	5 (2%) 61 42	124, 173, 195, 212	0
48	D	214/256 (83%)	-0.02	4 (1%) 66 46	110, 144, 167, 178	0
49	CP	217/249 (87%)	0.08	8 (3%) 45 30	83, 124, 152, 171	0
49	E	217/249 (87%)	0.22	18 (8%) 19 14	106, 137, 164, 187	0
50	CQ	223/251 (88%)	0.07	10 (4%) 39 27	99, 130, 186, 216	0
50	F	223/251 (88%)	0.33	14 (6%) 27 20	103, 143, 197, 215	0
51	CR	260/262 (99%)	0.04	15 (5%) 30 22	103, 130, 156, 184	0
51	G	258/262 (98%)	0.61	25 (9%) 15 11	110, 145, 166, 192	0
52	CS	205/225 (91%)	0.05	11 (5%) 32 23	124, 155, 189, 241	0
52	H	206/225 (91%)	0.38	18 (8%) 17 13	107, 146, 181, 213	0
53	CT	236/236 (100%)	0.16	9 (3%) 44 30	94, 143, 182, 203	0
53	I	223/236 (94%)	0.31	24 (10%) 12 10	97, 143, 178, 222	0
54	CU	179/186 (96%)	-0.20	3 (1%) 69 49	123, 179, 214, 226	0
54	J	182/186 (97%)	0.24	11 (6%) 29 22	118, 180, 204, 219	0
55	CV	203/206 (98%)	0.41	17 (8%) 18 14	82, 121, 170, 195	0
55	K	203/206 (98%)	0.19	14 (6%) 24 19	89, 129, 173, 189	0
56	CW	178/189 (94%)	0.18	10 (5%) 31 23	101, 137, 167, 188	0
56	L	178/189 (94%)	0.63	22 (12%) 9 8	118, 151, 173, 185	0
57	CX	94/118 (79%)	-0.20	0 100 100	104, 147, 177, 208	0
57	M	98/118 (83%)	0.18	2 (2%) 64 45	108, 154, 188, 204	0
58	CY	141/155 (90%)	-0.01	0 100 100	83, 118, 151, 197	0
58	N	144/155 (92%)	0.34	10 (6%) 24 19	102, 129, 165, 189	0
59	CZ	119/143 (83%)	-0.13	0 100 100	178, 214, 225, 231	0
59	O	116/143 (81%)	0.04	4 (3%) 48 32	193, 225, 239, 248	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	DA	150/151 (99%)	0.13	5 (3%) 49 33	103, 146, 173, 183	0
60	P	148/151 (98%)	0.41	11 (7%) 22 17	101, 140, 167, 179	0
61	DB	122/132 (92%)	-0.06	3 (2%) 58 40	98, 153, 179, 189	0
61	Q	127/132 (96%)	0.23	8 (6%) 27 20	97, 129, 152, 162	0
62	DC	130/142 (91%)	0.34	3 (2%) 61 42	115, 155, 184, 195	0
62	R	131/142 (92%)	0.25	6 (4%) 38 27	94, 138, 178, 202	0
63	DD	139/142 (97%)	0.52	15 (10%) 12 10	108, 152, 179, 189	0
63	S	139/142 (97%)	0.44	11 (7%) 20 16	110, 149, 184, 201	0
64	DE	124/137 (90%)	0.28	5 (4%) 43 29	104, 163, 207, 216	0
64	T	124/137 (90%)	0.28	4 (3%) 50 34	128, 167, 217, 226	0
65	DF	141/145 (97%)	0.14	1 (0%) 84 69	115, 153, 182, 210	0
65	U	144/145 (99%)	0.11	3 (2%) 63 44	96, 126, 165, 179	0
66	DG	141/145 (97%)	0.13	4 (2%) 55 37	117, 150, 175, 193	0
66	V	141/145 (97%)	0.14	1 (0%) 84 69	110, 137, 176, 196	0
67	DH	97/119 (81%)	0.42	9 (9%) 16 12	97, 147, 182, 194	0
67	W	102/119 (85%)	0.49	9 (8%) 17 13	96, 164, 192, 198	0
68	DI	87/87 (100%)	-0.01	2 (2%) 61 42	106, 144, 173, 193	0
68	X	87/87 (100%)	-0.02	2 (2%) 61 42	111, 147, 172, 181	0
69	DJ	129/130 (99%)	0.12	0 100 100	104, 127, 144, 151	0
69	Y	129/130 (99%)	0.42	5 (3%) 44 30	112, 133, 148, 154	0
70	DK	143/145 (98%)	0.36	9 (6%) 27 20	79, 104, 131, 156	0
70	Z	143/145 (98%)	0.43	10 (6%) 24 19	85, 110, 132, 158	0
71	DL	132/135 (97%)	-0.15	1 (0%) 82 67	114, 150, 176, 204	0
71	a	134/135 (99%)	0.10	6 (4%) 39 27	115, 152, 175, 189	0
72	DM	71/105 (67%)	-0.13	1 (1%) 73 53	149, 175, 195, 201	0
72	b	72/105 (68%)	-0.23	1 (1%) 73 53	120, 150, 179, 193	0
73	DN	98/119 (82%)	0.15	6 (6%) 28 21	109, 136, 188, 195	0
73	c	97/119 (81%)	0.32	9 (9%) 16 12	100, 133, 168, 197	0
74	DO	81/82 (98%)	-0.14	1 (1%) 76 57	125, 163, 219, 233	0
74	d	81/82 (98%)	0.19	4 (4%) 36 25	120, 154, 198, 218	0
75	DP	61/67 (91%)	-0.28	1 (1%) 70 51	133, 162, 183, 192	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	e	60/67 (89%)	0.15	3 (5%) 35 25	125, 156, 185, 191	0
76	DQ	54/56 (96%)	0.34	2 (3%) 45 30	95, 116, 149, 169	0
76	f	55/56 (98%)	0.71	8 (14%) 7 6	98, 118, 141, 175	0
77	DR	59/63 (93%)	0.33	5 (8%) 18 14	98, 140, 207, 220	0
77	g	60/63 (95%)	0.47	7 (11%) 10 9	117, 147, 202, 222	0
78	DS	68/193 (35%)	0.04	4 (5%) 29 22	154, 226, 246, 252	0
78	h	70/193 (36%)	0.30	6 (8%) 18 14	163, 211, 237, 252	0
79	AR	311/317 (98%)	0.11	9 (2%) 54 36	162, 200, 225, 242	0
79	DT	307/317 (96%)	-0.17	2 (0%) 84 69	162, 200, 221, 236	0
80	BE	205/220 (93%)	0.02	6 (2%) 54 36	64, 97, 143, 172	0
81	P0	107/312 (34%)	-0.22	1 (0%) 81 64	155, 176, 191, 202	0
82	12	63/165 (38%)	-0.27	0 100 100	159, 180, 196, 207	0
All	All	32813/35602 (92%)	0.17	1492 (4%) 39 27	57, 128, 201, 439	0

The worst 5 of 1492 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
51	G	39	ARG	9.2
53	I	79	LYS	8.9
53	CT	79	LYS	8.8
60	P	7	SER	8.6
35	CB	33	GLN	8.6

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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	AS	3650	1/1	0.10	0.10	115,115,115,115	0
84	MG	BL	202	1/1	0.11	0.23	107,107,107,107	0
84	MG	1	3751	1/1	0.15	0.27	111,111,111,111	0
84	MG	AS	3713	1/1	0.22	0.26	95,95,95,95	0
84	MG	AS	3715	1/1	0.29	0.31	158,158,158,158	0
84	MG	1	3570	1/1	0.30	0.21	112,112,112,112	0
84	MG	1	3595	1/1	0.32	0.28	89,89,89,89	0
84	MG	1	3837	1/1	0.36	0.23	82,82,82,82	0
84	MG	AS	3756	1/1	0.36	0.20	69,69,69,69	0
84	MG	BC	301	1/1	0.36	0.32	125,125,125,125	0
84	MG	B	1886	1/1	0.36	0.12	66,66,66,66	0
84	MG	AS	3692	1/1	0.37	0.19	86,86,86,86	0
84	MG	1	3761	1/1	0.37	0.32	106,106,106,106	0
84	MG	CM	1830	1/1	0.37	0.23	96,96,96,96	0
84	MG	1	3726	1/1	0.38	0.13	96,96,96,96	0
84	MG	AS	3517	1/1	0.38	0.25	106,106,106,106	0
84	MG	AS	3576	1/1	0.39	0.20	97,97,97,97	0
84	MG	AS	3641	1/1	0.39	1.15	81,81,81,81	0
84	MG	1	3800	1/1	0.40	0.12	70,70,70,70	0
84	MG	AS	3649	1/1	0.40	0.18	101,101,101,101	0
84	MG	AS	3536	1/1	0.42	0.35	110,110,110,110	0
84	MG	1	3778	1/1	0.44	0.25	80,80,80,80	0
84	MG	DK	201	1/1	0.44	0.15	91,91,91,91	0
84	MG	1	3741	1/1	0.45	0.25	98,98,98,98	0
84	MG	AS	3489	1/1	0.45	0.34	57,57,57,57	0
84	MG	AS	3529	1/1	0.46	0.14	88,88,88,88	0
84	MG	AS	3678	1/1	0.46	0.18	108,108,108,108	0
84	MG	AS	3735	1/1	0.47	0.24	89,89,89,89	0
84	MG	AS	3765	1/1	0.47	0.23	96,96,96,96	0
84	MG	1	3481	1/1	0.48	0.39	113,113,113,113	0
84	MG	AS	3560	1/1	0.49	0.31	96,96,96,96	0
84	MG	1	3756	1/1	0.49	0.16	79,79,79,79	0
84	MG	o	304	1/1	0.50	0.17	75,75,75,75	0
84	MG	1	3576	1/1	0.50	0.16	58,58,58,58	0
84	MG	1	3747	1/1	0.51	0.28	82,82,82,82	0
84	MG	AS	3752	1/1	0.51	0.22	115,115,115,115	0
84	MG	1	3870	1/1	0.52	0.44	87,87,87,87	0
84	MG	1	3408	1/1	0.52	0.17	71,71,71,71	0
84	MG	1	3711	1/1	0.52	0.19	64,64,64,64	0
84	MG	CM	1878	1/1	0.52	0.11	58,58,58,58	0
84	MG	1	3770	1/1	0.52	0.23	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3580	1/1	0.53	0.14	80,80,80,80	0
84	MG	B	1803	1/1	0.53	0.26	113,113,113,113	0
84	MG	AY	402	1/1	0.53	0.19	120,120,120,120	0
84	MG	AS	3651	1/1	0.53	0.17	122,122,122,122	0
84	MG	AS	3518	1/1	0.54	0.24	88,88,88,88	0
84	MG	C	301	1/1	0.54	0.12	89,89,89,89	0
84	MG	AS	3710	1/1	0.54	0.20	69,69,69,69	0
84	MG	1	3505	1/1	0.55	0.16	77,77,77,77	0
84	MG	1	3605	1/1	0.55	0.16	60,60,60,60	0
84	MG	AS	3673	1/1	0.55	0.14	79,79,79,79	0
84	MG	1	3492	1/1	0.56	0.31	72,72,72,72	0
84	MG	AS	3481	1/1	0.56	0.28	76,76,76,76	0
84	MG	1	3441	1/1	0.56	0.31	71,71,71,71	0
84	MG	1	3678	1/1	0.56	0.21	75,75,75,75	0
84	MG	AS	3716	1/1	0.56	0.18	86,86,86,86	0
84	MG	AS	3717	1/1	0.56	0.30	79,79,79,79	0
