



wwPDB X-ray Structure Validation Summary Report

Jan 19, 2021 – 11:10 AM EST

PDB ID : 4V7Z
Title : Structure of the *Thermus thermophilus* 70S ribosome complexed with telithromycin.
Authors : Bulkley, D.P.; Innis, C.A.; Blaha, G.; Steitz, T.A.
Deposited on : 2010-08-18
Resolution : 3.10 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 following versions of software and data (see [references](#) ) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.16
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.16

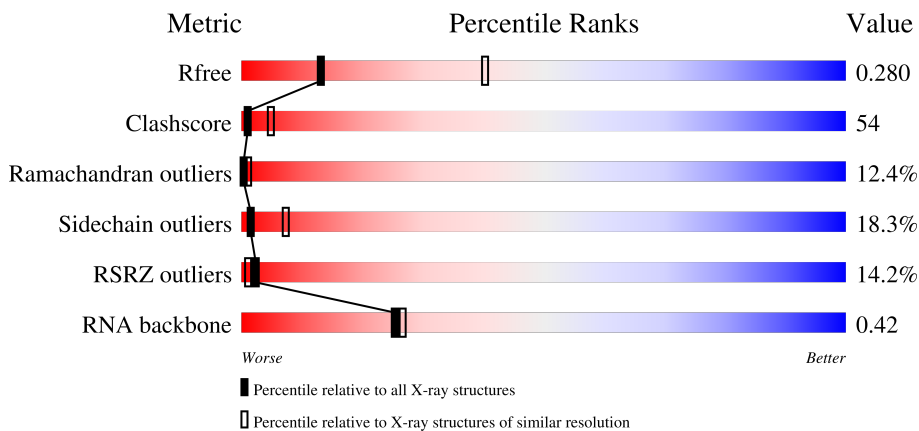
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)
RNA backbone	3102	1116 (3.40-2.80)

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	AA	1522	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">15%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">65%</div> <div style="text-align: center;">19%</div> </div>
1	CA	1522	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">17%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">64%</div> <div style="text-align: center;">19%</div> </div>
2	AB	256	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">19%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">50%</div> <div style="text-align: center;">9%</div> <div style="text-align: center;">8%</div> </div>
2	CB	256	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">23%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">52%</div> <div style="text-align: center;">10%</div> <div style="text-align: center;">8%</div> </div>

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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	135	
12	CL	135	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	9% 29% 54% 15% ..
16	AP	88	27% 18% 58% 17% • 5%
16	CP	88	32% 19% 56% 18% • 5%
17	AQ	105	10% 33% 53% 9% 5%
17	CQ	105	8% 35% 51% 9% 5%
18	AR	88	13% 23% 47% 10% 20%
18	CR	88	20% 18% 50% 11% 20%
19	AS	93	63% 32% 41% 9% • 15%
19	CS	93	55% 33% 41% 8% • 15%
20	AT	106	15% 21% 54% 18% • 7%
20	CT	106	20% 20% 56% 17% • 7%
21	AU	27	74% 37% 56% 7%
21	CU	27	85% 41% 52% 7%
22	B0	85	12% 26% 61% 13%
22	D0	85	13% 25% 58% 18%
23	B1	98	5% 17% 45% 24% • 9%
23	D1	98	9% 18% 45% 23% • 9%
24	B2	72	13% 7% 29% 28% 7% 29%
24	D2	72	7% 11% 25% 28% 7% 29%
25	B3	60	2% 38% 48% 13%
25	D3	60	8% 32% 55% 13%
26	B4	71	3% 23% 20% • 55%
26	D4	71	13% 21% 20% • 55%
27	B5	60	12% 17% 50% 22% 10% •
27	D5	60	10% 20% 47% 25% 7% •




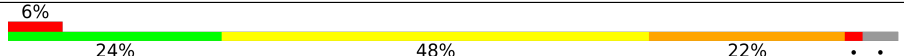
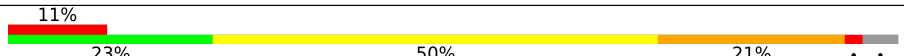
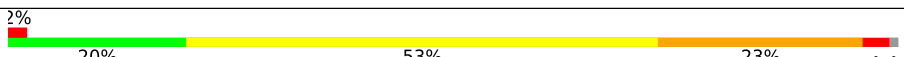
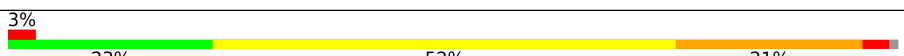
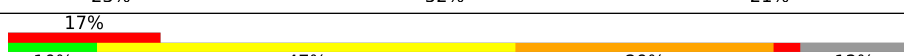
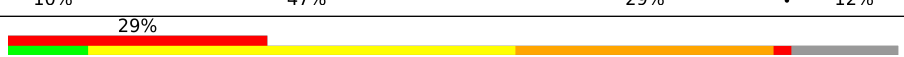
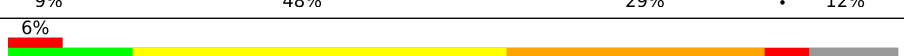
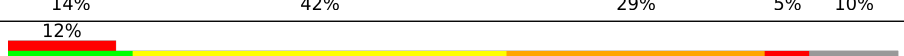
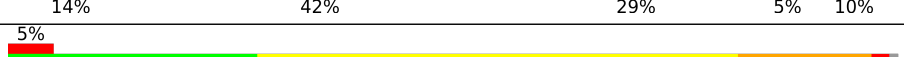
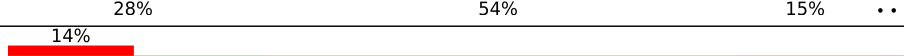
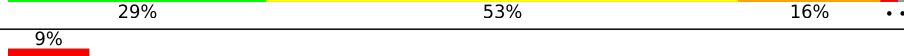

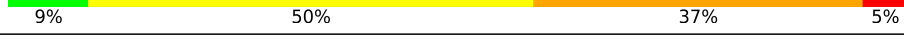
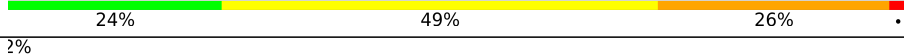
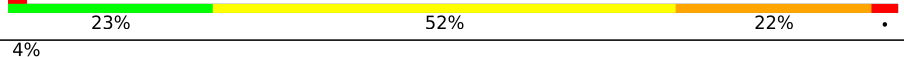
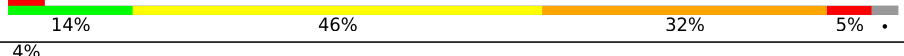


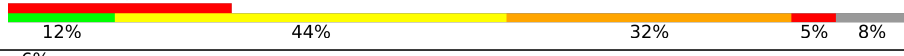
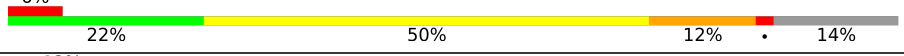
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Mol	Chain	Length	Quality of chain
28	B6	54	
28	D6	54	
29	B7	49	
29	D7	49	
30	B8	65	
30	D8	65	
31	BA	2787	
31	DA	2787	
32	BB	122	
32	DB	122	
33	BD	276	
33	DD	276	
34	BE	206	
34	DE	206	
35	BF	210	
35	DF	210	
36	BG	182	
36	DG	182	
37	BH	180	
37	DH	180	
38	BI	148	
38	DI	148	
39	BN	140	
39	DN	140	
40	BO	122	

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Mol	Chain	Length	Quality of chain
40	DO	122	
41	BP	150	
41	DP	150	
42	BQ	141	
42	DQ	141	
43	BR	118	
43	DR	118	
44	BS	112	
44	DS	112	
45	BT	146	
45	DT	146	
46	BU	118	
46	DU	118	
47	BV	101	
47	DV	101	
48	BW	113	
48	DW	113	
49	BX	96	
49	DX	96	
50	BY	110	
50	DY	110	
51	BZ	206	
51	DZ	206	

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
52	MG	AA	1619	-	-	-	X
52	MG	AA	1628	-	-	-	X
52	MG	AA	1643	-	-	-	X
52	MG	AA	1650	-	-	-	X
52	MG	BA	3088	-	-	-	X
52	MG	BA	3160	-	-	-	X
52	MG	BA	3166	-	-	-	X
52	MG	BA	3219	-	-	-	X
52	MG	BA	3234	-	-	-	X
52	MG	BA	3242	-	-	-	X
52	MG	BA	3246	-	-	-	X
52	MG	BA	3285	-	-	-	X
52	MG	BA	3290	-	-	-	X
52	MG	BA	3303	-	-	-	X
52	MG	BA	3327	-	-	-	X
52	MG	BA	3331	-	-	-	X
52	MG	BA	3343	-	-	-	X
52	MG	BA	3352	-	-	-	X
52	MG	BA	3356	-	-	-	X
52	MG	BB	206	-	-	-	X
52	MG	CA	1602	-	-	-	X
52	MG	CA	1613	-	-	-	X
52	MG	CA	1621	-	-	-	X
52	MG	CA	1630	-	-	-	X
52	MG	CA	1633	-	-	-	X
52	MG	CA	1636	-	-	-	X
52	MG	CA	1648	-	-	-	X
52	MG	D7	101	-	-	-	X
52	MG	DA	3016	-	-	-	X
52	MG	DA	3045	-	-	-	X
52	MG	DA	3094	-	-	-	X
52	MG	DA	3102	-	-	-	X
52	MG	DA	3104	-	-	-	X
52	MG	DA	3116	-	-	-	X
52	MG	DA	3134	-	-	-	X
52	MG	DA	3165	-	-	-	X
52	MG	DA	3182	-	-	-	X
52	MG	DA	3183	-	-	-	X
52	MG	DA	3188	-	-	-	X
52	MG	DA	3217	-	-	-	X
52	MG	DA	3225	-	-	-	X
52	MG	DA	3227	-	-	-	X
52	MG	DA	3229	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
52	MG	DA	3232	-	-	-	X
52	MG	DA	3236	-	-	-	X
52	MG	DA	3248	-	-	-	X
52	MG	DA	3255	-	-	-	X
52	MG	DA	3268	-	-	-	X
52	MG	DA	3269	-	-	-	X
52	MG	DA	3273	-	-	-	X
52	MG	DA	3276	-	-	-	X
52	MG	DA	3283	-	-	-	X
52	MG	DA	3285	-	-	-	X
52	MG	DA	3301	-	-	-	X
52	MG	DA	3311	-	-	-	X
55	TEL	BA	3362	-	-	X	-
55	TEL	DA	3320	-	-	X	-

2 Entry composition [i](#)

There are 55 unique types of molecules in this entry. The entry contains 278037 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0
1	CA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AB	235	Total 1901	C 1213	N 342	O 341	S 5	0	0	1
2	CB	235	Total 1901	C 1213	N 342	O 341	S 5	0	0	1

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	1
3	CC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0
4	CD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AI	58	ARG	HIS	conflict	UNP P80374
CI	58	ARG	HIS	conflict	UNP P80374

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			
10	CJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	CK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	2	VAL	-	insertion	UNP Q5SHN3
AL	3	ALA	-	insertion	UNP Q5SHN3
AL	4	LEU	-	insertion	UNP Q5SHN3
CL	2	VAL	-	insertion	UNP Q5SHN3
CL	3	ALA	-	insertion	UNP Q5SHN3
CL	4	LEU	-	insertion	UNP Q5SHN3

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	115	Total	C	N	O	S	0	0	0
			921	569	190	160	2			
13	CM	115	Total	C	N	O	S	0	0	0
			921	569	190	160	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	CO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
18	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	B0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			
22	D0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	B1	89	Total	C	N	O	0	0	1
			693	435	140	118			
23	D1	89	Total	C	N	O	0	0	1
			693	435	140	118			

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	B2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			
24	D2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
25	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B4	32	Total	C	N	O	0	0	0
			157	93	32	32			
26	D4	32	Total	C	N	O	0	0	0
			157	93	32	32			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			
27	D5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
28	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
29	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
30	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 31 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			
31	DA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			

- Molecule 32 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
32	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 33 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
33	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

- Molecule 34 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			
34	DE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			

- Molecule 35 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
35	DF	208	1624	1035	304	282	3	0	0	1

- Molecule 36 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
36	BG	181	1474	942	268	260	4	0	0	0
36	DG	181	1474	942	268	260	4	0	0	0

- Molecule 37 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
37	BH	160	1223	773	229	220	1	0	0	1
37	DH	160	1223	773	229	220	1	0	0	1

- Molecule 38 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
38	BI	146	1132	723	201	207	1	0	0	1
38	DI	146	1132	723	201	207	1	0	0	1

- Molecule 39 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
39	BN	139	1105	712	207	182	4	0	0	1
39	DN	139	1105	712	207	182	4	0	0	1

- Molecule 40 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
40	BO	122	933	588	171	170	4	0	0	0
40	DO	122	933	588	171	170	4	0	0	0

- Molecule 41 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
41	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 42 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			
42	DQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 43 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
43	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 44 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BS	99	Total	C	N	O	0	0	1
			771	486	155	130			
44	DS	99	Total	C	N	O	0	0	1
			771	486	155	130			

- Molecule 45 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			
45	DT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			

- Molecule 46 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			
46	DU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 47 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
47	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 48 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			
48	DW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

- Molecule 49 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BX	93	Total	C	N	O	0	0	1
			726	471	132	123			
49	DX	93	Total	C	N	O	0	0	1
			726	471	132	123			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			
50	DY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

- Molecule 51 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	DZ	177	1404	897	253	252	2	0	0	1

- Molecule 52 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
52	BA	360	Total	Mg	0	0
			360	360		
52	CA	50	Total	Mg	0	0
			50	50		
52	DQ	1	Total	Mg	0	0
			1	1		
52	DF	1	Total	Mg	0	0
			1	1		
52	DU	1	Total	Mg	0	0
			1	1		
52	B1	1	Total	Mg	0	0
			1	1		
52	BP	3	Total	Mg	0	0
			3	3		
52	DR	2	Total	Mg	0	0
			2	2		
52	B5	2	Total	Mg	0	0
			2	2		
52	BB	7	Total	Mg	0	0
			7	7		
52	BF	1	Total	Mg	0	0
			1	1		
52	BX	1	Total	Mg	0	0
			1	1		
52	D8	1	Total	Mg	0	0
			1	1		
52	AA	52	Total	Mg	0	0
			52	52		
52	BQ	2	Total	Mg	0	0
			2	2		
52	D7	1	Total	Mg	0	0
			1	1		
52	BU	1	Total	Mg	0	0
			1	1		
52	DD	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
52	BR	1	Total Mg 1 1	0	0
52	DA	318	Total Mg 318 318	0	0
52	B7	1	Total Mg 1 1	0	0
52	DE	1	Total Mg 1 1	0	0
52	DX	1	Total Mg 1 1	0	0
52	DP	1	Total Mg 1 1	0	0
52	D5	1	Total Mg 1 1	0	0
52	BD	2	Total Mg 2 2	0	0
52	B0	1	Total Mg 1 1	0	0
52	DB	3	Total Mg 3 3	0	0

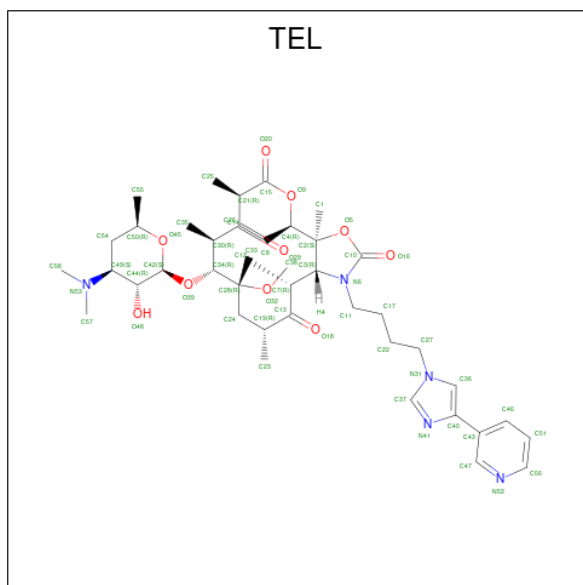
- Molecule 53 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	CN	1	Total Zn 1 1	0	0
53	AD	1	Total Zn 1 1	0	0
53	CD	1	Total Zn 1 1	0	0
53	AN	1	Total Zn 1 1	0	0

- Molecule 54 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	BA	1	Total K 1 1	0	0
54	DA	1	Total K 1 1	0	0

- Molecule 55 is TELITHROMYCIN (three-letter code: TEL) (formula: C₄₃H₆₅N₅O₁₀).

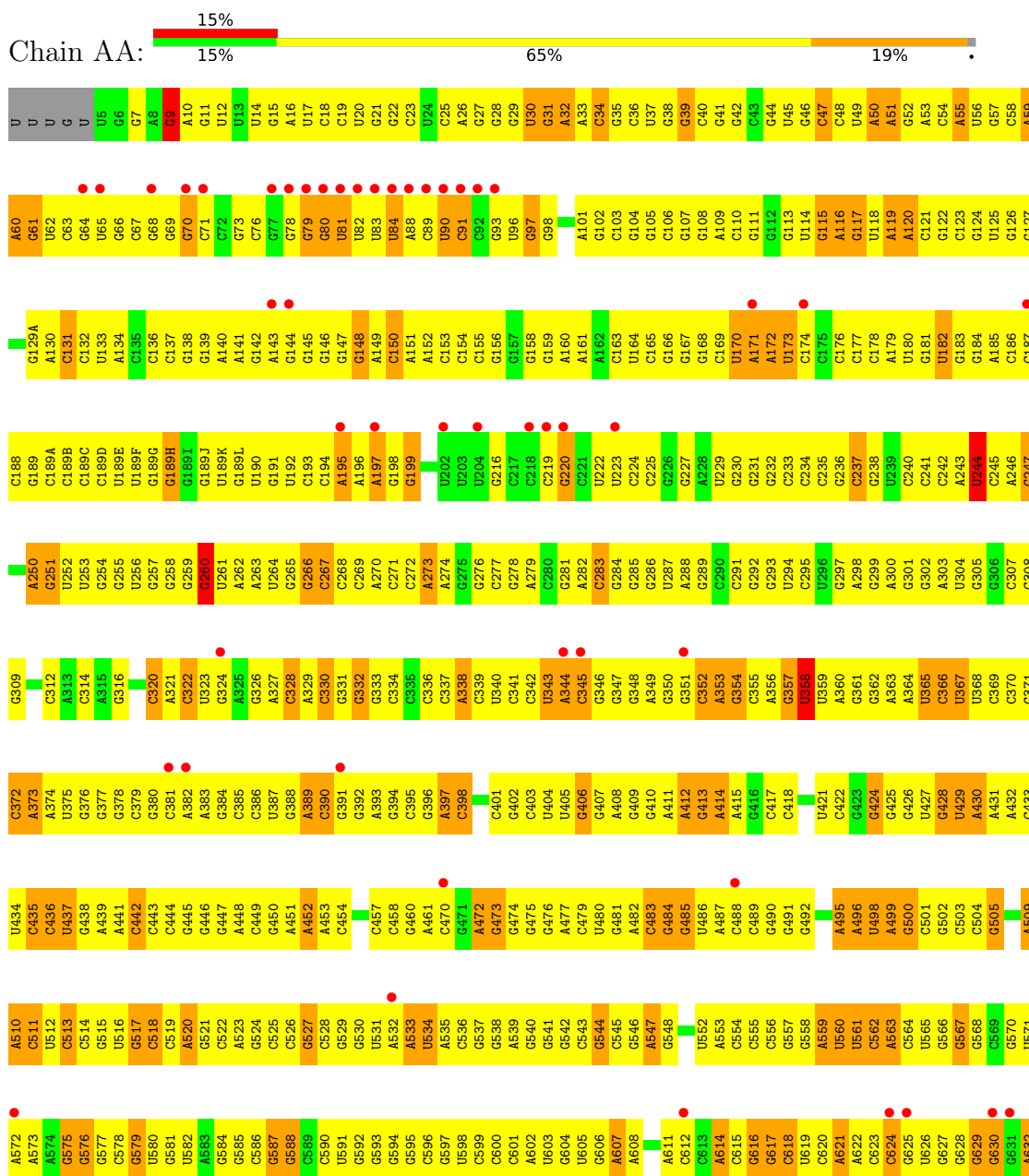


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	N			O
55	BA	1	58	43	5	10	0	0
55	DA	1	58	43	5	10	0	0