84	MG	1	3744	1/1	0.56	0.17	84,84,84,84	0
84	MG	AS	3601	1/1	0.56	0.22	78,78,78,78	0
84	MG	AS	3789	1/1	0.57	0.15	94,94,94,94	0
84	MG	AS	3755	1/1	0.57	0.15	64,64,64,64	0
84	MG	CL	301	1/1	0.57	0.50	85,85,85,85	0
84	MG	B	1850	1/1	0.58	0.26	198,198,198,198	0
84	MG	AS	3569	1/1	0.58	0.28	89,89,89,89	0
84	MG	1	3723	1/1	0.58	0.28	72,72,72,72	0
84	MG	B	1900	1/1	0.58	0.19	101,101,101,101	0
84	MG	1	3662	1/1	0.58	0.12	88,88,88,88	0
84	MG	1	3675	1/1	0.58	0.25	77,77,77,77	0
84	MG	B	1802	1/1	0.59	0.25	67,67,67,67	0
84	MG	1	3476	1/1	0.59	0.24	80,80,80,80	0
84	MG	AS	3585	1/1	0.59	0.29	78,78,78,78	0
84	MG	AS	3588	1/1	0.59	0.28	72,72,72,72	0
84	MG	1	3415	1/1	0.59	0.15	69,69,69,69	0
84	MG	AS	3703	1/1	0.59	0.14	77,77,77,77	0
84	MG	B	1859	1/1	0.59	0.23	85,85,85,85	0
84	MG	1	3731	1/1	0.59	0.44	82,82,82,82	0
84	MG	1	3470	1/1	0.60	0.25	77,77,77,77	0
84	MG	AS	3790	1/1	0.60	0.24	98,98,98,98	0
84	MG	1	3508	1/1	0.60	0.59	123,123,123,123	0
84	MG	1	3776	1/1	0.60	0.28	66,66,66,66	0
84	MG	1	3754	1/1	0.60	0.17	108,108,108,108	0
84	MG	AS	3539	1/1	0.60	0.22	95,95,95,95	0
84	MG	AS	3618	1/1	0.60	0.17	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3730	1/1	0.60	0.38	70,70,70,70	0
84	MG	1	3824	1/1	0.60	0.20	80,80,80,80	0
84	MG	AS	3568	1/1	0.61	0.20	81,81,81,81	0
84	MG	B	1821	1/1	0.61	0.24	80,80,80,80	0
84	MG	AS	3584	1/1	0.61	0.19	99,99,99,99	0
84	MG	AS	3614	1/1	0.61	0.12	74,74,74,74	0
84	MG	1	3665	1/1	0.62	0.19	70,70,70,70	0
84	MG	AS	3511	1/1	0.62	0.23	75,75,75,75	0
84	MG	1	3794	1/1	0.62	0.13	71,71,71,71	0
84	MG	CG	101	1/1	0.63	0.13	101,101,101,101	0
84	MG	1	3742	1/1	0.63	0.15	69,69,69,69	0
84	MG	AS	3592	1/1	0.63	0.22	66,66,66,66	0
84	MG	1	3417	1/1	0.63	0.25	82,82,82,82	0
84	MG	AS	3426	1/1	0.63	0.22	56,56,56,56	0
84	MG	1	3799	1/1	0.64	0.10	78,78,78,78	0
84	MG	1	3490	1/1	0.64	0.24	47,47,47,47	0
84	MG	1	3823	1/1	0.64	0.15	99,99,99,99	0
84	MG	AS	3512	1/1	0.64	0.27	78,78,78,78	0
84	MG	1	3763	1/1	0.64	0.11	61,61,61,61	0
84	MG	1	3567	1/1	0.64	0.25	87,87,87,87	0
84	MG	B	1834	1/1	0.64	0.23	63,63,63,63	0
84	MG	1	3672	1/1	0.65	0.24	68,68,68,68	0
84	MG	1	3405	1/1	0.65	0.23	85,85,85,85	0
84	MG	AS	3783	1/1	0.65	0.20	84,84,84,84	0
84	MG	1	3535	1/1	0.65	0.27	86,86,86,86	0
84	MG	1	3788	1/1	0.65	0.23	78,78,78,78	0
84	MG	1	3733	1/1	0.65	0.37	83,83,83,83	0
84	MG	AS	3532	1/1	0.65	0.31	65,65,65,65	0
84	MG	AS	3729	1/1	0.65	0.13	71,71,71,71	0
84	MG	1	3740	1/1	0.65	0.22	79,79,79,79	0
84	MG	AS	3739	1/1	0.65	0.35	93,93,93,93	0
84	MG	AS	3751	1/1	0.65	0.13	81,81,81,81	0
84	MG	1	3543	1/1	0.65	0.21	58,58,58,58	0
84	MG	1	3585	1/1	0.65	0.18	98,98,98,98	0
84	MG	1	3691	1/1	0.66	0.10	73,73,73,73	0
84	MG	1	3697	1/1	0.66	0.16	74,74,74,74	0
84	MG	AS	3709	1/1	0.66	0.06	90,90,90,90	0
84	MG	AS	3759	1/1	0.66	0.29	81,81,81,81	0
84	MG	1	3599	1/1	0.66	0.13	72,72,72,72	0
84	MG	CM	1816	1/1	0.66	0.24	67,67,67,67	0
84	MG	AS	3674	1/1	0.66	0.10	94,94,94,94	0
84	MG	CM	1847	1/1	0.66	0.16	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3744	1/1	0.66	0.28	71,71,71,71	0
84	MG	1	3689	1/1	0.66	0.23	78,78,78,78	0
84	MG	3	206	1/1	0.67	0.20	83,83,83,83	0
84	MG	1	3565	1/1	0.67	0.10	49,49,49,49	0
84	MG	AS	3433	1/1	0.67	0.23	60,60,60,60	0
84	MG	AX	401	1/1	0.67	0.09	76,76,76,76	0
84	MG	CM	1846	1/1	0.67	0.23	69,69,69,69	0
84	MG	B	1831	1/1	0.67	0.20	79,79,79,79	0
84	MG	AS	3764	1/1	0.67	0.12	86,86,86,86	0
84	MG	DG	201	1/1	0.67	0.16	121,121,121,121	0
84	MG	1	3593	1/1	0.67	0.22	83,83,83,83	0
84	MG	1	3717	1/1	0.68	0.25	54,54,54,54	0
84	MG	1	3681	1/1	0.68	0.14	63,63,63,63	0
84	MG	1	3847	1/1	0.68	0.13	68,68,68,68	0
84	MG	1	3451	1/1	0.68	0.14	50,50,50,50	0
84	MG	1	3411	1/1	0.68	0.16	90,90,90,90	0
84	MG	AS	3714	1/1	0.68	0.21	54,54,54,54	0
84	MG	CM	1826	1/1	0.68	0.15	69,69,69,69	0
84	MG	1	3609	1/1	0.68	0.14	82,82,82,82	0
84	MG	AS	3525	1/1	0.68	0.16	46,46,46,46	0
84	MG	1	3817	1/1	0.68	0.22	101,101,101,101	0
84	MG	1	3821	1/1	0.68	0.17	64,64,64,64	0
84	MG	1	3528	1/1	0.68	0.16	94,94,94,94	0
84	MG	AS	3681	1/1	0.68	0.23	82,82,82,82	0
84	MG	AS	3704	1/1	0.69	0.12	75,75,75,75	0
84	MG	1	3787	1/1	0.69	0.13	76,76,76,76	0
84	MG	1	3698	1/1	0.69	0.21	79,79,79,79	0
84	MG	B	1885	1/1	0.69	0.15	100,100,100,100	0
84	MG	AS	3656	1/1	0.69	0.17	70,70,70,70	0
84	MG	AS	3663	1/1	0.69	0.19	103,103,103,103	0
84	MG	1	3732	1/1	0.69	0.28	65,65,65,65	0
84	MG	CM	1838	1/1	0.69	0.20	101,101,101,101	0
84	MG	1	3825	1/1	0.69	0.18	104,104,104,104	0
84	MG	1	3547	1/1	0.69	0.19	72,72,72,72	0
84	MG	CM	1871	1/1	0.69	0.20	76,76,76,76	0
84	MG	1	3482	1/1	0.69	0.13	99,99,99,99	0
84	MG	AS	3625	1/1	0.69	0.09	66,66,66,66	0
84	MG	1	3785	1/1	0.69	0.23	35,35,35,35	0
84	MG	1	3692	1/1	0.70	0.21	56,56,56,56	0
84	MG	AS	3428	1/1	0.70	0.17	71,71,71,71	0
84	MG	1	3856	1/1	0.70	0.24	91,91,91,91	0
84	MG	AS	3633	1/1	0.70	0.27	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3472	1/1	0.70	0.25	64,64,64,64	0
84	MG	AS	3563	1/1	0.70	0.18	75,75,75,75	0
84	MG	1	3606	1/1	0.70	0.30	67,67,67,67	0
84	MG	CM	1850	1/1	0.70	0.16	63,63,63,63	0
84	MG	1	3807	1/1	0.70	0.27	65,65,65,65	0
84	MG	AS	3757	1/1	0.70	0.24	65,65,65,65	0
84	MG	BZ	201	1/1	0.70	0.12	70,70,70,70	0
84	MG	AS	3725	1/1	0.70	0.06	89,89,89,89	0
84	MG	1	3845	1/1	0.71	0.26	60,60,60,60	0
84	MG	1	3546	1/1	0.71	0.15	82,82,82,82	0
84	MG	1	3709	1/1	0.71	0.12	53,53,53,53	0
84	MG	AZ	301	1/1	0.71	0.18	82,82,82,82	0
84	MG	AS	3570	1/1	0.71	0.18	87,87,87,87	0
84	MG	B	1868	1/1	0.71	0.16	64,64,64,64	0
84	MG	1	3748	1/1	0.71	0.22	86,86,86,86	0
84	MG	1	3572	1/1	0.71	0.28	45,45,45,45	0
84	MG	AS	3741	1/1	0.71	0.15	85,85,85,85	0
84	MG	1	3412	1/1	0.71	0.14	66,66,66,66	0
84	MG	1	3722	1/1	0.71	0.13	82,82,82,82	0
84	MG	E	301	1/1	0.71	0.11	54,54,54,54	0
84	MG	AS	3697	1/1	0.71	0.20	65,65,65,65	0
84	MG	CM	1843	1/1	0.71	0.16	80,80,80,80	0
84	MG	1	3506	1/1	0.71	0.13	49,49,49,49	0
84	MG	1	3832	1/1	0.71	0.22	62,62,62,62	0
84	MG	AS	3705	1/1	0.71	0.24	78,78,78,78	0
84	MG	1	3418	1/1	0.71	0.09	64,64,64,64	0
84	MG	AS	3542	1/1	0.71	0.28	61,61,61,61	0
84	MG	AS	3545	1/1	0.71	0.24	84,84,84,84	0
84	MG	AS	3443	1/1	0.71	0.24	62,62,62,62	0
84	MG	AS	3737	1/1	0.72	0.34	107,107,107,107	0
84	MG	1	3461	1/1	0.72	0.26	59,59,59,59	0
84	MG	1	3806	1/1	0.72	0.18	44,44,44,44	0
84	MG	B	1844	1/1	0.72	0.12	45,45,45,45	0
84	MG	AS	3745	1/1	0.72	0.14	104,104,104,104	0
84	MG	Y	202	1/1	0.72	0.17	108,108,108,108	0
84	MG	CM	1805	1/1	0.72	0.33	63,63,63,63	0
84	MG	AS	3552	1/1	0.72	0.22	77,77,77,77	0
84	MG	AS	3667	1/1	0.72	0.07	70,70,70,70	0
84	MG	AS	3516	1/1	0.72	0.12	90,90,90,90	0
84	MG	1	3830	1/1	0.72	0.14	49,49,49,49	0
84	MG	1	3587	1/1	0.72	0.16	96,96,96,96	0
84	MG	1	3661	1/1	0.72	0.15	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	AS	3718	1/1	0.72	0.12	60,60,60,60	0
84	MG	AS	3720	1/1	0.72	0.19	60,60,60,60	0
84	MG	AS	3721	1/1	0.72	0.11	83,83,83,83	0
84	MG	AS	3686	1/1	0.72	0.18	75,75,75,75	0
84	MG	1	3516	1/1	0.72	0.09	86,86,86,86	0
84	MG	1	3745	1/1	0.72	0.24	80,80,80,80	0
84	MG	B	1806	1/1	0.73	0.23	99,99,99,99	0
84	MG	AS	3484	1/1	0.73	0.15	64,64,64,64	0
84	MG	1	3850	1/1	0.73	0.07	57,57,57,57	0
84	MG	1	3693	1/1	0.73	0.16	53,53,53,53	0
84	MG	1	3624	1/1	0.73	0.09	63,63,63,63	0
84	MG	1	3804	1/1	0.73	0.19	85,85,85,85	0
84	MG	AS	3567	1/1	0.73	0.14	82,82,82,82	0
84	MG	a	201	1/1	0.73	0.13	78,78,78,78	0
84	MG	1	3841	1/1	0.73	0.15	71,71,71,71	0
84	MG	CM	1845	1/1	0.73	0.13	57,57,57,57	0
84	MG	AS	3642	1/1	0.73	0.10	62,62,62,62	0
84	MG	AD	201	1/1	0.73	0.26	58,58,58,58	0
84	MG	AX	402	1/1	0.73	0.12	81,81,81,81	0
84	MG	AS	3572	1/1	0.73	0.22	94,94,94,94	0
84	MG	CM	1877	1/1	0.73	0.13	97,97,97,97	0
84	MG	1	3625	1/1	0.73	0.31	86,86,86,86	0
84	MG	B	1872	1/1	0.73	0.21	95,95,95,95	0
84	MG	1	3530	1/1	0.73	0.10	61,61,61,61	0
84	MG	B	1810	1/1	0.74	0.23	78,78,78,78	0
84	MG	AS	3575	1/1	0.74	0.14	38,38,38,38	0
84	MG	CM	1823	1/1	0.74	0.28	44,44,44,44	0
84	MG	AS	3509	1/1	0.74	0.13	62,62,62,62	0
84	MG	B	1815	1/1	0.74	0.10	64,64,64,64	0
84	MG	B	1820	1/1	0.74	0.10	66,66,66,66	0
84	MG	AS	3515	1/1	0.74	0.24	66,66,66,66	0
84	MG	1	3647	1/1	0.74	0.22	49,49,49,49	0
84	MG	1	3534	1/1	0.74	0.28	54,54,54,54	0
84	MG	B	1897	1/1	0.74	0.20	94,94,94,94	0
84	MG	AS	3749	1/1	0.74	0.25	73,73,73,73	0
84	MG	AS	3611	1/1	0.74	0.23	56,56,56,56	0
84	MG	AS	3612	1/1	0.74	0.21	77,77,77,77	0
84	MG	1	3752	1/1	0.74	0.20	77,77,77,77	0
84	MG	1	3571	1/1	0.74	0.08	94,94,94,94	0
84	MG	1	3828	1/1	0.74	0.28	81,81,81,81	0
84	MG	1	3654	1/1	0.75	0.23	102,102,102,102	0
84	MG	B	1892	1/1	0.75	0.23	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CM	1831	1/1	0.75	0.26	58,58,58,58	0
84	MG	1	3558	1/1	0.75	0.13	69,69,69,69	0
84	MG	1	3685	1/1	0.75	0.09	96,96,96,96	0
84	MG	CM	1844	1/1	0.75	0.20	78,78,78,78	0
84	MG	AS	3435	1/1	0.75	0.22	72,72,72,72	0
84	MG	1	3820	1/1	0.75	0.35	88,88,88,88	0
84	MG	AS	3724	1/1	0.75	0.12	87,87,87,87	0
84	MG	1	3538	1/1	0.75	0.18	59,59,59,59	0
84	MG	AS	3662	1/1	0.75	0.18	78,78,78,78	0
84	MG	G	301	1/1	0.75	0.11	68,68,68,68	0
84	MG	AS	3620	1/1	0.75	0.14	62,62,62,62	0
84	MG	1	3768	1/1	0.75	0.10	62,62,62,62	0
84	MG	AS	3631	1/1	0.75	0.23	53,53,53,53	0
84	MG	B	1857	1/1	0.76	0.22	50,50,50,50	0
84	MG	AS	3596	1/1	0.76	0.11	70,70,70,70	0
84	MG	1	3834	1/1	0.76	0.15	90,90,90,90	0
84	MG	AS	3528	1/1	0.76	0.20	83,83,83,83	0
84	MG	1	3427	1/1	0.76	0.18	64,64,64,64	0
84	MG	1	3545	1/1	0.76	0.11	50,50,50,50	0
84	MG	AS	3534	1/1	0.76	0.15	113,113,113,113	0
84	MG	1	3423	1/1	0.76	0.19	103,103,103,103	0
84	MG	1	3674	1/1	0.76	0.17	67,67,67,67	0
84	MG	1	3495	1/1	0.76	0.20	91,91,91,91	0
84	MG	CM	1857	1/1	0.76	0.10	83,83,83,83	0
84	MG	CM	1869	1/1	0.76	0.25	64,64,64,64	0
84	MG	B	1804	1/1	0.76	0.15	77,77,77,77	0
84	MG	AS	3634	1/1	0.76	0.17	58,58,58,58	0
84	MG	AS	3638	1/1	0.76	0.16	76,76,76,76	0
84	MG	B	1899	1/1	0.76	0.12	83,83,83,83	0
84	MG	1	3758	1/1	0.76	0.17	67,67,67,67	0
85	ZN	d	101	1/1	0.76	0.09	314,314,314,314	0
84	MG	AS	3630	1/1	0.77	0.16	74,74,74,74	0
84	MG	1	3575	1/1	0.77	0.13	59,59,59,59	0
84	MG	1	3402	1/1	0.77	0.30	69,69,69,69	0
84	MG	1	3641	1/1	0.77	0.15	71,71,71,71	0
84	MG	AS	3635	1/1	0.77	0.24	76,76,76,76	0
84	MG	1	3582	1/1	0.77	0.16	49,49,49,49	0
84	MG	AS	3573	1/1	0.77	0.18	68,68,68,68	0
84	MG	1	3650	1/1	0.77	0.24	59,59,59,59	0
84	MG	AS	3412	1/1	0.77	0.25	84,84,84,84	0
84	MG	AS	3579	1/1	0.77	0.18	45,45,45,45	0
84	MG	B	1856	1/1	0.77	0.15	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	0	201	1/1	0.77	0.14	87,87,87,87	0
84	MG	AS	3530	1/1	0.77	0.26	68,68,68,68	0
84	MG	AS	3586	1/1	0.77	0.28	61,61,61,61	0
84	MG	AS	3665	1/1	0.77	0.12	75,75,75,75	0
84	MG	1	3700	1/1	0.77	0.23	77,77,77,77	0
84	MG	1	3704	1/1	0.77	0.17	60,60,60,60	0
84	MG	CM	1841	1/1	0.77	0.09	42,42,42,42	0
84	MG	1	3489	1/1	0.77	0.35	67,67,67,67	0
84	MG	AS	3460	1/1	0.77	0.16	48,48,48,48	0
84	MG	1	3803	1/1	0.77	0.10	63,63,63,63	0
84	MG	AS	3682	1/1	0.77	0.24	67,67,67,67	0
84	MG	1	3762	1/1	0.77	0.21	82,82,82,82	0
84	MG	B	1809	1/1	0.77	0.18	71,71,71,71	0
84	MG	AS	3695	1/1	0.77	0.15	67,67,67,67	0
84	MG	AS	3696	1/1	0.77	0.27	78,78,78,78	0
84	MG	AS	3758	1/1	0.77	0.23	77,77,77,77	0
84	MG	AS	3615	1/1	0.77	0.12	102,102,102,102	0
84	MG	1	3683	1/1	0.77	0.19	74,74,74,74	0
84	MG	1	3431	1/1	0.77	0.23	41,41,41,41	0
84	MG	1	3591	1/1	0.77	0.11	45,45,45,45	0
84	MG	AS	3707	1/1	0.77	0.16	42,42,42,42	0
84	MG	1	3703	1/1	0.78	0.17	59,59,59,59	0
84	MG	1	3687	1/1	0.78	0.12	83,83,83,83	0
84	MG	B	1812	1/1	0.78	0.19	52,52,52,52	0
84	MG	AS	3712	1/1	0.78	0.11	94,94,94,94	0
84	MG	1	3568	1/1	0.78	0.26	67,67,67,67	0
84	MG	o	301	1/1	0.78	0.29	67,67,67,67	0
84	MG	1	3463	1/1	0.78	0.26	32,32,32,32	0
84	MG	1	3578	1/1	0.78	0.30	72,72,72,72	0
84	MG	AS	3622	1/1	0.78	0.15	74,74,74,74	0
84	MG	AS	3623	1/1	0.78	0.12	70,70,70,70	0
84	MG	1	3618	1/1	0.78	0.18	63,63,63,63	0
84	MG	B	1835	1/1	0.78	0.14	67,67,67,67	0
84	MG	AS	3535	1/1	0.78	0.39	111,111,111,111	0
84	MG	1	3548	1/1	0.78	0.25	48,48,48,48	0
84	MG	B	1845	1/1	0.78	0.12	89,89,89,89	0
84	MG	AY	401	1/1	0.78	0.19	82,82,82,82	0
84	MG	1	3791	1/1	0.78	0.09	51,51,51,51	0
84	MG	R	201	1/1	0.78	0.28	61,61,61,61	0
84	MG	BB	302	1/1	0.78	0.18	83,83,83,83	0
84	MG	AS	3547	1/1	0.78	0.13	98,98,98,98	0
84	MG	1	3553	1/1	0.78	0.08	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	AS	3645	1/1	0.78	0.24	72,72,72,72	0
84	MG	1	3630	1/1	0.78	0.12	39,39,39,39	0
84	MG	AS	3659	1/1	0.79	0.15	63,63,63,63	0
84	MG	1	3485	1/1	0.79	0.10	69,69,69,69	0
84	MG	AS	3503	1/1	0.79	0.16	83,83,83,83	0
84	MG	1	3478	1/1	0.79	0.18	53,53,53,53	0
84	MG	AS	3666	1/1	0.79	0.13	74,74,74,74	0
84	MG	1	3802	1/1	0.79	0.14	54,54,54,54	0
84	MG	AS	3668	1/1	0.79	0.18	68,68,68,68	0
84	MG	1	3480	1/1	0.79	0.10	57,57,57,57	0
84	MG	1	3670	1/1	0.79	0.20	77,77,77,77	0
84	MG	1	3515	1/1	0.79	0.17	70,70,70,70	0
84	MG	AS	3587	1/1	0.79	0.18	83,83,83,83	0
84	MG	B	1893	1/1	0.79	0.18	87,87,87,87	0
84	MG	1	3573	1/1	0.79	0.14	76,76,76,76	0
84	MG	AS	3519	1/1	0.79	0.16	110,110,110,110	0
84	MG	1	3449	1/1	0.79	0.34	54,54,54,54	0
84	MG	AS	3602	1/1	0.79	0.16	76,76,76,76	0
84	MG	AS	3606	1/1	0.79	0.19	83,83,83,83	0
84	MG	AS	3699	1/1	0.79	0.23	79,79,79,79	0
84	MG	AS	3700	1/1	0.79	0.16	95,95,95,95	0
84	MG	BL	201	1/1	0.79	0.16	66,66,66,66	0
84	MG	AS	3527	1/1	0.79	0.15	77,77,77,77	0
84	MG	1	3610	1/1	0.79	0.14	67,67,67,67	0
84	MG	AS	3613	1/1	0.79	0.23	71,71,71,71	0
84	MG	1	3680	1/1	0.79	0.20	70,70,70,70	0
84	MG	1	3614	1/1	0.79	0.13	83,83,83,83	0
84	MG	1	3493	1/1	0.79	0.23	65,65,65,65	0
84	MG	1	3425	1/1	0.79	0.28	36,36,36,36	0
84	MG	1	3827	1/1	0.79	0.21	50,50,50,50	0
84	MG	1	3579	1/1	0.79	0.24	93,93,93,93	0
84	MG	AS	3406	1/1	0.79	0.12	122,122,122,122	0
84	MG	1	3496	1/1	0.79	0.30	69,69,69,69	0
84	MG	AS	3413	1/1	0.79	0.38	71,71,71,71	0
84	MG	B	1828	1/1	0.79	0.18	70,70,70,70	0
84	MG	1	3583	1/1	0.79	0.10	81,81,81,81	0
84	MG	AS	3556	1/1	0.79	0.10	76,76,76,76	0
84	MG	1	3559	1/1	0.79	0.09	23,23,23,23	0
84	MG	1	3504	1/1	0.79	0.17	65,65,65,65	0
84	MG	1	3789	1/1	0.79	0.09	67,67,67,67	0
84	MG	AS	3446	1/1	0.79	0.13	55,55,55,55	0