3 Residue-property plots

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

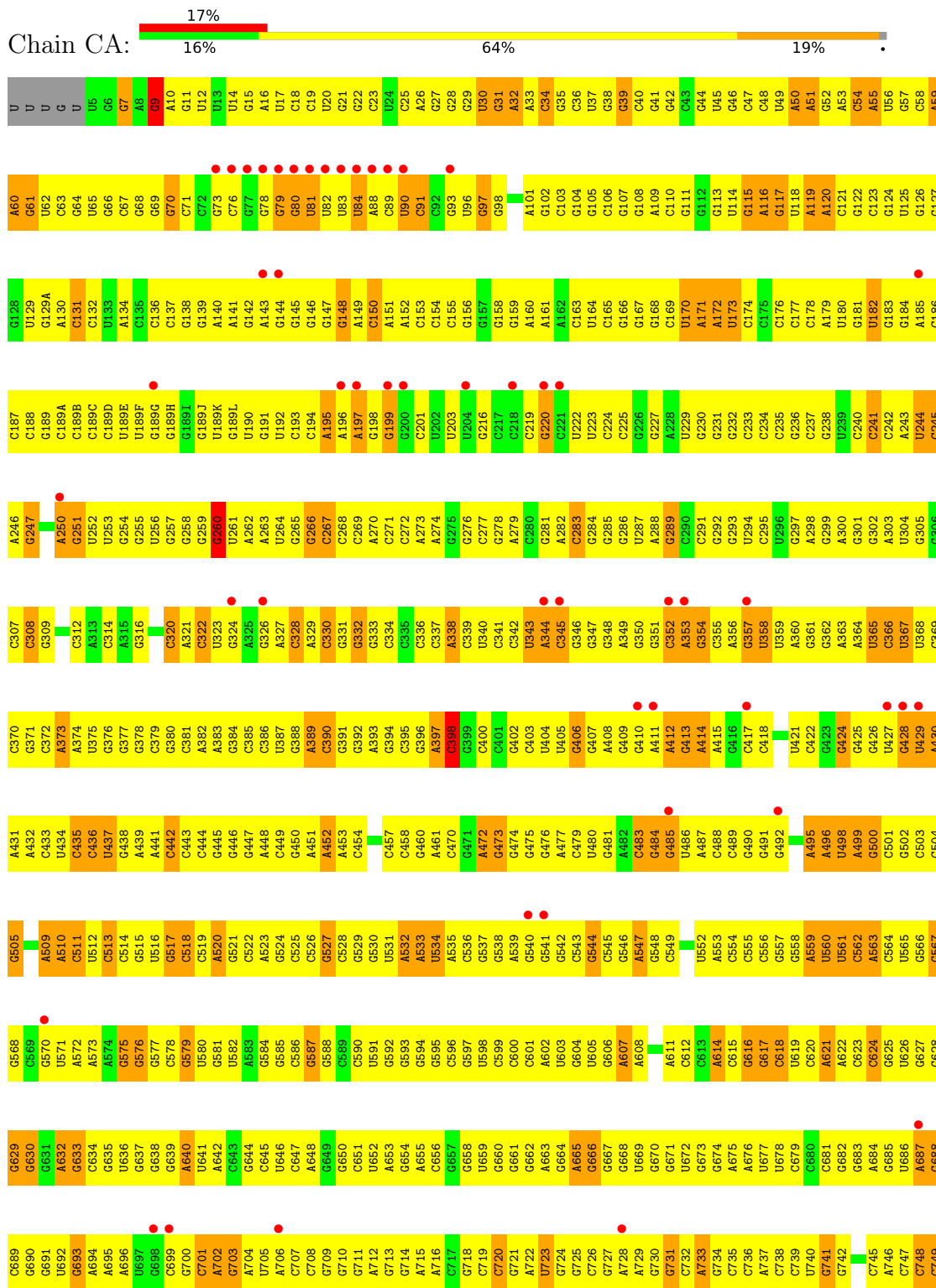
- Molecule 1: 16S rRNA



A1433	G1373	C1314	G1253	G1190	U1126	C1066	C1006	G947	C883	A816	C754	G693
A1434	A1374	U1315	C1254	A1191	G1127	A1067	U1012	C948	U884	A817	G755	C694
G1435	U1375	G1316	G1255	U1196	C1128	G1068	U1013	A949	G885	C818	G756	A695
U1436	U1376	C1317	A1256	G1197	C1129	C1069	G1014	U950	U886	A819	U757	A696
G1437	A1377	A1318	U1257	G1198	A1130	U1070	A1015	G951	A889	U820	G758	G697
G1438	C1378	A1319	G1258	U1199	G1131	C1071	A1016	U952	G890	C821	A759	G698
C1439	U1379	C1320	C1259	U1200	C1132	G1072	U1017	G953	U891	G822	G760	G699
C1440	U1380	C1321	C1260	C1201	G1133	U1073	C1018	G954	A892	C823	G761	A640
C1441	C1381	C1322	A1261	A1201	G1134	G1074	U1018	U955	C893	G824	C762	C701
G1442	C1382	G1323	C1262	G1202	U1135	C1075	U1019	U956	G894	C825	G763	A642
G1442A	C1383	A1324	U1136	U1203	U1136	C1076	U1020	U957	G895	G826	C764	G702
A1442B	C1384	C1325	C1137	A1204	U1137	U1077	G1021	U958	C896	C827	G765	A704
G1443	G1385	G1326	G1266	U1205	C1138	U1078	G1022	A959	C897	U827	A766	G645
	G1386	C1327	C1267	G1206	G1139	G1079	G1023	U960	A767	A828	A767	U646
	G1387	C1328	A1268	G1207	A1080	U1080	U1024	U961	A900	G829	A768	C647
U1446	C1388	A1329	A1269	U1208	G1142	G1081	U1025	U962	A901	G830	A768	C648
A1447	G1389	C1330	C1270	G1209	G1143	U1082	G1026	U963	A902	C831	C770	G649
G1452	U1390	G1331	G1271	C1210	U1083	G1083	C1027	A964	G903	C832	G771	G650
G1457	U1391	A1332	U1272	U1211	A1146	U1084	U1028	A965	U833	U833	U772	C651
	G1392	A1333	G1273	U1212	C1147	U1085	C1029	G966	G906	C834	G773	U652
	U1393	G1334	U1274	A1213	U1148	U1086	U1030	C967	A907	U835	G774	A653
	C1394	C1335	G1275	C1214	C1149	G1087	G1030A	A968	A908	C836	G775	G654
	A1395	C1336	U1276	G1215	U1150	U1088	C1030B	A969	A909	G837	G776	A655
	C1396	G1337	C1277	U1216	A1151	U1089	G1030C	C970	C910	C838	A777	C656
	U1397	G1338	U1278	C1217	A1152	U1090	A1030D	G971	U911	U839	G778	G657
	A1398	A1339	A1279	C1218	C1153	U1091	G1031	C972	C912	C840	C779	G658
	C1399	U1340	U1280	U1219	G1154	A1092	U1032	G973	A913	U841	A780	U659
	C1400	C1341	G1155	G1220	G1155	U1093	G1033	A974	A914	C842	A781	G660
	G1401	C1342	C1282	G1221	A1156	U1094	G1034	A975	A915	G714	G782	G661
	A1402	G1343	G1283	U1222	U1157	U1095	G976	A983	C923	A722	C783	G662
	C1403	C1344	C1284	C1223	C1158	U1096	U1036	A977	G917	U723	G784	A663
	G1404	U1345	A1285	G1224	U1159	C1097	C1037	A978	A918	G724	G785	G664
	C1405	A1346	U1286	A1225	G1160	U1098	U1038	A979	A919	G725	G786	A665
	U1406	G1347	A1287	C1226	C1161	C1099	C1039	C980	U920	G726	A787	G666
	C1407	U1348	A1288	A1227	C1162	C1100	U1040	U981	G922	G727	U788	G667
	A1408	A1349	A1289	C1228	C1163	A1101	A1041	A982	G923	A728	U789	G668
	C1409	A1350	G1290	A1229	G1164	U1102	G1042	C984	A924	A729	A790	U669
	G1410	U1351	G1291	C1230	A1165	C1103	U1043	C985	G925	G730	G791	G670
	C1411	C1352	U1292	G1231	G1166	U1104	A1044	C986	A860	G731	A792	G671
	U1412	G1353	G1293	U1232	A1168	A1105	C1045	A986	G926	C732	U793	U672
	A1413	C1354	G1294	C1233	A1169	C1106	A1046	A987	G927	A733	G673	G673
	U1414	G1355	U1295	U1234	A1170	C1107	G1047	G988	G928	G734	G674	G674
	G1415	C1356	G1296	C1235	G1171	C1108	U1048	C989	G929	A675	C735	A675
	U1416	A1357	C1297	U1236	C1172	C1109	U1049	C990	C930	A676	G736	A676
	G1417	U1358	C1298	G1237	G1173	A1110	G1050	U991	C931	A737	G737	U677
	A1418	C1359	A1299	A1238	G1174	A1111	C1051	U992	C932	C868	G800	U678
	U1419	A1360	G1300	A1239	G1175	C1112	U1052	G993	G933	C869	U801	U679
	C1420	G1361	U1301	U1240	A1176	C1113	G1053	A994	C934	U870	A802	C739
	G1421	C1362	U1302	G1241	G1177	C1114	C1054	U995	A935	U871	G803	U740
	U1422	A1363	C1303	C1242	G1178	C1115	A1055	A996	C936	A872	U804	G741
	G1423	U1364	G1304	G1243	A1179	C1116	U1056	U997	A937	A873	C805	G742
	A1424	C1365	U1305	A1244	A1180	U1117	U1057	G998	A938	A874	C806	G745
	U1425	G1366	G1306	A1245	G1181	C1118	G1058	C999	G939	C875	C806	A694
	C1426	U1367	U1307	C1246	G1182	C1119	C1059	U1000	C940	C876	C808	U696
	U1427	G1368	A1308	U1247	A1183	G1120	C1060	A1001	G941	C877	G809	A687
	A1428	C1369	G1309	U1248	G1184	U1121	G1061	G1001A	G942	C878	G809	C748
	U1429	G1370	G1310	C1249	G1185	U1122	U1062	G1002	U943	C879	C810	G688
	C1430	A1371	G1311	A1250	G1186	A1123	C1063	U1003	G944	C880	C811	C689
	U1431	U1372	U1312	U1251	C1189	G1124	G1064	A1004	G945	C881	C812	G690
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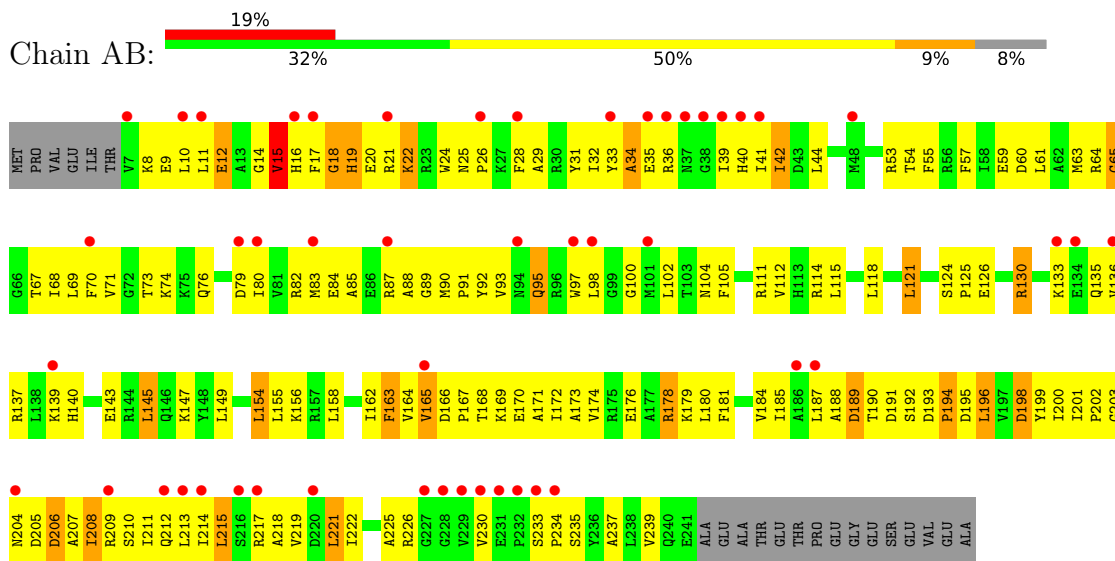
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• Molecule 1: 16S rRNA

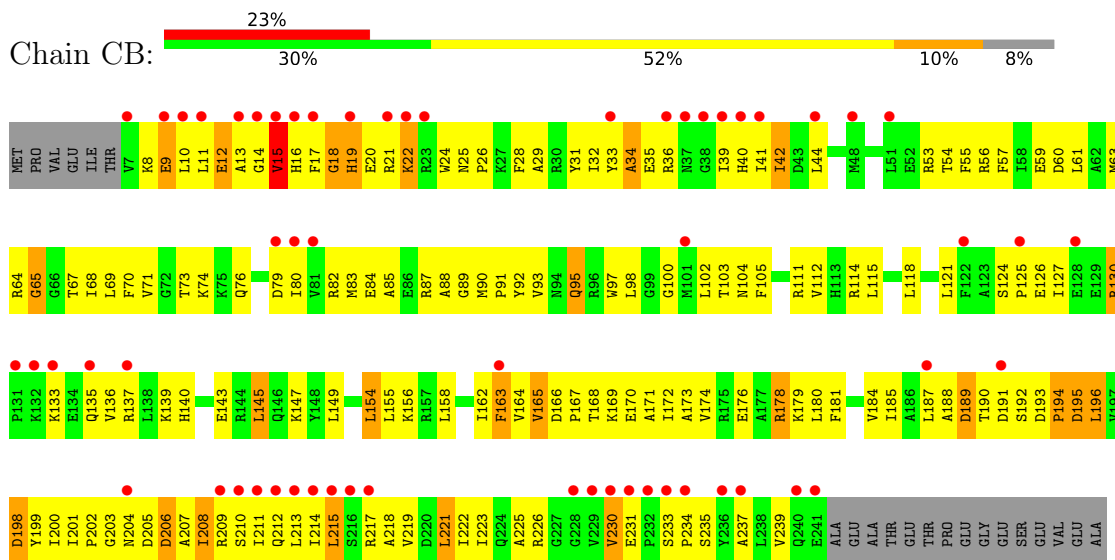


U1506	C1439	U1313	A1252	A1188	U1125	G1064	A1004	G945	C881	G750
A1507	C1440	C1314	G1253	C1189	U1126	U1065	A1005	A946	C882	U751
C1508	G1441	G1316	C1254	A1190	G1127	U1066	C1006	G947	C883	G752
U1510	G1442	G1317	G1255	A1191	G1128	A1067	C1007	C948	U884	A753
G1511	A1442A	C1317	A1256	U1196	A1129	G1068	U1012	A949	C885	C754
U1512	G1443	C1320	U1257	G1197	A1130	C1071	G1013	U950	C886	C755
A1513	C1384	C1321	G1258	G1198	G1132	U1072	G1014	G951	C887	C756
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G1456	U1388	C1325	G1263	G1202	U1136	U1076	C1018	U955	C821	G760
A1457	C1389	C1327	G1265	G1203	C1137	U1077	U1019	U956	G822	G761
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G1464	A1394	C1331	C1270	C1208	G1142	G1082	G1024	A902	A766	A766
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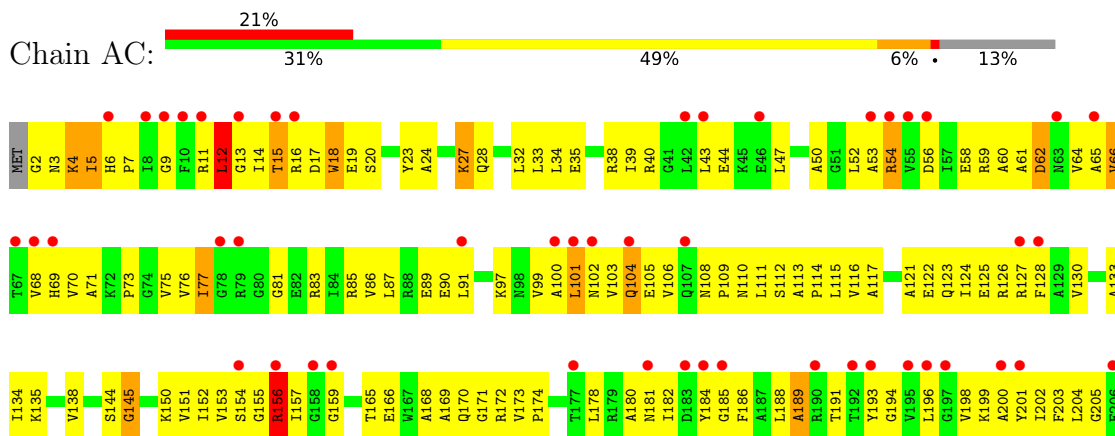
• Molecule 2: 30S ribosomal protein S2

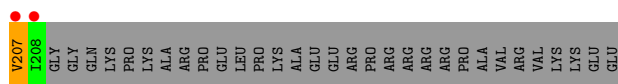


• Molecule 2: 30S ribosomal protein S2

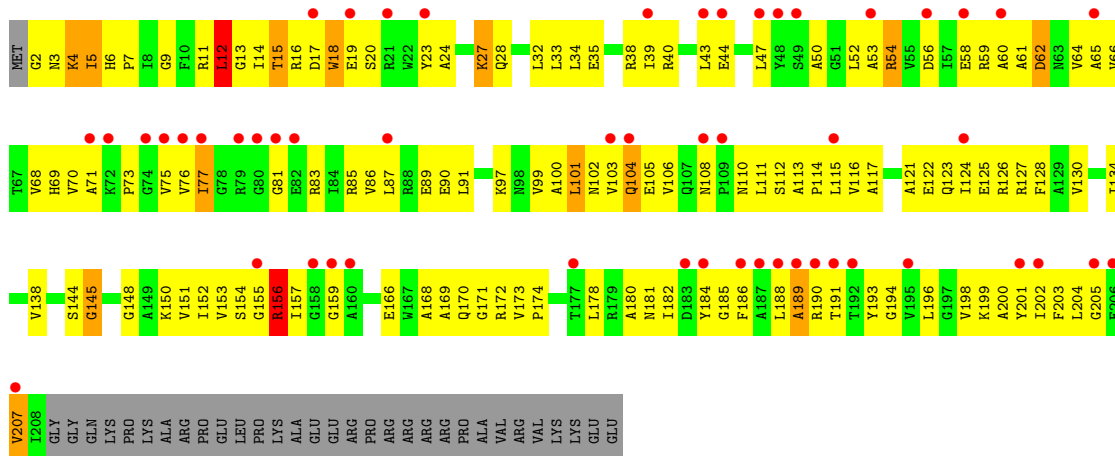


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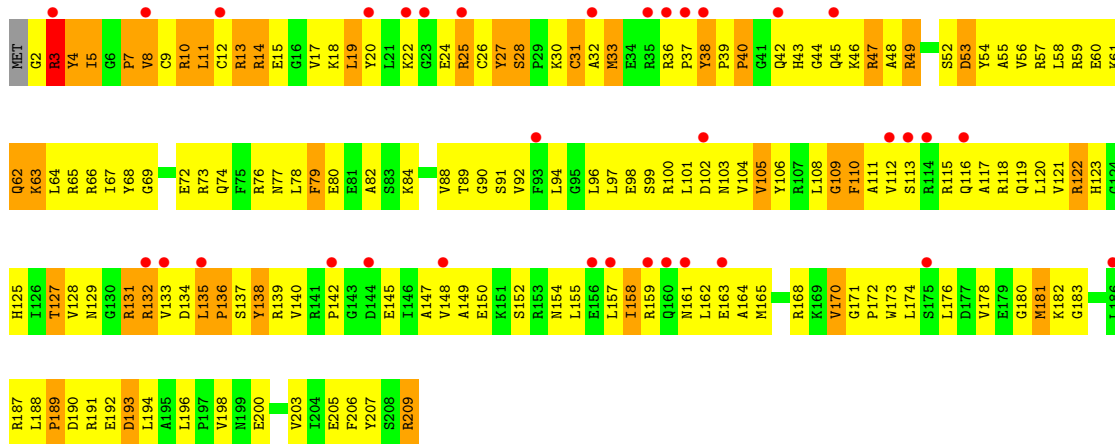




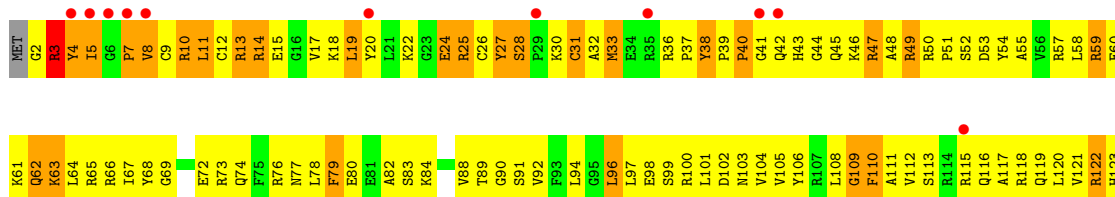
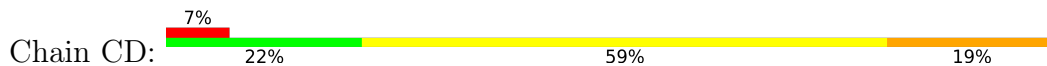
- Molecule 3: 30S ribosomal protein S3

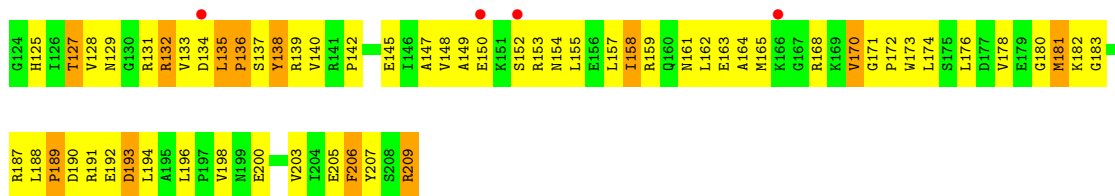


- Molecule 4: 30S ribosomal protein S4

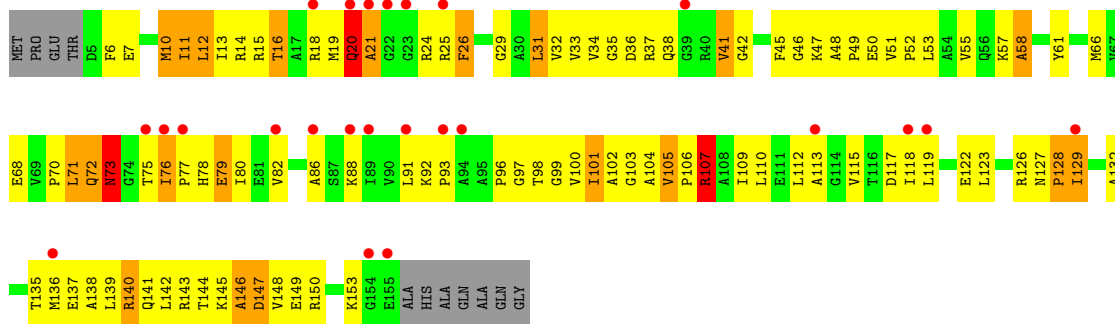


- Molecule 4: 30S ribosomal protein S4

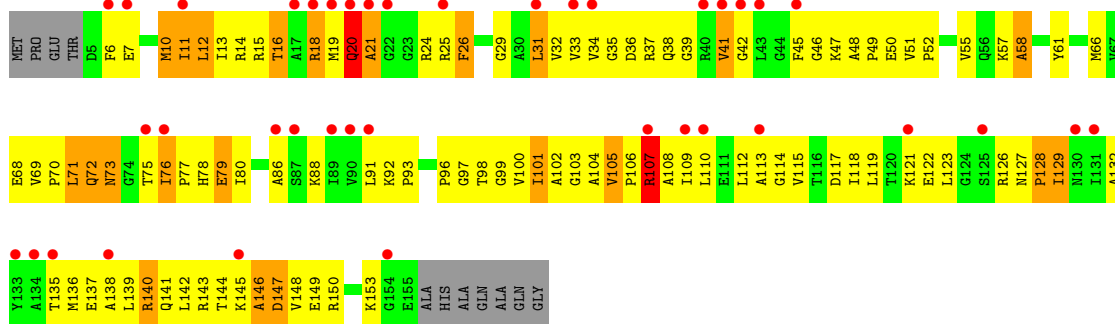




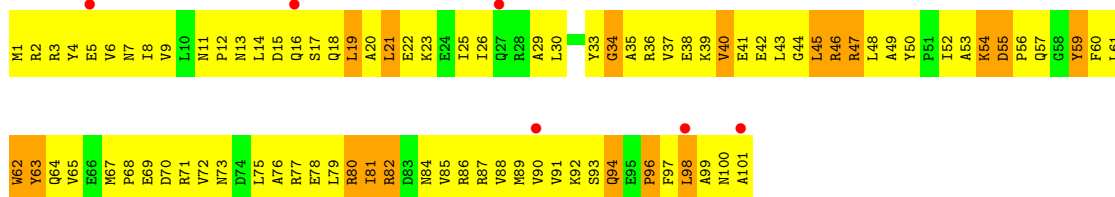
• Molecule 5: 30S ribosomal protein S5



• Molecule 5: 30S ribosomal protein S5

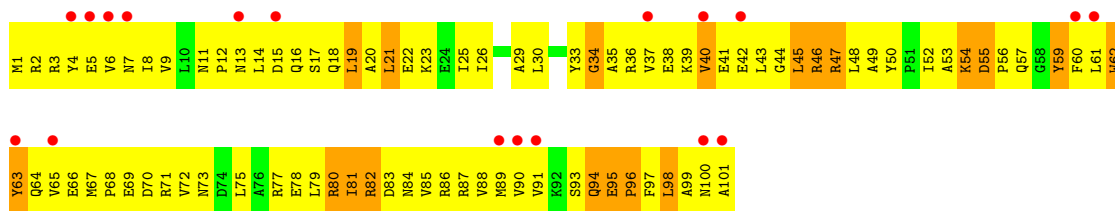


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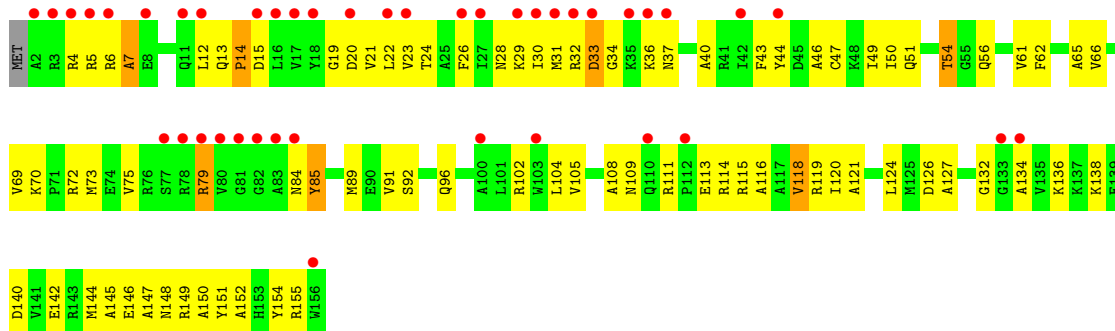


• Molecule 6: 30S ribosomal protein S6





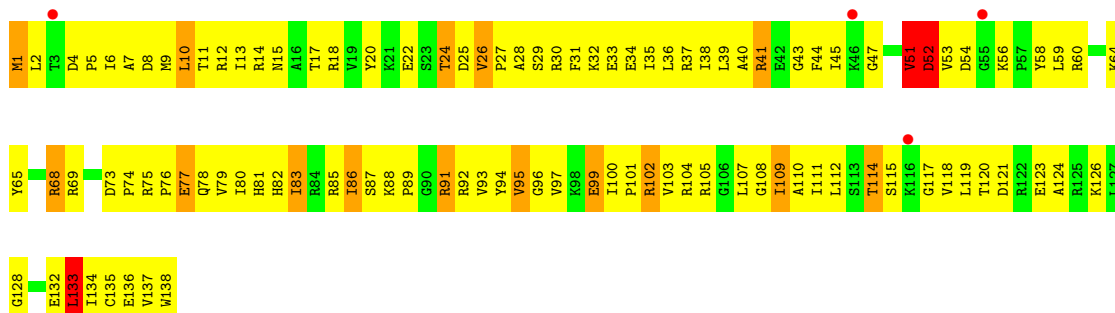
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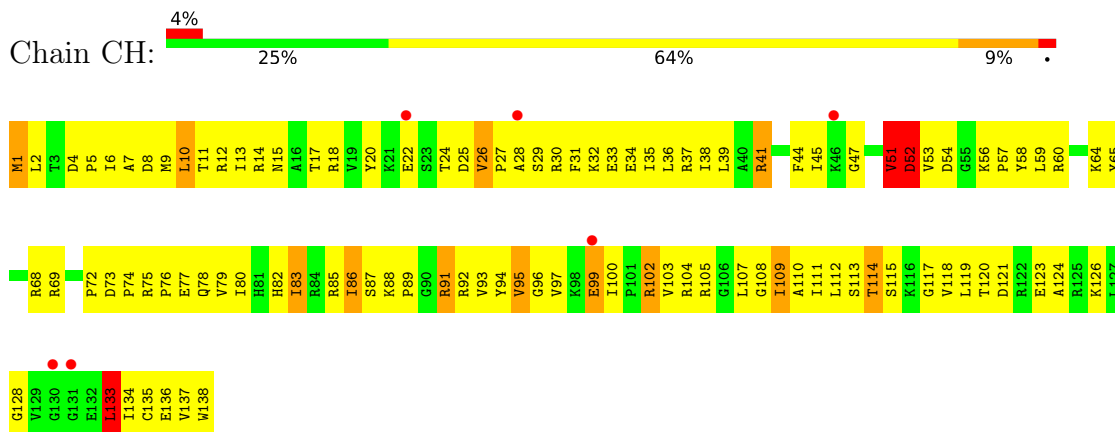
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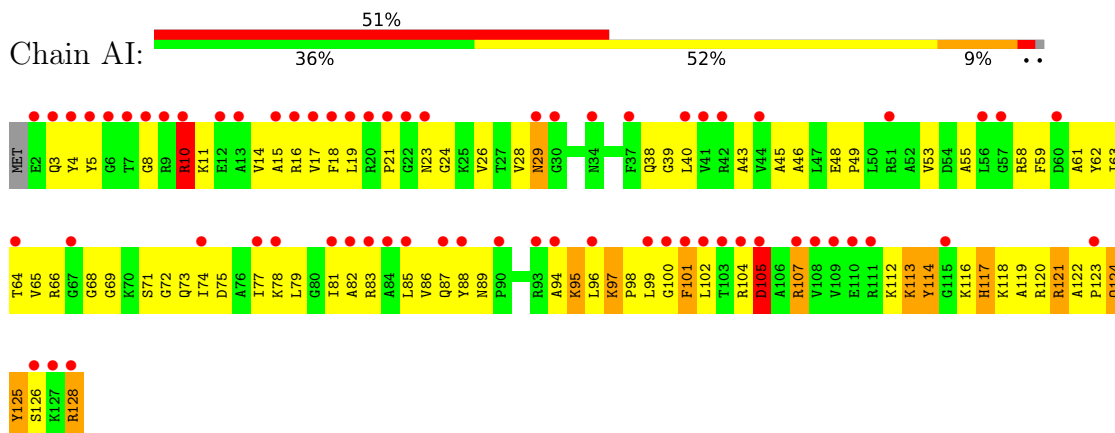
● Molecule 8: 30S ribosomal protein S8



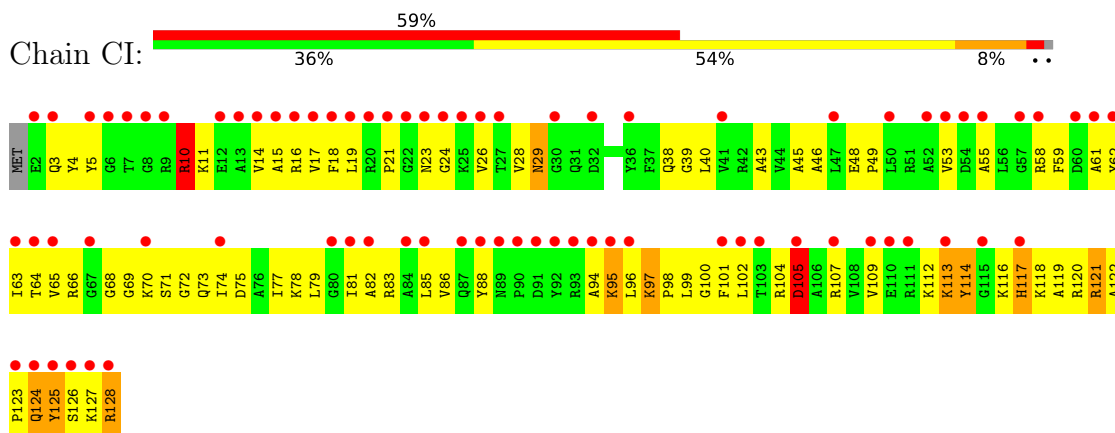
- Molecule 8: 30S ribosomal protein S8



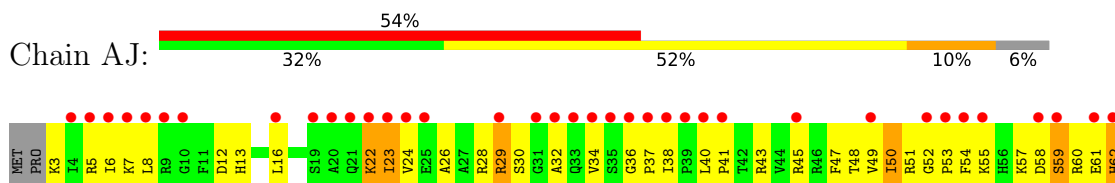
- Molecule 9: 30S ribosomal protein S9

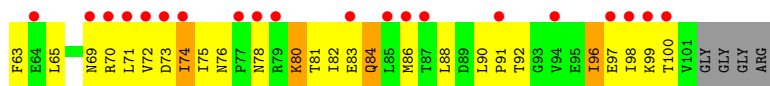


- Molecule 9: 30S ribosomal protein S9

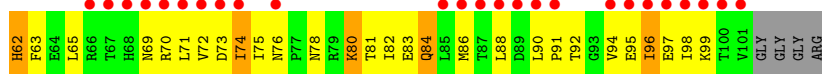
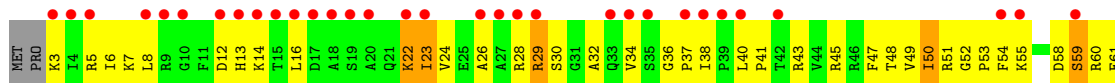


- Molecule 10: 30S ribosomal protein S10

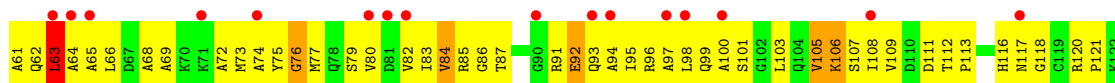
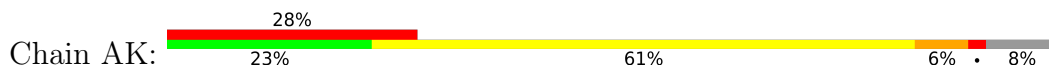




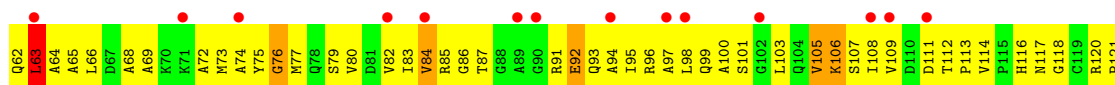
• Molecule 10: 30S ribosomal protein S10



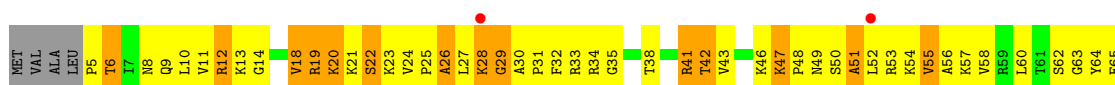
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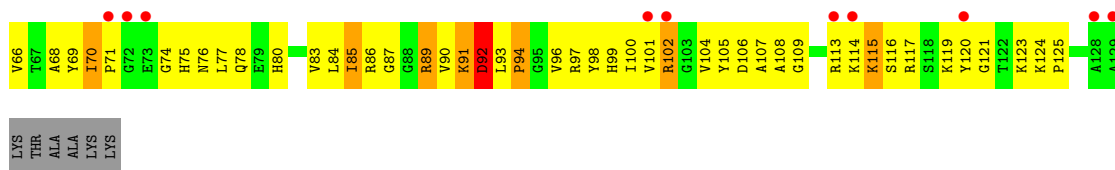


• Molecule 11: 30S ribosomal protein S11

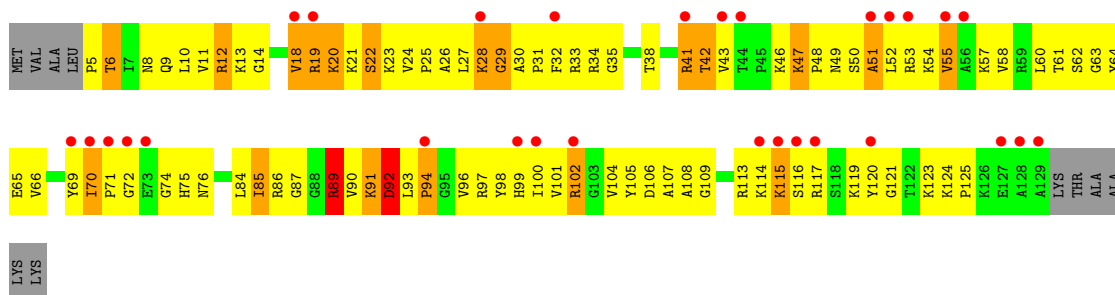


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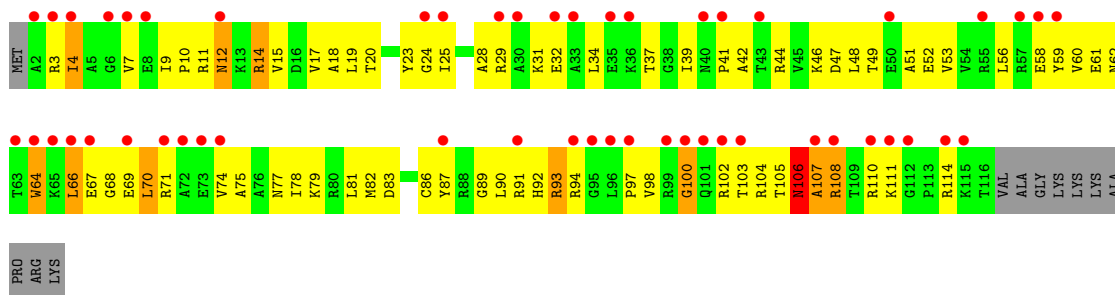
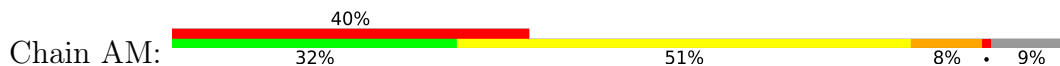




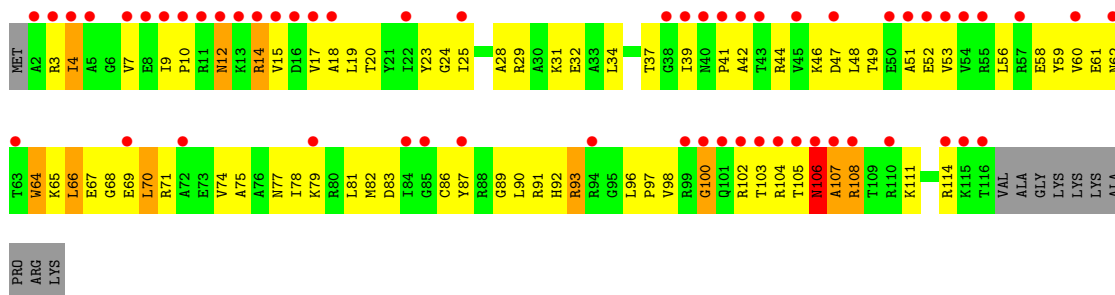
• Molecule 12: 30S ribosomal protein S12