84	MG	1	3790	1/1	0.79	0.18	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3694	1/1	0.79	0.14	84,84,84,84	0
84	MG	1	3536	1/1	0.79	0.27	73,73,73,73	0
84	MG	AS	3743	1/1	0.79	0.21	73,73,73,73	0
84	MG	AS	3654	1/1	0.79	0.42	87,87,87,87	0
84	MG	AS	3655	1/1	0.79	0.21	99,99,99,99	0
84	MG	1	3795	1/1	0.79	0.10	68,68,68,68	0
84	MG	AS	3684	1/1	0.80	0.19	63,63,63,63	0
84	MG	AS	3422	1/1	0.80	0.45	36,36,36,36	0
84	MG	v	302	1/1	0.80	0.14	77,77,77,77	0
84	MG	1	3519	1/1	0.80	0.26	80,80,80,80	0
84	MG	AS	3776	1/1	0.80	0.18	88,88,88,88	0
84	MG	1	3414	1/1	0.80	0.29	72,72,72,72	0
84	MG	AS	3788	1/1	0.80	0.12	63,63,63,63	0
84	MG	AS	3616	1/1	0.80	0.22	61,61,61,61	0
84	MG	1	3783	1/1	0.80	0.09	66,66,66,66	0
84	MG	AT	203	1/1	0.80	0.18	70,70,70,70	0
84	MG	AS	3437	1/1	0.80	0.17	68,68,68,68	0
84	MG	AS	3621	1/1	0.80	0.08	61,61,61,61	0
84	MG	AS	3439	1/1	0.80	0.27	67,67,67,67	0
84	MG	B	1860	1/1	0.80	0.18	73,73,73,73	0
84	MG	AS	3555	1/1	0.80	0.10	80,80,80,80	0
84	MG	AS	3444	1/1	0.80	0.18	52,52,52,52	0
84	MG	B	1861	1/1	0.80	0.20	52,52,52,52	0
84	MG	1	3644	1/1	0.80	0.13	62,62,62,62	0
84	MG	AS	3564	1/1	0.80	0.11	60,60,60,60	0
84	MG	1	3542	1/1	0.80	0.26	55,55,55,55	0
84	MG	AS	3475	1/1	0.80	0.10	62,62,62,62	0
84	MG	B	1884	1/1	0.80	0.18	58,58,58,58	0
84	MG	1	3592	1/1	0.80	0.18	73,73,73,73	0
84	MG	AS	3571	1/1	0.80	0.15	84,84,84,84	0
84	MG	1	3514	1/1	0.80	0.22	87,87,87,87	0
84	MG	AS	3498	1/1	0.80	0.21	48,48,48,48	0
84	MG	1	3849	1/1	0.80	0.09	70,70,70,70	0
84	MG	1	3426	1/1	0.80	0.27	51,51,51,51	0
84	MG	1	3725	1/1	0.80	0.17	90,90,90,90	0
84	MG	AS	3731	1/1	0.80	0.22	77,77,77,77	0
84	MG	B	1818	1/1	0.80	0.20	57,57,57,57	0
84	MG	AS	3583	1/1	0.80	0.34	60,60,60,60	0
84	MG	1	3765	1/1	0.80	0.26	98,98,98,98	0
84	MG	1	3497	1/1	0.80	0.33	78,78,78,78	0
84	MG	j	301	1/1	0.80	0.15	65,65,65,65	0
84	MG	B	1829	1/1	0.80	0.15	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CM	1856	1/1	0.80	0.21	88,88,88,88	0
84	MG	1	3769	1/1	0.80	0.12	51,51,51,51	0
84	MG	AS	3748	1/1	0.80	0.15	67,67,67,67	0
84	MG	Y	201	1/1	0.80	0.22	85,85,85,85	0
84	MG	o	303	1/1	0.80	0.28	56,56,56,56	0
84	MG	1	3603	1/1	0.80	0.26	54,54,54,54	0
84	MG	B	1841	1/1	0.80	0.35	73,73,73,73	0
84	MG	u	201	1/1	0.80	0.13	83,83,83,83	0
84	MG	v	301	1/1	0.80	0.14	56,56,56,56	0
84	MG	AT	201	1/1	0.81	0.12	59,59,59,59	0
84	MG	1	3560	1/1	0.81	0.09	66,66,66,66	0
84	MG	B	1895	1/1	0.81	0.16	78,78,78,78	0
84	MG	B	1896	1/1	0.81	0.10	78,78,78,78	0
84	MG	AS	3653	1/1	0.81	0.16	54,54,54,54	0
84	MG	1	3779	1/1	0.81	0.12	60,60,60,60	0
84	MG	1	3637	1/1	0.81	0.21	65,65,65,65	0
84	MG	BB	301	1/1	0.81	0.22	60,60,60,60	0
84	MG	1	3638	1/1	0.81	0.15	89,89,89,89	0
84	MG	AS	3478	1/1	0.81	0.09	74,74,74,74	0
84	MG	1	3639	1/1	0.81	0.11	61,61,61,61	0
84	MG	AS	3609	1/1	0.81	0.20	98,98,98,98	0
84	MG	AS	3610	1/1	0.81	0.14	83,83,83,83	0
84	MG	B	1839	1/1	0.81	0.09	69,69,69,69	0
84	MG	AB	201	1/1	0.81	0.11	55,55,55,55	0
84	MG	AC	101	1/1	0.81	0.08	59,59,59,59	0
84	MG	1	3466	1/1	0.81	0.12	79,79,79,79	0
84	MG	AS	3562	1/1	0.81	0.24	61,61,61,61	0
84	MG	CM	1825	1/1	0.81	0.21	51,51,51,51	0
84	MG	AS	3504	1/1	0.81	0.11	74,74,74,74	0
84	MG	1	3479	1/1	0.81	0.32	49,49,49,49	0
84	MG	1	3809	1/1	0.81	0.11	179,179,179,179	0
84	MG	AS	3683	1/1	0.81	0.19	61,61,61,61	0
84	MG	1	3810	1/1	0.81	0.18	144,144,144,144	0
84	MG	1	3813	1/1	0.81	0.08	69,69,69,69	0
84	MG	1	3749	1/1	0.81	0.16	77,77,77,77	0
84	MG	1	3819	1/1	0.81	0.18	84,84,84,84	0
84	MG	AS	3627	1/1	0.81	0.30	72,72,72,72	0
84	MG	1	3646	1/1	0.81	0.17	86,86,86,86	0
84	MG	B	1814	1/1	0.81	0.27	40,40,40,40	0
84	MG	AS	3632	1/1	0.81	0.12	85,85,85,85	0
84	MG	AS	3523	1/1	0.81	0.13	103,103,103,103	0
84	MG	1	3793	1/1	0.81	0.09	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3770	1/1	0.81	0.08	61,61,61,61	0
84	MG	AS	3526	1/1	0.81	0.16	80,80,80,80	0
84	MG	AS	3434	1/1	0.81	0.31	64,64,64,64	0
84	MG	1	3454	1/1	0.81	0.24	59,59,59,59	0
84	MG	1	3457	1/1	0.81	0.24	43,43,43,43	0
84	MG	1	3796	1/1	0.81	0.10	105,105,105,105	0
84	MG	AS	3784	1/1	0.82	0.07	57,57,57,57	0
84	MG	y	201	1/1	0.82	0.12	63,63,63,63	0
84	MG	1	3510	1/1	0.82	0.18	56,56,56,56	0
84	MG	B	1832	1/1	0.82	0.12	92,92,92,92	0
84	MG	1	3805	1/1	0.82	0.10	84,84,84,84	0
84	MG	AS	3440	1/1	0.82	0.21	42,42,42,42	0
84	MG	AS	3646	1/1	0.82	0.23	74,74,74,74	0
84	MG	AS	3711	1/1	0.82	0.20	78,78,78,78	0
84	MG	1	3771	1/1	0.82	0.16	64,64,64,64	0
84	MG	B	1838	1/1	0.82	0.17	38,38,38,38	0
84	MG	1	3853	1/1	0.82	0.09	106,106,106,106	0
84	MG	AS	3459	1/1	0.82	0.12	66,66,66,66	0
84	MG	1	3555	1/1	0.82	0.25	70,70,70,70	0
84	MG	1	3863	1/1	0.82	0.19	83,83,83,83	0
84	MG	AS	3603	1/1	0.82	0.23	38,38,38,38	0
84	MG	AS	3658	1/1	0.82	0.21	59,59,59,59	0
84	MG	1	3869	1/1	0.82	0.12	95,95,95,95	0
84	MG	CB	202	1/1	0.82	0.14	65,65,65,65	0
84	MG	1	3533	1/1	0.82	0.26	37,37,37,37	0
84	MG	3	201	1/1	0.82	0.22	63,63,63,63	0
84	MG	AS	3551	1/1	0.82	0.10	74,74,74,74	0
84	MG	R	204	1/1	0.82	0.24	55,55,55,55	0
84	MG	CM	1821	1/1	0.82	0.30	77,77,77,77	0
84	MG	AS	3485	1/1	0.82	0.14	91,91,91,91	0
84	MG	1	3597	1/1	0.82	0.21	97,97,97,97	1
84	MG	AS	3670	1/1	0.82	0.13	98,98,98,98	0
84	MG	AS	3740	1/1	0.82	0.10	40,40,40,40	0
84	MG	1	3734	1/1	0.82	0.10	73,73,73,73	0
84	MG	CM	1832	1/1	0.82	0.19	99,99,99,99	0
84	MG	AS	3500	1/1	0.82	0.20	80,80,80,80	0
84	MG	AS	3676	1/1	0.82	0.12	61,61,61,61	0
84	MG	1	3735	1/1	0.82	0.10	87,87,87,87	0
84	MG	AS	3680	1/1	0.82	0.06	108,108,108,108	0
84	MG	1	3499	1/1	0.82	0.36	50,50,50,50	0
84	MG	AS	3408	1/1	0.82	0.09	87,87,87,87	0
84	MG	B	1867	1/1	0.82	0.17	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3580	1/1	0.82	0.27	60,60,60,60	0
84	MG	AS	3685	1/1	0.82	0.24	67,67,67,67	0
84	MG	AS	3420	1/1	0.82	0.15	50,50,50,50	0
84	MG	CM	1868	1/1	0.82	0.25	74,74,74,74	0
84	MG	AS	3691	1/1	0.82	0.10	59,59,59,59	0
84	MG	1	3842	1/1	0.82	0.14	88,88,88,88	0
84	MG	B	1878	1/1	0.82	0.19	102,102,102,102	0
84	MG	1	3753	1/1	0.82	0.42	79,79,79,79	0
84	MG	CM	1879	1/1	0.82	0.15	61,61,61,61	0
84	MG	AS	3431	1/1	0.82	0.14	60,60,60,60	0
84	MG	1	3846	1/1	0.82	0.15	99,99,99,99	0
84	MG	AS	3524	1/1	0.82	0.11	83,83,83,83	0
84	MG	AS	3787	1/1	0.83	0.16	96,96,96,96	0
84	MG	1	3767	1/1	0.83	0.08	58,58,58,58	0
84	MG	B	1858	1/1	0.83	0.13	48,48,48,48	0
84	MG	1	3458	1/1	0.83	0.21	65,65,65,65	0
84	MG	1	3859	1/1	0.83	0.24	59,59,59,59	0
84	MG	AS	3708	1/1	0.83	0.10	71,71,71,71	0
84	MG	1	3860	1/1	0.83	0.12	54,54,54,54	0
84	MG	AS	3423	1/1	0.83	0.20	61,61,61,61	0
84	MG	AX	403	1/1	0.83	0.27	45,45,45,45	0
84	MG	B	1862	1/1	0.83	0.21	76,76,76,76	0
84	MG	1	3701	1/1	0.83	0.06	87,87,87,87	0
84	MG	1	3727	1/1	0.83	0.31	61,61,61,61	0
84	MG	1	3797	1/1	0.83	0.14	48,48,48,48	0
84	MG	1	3651	1/1	0.83	0.26	55,55,55,55	0
84	MG	1	3640	1/1	0.83	0.16	48,48,48,48	0
84	MG	AS	3597	1/1	0.83	0.15	70,70,70,70	0
84	MG	1	3801	1/1	0.83	0.17	55,55,55,55	0
84	MG	AS	3719	1/1	0.83	0.16	95,95,95,95	0
84	MG	AS	3660	1/1	0.83	0.11	95,95,95,95	0
84	MG	k	401	1/1	0.83	0.09	71,71,71,71	0
84	MG	B	1888	1/1	0.83	0.10	59,59,59,59	0
84	MG	B	1826	1/1	0.83	0.11	76,76,76,76	0
84	MG	1	3705	1/1	0.83	0.15	68,68,68,68	0
84	MG	1	3707	1/1	0.83	0.18	44,44,44,44	0
84	MG	AS	3453	1/1	0.83	0.08	54,54,54,54	0
84	MG	AS	3458	1/1	0.83	0.12	83,83,83,83	0
84	MG	1	3782	1/1	0.83	0.12	76,76,76,76	0
84	MG	1	3835	1/1	0.83	0.14	65,65,65,65	0
84	MG	1	3628	1/1	0.83	0.12	99,99,99,99	0
84	MG	AS	3677	1/1	0.83	0.21	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	CM	1834	1/1	0.83	0.22	130,130,130,130	0
84	MG	1	3550	1/1	0.83	0.32	56,56,56,56	0
84	MG	x	201	1/1	0.83	0.17	53,53,53,53	0
84	MG	AS	3746	1/1	0.83	0.24	79,79,79,79	0
84	MG	1	3737	1/1	0.83	0.15	57,57,57,57	0
84	MG	1	3714	1/1	0.83	0.14	77,77,77,77	0
84	MG	1	3598	1/1	0.83	0.25	78,78,78,78	0
84	MG	R	202	1/1	0.83	0.16	61,61,61,61	0
84	MG	AS	3491	1/1	0.83	0.08	39,39,39,39	0
84	MG	AS	3626	1/1	0.83	0.23	52,52,52,52	0
84	MG	AS	3688	1/1	0.83	0.06	120,120,120,120	0
84	MG	CM	1861	1/1	0.83	0.09	92,92,92,92	0
84	MG	1	3669	1/1	0.83	0.19	83,83,83,83	0
84	MG	B	1846	1/1	0.83	0.19	64,64,64,64	0
84	MG	1	3552	1/1	0.83	0.14	64,64,64,64	0
84	MG	CM	1875	1/1	0.83	0.07	57,57,57,57	0
84	MG	CM	1876	1/1	0.83	0.05	76,76,76,76	0
84	MG	B	1855	1/1	0.83	0.14	67,67,67,67	0
84	MG	AS	3508	1/1	0.83	0.15	71,71,71,71	0
84	MG	AS	3698	1/1	0.83	0.13	51,51,51,51	0
84	MG	AS	3780	1/1	0.83	0.07	35,35,35,35	0
84	MG	AS	3403	1/1	0.83	0.08	84,84,84,84	0
84	MG	1	3818	1/1	0.83	0.30	70,70,70,70	0
84	MG	AS	3410	1/1	0.84	0.37	50,50,50,50	0
84	MG	1	3619	1/1	0.84	0.07	5,5,5,5	0
84	MG	B	1811	1/1	0.84	0.17	54,54,54,54	0
84	MG	AS	3417	1/1	0.84	0.21	47,47,47,47	0
84	MG	1	3623	1/1	0.84	0.13	66,66,66,66	0
84	MG	1	3444	1/1	0.84	0.22	50,50,50,50	0
84	MG	B	1854	1/1	0.84	0.18	64,64,64,64	0
84	MG	AS	3581	1/1	0.84	0.17	61,61,61,61	0
84	MG	1	3858	1/1	0.84	0.08	81,81,81,81	0
84	MG	AS	3497	1/1	0.84	0.15	51,51,51,51	0
84	MG	AS	3767	1/1	0.84	0.17	54,54,54,54	0
84	MG	1	3642	1/1	0.84	0.11	51,51,51,51	0
84	MG	1	3517	1/1	0.84	0.10	50,50,50,50	0
84	MG	AS	3778	1/1	0.84	0.14	60,60,60,60	0
84	MG	1	3586	1/1	0.84	0.26	71,71,71,71	0
84	MG	AS	3543	1/1	0.84	0.12	66,66,66,66	0
84	MG	B	1823	1/1	0.84	0.20	60,60,60,60	0
84	MG	AS	3505	1/1	0.84	0.14	90,90,90,90	0
84	MG	1	3865	1/1	0.84	0.16	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	AS	3599	1/1	0.84	0.12	50,50,50,50	0
84	MG	AS	3726	1/1	0.84	0.13	80,80,80,80	0
84	MG	Q	202	1/1	0.84	0.17	57,57,57,57	0
84	MG	1	3839	1/1	0.84	0.32	80,80,80,80	0
84	MG	1	3562	1/1	0.84	0.07	66,66,66,66	0
84	MG	1	3750	1/1	0.84	0.10	91,91,91,91	0
84	MG	AS	3738	1/1	0.84	0.23	43,43,43,43	0
84	MG	AS	3607	1/1	0.84	0.23	56,56,56,56	0
84	MG	AP	203	1/1	0.84	0.15	86,86,86,86	0
84	MG	1	3636	1/1	0.84	0.19	43,43,43,43	0
84	MG	AS	3742	1/1	0.84	0.22	93,93,93,93	0
84	MG	1	3581	1/1	0.84	0.15	70,70,70,70	0
84	MG	1	3434	1/1	0.84	0.45	47,47,47,47	0
84	MG	CW	201	1/1	0.84	0.16	81,81,81,81	0
84	MG	AS	3520	1/1	0.84	0.16	66,66,66,66	0
84	MG	1	3659	1/1	0.84	0.10	69,69,69,69	0
84	MG	o	302	1/1	0.84	0.14	46,46,46,46	0
85	ZN	CB	201	1/1	0.84	0.07	296,296,296,296	0
84	MG	AS	3643	1/1	0.85	0.10	47,47,47,47	0
84	MG	1	3584	1/1	0.85	0.17	81,81,81,81	0
84	MG	AS	3429	1/1	0.85	0.22	83,83,83,83	0
84	MG	AS	3648	1/1	0.85	0.16	55,55,55,55	0
84	MG	1	3617	1/1	0.85	0.20	33,33,33,33	0
84	MG	AS	3553	1/1	0.85	0.11	96,96,96,96	0
84	MG	1	3764	1/1	0.85	0.29	74,74,74,74	0
84	MG	1	3743	1/1	0.85	0.08	81,81,81,81	0
84	MG	1	3511	1/1	0.85	0.26	38,38,38,38	0
84	MG	AS	3754	1/1	0.85	0.10	106,106,106,106	0
84	MG	1	3494	1/1	0.85	0.18	48,48,48,48	0
84	MG	1	3563	1/1	0.85	0.21	129,129,129,129	0
84	MG	CM	1829	1/1	0.85	0.09	52,52,52,52	0
84	MG	1	3673	1/1	0.85	0.29	68,68,68,68	0
84	MG	1	3602	1/1	0.85	0.09	57,57,57,57	0
84	MG	1	3589	1/1	0.85	0.11	75,75,75,75	0
84	MG	1	3864	1/1	0.85	0.08	46,46,46,46	0
84	MG	CM	1836	1/1	0.85	0.14	57,57,57,57	0
84	MG	1	3677	1/1	0.85	0.11	68,68,68,68	0
84	MG	AS	3454	1/1	0.85	0.14	71,71,71,71	0
84	MG	AS	3402	1/1	0.85	0.14	75,75,75,75	0
84	MG	B	1880	1/1	0.85	0.10	88,88,88,88	0
84	MG	1	3648	1/1	0.85	0.09	63,63,63,63	0
84	MG	1	3780	1/1	0.85	0.07	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3671	1/1	0.85	0.11	48,48,48,48	0
84	MG	AS	3577	1/1	0.85	0.11	63,63,63,63	0
84	MG	1	3532	1/1	0.85	0.18	44,44,44,44	0
84	MG	AS	3411	1/1	0.85	0.17	69,69,69,69	0
84	MG	AS	3722	1/1	0.85	0.07	90,90,90,90	0
84	MG	1	3424	1/1	0.85	0.09	74,74,74,74	0
84	MG	AS	3628	1/1	0.85	0.17	67,67,67,67	0
84	MG	AT	202	1/1	0.85	0.06	64,64,64,64	0
84	MG	CM	1873	1/1	0.85	0.14	81,81,81,81	0
84	MG	B	1807	1/1	0.85	0.26	48,48,48,48	0
84	MG	1	3607	1/1	0.85	0.19	72,72,72,72	0
84	MG	1	3523	1/1	0.85	0.14	84,84,84,84	0
84	MG	AS	3734	1/1	0.85	0.15	80,80,80,80	0
84	MG	AS	3421	1/1	0.85	0.25	54,54,54,54	0
84	MG	AS	3496	1/1	0.85	0.20	52,52,52,52	0
84	MG	DA	201	1/1	0.85	0.18	86,86,86,86	0
84	MG	1	3759	1/1	0.85	0.16	74,74,74,74	0
84	MG	AS	3591	1/1	0.85	0.26	68,68,68,68	0
84	MG	1	3594	1/1	0.85	0.07	76,76,76,76	0
84	MG	B	1898	1/1	0.85	0.11	67,67,67,67	0
84	MG	B	1840	1/1	0.86	0.24	47,47,47,47	0
84	MG	BO	201	1/1	0.86	0.10	91,91,91,91	0
84	MG	AS	3693	1/1	0.86	0.18	63,63,63,63	0
84	MG	CA	201	1/1	0.86	0.11	58,58,58,58	0
84	MG	1	3867	1/1	0.86	0.11	48,48,48,48	0
84	MG	1	3833	1/1	0.86	0.13	47,47,47,47	0
84	MG	1	3786	1/1	0.86	0.06	45,45,45,45	0
84	MG	AS	3538	1/1	0.86	0.14	98,98,98,98	0
84	MG	AS	3486	1/1	0.86	0.21	46,46,46,46	0
84	MG	AS	3487	1/1	0.86	0.17	62,62,62,62	0
84	MG	1	3702	1/1	0.86	0.11	76,76,76,76	0
84	MG	AS	3600	1/1	0.86	0.09	76,76,76,76	0
84	MG	3	202	1/1	0.86	0.10	45,45,45,45	0
84	MG	1	3686	1/1	0.86	0.09	103,103,103,103	0
84	MG	AS	3550	1/1	0.86	0.20	71,71,71,71	0
84	MG	1	3838	1/1	0.86	0.10	53,53,53,53	0
84	MG	AS	3657	1/1	0.86	0.15	78,78,78,78	0
84	MG	1	3746	1/1	0.86	0.06	71,71,71,71	0
84	MG	1	3521	1/1	0.86	0.20	57,57,57,57	0
84	MG	AS	3554	1/1	0.86	0.20	85,85,85,85	0
84	MG	CM	1840	1/1	0.86	0.11	60,60,60,60	0
84	MG	1	3410	1/1	0.86	0.21	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3815	1/1	0.86	0.17	44,44,44,44	0
84	MG	1	3420	1/1	0.86	0.15	21,21,21,21	0
84	MG	1	3498	1/1	0.86	0.11	58,58,58,58	0
84	MG	1	3406	1/1	0.86	0.17	46,46,46,46	0
84	MG	AS	3785	1/1	0.86	0.17	59,59,59,59	0
84	MG	1	3544	1/1	0.86	0.12	58,58,58,58	0
84	MG	B	1827	1/1	0.86	0.17	61,61,61,61	0
84	MG	1	3715	1/1	0.86	0.16	47,47,47,47	0
84	MG	AS	3447	1/1	0.86	0.17	55,55,55,55	0
84	MG	CM	1866	1/1	0.86	0.17	83,83,83,83	0
84	MG	AS	3451	1/1	0.86	0.25	72,72,72,72	0
84	MG	1	3798	1/1	0.86	0.06	44,44,44,44	0
84	MG	1	3738	1/1	0.86	0.20	67,67,67,67	0
84	MG	AT	204	1/1	0.86	0.23	54,54,54,54	0
84	MG	1	3755	1/1	0.86	0.10	55,55,55,55	0
84	MG	AS	3521	1/1	0.86	0.17	54,54,54,54	0
84	MG	1	3509	1/1	0.86	0.07	11,11,11,11	0
84	MG	1	3601	1/1	0.86	0.18	57,57,57,57	0
84	MG	AS	3462	1/1	0.86	0.14	60,60,60,60	0
84	MG	AS	3469	1/1	0.86	0.12	42,42,42,42	0
84	MG	1	3684	1/1	0.86	0.11	86,86,86,86	0
84	MG	AS	3474	1/1	0.86	0.10	72,72,72,72	0
84	MG	1	3500	1/1	0.86	0.44	58,58,58,58	0
85	ZN	AH	201	1/1	0.86	0.08	232,232,232,232	0
84	MG	BK	201	1/1	0.86	0.11	73,73,73,73	0
84	MG	AS	3477	1/1	0.86	0.09	50,50,50,50	0