• Molecule 13: 30S ribosomal protein S13

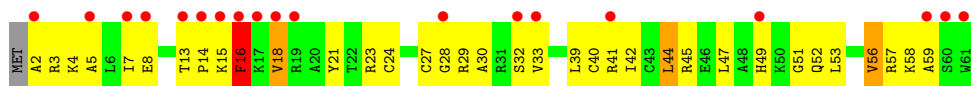


• Molecule 13: 30S ribosomal protein S13

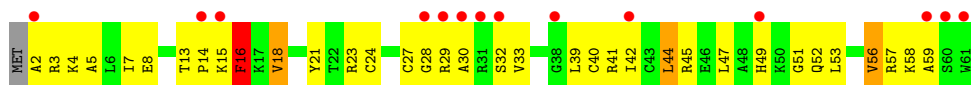


• Molecule 14: 30S ribosomal protein S14

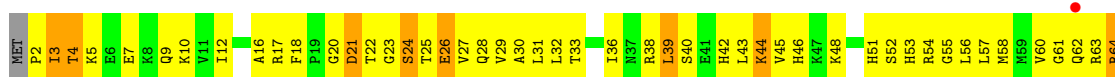




- Molecule 14: 30S ribosomal protein S14



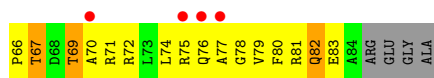
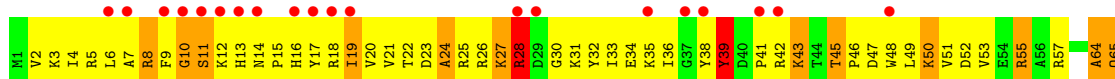
- Molecule 15: 30S ribosomal protein S15



- Molecule 15: 30S ribosomal protein S15

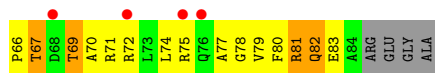


- Molecule 16: 30S ribosomal protein S16



- Molecule 16: 30S ribosomal protein S16

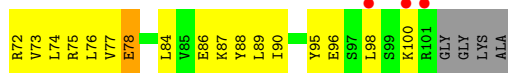




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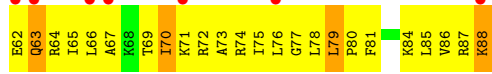
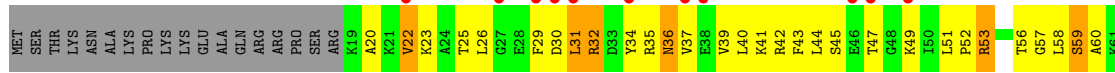
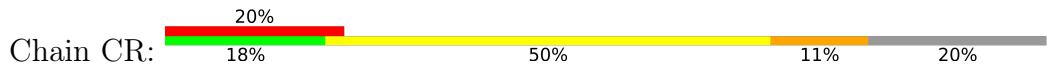
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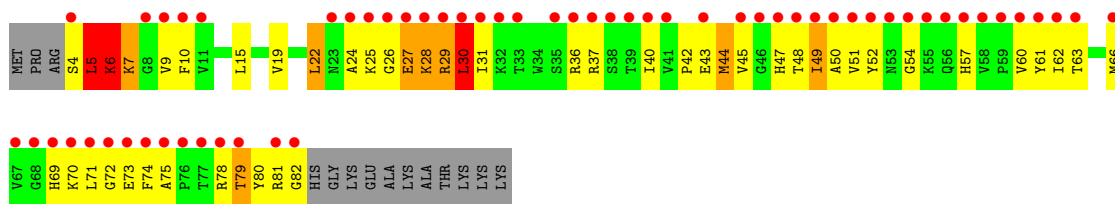
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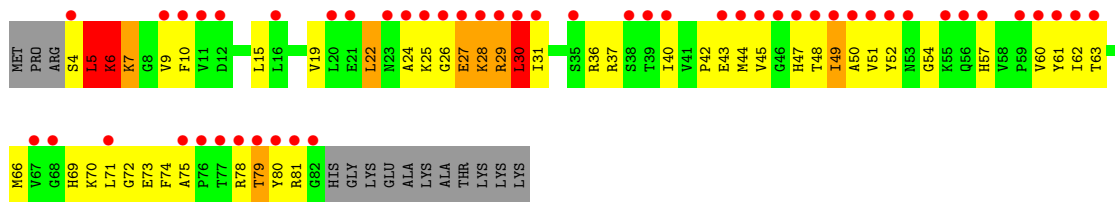
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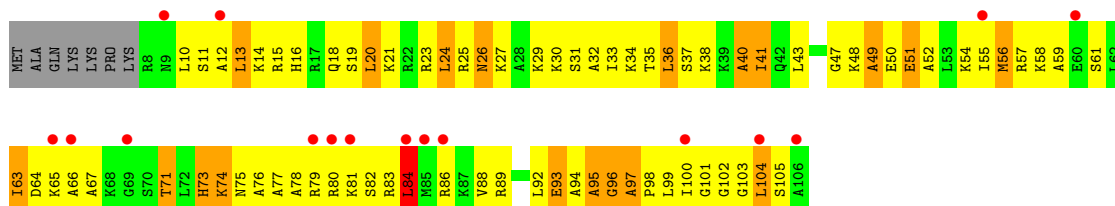
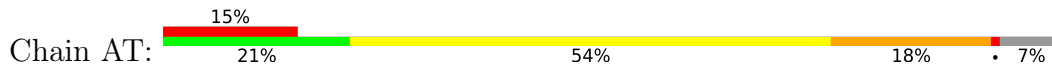
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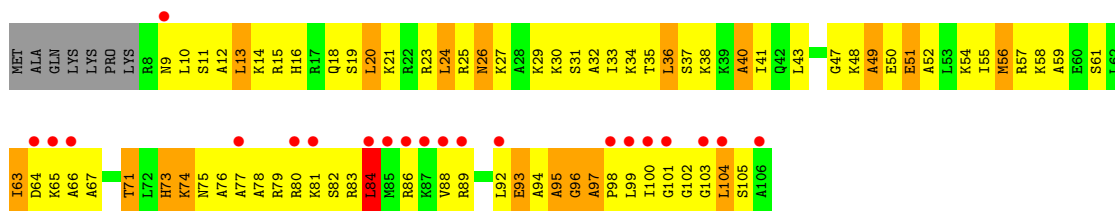
- Molecule 19: 30S ribosomal protein S19



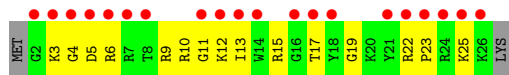
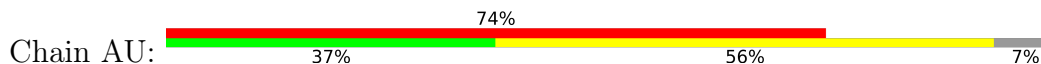
- Molecule 20: 30S ribosomal protein S20



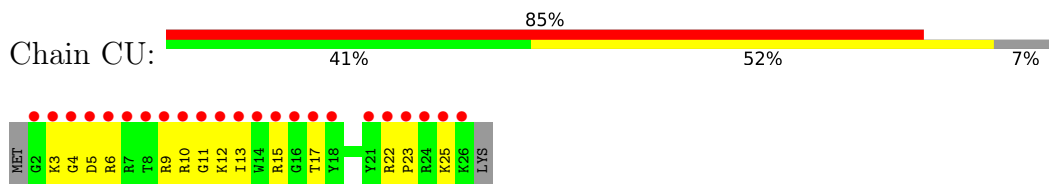
- Molecule 20: 30S ribosomal protein S20



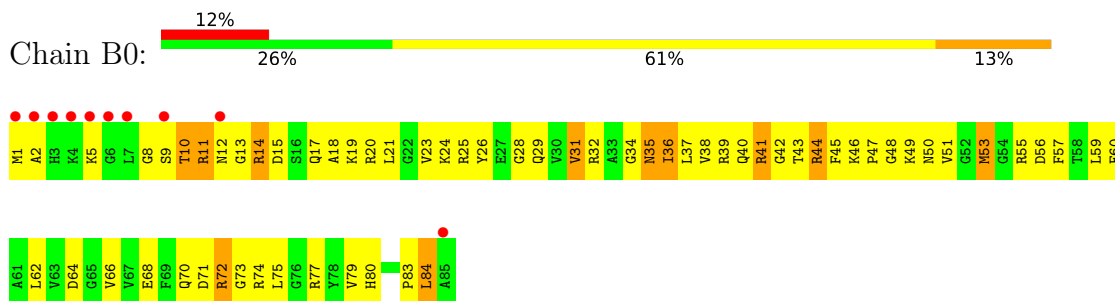
- Molecule 21: 30S ribosomal protein Thx



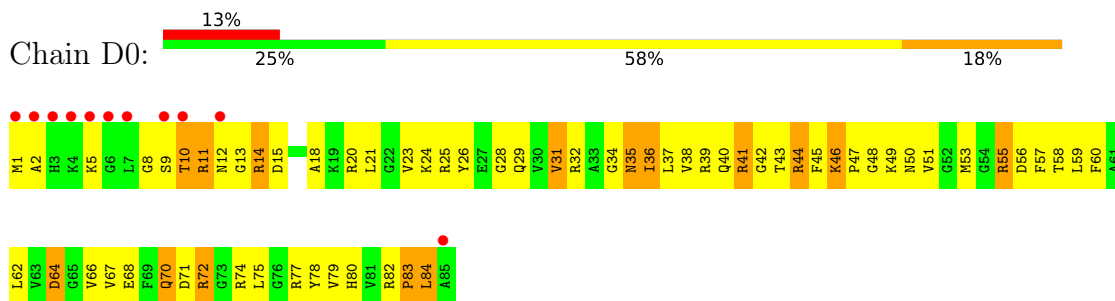
- Molecule 21: 30S ribosomal protein Thx



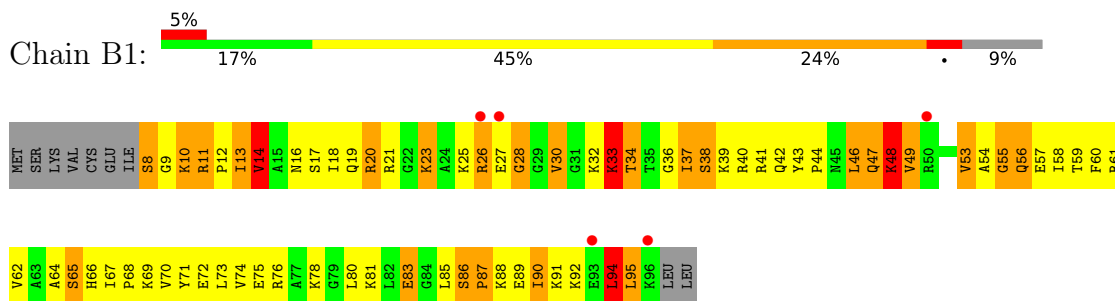
• Molecule 22: 50S ribosomal protein L27



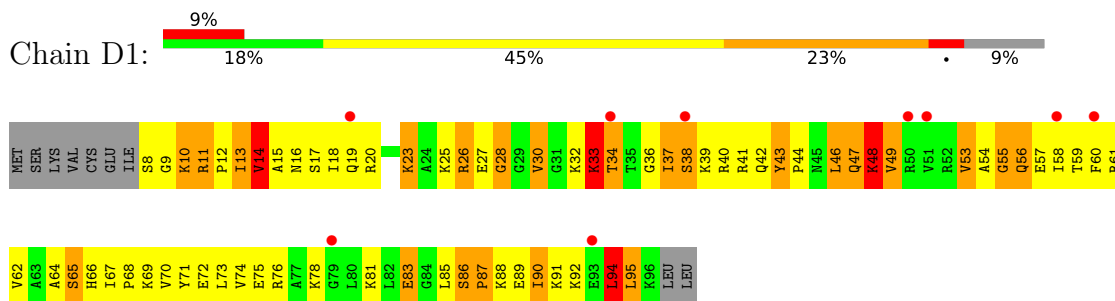
• Molecule 22: 50S ribosomal protein L27



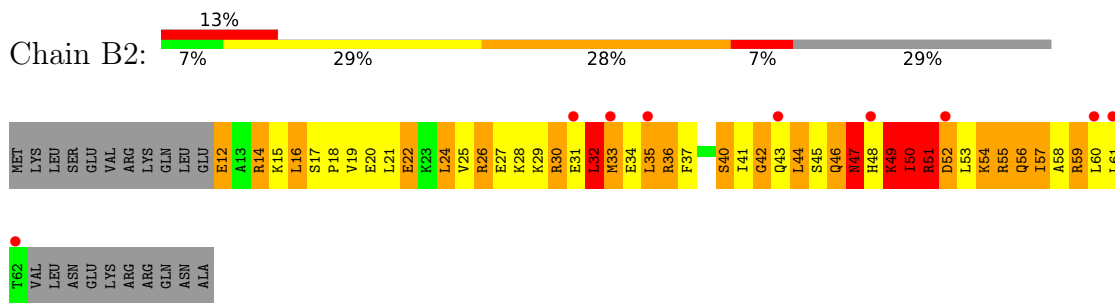
• Molecule 23: 50S ribosomal protein L28



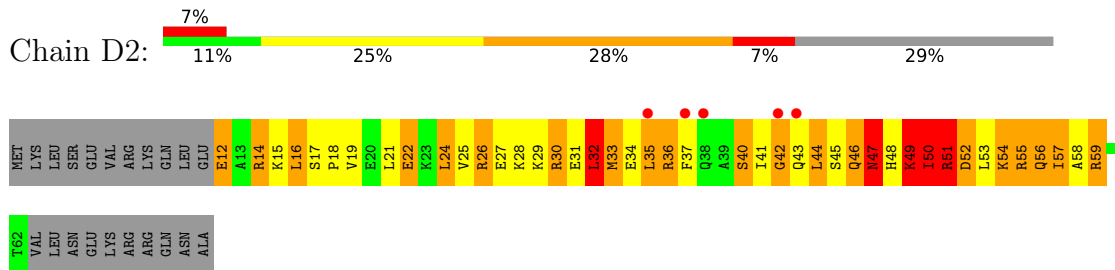
• Molecule 23: 50S ribosomal protein L28



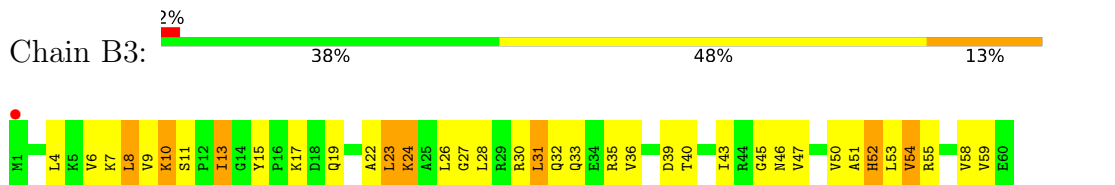
• Molecule 24: 50S ribosomal protein L29



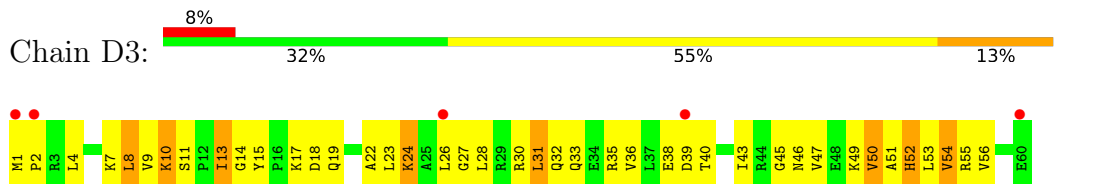
• Molecule 24: 50S ribosomal protein L29



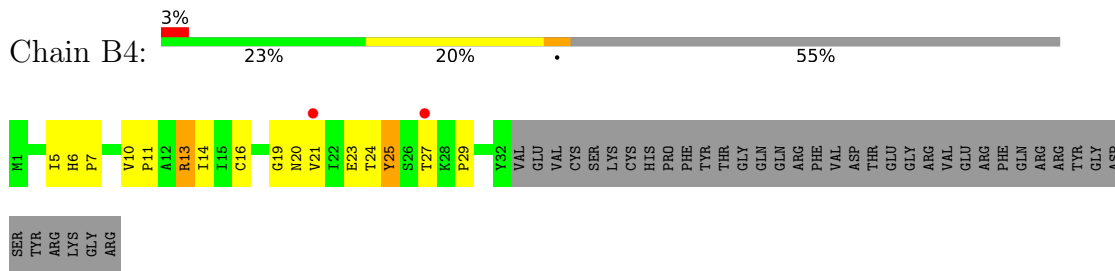
• Molecule 25: 50S ribosomal protein L30



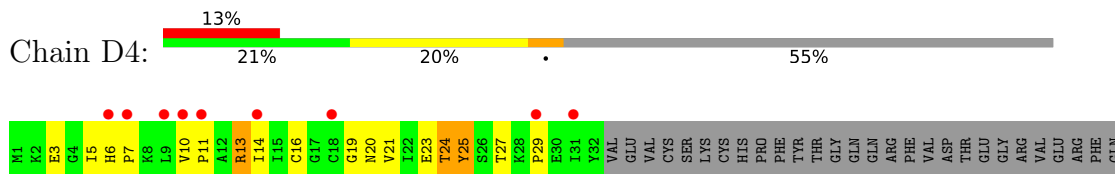
• Molecule 25: 50S ribosomal protein L30



• Molecule 26: 50S ribosomal protein L31

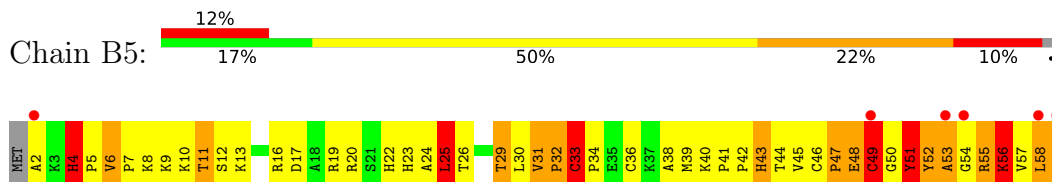


• Molecule 26: 50S ribosomal protein L31

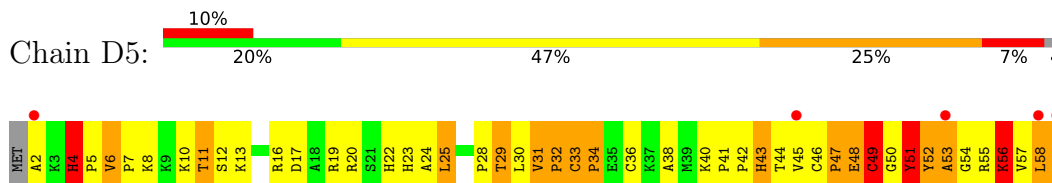


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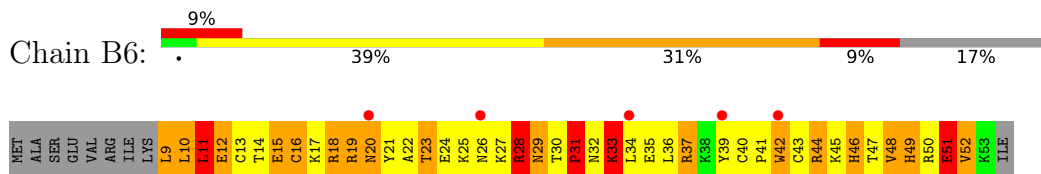
• Molecule 27: 50S ribosomal protein L32



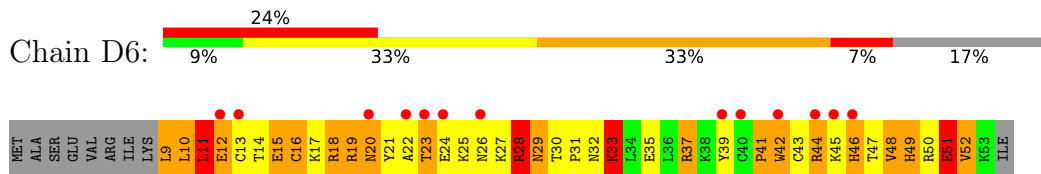
• Molecule 27: 50S ribosomal protein L32