84	MG	AS	3652	1/1	0.87	0.21	105,105,105,105	0
84	MG	AS	3608	1/1	0.87	0.25	46,46,46,46	0
84	MG	AS	3753	1/1	0.87	0.30	74,74,74,74	0
84	MG	CM	1802	1/1	0.87	0.22	53,53,53,53	0
84	MG	AS	3701	1/1	0.87	0.20	75,75,75,75	0
84	MG	CM	1807	1/1	0.87	0.12	72,72,72,72	0
84	MG	1	3814	1/1	0.87	0.26	56,56,56,56	0
84	MG	1	3667	1/1	0.87	0.15	37,37,37,37	0
84	MG	1	3816	1/1	0.87	0.26	59,59,59,59	0
84	MG	AS	3466	1/1	0.87	0.07	44,44,44,44	0
84	MG	1	3455	1/1	0.87	0.20	45,45,45,45	0
84	MG	1	3760	1/1	0.87	0.13	83,83,83,83	0
84	MG	1	3781	1/1	0.87	0.16	54,54,54,54	0
84	MG	1	3682	1/1	0.87	0.19	44,44,44,44	0
84	MG	k	402	1/1	0.87	0.27	98,98,98,98	0
84	MG	AS	3775	1/1	0.87	0.08	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3440	1/1	0.87	0.13	67,67,67,67	0
84	MG	1	3712	1/1	0.87	0.12	50,50,50,50	0
84	MG	1	3403	1/1	0.87	0.27	56,56,56,56	0
84	MG	1	3699	1/1	0.87	0.14	44,44,44,44	0
84	MG	1	3468	1/1	0.87	0.14	40,40,40,40	0
84	MG	1	3718	1/1	0.87	0.12	42,42,42,42	0
84	MG	AS	3786	1/1	0.87	0.09	70,70,70,70	0
84	MG	1	3629	1/1	0.87	0.12	49,49,49,49	0
84	MG	AS	3436	1/1	0.87	0.20	65,65,65,65	0
84	MG	B	1822	1/1	0.87	0.16	105,105,105,105	0
84	MG	1	3459	1/1	0.87	0.21	43,43,43,43	0
84	MG	1	3862	1/1	0.87	0.23	77,77,77,77	0
84	MG	AS	3679	1/1	0.87	0.15	61,61,61,61	0
84	MG	CM	1862	1/1	0.87	0.07	66,66,66,66	0
84	MG	AS	3540	1/1	0.87	0.17	108,108,108,108	0
84	MG	AS	3441	1/1	0.87	0.18	39,39,39,39	0
84	MG	AS	3502	1/1	0.87	0.15	74,74,74,74	0
84	MG	AS	3636	1/1	0.87	0.13	60,60,60,60	0
84	MG	1	3792	1/1	0.87	0.11	150,150,150,150	0
84	MG	CM	1874	1/1	0.87	0.10	68,68,68,68	0
84	MG	AS	3640	1/1	0.87	0.11	76,76,76,76	0
84	MG	0	202	1/1	0.87	0.20	54,54,54,54	0
84	MG	B	1870	1/1	0.87	0.12	63,63,63,63	0
84	MG	AS	3690	1/1	0.87	0.07	46,46,46,46	0
84	MG	AS	3507	1/1	0.87	0.14	80,80,80,80	0
84	MG	1	3539	1/1	0.87	0.15	53,53,53,53	0
84	MG	AB	202	1/1	0.87	0.11	70,70,70,70	0
84	MG	AS	3694	1/1	0.87	0.18	45,45,45,45	0
84	MG	B	1879	1/1	0.87	0.16	58,58,58,58	0
84	MG	1	3541	1/1	0.87	0.13	26,26,26,26	0
84	MG	AS	3514	1/1	0.87	0.23	53,53,53,53	0
84	MG	1	3836	1/1	0.87	0.24	77,77,77,77	0
85	ZN	DS	201	1/1	0.87	0.06	353,353,353,353	0
84	MG	AS	3558	1/1	0.88	0.11	58,58,58,58	0
84	MG	AS	3629	1/1	0.88	0.27	43,43,43,43	0
84	MG	1	3524	1/1	0.88	0.14	93,93,93,93	0
84	MG	1	3526	1/1	0.88	0.09	103,103,103,103	0
84	MG	B	1869	1/1	0.88	0.12	65,65,65,65	0
84	MG	1	3695	1/1	0.88	0.10	44,44,44,44	0
84	MG	1	3728	1/1	0.88	0.13	59,59,59,59	0
84	MG	1	3649	1/1	0.88	0.07	85,85,85,85	0
84	MG	AU	203	1/1	0.88	0.08	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CM	1842	1/1	0.88	0.16	67,67,67,67	0
84	MG	AS	3747	1/1	0.88	0.17	47,47,47,47	0
84	MG	AS	3506	1/1	0.88	0.11	74,74,74,74	0
84	MG	AS	3637	1/1	0.88	0.10	46,46,46,46	0
84	MG	1	3518	1/1	0.88	0.20	69,69,69,69	0
84	MG	1	3474	1/1	0.88	0.10	58,58,58,58	0
84	MG	CM	1848	1/1	0.88	0.11	104,104,104,104	0
84	MG	B	1882	1/1	0.88	0.21	76,76,76,76	0
84	MG	CM	1853	1/1	0.88	0.13	80,80,80,80	0
84	MG	B	1883	1/1	0.88	0.08	47,47,47,47	0
84	MG	1	3432	1/1	0.88	0.20	78,78,78,78	0
84	MG	1	3716	1/1	0.88	0.14	46,46,46,46	0
84	MG	1	3604	1/1	0.88	0.07	49,49,49,49	0
84	MG	AS	3647	1/1	0.88	0.28	54,54,54,54	0
84	MG	AS	3544	1/1	0.88	0.28	52,52,52,52	0
84	MG	B	1830	1/1	0.88	0.08	79,79,79,79	0
84	MG	B	1889	1/1	0.88	0.11	44,44,44,44	0
84	MG	AS	3766	1/1	0.88	0.17	63,63,63,63	0
84	MG	AS	3548	1/1	0.88	0.12	91,91,91,91	0
84	MG	AS	3768	1/1	0.88	0.10	62,62,62,62	0
84	MG	AS	3619	1/1	0.88	0.12	60,60,60,60	0
84	MG	CM	1801	1/1	0.88	0.23	41,41,41,41	0
84	MG	B	1891	1/1	0.88	0.14	86,86,86,86	0
84	MG	1	3829	1/1	0.88	0.11	42,42,42,42	0
84	MG	AS	3409	1/1	0.88	0.17	86,86,86,86	0
84	MG	1	3447	1/1	0.88	0.07	81,81,81,81	0
84	MG	AS	3624	1/1	0.88	0.10	85,85,85,85	0
84	MG	DH	201	1/1	0.88	0.08	53,53,53,53	0
84	MG	1	3632	1/1	0.88	0.11	51,51,51,51	0
84	MG	CM	1824	1/1	0.88	0.19	62,62,62,62	0
84	MG	1	3635	1/1	0.88	0.23	45,45,45,45	0
84	MG	6	201	1/1	0.88	0.17	53,53,53,53	0
84	MG	CM	1828	1/1	0.88	0.16	69,69,69,69	0
84	MG	AS	3546	1/1	0.89	0.16	38,38,38,38	0
84	MG	1	3435	1/1	0.89	0.13	44,44,44,44	0
84	MG	AS	3450	1/1	0.89	0.18	47,47,47,47	0
84	MG	AS	3733	1/1	0.89	0.13	102,102,102,102	0
84	MG	B	1843	1/1	0.89	0.13	75,75,75,75	0
84	MG	AS	3407	1/1	0.89	0.09	83,83,83,83	0
84	MG	1	3868	1/1	0.89	0.34	70,70,70,70	0
84	MG	AS	3456	1/1	0.89	0.11	31,31,31,31	0
84	MG	1	3439	1/1	0.89	0.19	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	B	1817	1/1	0.89	0.25	56,56,56,56	0
84	MG	B	1847	1/1	0.89	0.14	60,60,60,60	0
84	MG	1	3633	1/1	0.89	0.24	27,27,27,27	0
84	MG	AU	205	1/1	0.89	0.10	54,54,54,54	0
84	MG	B	1819	1/1	0.89	0.12	50,50,50,50	0
84	MG	1	3588	1/1	0.89	0.12	71,71,71,71	0
83	3K5	1	3401	57/57	0.89	0.19	72,107,146,164	0
84	MG	AS	3473	1/1	0.89	0.21	60,60,60,60	0
84	MG	CM	1849	1/1	0.89	0.14	67,67,67,67	0
84	MG	B	1894	1/1	0.89	0.07	98,98,98,98	0
84	MG	1	3569	1/1	0.89	0.14	54,54,54,54	0
84	MG	3	207	1/1	0.89	0.12	48,48,48,48	0
84	MG	4	201	1/1	0.89	0.07	43,43,43,43	0
84	MG	1	3855	1/1	0.89	0.09	43,43,43,43	0
84	MG	AJ	101	1/1	0.89	0.22	100,100,100,100	0
84	MG	1	3766	1/1	0.89	0.13	47,47,47,47	0
84	MG	CM	1867	1/1	0.89	0.17	60,60,60,60	0
84	MG	AS	3432	1/1	0.89	0.21	92,92,92,92	0
84	MG	B	1863	1/1	0.89	0.17	53,53,53,53	0
84	MG	AS	3533	1/1	0.89	0.14	64,64,64,64	0
84	MG	1	3484	1/1	0.89	0.08	27,27,27,27	0
84	MG	m	301	1/1	0.89	0.14	61,61,61,61	0
84	MG	1	3527	1/1	0.89	0.14	75,75,75,75	0
84	MG	AS	3537	1/1	0.89	0.19	72,72,72,72	0
84	MG	CL	302	1/1	0.89	0.14	88,88,88,88	0
84	MG	1	3658	1/1	0.89	0.12	62,62,62,62	0
84	MG	B	1871	1/1	0.89	0.09	40,40,40,40	0
84	MG	1	3706	1/1	0.89	0.10	60,60,60,60	0
84	MG	B	1877	1/1	0.89	0.14	47,47,47,47	0
84	MG	CM	1809	1/1	0.89	0.19	60,60,60,60	0
84	MG	AS	3771	1/1	0.89	0.33	69,69,69,69	0
84	MG	1	3471	1/1	0.89	0.09	40,40,40,40	0
84	MG	DK	202	1/1	0.89	0.11	51,51,51,51	0
84	MG	AS	3590	1/1	0.89	0.07	58,58,58,58	0
85	ZN	AP	201	1/1	0.89	0.06	294,294,294,294	0
84	MG	1	3529	1/1	0.89	0.27	57,57,57,57	0
85	ZN	h	201	1/1	0.89	0.09	285,285,285,285	0
84	MG	1	3487	1/1	0.89	0.14	43,43,43,43	0
85	ZN	CJ	201	1/1	0.89	0.06	300,300,300,300	0
84	MG	AS	3595	1/1	0.89	0.12	72,72,72,72	0
84	MG	1	3848	1/1	0.90	0.08	69,69,69,69	0
84	MG	1	3554	1/1	0.90	0.04	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3537	1/1	0.90	0.16	27,27,27,27	0
84	MG	B	1813	1/1	0.90	0.15	74,74,74,74	0
84	MG	AS	3557	1/1	0.90	0.08	60,60,60,60	0
84	MG	AS	3669	1/1	0.90	0.12	71,71,71,71	0
84	MG	AS	3488	1/1	0.90	0.26	32,32,32,32	0
84	MG	1	3557	1/1	0.90	0.09	70,70,70,70	0
84	MG	AS	3445	1/1	0.90	0.13	75,75,75,75	0
84	MG	1	3643	1/1	0.90	0.25	51,51,51,51	0
84	MG	1	3713	1/1	0.90	0.10	62,62,62,62	0
84	MG	AS	3565	1/1	0.90	0.23	68,68,68,68	0
84	MG	AS	3605	1/1	0.90	0.16	91,91,91,91	0
84	MG	B	1842	1/1	0.90	0.15	67,67,67,67	0
84	MG	AS	3760	1/1	0.90	0.14	67,67,67,67	0
84	MG	AS	3763	1/1	0.90	0.19	65,65,65,65	0
83	3K5	AS	3401	57/57	0.90	0.15	82,121,151,184	0
84	MG	1	3453	1/1	0.90	0.26	67,67,67,67	0
84	MG	CM	1865	1/1	0.90	0.06	119,119,119,119	0