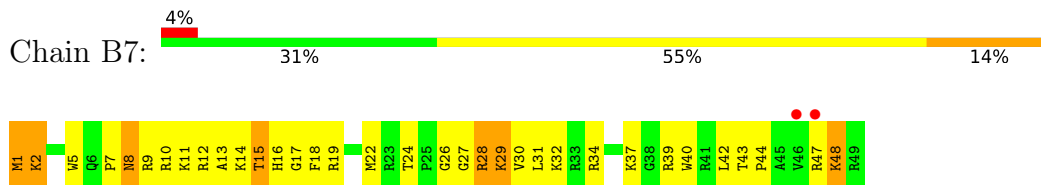
• Molecule 28: 50S ribosomal protein L33



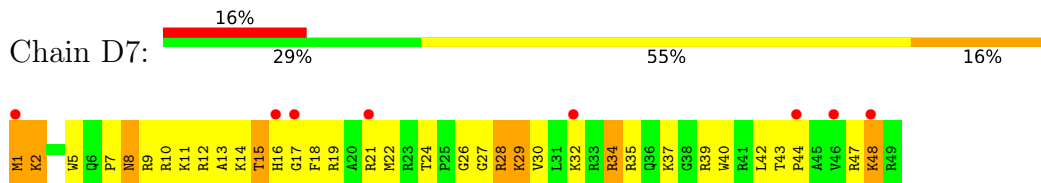
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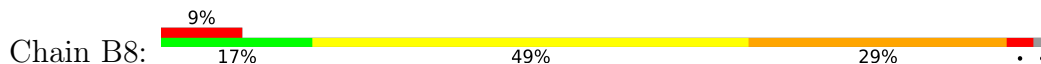
• Molecule 29: 50S ribosomal protein L34

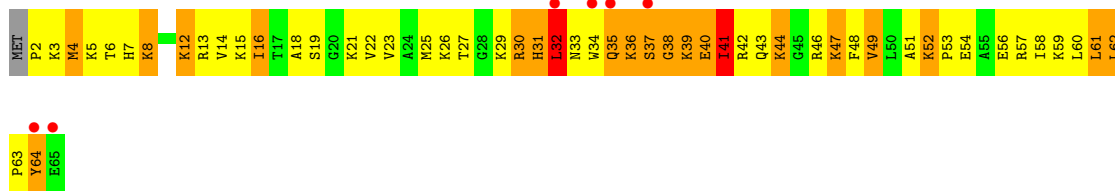


• Molecule 29: 50S ribosomal protein L34

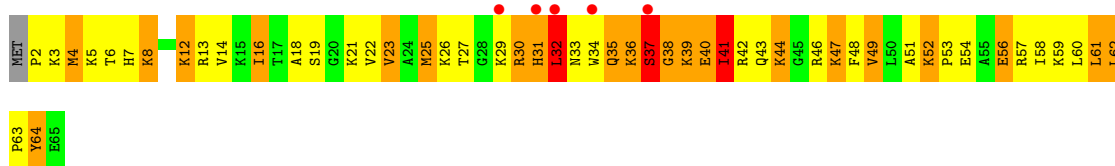
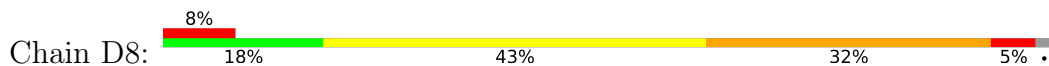


• Molecule 30: 50S ribosomal protein L35

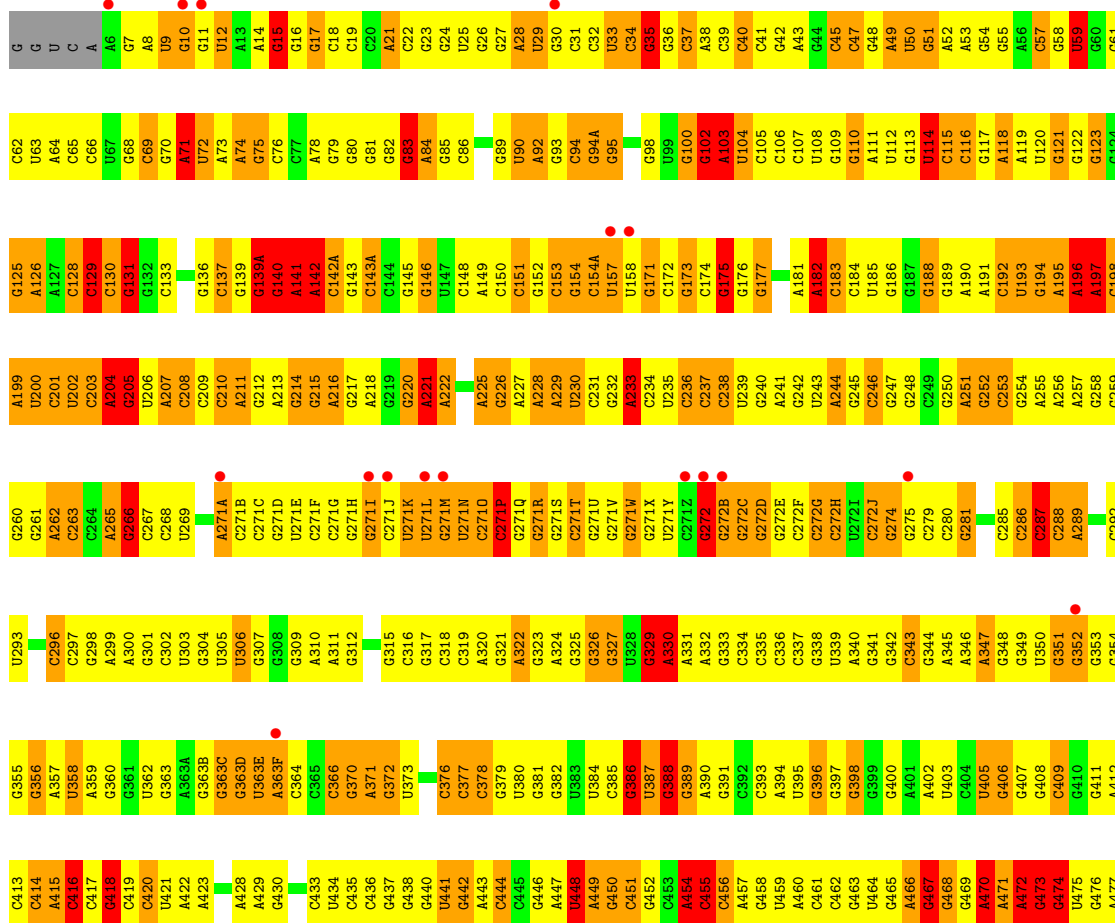




• Molecule 30: 50S ribosomal protein L35

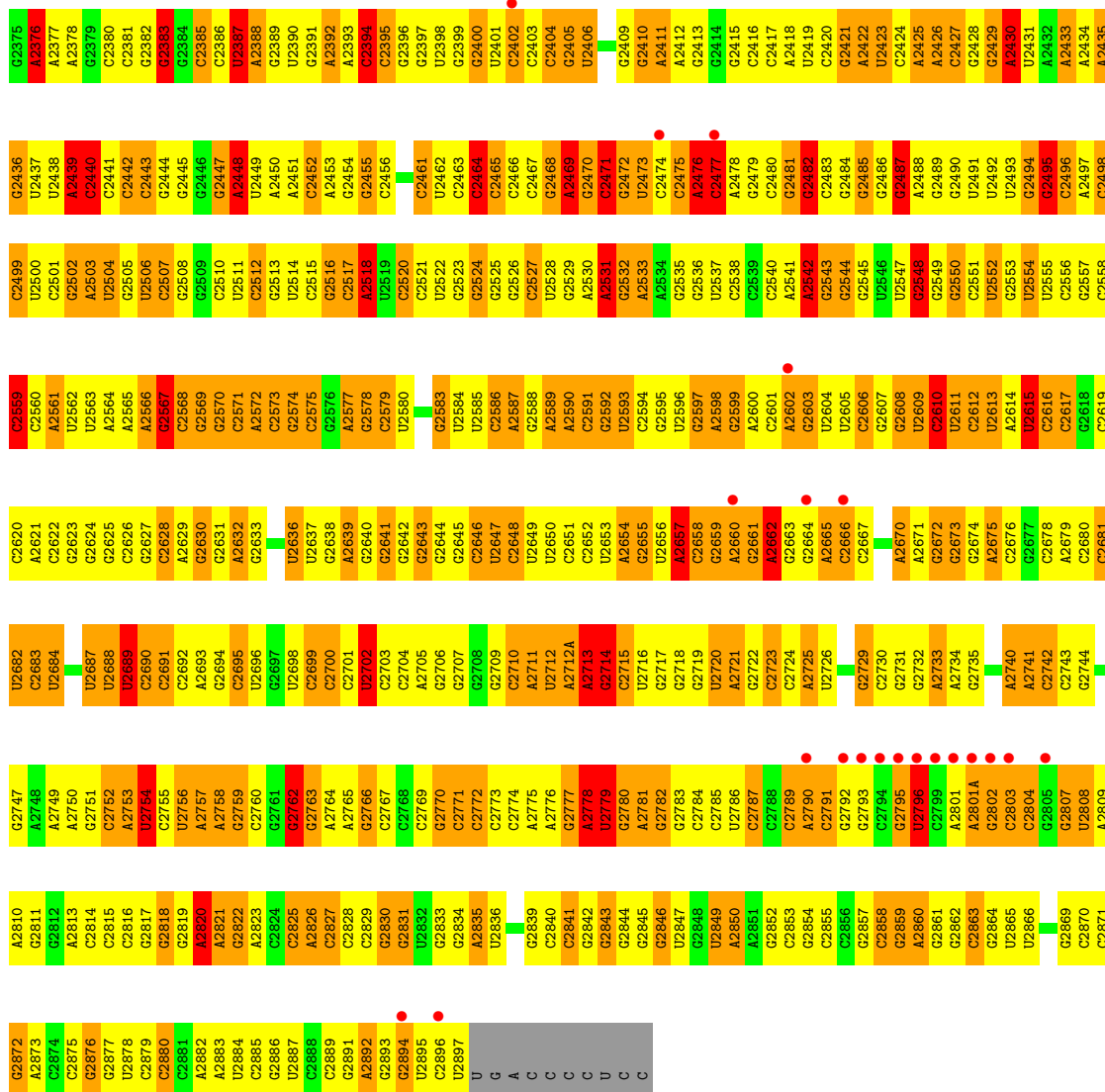


• Molecule 31: 23S ribosomal RNA

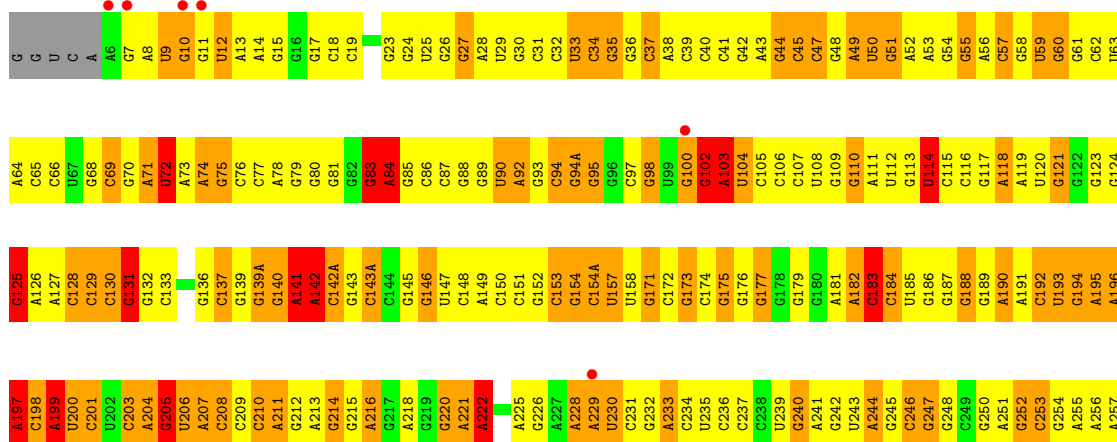


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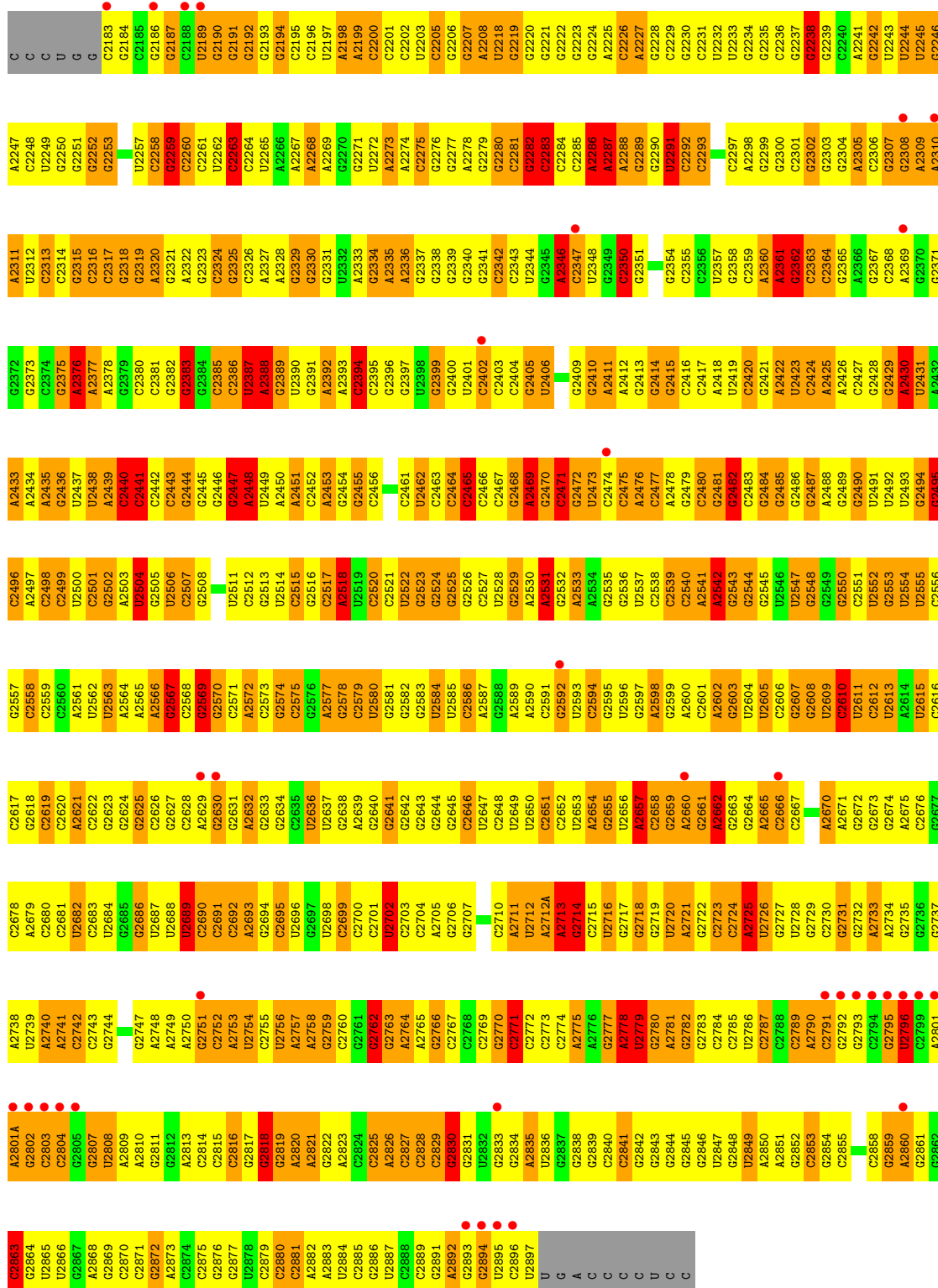


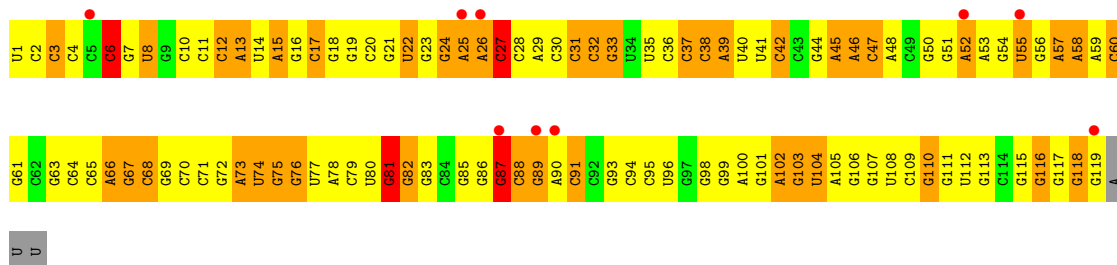
• Molecule 31: 23S ribosomal RNA



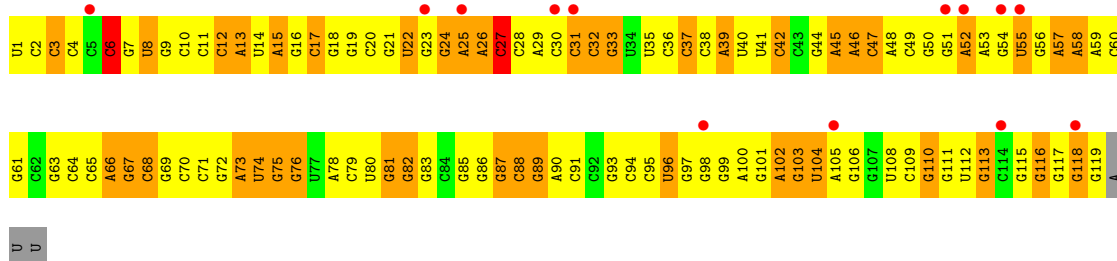
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A1204	A1142A	A1029	C970	A909	A841	A781	U657	U657	G596	G469	G406	G348	C282
U1205	A1143	G1030	C971	G842	G842	A782	A722	A722	U597	A470	G407	G349	C283
G1206	G1144	G1031	G972	A911	C844	A783	G659	G659	G598	A471	G408	U950	A289

G2088	U2028	A1966	C1905	U1834	C1774	A1698	G1638	U1576	A1508	G1447	G1388	G1327	U1267	C1207
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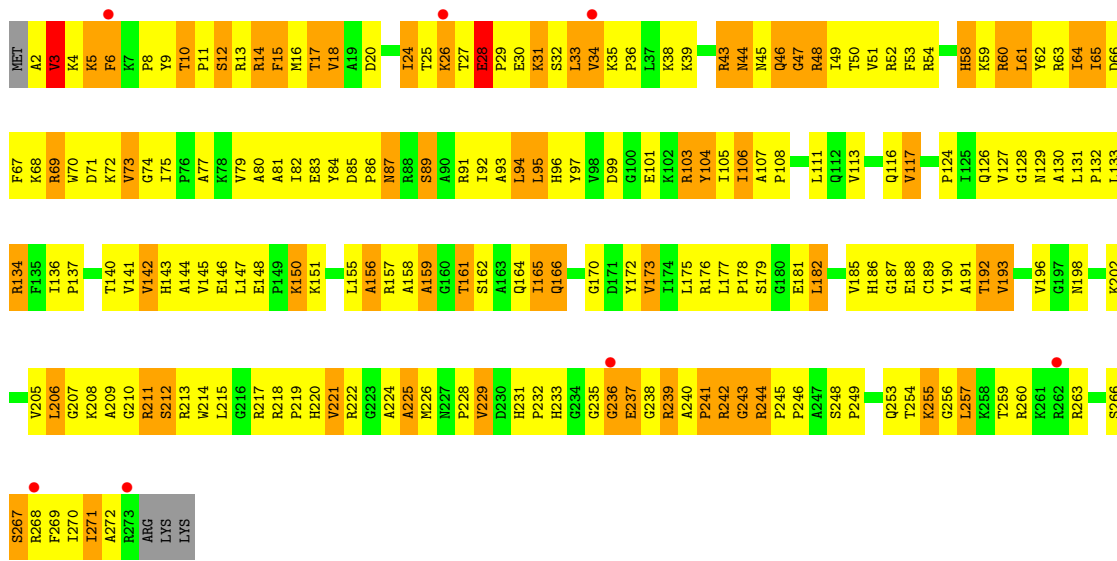




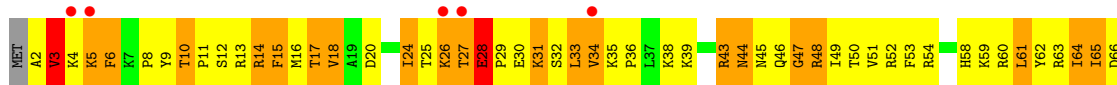
• Molecule 32: 5S ribosomal RNA

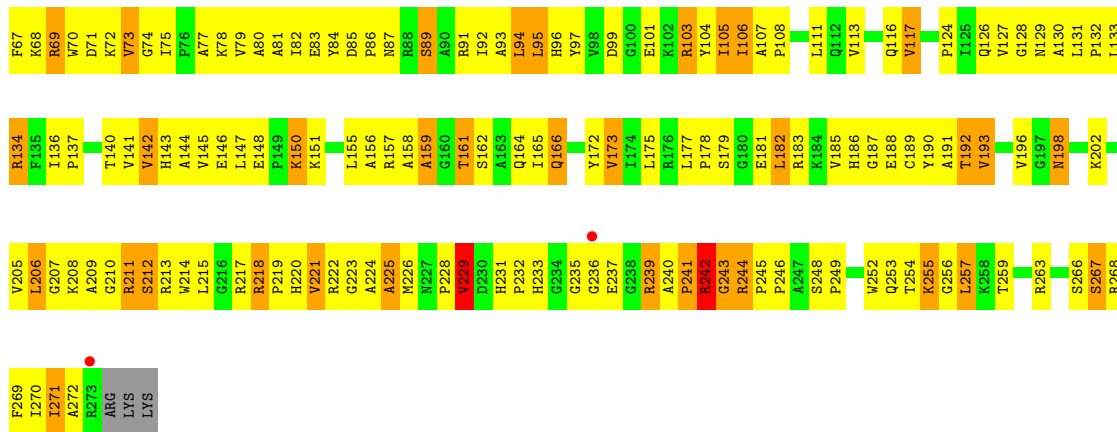


• Molecule 33: 50S ribosomal protein L2

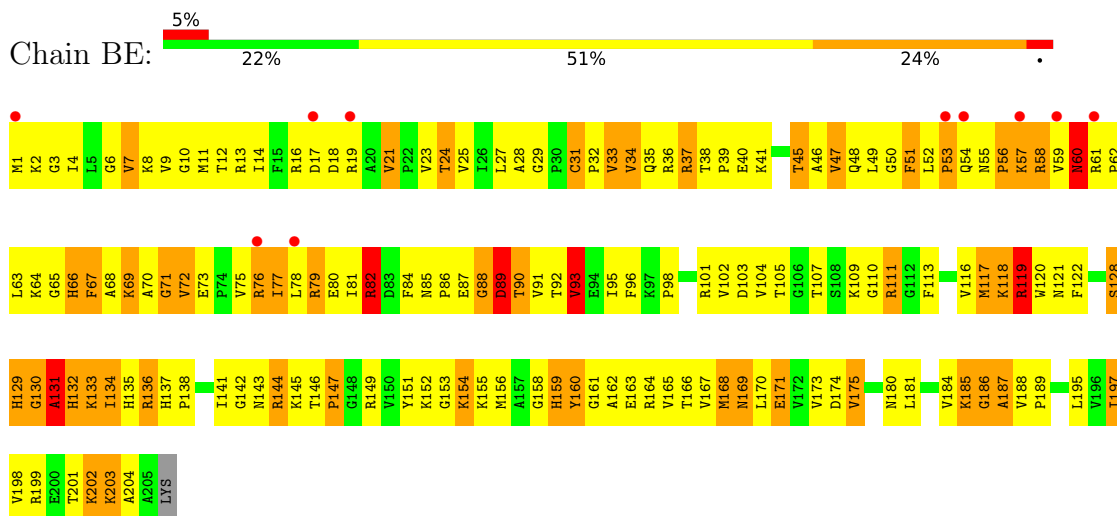


• Molecule 33: 50S ribosomal protein L2

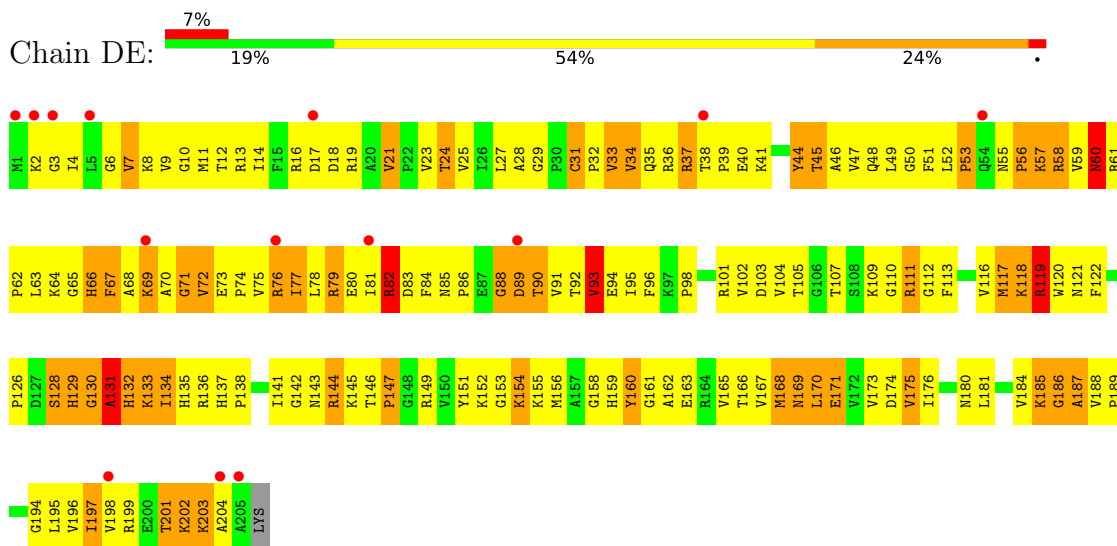




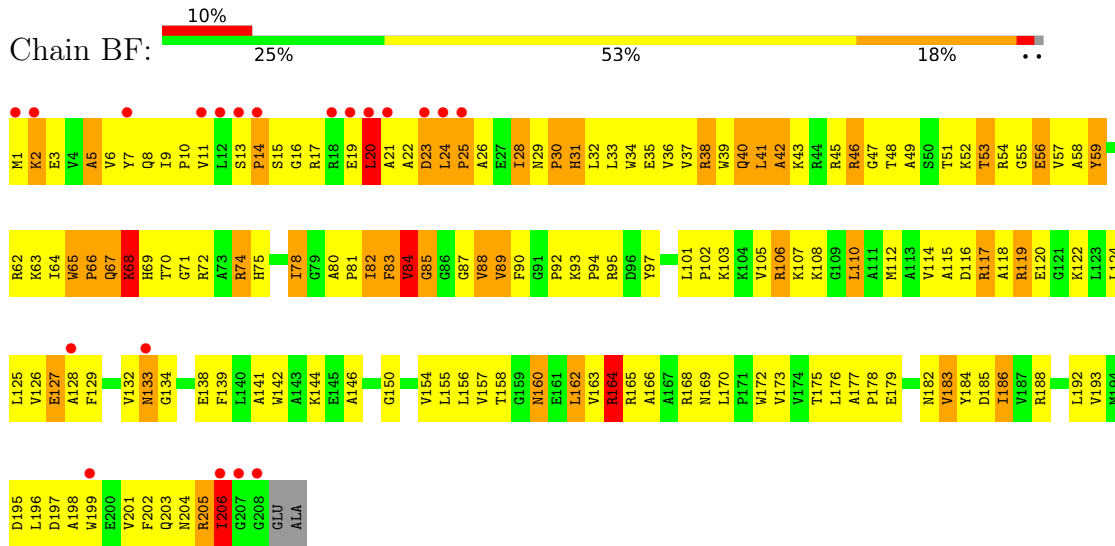
• Molecule 34: 50S ribosomal protein L3



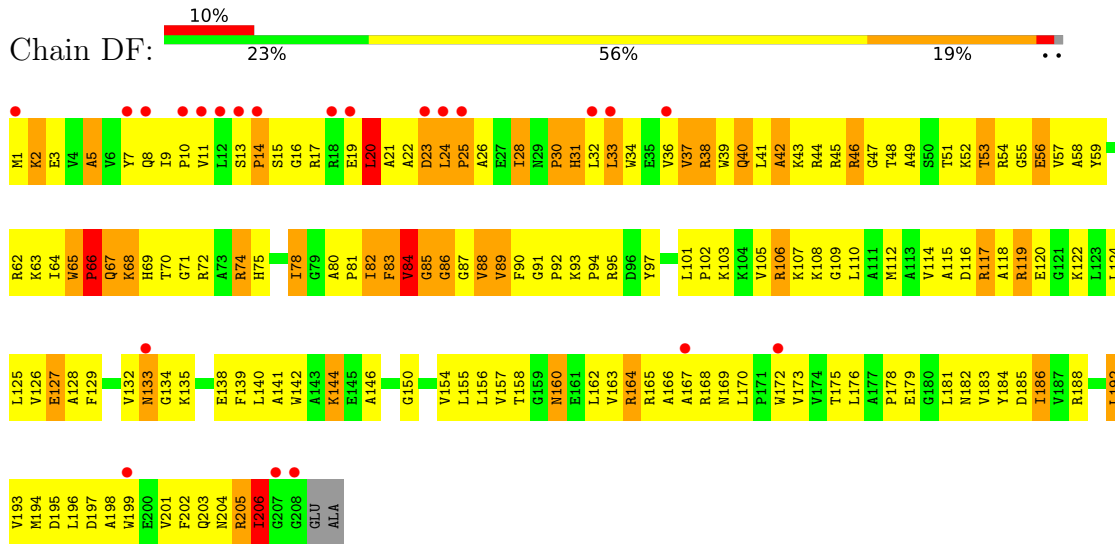
• Molecule 34: 50S ribosomal protein L3



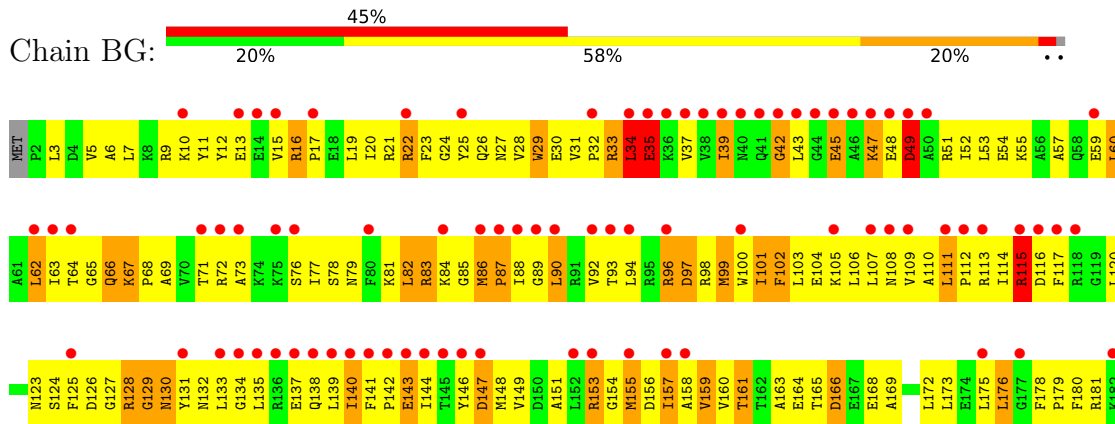
• Molecule 35: 50S ribosomal protein L4



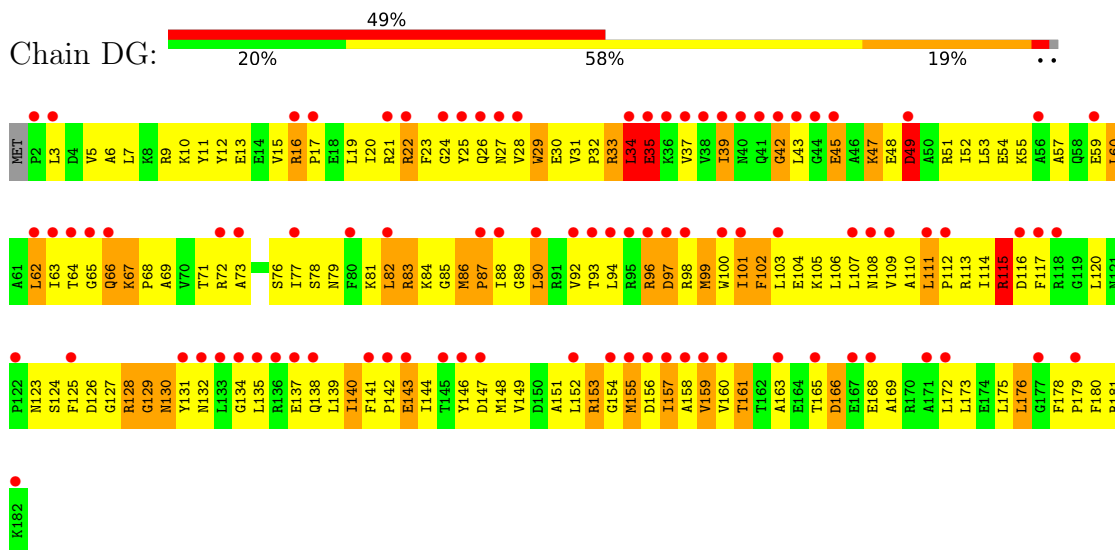
• Molecule 35: 50S ribosomal protein L4



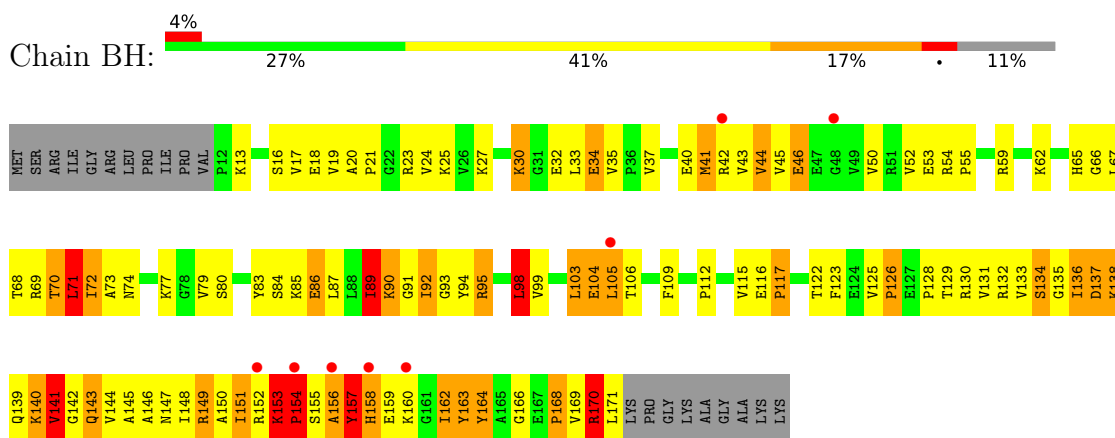
• Molecule 36: 50S ribosomal protein L5



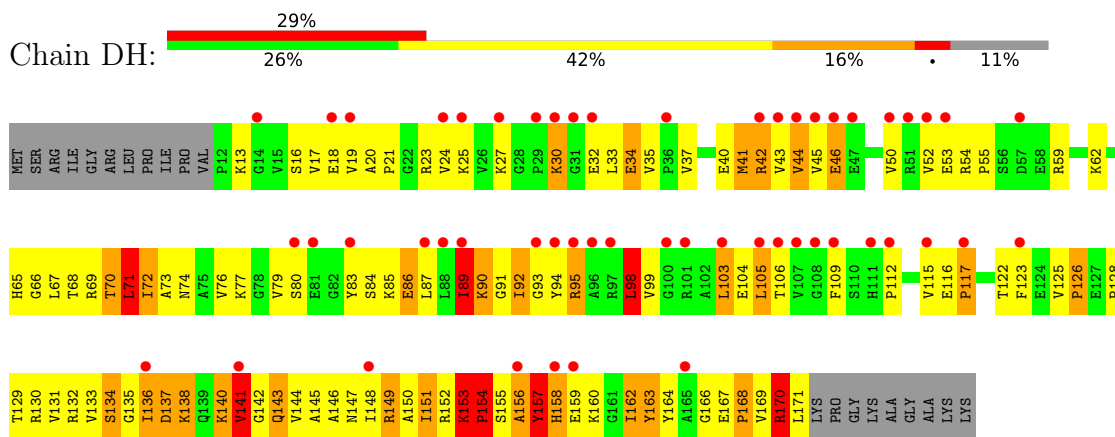
• Molecule 36: 50S ribosomal protein L5



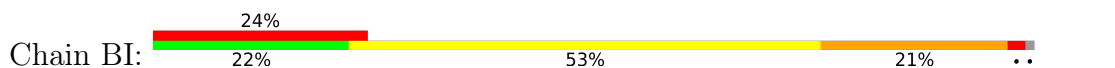
• Molecule 37: 50S ribosomal protein L6

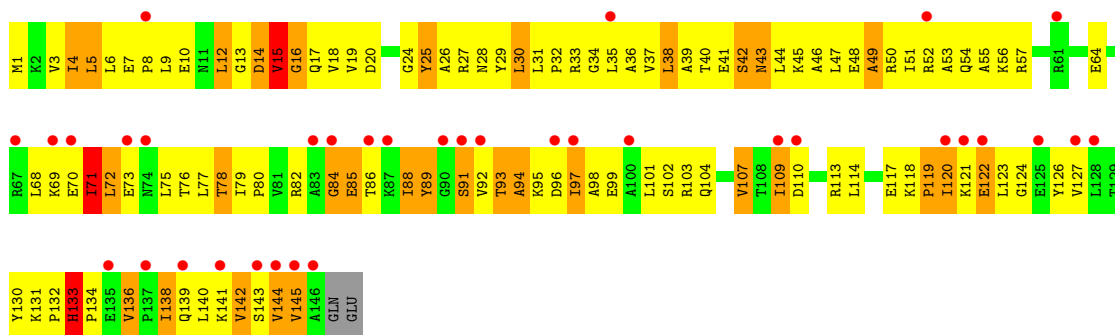


• Molecule 37: 50S ribosomal protein L6

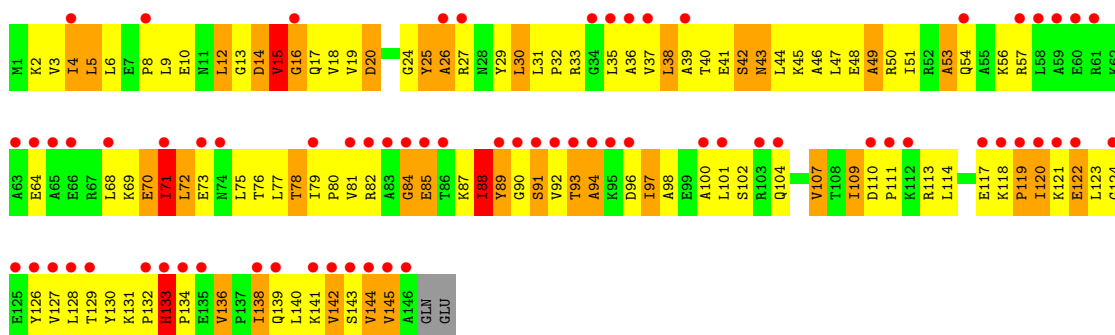


• Molecule 38: 50S ribosomal protein L9

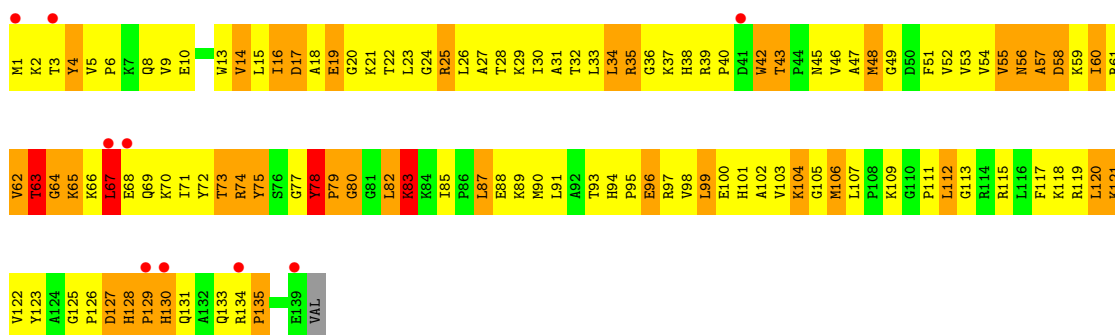
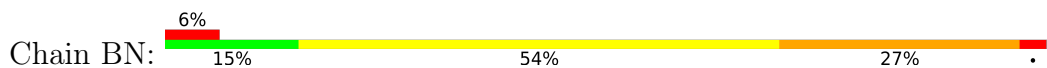