84	MG	AS	3419	1/1	0.90	0.18	82,82,82,82	0
84	MG	B	1875	1/1	0.90	0.07	48,48,48,48	0
84	MG	1	3462	1/1	0.90	0.15	49,49,49,49	0
84	MG	k	403	1/1	0.90	0.09	58,58,58,58	0
84	MG	CM	1870	1/1	0.90	0.17	94,94,94,94	0
84	MG	AS	3574	1/1	0.90	0.10	87,87,87,87	0
84	MG	1	3549	1/1	0.90	0.18	66,66,66,66	0
84	MG	CM	1803	1/1	0.90	0.06	192,192,192,192	0
84	MG	AS	3727	1/1	0.90	0.06	50,50,50,50	0
84	MG	AS	3689	1/1	0.90	0.05	59,59,59,59	0
84	MG	CM	1808	1/1	0.90	0.06	61,61,61,61	0
84	MG	AS	3779	1/1	0.90	0.07	66,66,66,66	0
84	MG	CM	1810	1/1	0.90	0.27	52,52,52,52	0
84	MG	K	301	1/1	0.90	0.07	63,63,63,63	0
84	MG	Q	201	1/1	0.90	0.20	110,110,110,110	0
84	MG	AS	3617	1/1	0.90	0.18	62,62,62,62	0
84	MG	1	3404	1/1	0.90	0.13	22,22,22,22	0
84	MG	1	3577	1/1	0.90	0.08	48,48,48,48	0
84	MG	1	3472	1/1	0.90	0.11	60,60,60,60	0
84	MG	CM	1827	1/1	0.90	0.10	35,35,35,35	0
84	MG	1	3522	1/1	0.90	0.07	38,38,38,38	0
84	MG	r	301	1/1	0.90	0.10	48,48,48,48	0
84	MG	1	3775	1/1	0.90	0.09	55,55,55,55	0
84	MG	B	1887	1/1	0.90	0.09	81,81,81,81	0
84	MG	AS	3480	1/1	0.90	0.13	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3676	1/1	0.90	0.16	65,65,65,65	0
86	GET	B	1851	34/34	0.90	0.09	105,127,149,167	0
84	MG	B	1873	1/1	0.91	0.21	61,61,61,61	0
84	MG	CM	1837	1/1	0.91	0.16	62,62,62,62	0
84	MG	B	1874	1/1	0.91	0.12	44,44,44,44	0
84	MG	D	301	1/1	0.91	0.12	24,24,24,24	0
84	MG	AS	3582	1/1	0.91	0.07	44,44,44,44	0
84	MG	1	3452	1/1	0.91	0.15	63,63,63,63	0
84	MG	AS	3461	1/1	0.91	0.18	74,74,74,74	0
84	MG	AS	3425	1/1	0.91	0.09	68,68,68,68	0
84	MG	AS	3465	1/1	0.91	0.12	52,52,52,52	0
84	MG	AS	3510	1/1	0.91	0.13	70,70,70,70	0
84	MG	1	3520	1/1	0.91	0.14	95,95,95,95	0
84	MG	AS	3467	1/1	0.91	0.14	79,79,79,79	0
84	MG	AS	3513	1/1	0.91	0.09	47,47,47,47	0
84	MG	1	3627	1/1	0.91	0.35	46,46,46,46	0
84	MG	AS	3675	1/1	0.91	0.15	60,60,60,60	0
84	MG	AS	3594	1/1	0.91	0.11	104,104,104,104	0
84	MG	AS	3471	1/1	0.91	0.21	41,41,41,41	0
84	MG	CM	1858	1/1	0.91	0.09	111,111,111,111	0
84	MG	CM	1860	1/1	0.91	0.18	69,69,69,69	0
84	MG	1	3491	1/1	0.91	0.29	52,52,52,52	0
84	MG	1	3724	1/1	0.91	0.07	74,74,74,74	0
84	MG	B	1852	1/1	0.91	0.16	57,57,57,57	0
84	MG	1	3421	1/1	0.91	0.14	48,48,48,48	0
84	MG	1	3668	1/1	0.91	0.07	23,23,23,23	0
84	MG	1	3428	1/1	0.91	0.28	43,43,43,43	0
84	MG	AS	3772	1/1	0.91	0.08	59,59,59,59	0
84	MG	1	3502	1/1	0.91	0.20	53,53,53,53	0
84	MG	1	3729	1/1	0.91	0.05	56,56,56,56	0
84	MG	CM	1872	1/1	0.91	0.07	85,85,85,85	0
84	MG	AS	3482	1/1	0.91	0.09	69,69,69,69	0
84	MG	1	3671	1/1	0.91	0.12	75,75,75,75	0
84	MG	AS	3732	1/1	0.91	0.11	85,85,85,85	0
84	MG	AS	3782	1/1	0.91	0.17	72,72,72,72	0
84	MG	CM	1815	1/1	0.91	0.18	43,43,43,43	0
84	MG	1	3612	1/1	0.91	0.12	74,74,74,74	0
84	MG	CM	1817	1/1	0.91	0.07	190,190,190,190	0
84	MG	CM	1818	1/1	0.91	0.22	46,46,46,46	0
84	MG	CM	1820	1/1	0.91	0.15	68,68,68,68	0
84	MG	B	1890	1/1	0.91	0.12	54,54,54,54	0
84	MG	B	1833	1/1	0.91	0.09	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3503	1/1	0.91	0.16	70,70,70,70	0
84	MG	1	3773	1/1	0.91	0.12	62,62,62,62	0
84	MG	1	3433	1/1	0.91	0.18	34,34,34,34	0
84	MG	1	3488	1/1	0.91	0.09	51,51,51,51	0
84	MG	1	3844	1/1	0.91	0.19	74,74,74,74	0
84	MG	1	3475	1/1	0.91	0.21	16,16,16,16	0
84	MG	1	3656	1/1	0.91	0.18	52,52,52,52	0
84	MG	1	3566	1/1	0.91	0.08	32,32,32,32	0
84	MG	AS	3578	1/1	0.91	0.14	52,52,52,52	0
84	MG	AT	205	1/1	0.91	0.16	75,75,75,75	0
84	MG	1	3551	1/1	0.92	0.12	52,52,52,52	0
84	MG	1	3450	1/1	0.92	0.20	54,54,54,54	0
84	MG	1	3507	1/1	0.92	0.10	50,50,50,50	0
84	MG	1	3442	1/1	0.92	0.15	45,45,45,45	0
84	MG	1	3590	1/1	0.92	0.24	57,57,57,57	0
84	MG	CM	1835	1/1	0.92	0.09	68,68,68,68	0
84	MG	1	3611	1/1	0.92	0.15	81,81,81,81	0
84	MG	1	3443	1/1	0.92	0.20	35,35,35,35	0
84	MG	1	3486	1/1	0.92	0.19	62,62,62,62	0
84	MG	1	3615	1/1	0.92	0.13	40,40,40,40	0
84	MG	1	3422	1/1	0.92	0.15	45,45,45,45	0
84	MG	AU	201	1/1	0.92	0.07	64,64,64,64	0
84	MG	AS	3490	1/1	0.92	0.05	62,62,62,62	0
84	MG	AS	3639	1/1	0.92	0.05	60,60,60,60	0
84	MG	AW	301	1/1	0.92	0.10	82,82,82,82	0
84	MG	1	3512	1/1	0.92	0.16	53,53,53,53	0
84	MG	AS	3492	1/1	0.92	0.16	97,97,97,97	0
84	MG	1	3513	1/1	0.92	0.23	64,64,64,64	0
84	MG	B	1816	1/1	0.92	0.07	34,34,34,34	0
84	MG	AS	3644	1/1	0.92	0.18	86,86,86,86	0
84	MG	CM	1852	1/1	0.92	0.15	37,37,37,37	0
84	MG	1	3620	1/1	0.92	0.10	49,49,49,49	0
84	MG	1	3708	1/1	0.92	0.12	103,103,103,103	0
84	MG	AS	3442	1/1	0.92	0.23	22,22,22,22	0
84	MG	1	3596	1/1	0.92	0.05	51,51,51,51	0
84	MG	BI	301	1/1	0.92	0.05	48,48,48,48	0
84	MG	B	1864	1/1	0.92	0.18	67,67,67,67	0
84	MG	B	1866	1/1	0.92	0.11	47,47,47,47	0
84	MG	CM	1863	1/1	0.92	0.14	70,70,70,70	0
84	MG	1	3561	1/1	0.92	0.11	63,63,63,63	0
84	MG	1	3407	1/1	0.92	0.12	50,50,50,50	0
84	MG	1	3626	1/1	0.92	0.12	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3811	1/1	0.92	0.07	90,90,90,90	0
84	MG	B	1824	1/1	0.92	0.14	49,49,49,49	0
84	MG	1	3812	1/1	0.92	0.16	45,45,45,45	0
84	MG	AS	3761	1/1	0.92	0.14	89,89,89,89	0
84	MG	AS	3455	1/1	0.92	0.11	64,64,64,64	0
84	MG	1	3655	1/1	0.92	0.07	58,58,58,58	0
84	MG	w	301	1/1	0.92	0.11	49,49,49,49	0
84	MG	1	3477	1/1	0.92	0.17	41,41,41,41	0
84	MG	1	3600	1/1	0.92	0.19	55,55,55,55	0
84	MG	y	202	1/1	0.92	0.09	54,54,54,54	0
84	MG	y	203	1/1	0.92	0.19	82,82,82,82	0
84	MG	1	3688	1/1	0.92	0.09	106,106,106,106	0
84	MG	1	3448	1/1	0.92	0.15	54,54,54,54	0
84	MG	CM	1812	1/1	0.92	0.08	152,152,152,152	0
84	MG	AS	3773	1/1	0.92	0.13	96,96,96,96	0
84	MG	AS	3774	1/1	0.92	0.11	37,37,37,37	0
84	MG	1	3719	1/1	0.92	0.10	74,74,74,74	0
84	MG	1	3721	1/1	0.92	0.09	86,86,86,86	0
84	MG	AS	3777	1/1	0.92	0.15	98,98,98,98	0
84	MG	AS	3416	1/1	0.92	0.15	41,41,41,41	0
84	MG	1	3690	1/1	0.92	0.11	61,61,61,61	0
84	MG	AS	3672	1/1	0.92	0.11	63,63,63,63	0
84	MG	1	3467	1/1	0.92	0.06	36,36,36,36	0
84	MG	1	3456	1/1	0.92	0.19	47,47,47,47	0
84	MG	1	3416	1/1	0.92	0.15	89,89,89,89	0
84	MG	1	3757	1/1	0.92	0.07	44,44,44,44	0
84	MG	1	3540	1/1	0.93	0.11	72,72,72,72	0
84	MG	1	3663	1/1	0.93	0.07	69,69,69,69	0
84	MG	1	3679	1/1	0.93	0.15	56,56,56,56	0
84	MG	AS	3664	1/1	0.93	0.13	61,61,61,61	0
84	MG	AS	3781	1/1	0.93	0.03	58,58,58,58	0
84	MG	AS	3522	1/1	0.93	0.09	82,82,82,82	0
84	MG	1	3822	1/1	0.93	0.09	51,51,51,51	0
84	MG	1	3664	1/1	0.93	0.25	40,40,40,40	0
84	MG	AS	3559	1/1	0.93	0.19	71,71,71,71	0
84	MG	1	3556	1/1	0.93	0.17	43,43,43,43	0
84	MG	AS	3561	1/1	0.93	0.07	78,78,78,78	0
84	MG	1	3666	1/1	0.93	0.11	50,50,50,50	0
84	MG	CM	1811	1/1	0.93	0.09	59,59,59,59	0
84	MG	2	201	1/1	0.93	0.12	44,44,44,44	0
84	MG	AS	3750	1/1	0.93	0.20	62,62,62,62	0
84	MG	1	3460	1/1	0.93	0.16	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	B	1848	1/1	0.93	0.10	46,46,46,46	0
84	MG	1	3564	1/1	0.93	0.15	46,46,46,46	0
84	MG	CM	1819	1/1	0.93	0.09	54,54,54,54	0
84	MG	L	201	1/1	0.93	0.26	55,55,55,55	0
84	MG	AS	3501	1/1	0.93	0.07	52,52,52,52	0
84	MG	1	3851	1/1	0.93	0.21	76,76,76,76	0
84	MG	1	3445	1/1	0.93	0.11	32,32,32,32	0
84	MG	AU	204	1/1	0.93	0.11	82,82,82,82	0
84	MG	1	3854	1/1	0.93	0.07	81,81,81,81	0
84	MG	AS	3430	1/1	0.93	0.17	51,51,51,51	0
84	MG	1	3446	1/1	0.93	0.12	77,77,77,77	0
84	MG	AP	202	1/1	0.93	0.16	49,49,49,49	0
84	MG	T	201	1/1	0.93	0.12	121,121,121,121	0
84	MG	AS	3723	1/1	0.93	0.10	60,60,60,60	0
84	MG	AS	3541	1/1	0.93	0.10	55,55,55,55	0
84	MG	CM	1833	1/1	0.93	0.10	40,40,40,40	0
84	MG	1	3772	1/1	0.93	0.09	61,61,61,61	0
84	MG	1	3616	1/1	0.93	0.09	65,65,65,65	0
84	MG	1	3774	1/1	0.93	0.09	43,43,43,43	0
84	MG	P0	401	1/1	0.93	0.08	200,200,200,200	0
84	MG	AS	3769	1/1	0.93	0.07	61,61,61,61	0
84	MG	1	3574	1/1	0.93	0.05	41,41,41,41	0
84	MG	1	3436	1/1	0.93	0.15	54,54,54,54	0
84	MG	AS	3405	1/1	0.93	0.22	57,57,57,57	0
84	MG	1	3631	1/1	0.93	0.08	48,48,48,48	0
84	MG	1	3608	1/1	0.93	0.11	53,53,53,53	0
84	MG	1	3645	1/1	0.93	0.17	68,68,68,68	0
84	MG	1	3866	1/1	0.93	0.15	86,86,86,86	0
84	MG	0	204	1/1	0.94	0.10	77,77,77,77	0
84	MG	1	3710	1/1	0.94	0.13	42,42,42,42	1
84	MG	1	3857	1/1	0.94	0.13	92,92,92,92	0
84	MG	AS	3702	1/1	0.94	0.08	66,66,66,66	0
84	MG	CM	1855	1/1	0.94	0.07	45,45,45,45	0
84	MG	AS	3483	1/1	0.94	0.08	103,103,103,103	0
84	MG	AS	3589	1/1	0.94	0.19	65,65,65,65	0
84	MG	1	3469	1/1	0.94	0.09	31,31,31,31	0
84	MG	1	3657	1/1	0.94	0.09	69,69,69,69	0
84	MG	1	3840	1/1	0.94	0.09	67,67,67,67	0
84	MG	AS	3593	1/1	0.94	0.11	68,68,68,68	0
84	MG	1	3464	1/1	0.94	0.10	8,8,8,8	0
84	MG	CM	1864	1/1	0.94	0.06	34,34,34,34	0
84	MG	1	3429	1/1	0.94	0.14	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3843	1/1	0.94	0.12	71,71,71,71	0
84	MG	B	1876	1/1	0.94	0.12	56,56,56,56	0
84	MG	B	1849	1/1	0.94	0.08	91,91,91,91	0
84	MG	AU	202	1/1	0.94	0.05	60,60,60,60	0
84	MG	1	3622	1/1	0.94	0.05	72,72,72,72	0
84	MG	AS	3495	1/1	0.94	0.25	41,41,41,41	0
84	MG	B	1825	1/1	0.94	0.08	68,68,68,68	0
84	MG	AS	3457	1/1	0.94	0.17	44,44,44,44	0
84	MG	AS	3604	1/1	0.94	0.13	62,62,62,62	0
84	MG	B	1801	1/1	0.94	0.26	46,46,46,46	0
84	MG	AS	3499	1/1	0.94	0.04	70,70,70,70	0
84	MG	1	3826	1/1	0.94	0.07	38,38,38,38	0
84	MG	1	3634	1/1	0.94	0.22	41,41,41,41	0
84	MG	1	3501	1/1	0.94	0.14	64,64,64,64	0
84	MG	R	203	1/1	0.94	0.14	59,59,59,59	0
84	MG	1	3531	1/1	0.94	0.12	84,84,84,84	0
84	MG	1	3613	1/1	0.94	0.13	51,51,51,51	0
84	MG	AS	3728	1/1	0.94	0.06	55,55,55,55	0
84	MG	1	3720	1/1	0.94	0.16	58,58,58,58	0
84	MG	1	3483	1/1	0.94	0.08	112,112,112,112	0
84	MG	3	205	1/1	0.94	0.18	32,32,32,32	0
84	MG	1	3430	1/1	0.94	0.13	43,43,43,43	0
84	MG	1	3525	1/1	0.94	0.14	75,75,75,75	0
84	MG	AS	3404	1/1	0.94	0.04	41,41,41,41	0
84	MG	AS	3736	1/1	0.94	0.21	47,47,47,47	0
84	MG	AS	3438	1/1	0.94	0.08	46,46,46,46	0
84	MG	B	1865	1/1	0.94	0.20	65,65,65,65	0
84	MG	1	3409	1/1	0.94	0.06	52,52,52,52	0
84	MG	AS	3549	1/1	0.94	0.09	60,60,60,60	0
86	GET	CM	1822	34/34	0.94	0.12	107,119,148,157	0
84	MG	1	3473	1/1	0.95	0.10	59,59,59,59	0
84	MG	AS	3463	1/1	0.95	0.08	41,41,41,41	0
84	MG	B	1881	1/1	0.95	0.08	52,52,52,52	0
84	MG	AS	3449	1/1	0.95	0.05	39,39,39,39	0
84	MG	1	3808	1/1	0.95	0.09	144,144,144,144	0
84	MG	AS	3566	1/1	0.95	0.05	55,55,55,55	0
84	MG	B	1836	1/1	0.95	0.12	51,51,51,51	0
84	MG	AS	3452	1/1	0.95	0.07	24,24,24,24	0
84	MG	B	1837	1/1	0.95	0.08	57,57,57,57	0
84	MG	1	3438	1/1	0.95	0.14	75,75,75,75	0
84	MG	0	203	1/1	0.95	0.04	33,33,33,33	0
84	MG	AS	3494	1/1	0.95	0.07	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3652	1/1	0.95	0.09	44,44,44,44	0
84	MG	AS	3476	1/1	0.95	0.16	49,49,49,49	0
84	MG	1	3465	1/1	0.95	0.13	44,44,44,44	0
84	MG	CM	1814	1/1	0.95	0.08	127,127,127,127	0
84	MG	1	3413	1/1	0.95	0.15	44,44,44,44	0
84	MG	AS	3479	1/1	0.95	0.17	42,42,42,42	0
84	MG	AS	3598	1/1	0.95	0.11	42,42,42,42	0
84	MG	1	3831	1/1	0.95	0.10	51,51,51,51	0
84	MG	1	3861	1/1	0.95	0.08	54,54,54,54	0
84	MG	BQ	201	1/1	0.95	0.19	54,54,54,54	0
84	MG	F	301	1/1	0.95	0.13	77,77,77,77	0
84	MG	1	3777	1/1	0.96	0.18	29,29,29,29	0
84	MG	AS	3661	1/1	0.96	0.10	66,66,66,66	0
84	MG	AS	3424	1/1	0.96	0.10	57,57,57,57	0
84	MG	B	1805	1/1	0.96	0.11	38,38,38,38	0
84	MG	AS	3468	1/1	0.96	0.14	42,42,42,42	0
84	MG	AS	3414	1/1	0.96	0.14	54,54,54,54	0
84	MG	AS	3427	1/1	0.96	0.11	39,39,39,39	0
84	MG	AS	3415	1/1	0.96	0.16	81,81,81,81	0
84	MG	CM	1851	1/1	0.96	0.05	49,49,49,49	0
84	MG	1	3852	1/1	0.96	0.09	71,71,71,71	0
84	MG	1	3653	1/1	0.96	0.15	30,30,30,30	0
84	MG	AS	3687	1/1	0.96	0.07	85,85,85,85	0
84	MG	CM	1804	1/1	0.96	0.05	48,48,48,48	0
84	MG	AS	3706	1/1	0.96	0.07	51,51,51,51	0
84	MG	CM	1806	1/1	0.96	0.06	38,38,38,38	0
84	MG	CM	1859	1/1	0.96	0.15	46,46,46,46	0
84	MG	AS	3418	1/1	0.96	0.22	39,39,39,39	0
84	MG	1	3739	1/1	0.96	0.10	98,98,98,98	0
84	MG	B	1853	1/1	0.96	0.13	47,47,47,47	0
84	MG	1	3784	1/1	0.96	0.11	67,67,67,67	0
84	MG	BE	301	1/1	0.96	0.11	59,59,59,59	0
84	MG	AS	3730	1/1	0.96	0.13	46,46,46,46	0
84	MG	CM	1813	1/1	0.96	0.07	168,168,168,168	0
85	ZN	DN	201	1/1	0.96	0.05	125,125,125,125	0
84	MG	AS	3448	1/1	0.96	0.09	73,73,73,73	0
84	MG	1	3419	1/1	0.96	0.04	49,49,49,49	0
84	MG	AS	3464	1/1	0.96	0.07	43,43,43,43	0
84	MG	B	1808	1/1	0.97	0.04	57,57,57,57	0
84	MG	AS	3470	1/1	0.97	0.08	48,48,48,48	0
84	MG	1	3660	1/1	0.97	0.14	35,35,35,35	0
85	ZN	AK	101	1/1	0.97	0.06	115,115,115,115	0

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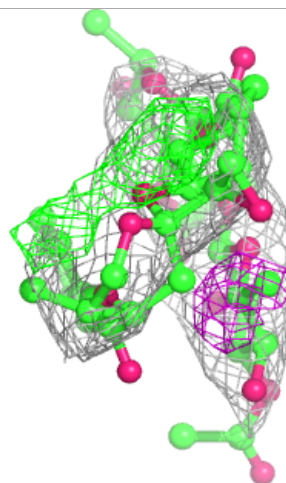
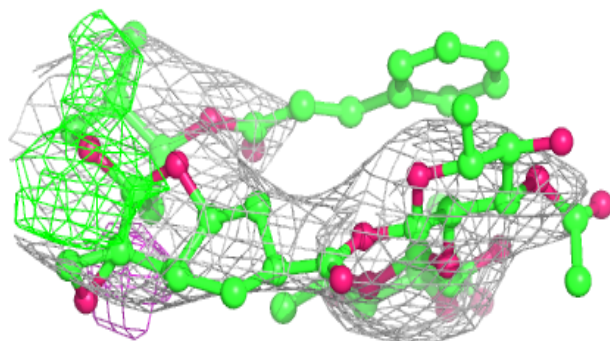
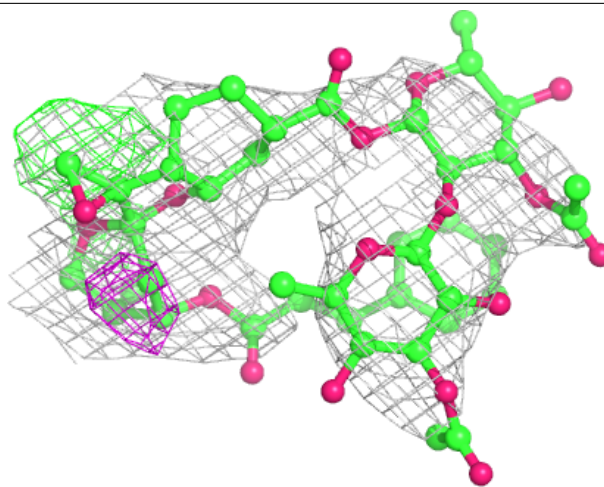
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	CM	1839	1/1	0.97	0.06	50,50,50,50	0
84	MG	1	3437	1/1	0.97	0.07	49,49,49,49	0
85	ZN	f	101	1/1	0.97	0.09	125,125,125,125	0
84	MG	AS	3531	1/1	0.97	0.14	86,86,86,86	1
84	MG	1	3621	1/1	0.97	0.08	56,56,56,56	0
85	ZN	CE	101	1/1	0.97	0.05	128,128,128,128	0
84	MG	1	3736	1/1	0.97	0.09	40,40,40,40	0
84	MG	AS	3493	1/1	0.97	0.14	36,36,36,36	0
85	ZN	DQ	101	1/1	0.97	0.08	121,121,121,121	0
84	MG	1	3696	1/1	0.97	0.09	39,39,39,39	0
84	MG	3	203	1/1	0.97	0.20	54,54,54,54	0
84	MG	3	204	1/1	0.97	0.16	30,30,30,30	0
85	ZN	c	201	1/1	0.98	0.04	132,132,132,132	0
84	MG	CM	1854	1/1	0.98	0.16	41,41,41,41	0
85	ZN	AN	101	1/1	0.98	0.05	110,110,110,110	0
84	MG	AS	3762	1/1	0.98	0.08	41,41,41,41	0
85	ZN	CK	101	1/1	0.99	0.03	151,151,151,151	0
85	ZN	CH	101	1/1	0.99	0.09	117,117,117,117	0
85	ZN	AQ	101	1/1	0.99	0.08	128,128,128,128	0

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

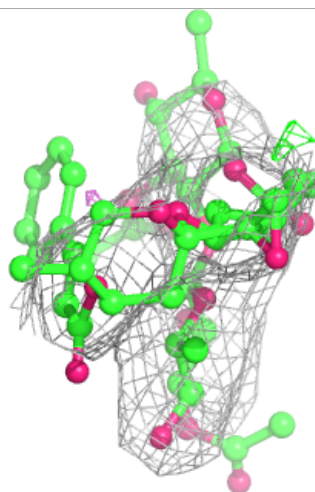
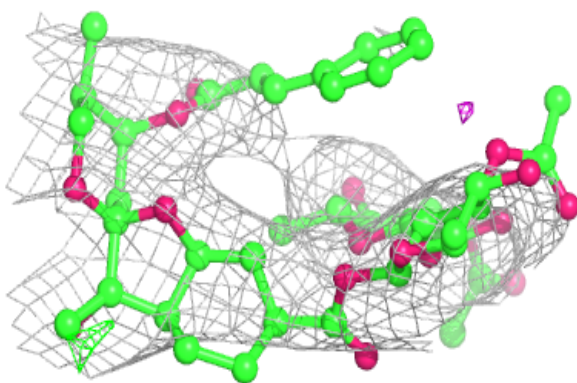
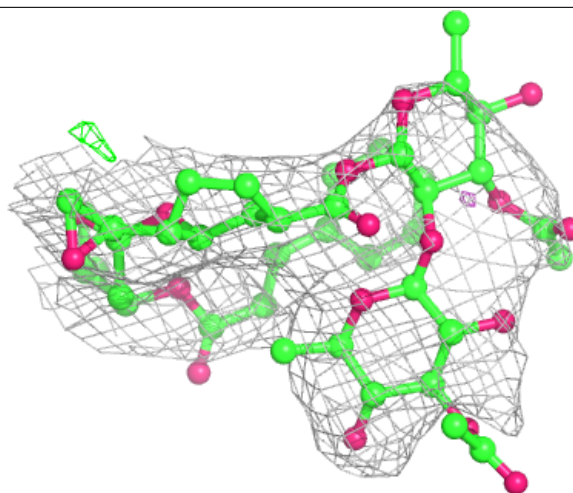
Electron density around 3K5 1 3401:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



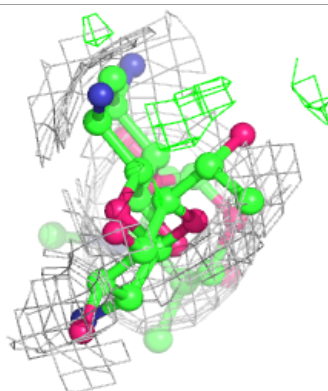
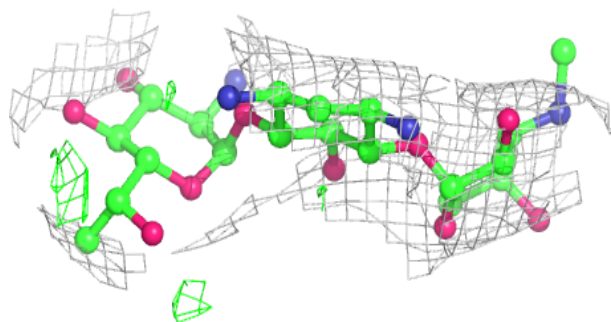
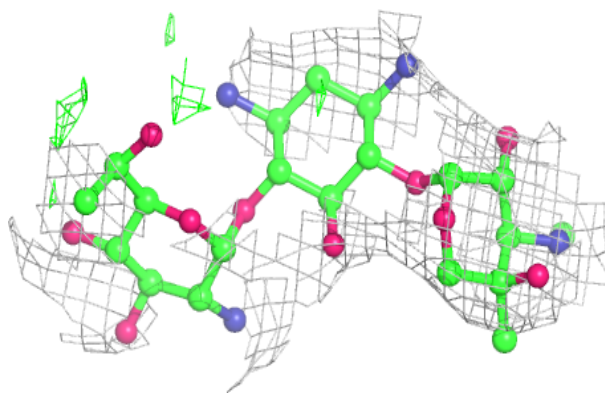
Electron density around 3K5 AS 3401:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

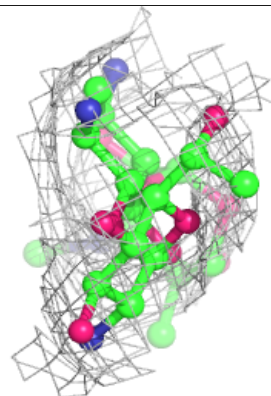
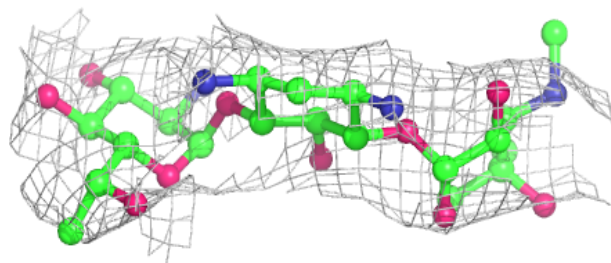
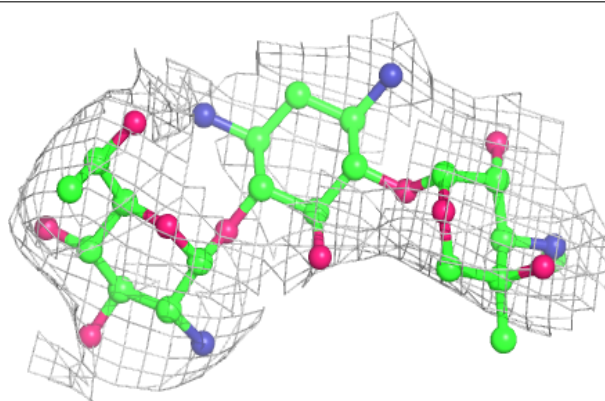


Electron density around GET B 1851:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around GET CM 1822:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.