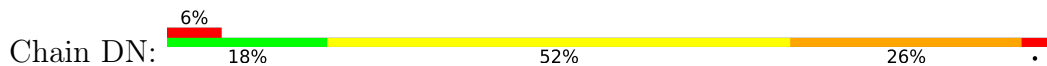
- Molecule 38: 50S ribosomal protein L9

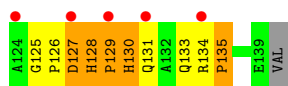


- Molecule 39: 50S ribosomal protein L13

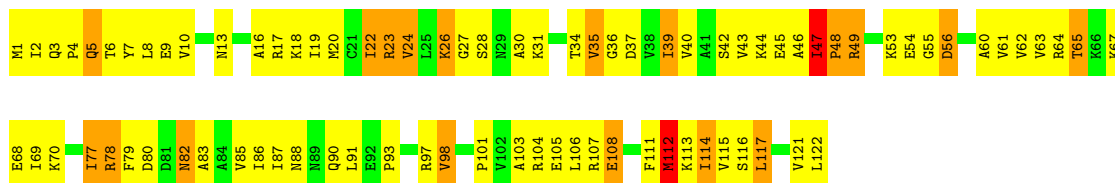
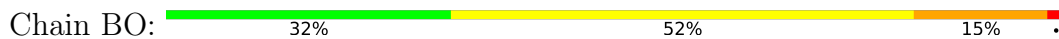


- Molecule 39: 50S ribosomal protein L13

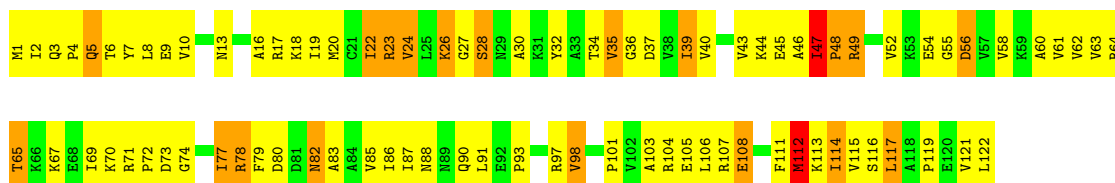




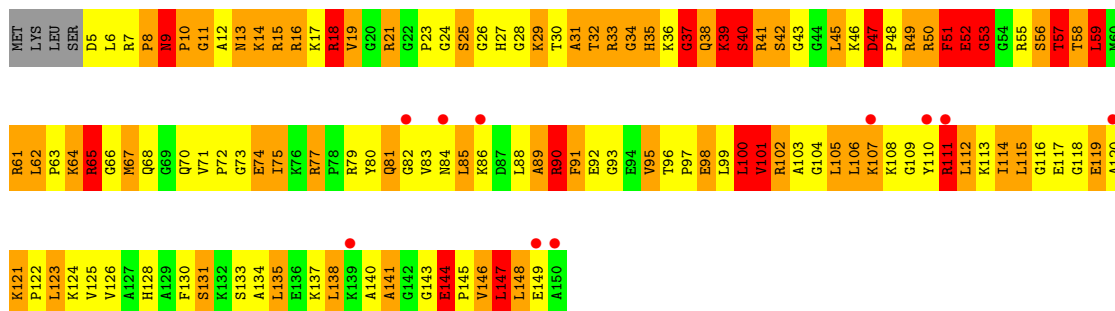
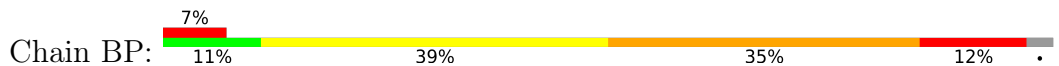
- Molecule 40: 50S ribosomal protein L14



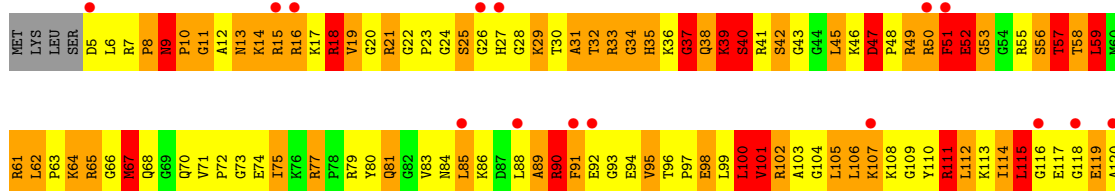
- Molecule 40: 50S ribosomal protein L14

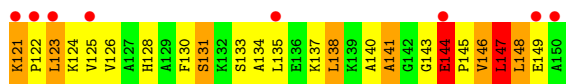


- Molecule 41: 50S ribosomal protein L15

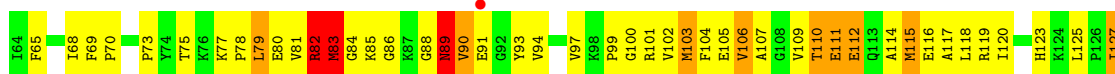
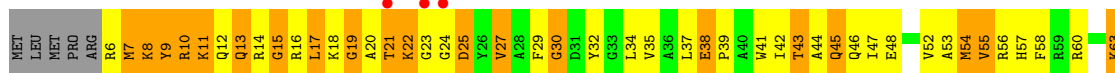


- Molecule 41: 50S ribosomal protein L15

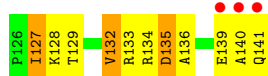
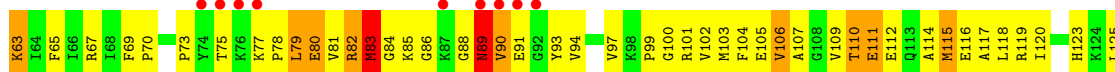
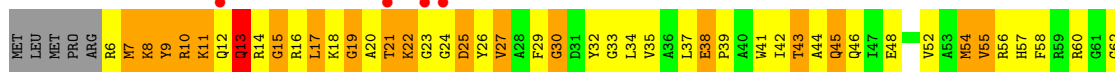
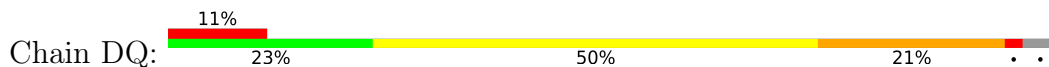




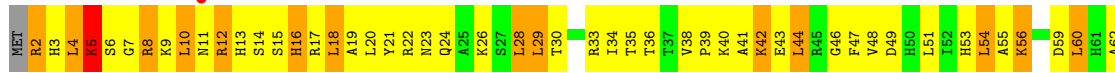
• Molecule 42: 50S ribosomal protein L16



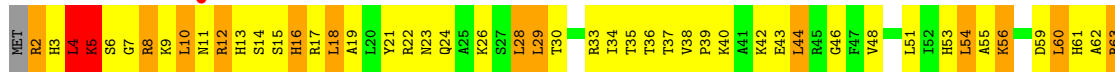
• Molecule 42: 50S ribosomal protein L16

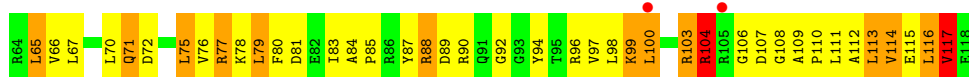


• Molecule 43: 50S ribosomal protein L17

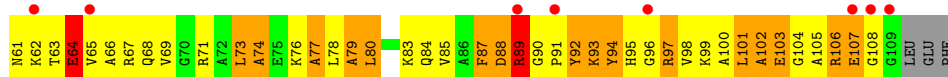
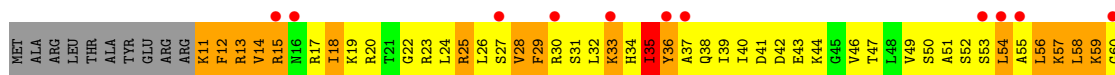


• Molecule 43: 50S ribosomal protein L17

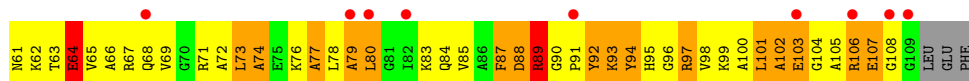
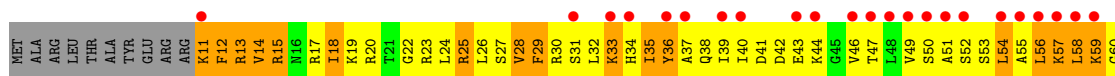




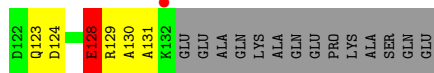
- Molecule 44: 50S ribosomal protein L18



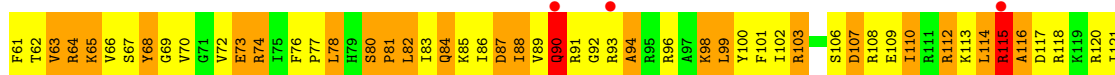
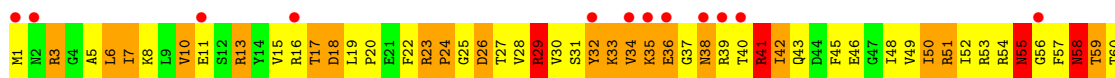
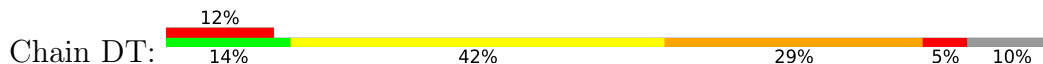
- Molecule 44: 50S ribosomal protein L18

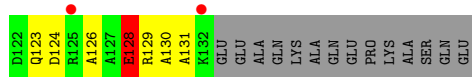


- Molecule 45: 50S ribosomal protein L19

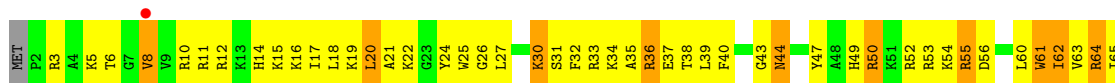


- Molecule 45: 50S ribosomal protein L19

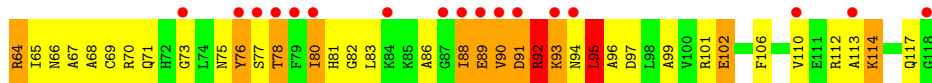
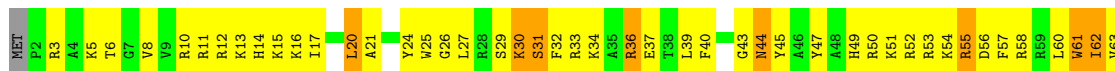
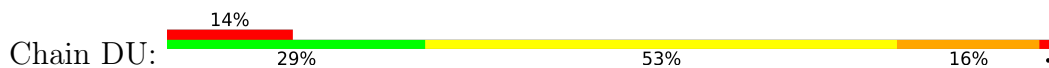




• Molecule 46: 50S ribosomal protein L20



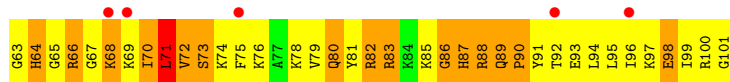
• Molecule 46: 50S ribosomal protein L20



• Molecule 47: 50S ribosomal protein L21

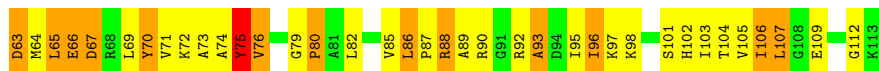


• Molecule 47: 50S ribosomal protein L21



• Molecule 48: 50S ribosomal protein L22

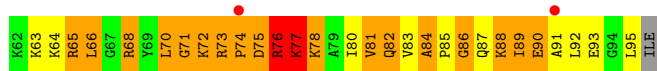
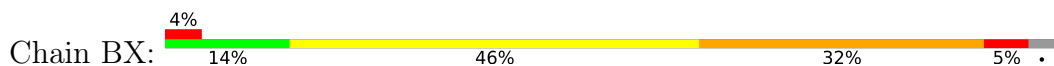




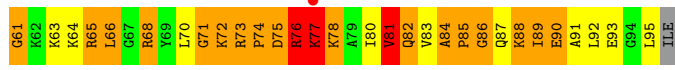
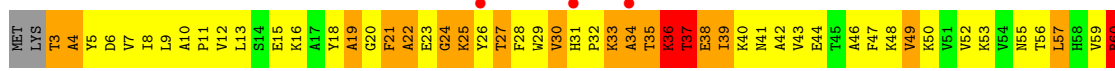
• Molecule 48: 50S ribosomal protein L22



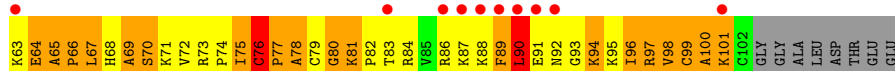
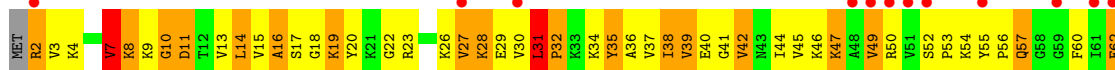
• Molecule 49: 50S ribosomal protein L23



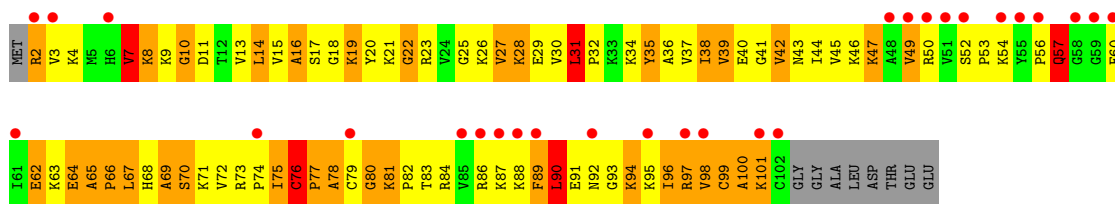
• Molecule 49: 50S ribosomal protein L23



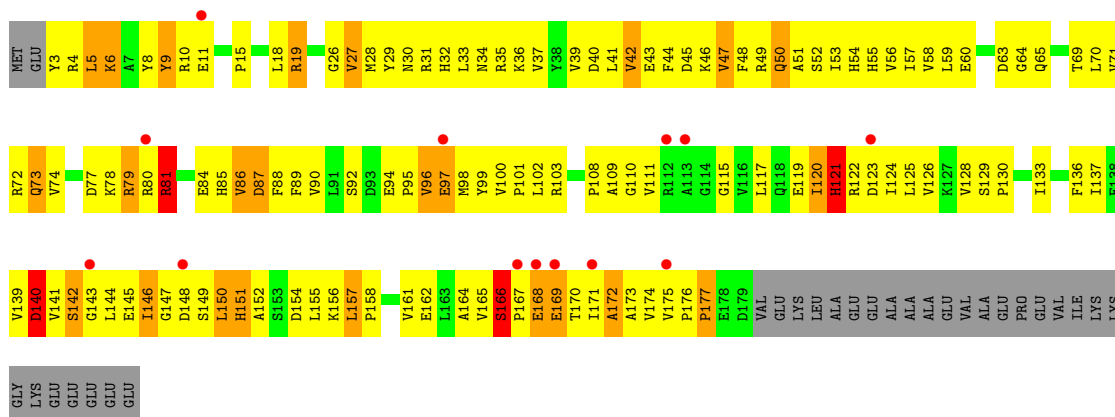
• Molecule 50: 50S ribosomal protein L24



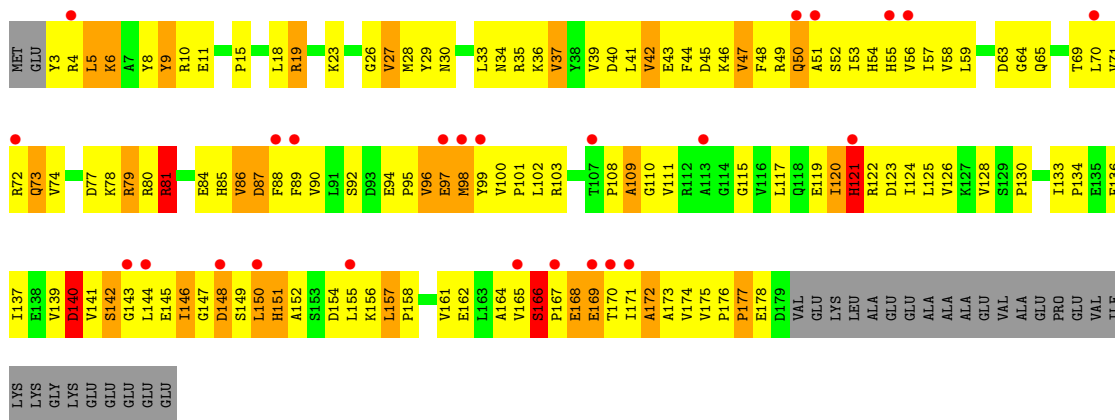
• Molecule 50: 50S ribosomal protein L24



• Molecule 51: 50S ribosomal protein L25



• Molecule 51: 50S ribosomal protein L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	207.32Å 437.99Å 614.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.97 – 3.10 48.97 – 3.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) (48.97-3.10) 91.4 (48.97-3.10)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 3.12Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.246 , 0.284 0.242 , 0.280	Depositor DCC
R_{free} test set	45921 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	88.4	Xtrriage
Anisotropy	0.168	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 97.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	278037	wwPDB-VP
Average B, all atoms (Å ²)	110.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: K, MG, TEL, 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	AA	0.54	2/36190 (0.0%)	0.91	51/56486 (0.1%)
1	CA	0.52	2/36190 (0.0%)	0.92	61/56486 (0.1%)
2	AB	0.28	0/1936	0.49	0/2611
2	CB	0.28	0/1936	0.48	0/2611
3	AC	0.27	0/1637	0.45	0/2207
3	CC	0.27	0/1637	0.44	0/2207
4	AD	0.32	0/1733	0.54	0/2318
4	CD	0.34	0/1733	0.55	0/2318
5	AE	0.36	0/1163	0.55	0/1566
5	CE	0.34	0/1163	0.55	0/1566
6	AF	0.35	0/856	0.57	0/1154
6	CF	0.35	0/856	0.56	0/1154
7	AG	0.26	0/1276	0.43	0/1709
7	CG	0.26	0/1276	0.43	0/1709
8	AH	0.36	0/1136	0.56	0/1527
8	CH	0.35	0/1136	0.56	0/1527
9	AI	0.28	0/1028	0.44	0/1375
9	CI	0.28	0/1028	0.44	0/1375
10	AJ	0.27	0/808	0.48	0/1087
10	CJ	0.27	0/808	0.48	0/1087
11	AK	0.34	0/900	0.55	0/1213
11	CK	0.33	0/900	0.55	0/1213
12	AL	0.40	0/987	0.65	0/1322
12	CL	0.40	0/987	0.66	0/1322
13	AM	0.28	0/928	0.48	0/1238
13	CM	0.28	0/928	0.48	0/1238
14	AN	0.28	0/501	0.46	0/664
14	CN	0.29	0/501	0.46	0/664
15	AO	0.35	0/745	0.55	0/992
15	CO	0.34	0/745	0.54	0/992
16	AP	0.34	0/717	0.55	0/965
16	CP	0.34	0/717	0.56	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.35	0/837	0.56	0/1119
17	CQ	0.35	0/837	0.55	0/1119
18	AR	0.35	0/579	0.57	0/768
18	CR	0.34	0/579	0.57	0/768
19	AS	0.28	0/643	0.45	0/867
19	CS	0.29	0/643	0.45	0/867
20	AT	0.34	0/765	0.53	0/1007
20	CT	0.34	0/765	0.54	0/1007
21	AU	0.26	0/213	0.42	0/279
21	CU	0.28	0/213	0.43	0/279
22	B0	0.60	0/658	0.75	0/878
22	D0	0.54	0/658	0.73	0/878
23	B1	0.69	0/700	0.97	0/931
23	D1	0.61	0/700	0.92	1/931 (0.1%)
24	B2	0.61	0/423	0.92	1/560 (0.2%)
24	D2	0.55	0/423	0.88	1/560 (0.2%)
25	B3	0.62	0/473	0.71	0/636
25	D3	0.45	0/473	0.66	0/636
26	B4	0.26	0/156	0.53	0/215
26	D4	0.28	0/156	0.52	0/215
27	B5	0.83	2/473 (0.4%)	1.04	3/639 (0.5%)
27	D5	0.67	0/473	1.01	3/639 (0.5%)
28	B6	0.73	0/387	0.91	2/517 (0.4%)
28	D6	0.60	0/387	0.85	1/517 (0.2%)
29	B7	0.67	0/427	0.83	0/563
29	D7	0.61	0/427	0.81	0/563
30	B8	0.72	0/516	0.98	1/681 (0.1%)
30	D8	0.61	0/516	0.94	1/681 (0.1%)
31	BA	1.17	111/65745 (0.2%)	1.49	1343/102639 (1.3%)
31	DA	0.89	28/65745 (0.0%)	1.45	1209/102639 (1.2%)
32	BB	0.87	0/2853	1.26	35/4451 (0.8%)
32	DB	0.63	0/2853	1.18	25/4451 (0.6%)
33	BD	0.63	0/2155	0.85	3/2907 (0.1%)
33	DD	0.58	0/2155	0.82	2/2907 (0.1%)
34	BE	0.69	0/1597	0.87	2/2155 (0.1%)
34	DE	0.58	0/1597	0.83	0/2155
35	BF	0.65	2/1659 (0.1%)	0.77	0/2246
35	DF	0.53	1/1659 (0.1%)	0.74	0/2246
36	BG	0.37	0/1498	0.61	1/2013 (0.0%)
36	DG	0.35	0/1498	0.59	1/2013 (0.0%)
37	BH	0.57	0/1246	0.71	0/1684
37	DH	0.41	0/1246	0.66	0/1684
38	BI	0.40	0/1147	0.65	0/1553

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DI	0.43	0/1147	0.66	1/1553 (0.1%)
39	BN	0.71	0/1132	0.83	0/1527
39	DN	0.56	0/1132	0.76	0/1527
40	BO	0.62	0/943	0.74	0/1269
40	DO	0.53	0/943	0.73	0/1269
41	BP	0.65	0/1131	0.98	5/1504 (0.3%)
41	DP	0.56	0/1131	0.94	4/1504 (0.3%)
42	BQ	0.66	0/1100	0.80	1/1470 (0.1%)
42	DQ	0.55	0/1100	0.74	0/1470
43	BR	0.69	0/974	0.82	1/1302 (0.1%)
43	DR	0.57	0/974	0.80	2/1302 (0.2%)
44	BS	0.52	0/779	0.75	0/1038
44	DS	0.43	0/779	0.72	0/1038
45	BT	0.58	0/1114	0.82	0/1488
45	DT	0.52	0/1114	0.79	0/1488
46	BU	0.70	0/975	0.80	2/1297 (0.2%)
46	DU	0.56	0/975	0.74	1/1297 (0.1%)
47	BV	0.69	0/789	0.89	0/1054
47	DV	0.54	0/789	0.84	1/1054 (0.1%)
48	BW	0.76	0/907	0.91	1/1216 (0.1%)
48	DW	0.61	0/907	0.88	0/1216
49	BX	0.72	0/740	0.92	0/995
49	DX	0.63	0/740	0.90	0/995
50	BY	0.65	0/789	0.86	0/1053
50	DY	0.53	0/789	0.81	0/1053
51	BZ	0.46	0/1436	0.62	1/1951 (0.1%)
51	DZ	0.40	0/1436	0.61	1/1951 (0.1%)
All	All	0.79	148/301000 (0.0%)	1.17	2768/449812 (0.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	CA	1	0
22	B0	0	1
22	D0	0	1
23	B1	0	1
23	D1	0	1
24	B2	0	1
24	D2	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
27	B5	0	1
27	D5	0	1
31	BA	18	0
31	DA	18	0
33	BD	0	4
33	DD	0	2
34	BE	0	2
34	DE	0	2
37	BH	0	1
37	DH	0	1
41	BP	0	5
41	DP	0	3
42	BQ	0	1
42	DQ	0	1
43	BR	0	1
43	DR	0	1
45	BT	0	1
45	DT	0	1
47	BV	0	1
47	DV	0	2
49	BX	0	2
49	DX	0	3
All	All	37	42

The worst 5 of 148 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	1142(A)	A	N9-C4	-11.15	1.31	1.37
31	BA	783	A	N9-C4	-10.64	1.31	1.37
31	BA	669	G	C4'-C3'	-10.15	1.42	1.53
31	BA	774	A	N9-C4	-9.61	1.32	1.37
31	DA	1142(A)	A	N9-C4	-9.23	1.32	1.37

The worst 5 of 2768 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	55	A	C8-N9-C4	-18.55	98.38	105.80
1	AA	55	A	N7-C8-N9	17.45	122.53	113.80
31	BA	1332	G	N3-C4-C5	16.73	136.96	128.60
31	BA	1332	G	N3-C4-N9	-16.73	115.96	126.00
31	BA	814	C	C6-N1-C2	15.82	126.63	120.30

5 of 37 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
31	BA	472	A	C3'
31	BA	669	G	C4',C3',C1'
31	BA	945	A	C1'
31	BA	1300	U	C4',C3'
31	BA	1379	A	C1'

5 of 42 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
22	B0	11	ARG	Peptide
23	B1	30	VAL	Peptide
24	B2	54	LYS	Peptide
27	B5	51	TYR	Peptide
33	BD	47	GLY	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	2214	12
1	CA	32329	0	16318	2202	2
2	AB	1901	0	1951	203	0
2	CB	1901	0	1951	204	0
3	AC	1613	0	1677	143	0
3	CC	1613	0	1677	145	0
4	AD	1703	0	1763	229	0
4	CD	1703	0	1764	232	0
5	AE	1147	0	1207	126	0
5	CE	1147	0	1207	145	0
6	AF	843	0	857	116	0
6	CF	843	0	857	125	0
7	AG	1257	0	1296	77	0
7	CG	1257	0	1296	81	0
8	AH	1116	0	1177	144	0
8	CH	1116	0	1177	137	0
9	AI	1011	0	1042	112	0
9	CI	1011	0	1042	107	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	AJ	795	0	840	102	0
10	CJ	795	0	840	105	0
11	AK	885	0	904	109	0
11	CK	885	0	904	116	0
12	AL	971	0	1057	136	0
12	CL	971	0	1057	131	0
13	AM	921	0	976	97	0
13	CM	921	0	976	91	0
14	AN	492	0	532	46	0
14	CN	492	0	529	49	0
15	AO	734	0	771	81	0
15	CO	734	0	771	79	0
16	AP	701	0	720	103	0
16	CP	701	0	720	110	0
17	AQ	824	0	891	81	0
17	CQ	824	0	891	78	0
18	AR	574	0	644	86	0
18	CR	574	0	644	86	0
19	AS	630	0	652	53	0
19	CS	630	0	652	50	0
20	AT	763	0	861	93	0
20	CT	763	0	861	94	0
21	AU	209	0	221	14	0
21	CU	209	0	221	12	0
22	B0	650	0	654	90	0
22	D0	650	0	654	95	0
23	B1	693	0	764	149	0
23	D1	693	0	764	156	0
24	B2	421	0	461	141	0
24	D2	421	0	461	136	0
25	B3	468	0	523	47	0
25	D3	468	0	523	70	0
26	B4	157	0	69	7	0
26	D4	157	0	69	8	0
27	B5	459	0	480	100	0
27	D5	459	0	480	100	0
28	B6	381	0	390	102	0
28	D6	381	0	390	95	0
29	B7	419	0	467	54	0
29	D7	419	0	467	57	0
30	B8	508	0	576	156	0
30	D8	508	0	576	151	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	BA	58698	0	29589	4119	0
31	DA	58698	0	29591	4387	0
32	BB	2551	0	1295	239	0
32	DB	2551	0	1295	231	0
33	BD	2105	0	2182	402	0
33	DD	2105	0	2182	406	0
34	BE	1564	0	1629	278	0
34	DE	1564	0	1629	278	0
35	BF	1624	0	1677	214	0
35	DF	1624	0	1677	209	0
36	BG	1474	0	1534	220	0
36	DG	1474	0	1534	223	0
37	BH	1223	0	1282	170	0
37	DH	1223	0	1282	162	0
38	BI	1132	0	1218	167	2
38	DI	1132	0	1218	158	12
39	BN	1105	0	1180	231	0
39	DN	1105	0	1180	231	0
40	BO	933	0	996	138	0
40	DO	933	0	996	133	0
41	BP	1114	0	1187	372	0
41	DP	1114	0	1187	345	0
42	BQ	1080	0	1127	195	0
42	DQ	1080	0	1127	195	0
43	BR	960	0	1021	136	0
43	DR	960	0	1021	146	0
44	BS	771	0	832	166	0
44	DS	771	0	832	172	0
45	BT	1100	0	1164	210	0
45	DT	1100	0	1164	213	0
46	BU	958	0	1015	171	0
46	DU	958	0	1015	177	0
47	BV	779	0	851	265	0
47	DV	779	0	851	258	0
48	BW	896	0	953	110	0
48	DW	896	0	953	128	0
49	BX	726	0	778	203	0
49	DX	726	0	777	199	0
50	BY	776	0	870	193	0
50	DY	776	0	870	191	0
51	BZ	1404	0	1432	190	0
51	DZ	1404	0	1432	196	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	AA	52	0	0	0	0
52	B0	1	0	0	0	0
52	B1	1	0	0	0	0
52	B5	2	0	0	0	0
52	B7	1	0	0	0	0
52	BA	360	0	0	0	0
52	BB	7	0	0	0	0
52	BD	2	0	0	0	0
52	BF	1	0	0	0	0
52	BP	3	0	0	0	0
52	BQ	2	0	0	0	0
52	BR	1	0	0	0	0
52	BU	1	0	0	0	0
52	BX	1	0	0	0	0
52	CA	50	0	0	0	0
52	D5	1	0	0	0	0
52	D7	1	0	0	0	0
52	D8	1	0	0	0	0
52	DA	318	0	0	0	0
52	DB	3	0	0	0	0
52	DD	2	0	0	0	0
52	DE	1	0	0	0	0
52	DF	1	0	0	0	0
52	DP	1	0	0	0	0
52	DQ	1	0	0	0	0
52	DR	2	0	0	0	0
52	DU	1	0	0	0	0
52	DX	1	0	0	0	0
53	AD	1	0	0	0	0
53	AN	1	0	0	0	0
53	CD	1	0	0	0	0
53	CN	1	0	0	0	0
54	BA	1	0	0	0	0
54	DA	1	0	0	0	0
55	BA	58	0	65	32	0
55	DA	58	0	65	34	0
All	All	278037	0	189235	24925	14

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 54.

The worst 5 of 24925 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:921:U:H1'	1:CA:922:G:C4	1.55	1.40
55:DA:3320:TEL:C14	55:DA:3320:TEL:H11	1.64	1.28
55:BA:3362:TEL:C14	55:BA:3362:TEL:H11	1.64	1.24
33:BD:35:LYS:HD2	33:BD:104:TYR:CD1	1.73	1.22
26:B4:13:ARG:HA	36:BG:101:ILE:HG13	1.22	1.19

The worst 5 of 14 symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:358:U:OP2	38:DI:90:GLY:N[2_655]	1.80	0.40
1:AA:55:A:C8	38:DI:82:ARG:NE[2_655]	1.98	0.22
1:AA:55:A:O4'	38:DI:82:ARG:NE[2_655]	1.98	0.22
1:AA:358:U:O4'	38:DI:89:TYR:CD1[2_655]	1.99	0.21
1:AA:359:U:O5'	38:DI:87:LYS:O[2_655]	1.99	0.21

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	168 (72%)	49 (21%)	16 (7%)	1	7
2	CB	233/256 (91%)	169 (72%)	48 (21%)	16 (7%)	1	7
3	AC	205/239 (86%)	152 (74%)	40 (20%)	13 (6%)	1	8
3	CC	205/239 (86%)	153 (75%)	40 (20%)	12 (6%)	1	10
4	AD	206/209 (99%)	131 (64%)	49 (24%)	26 (13%)	0	1
4	CD	206/209 (99%)	130 (63%)	48 (23%)	28 (14%)	0	1
5	AE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	3
5	CE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	3
6	AF	99/101 (98%)	69 (70%)	18 (18%)	12 (12%)	0	1
6	CF	99/101 (98%)	66 (67%)	20 (20%)	13 (13%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	AG	153/156 (98%)	126 (82%)	22 (14%)	5 (3%)	4	21
7	CG	153/156 (98%)	127 (83%)	21 (14%)	5 (3%)	4	21
8	AH	136/138 (99%)	100 (74%)	26 (19%)	10 (7%)	1	6
8	CH	136/138 (99%)	99 (73%)	28 (21%)	9 (7%)	1	7
9	AI	123/128 (96%)	85 (69%)	27 (22%)	11 (9%)	1	4
9	CI	123/128 (96%)	86 (70%)	26 (21%)	11 (9%)	1	4
10	AJ	97/105 (92%)	75 (77%)	19 (20%)	3 (3%)	4	23
10	CJ	97/105 (92%)	76 (78%)	18 (19%)	3 (3%)	4	23
11	AK	117/129 (91%)	87 (74%)	22 (19%)	8 (7%)	1	7
11	CK	117/129 (91%)	86 (74%)	23 (20%)	8 (7%)	1	7
12	AL	123/135 (91%)	76 (62%)	26 (21%)	21 (17%)	0	0
12	CL	123/135 (91%)	77 (63%)	24 (20%)	22 (18%)	0	0
13	AM	107/126 (85%)	75 (70%)	26 (24%)	6 (6%)	2	11
13	CM	107/126 (85%)	74 (69%)	27 (25%)	6 (6%)	2	11
14	AN	58/61 (95%)	48 (83%)	5 (9%)	5 (9%)	1	4
14	CN	58/61 (95%)	48 (83%)	5 (9%)	5 (9%)	1	4
15	AO	86/89 (97%)	56 (65%)	21 (24%)	9 (10%)	0	3
15	CO	86/89 (97%)	56 (65%)	21 (24%)	9 (10%)	0	3
16	AP	82/88 (93%)	48 (58%)	21 (26%)	13 (16%)	0	0
16	CP	82/88 (93%)	48 (58%)	21 (26%)	13 (16%)	0	0
17	AQ	98/105 (93%)	76 (78%)	17 (17%)	5 (5%)	2	13
17	CQ	98/105 (93%)	76 (78%)	17 (17%)	5 (5%)	2	13
18	AR	68/88 (77%)	43 (63%)	20 (29%)	5 (7%)	1	6
18	CR	68/88 (77%)	42 (62%)	19 (28%)	7 (10%)	0	3
19	AS	77/93 (83%)	56 (73%)	15 (20%)	6 (8%)	1	5
19	CS	77/93 (83%)	56 (73%)	15 (20%)	6 (8%)	1	5
20	AT	97/106 (92%)	58 (60%)	24 (25%)	15 (16%)	0	0
20	CT	97/106 (92%)	53 (55%)	29 (30%)	15 (16%)	0	0
21	AU	23/27 (85%)	19 (83%)	3 (13%)	1 (4%)	2	16
21	CU	23/27 (85%)	19 (83%)	3 (13%)	1 (4%)	2	16
22	B0	83/85 (98%)	67 (81%)	9 (11%)	7 (8%)	1	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	D0	83/85 (98%)	62 (75%)	14 (17%)	7 (8%)	1	5
23	B1	87/98 (89%)	43 (49%)	27 (31%)	17 (20%)	0	0
23	D1	87/98 (89%)	44 (51%)	26 (30%)	17 (20%)	0	0
24	B2	49/72 (68%)	25 (51%)	14 (29%)	10 (20%)	0	0
24	D2	49/72 (68%)	26 (53%)	13 (26%)	10 (20%)	0	0
25	B3	58/60 (97%)	48 (83%)	9 (16%)	1 (2%)	9	36
25	D3	58/60 (97%)	44 (76%)	13 (22%)	1 (2%)	9	36
26	B4	30/71 (42%)	7 (23%)	11 (37%)	12 (40%)	0	0
26	D4	30/71 (42%)	6 (20%)	11 (37%)	13 (43%)	0	0
27	B5	57/60 (95%)	37 (65%)	8 (14%)	12 (21%)	0	0
27	D5	57/60 (95%)	36 (63%)	8 (14%)	13 (23%)	0	0
28	B6	41/54 (76%)	19 (46%)	10 (24%)	12 (29%)	0	0
28	D6	41/54 (76%)	18 (44%)	11 (27%)	12 (29%)	0	0
29	B7	47/49 (96%)	44 (94%)	2 (4%)	1 (2%)	7	30
29	D7	47/49 (96%)	45 (96%)	1 (2%)	1 (2%)	7	30
30	B8	62/65 (95%)	37 (60%)	15 (24%)	10 (16%)	0	0
30	D8	62/65 (95%)	38 (61%)	13 (21%)	11 (18%)	0	0
33	BD	270/276 (98%)	203 (75%)	50 (18%)	17 (6%)	1	8
33	DD	270/276 (98%)	202 (75%)	52 (19%)	16 (6%)	1	10
34	BE	203/206 (98%)	133 (66%)	43 (21%)	27 (13%)	0	1
34	DE	203/206 (98%)	136 (67%)	39 (19%)	28 (14%)	0	1
35	BF	206/210 (98%)	138 (67%)	44 (21%)	24 (12%)	0	1
35	DF	206/210 (98%)	137 (66%)	45 (22%)	24 (12%)	0	1
36	BG	177/182 (97%)	110 (62%)	46 (26%)	21 (12%)	0	1
36	DG	177/182 (97%)	109 (62%)	47 (27%)	21 (12%)	0	1
37	BH	158/180 (88%)	98 (62%)	38 (24%)	22 (14%)	0	1
37	DH	158/180 (88%)	97 (61%)	37 (23%)	24 (15%)	0	0
38	BI	144/148 (97%)	86 (60%)	36 (25%)	22 (15%)	0	0
38	DI	144/148 (97%)	83 (58%)	38 (26%)	23 (16%)	0	0
39	BN	137/140 (98%)	93 (68%)	29 (21%)	15 (11%)	0	2
39	DN	137/140 (98%)	97 (71%)	25 (18%)	15 (11%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	BO	120/122 (98%)	96 (80%)	19 (16%)	5 (4%)	3	16
40	DO	120/122 (98%)	98 (82%)	17 (14%)	5 (4%)	3	16
41	BP	144/150 (96%)	72 (50%)	31 (22%)	41 (28%)	0	0
41	DP	144/150 (96%)	72 (50%)	29 (20%)	43 (30%)	0	0
42	BQ	134/141 (95%)	92 (69%)	29 (22%)	13 (10%)	0	3
42	DQ	134/141 (95%)	91 (68%)	29 (22%)	14 (10%)	0	3
43	BR	115/118 (98%)	70 (61%)	34 (30%)	11 (10%)	0	3
43	DR	115/118 (98%)	71 (62%)	34 (30%)	10 (9%)	1	4
44	BS	97/112 (87%)	43 (44%)	26 (27%)	28 (29%)	0	0
44	DS	97/112 (87%)	41 (42%)	29 (30%)	27 (28%)	0	0
45	BT	130/146 (89%)	80 (62%)	25 (19%)	25 (19%)	0	0
45	DT	130/146 (89%)	80 (62%)	26 (20%)	24 (18%)	0	0
46	BU	115/118 (98%)	78 (68%)	29 (25%)	8 (7%)	1	7
46	DU	115/118 (98%)	82 (71%)	24 (21%)	9 (8%)	1	5
47	BV	97/101 (96%)	49 (50%)	24 (25%)	24 (25%)	0	0
47	DV	97/101 (96%)	47 (48%)	25 (26%)	25 (26%)	0	0
48	BW	111/113 (98%)	81 (73%)	11 (10%)	19 (17%)	0	0
48	DW	111/113 (98%)	78 (70%)	15 (14%)	18 (16%)	0	0
49	BX	91/96 (95%)	45 (50%)	22 (24%)	24 (26%)	0	0
49	DX	91/96 (95%)	45 (50%)	21 (23%)	25 (28%)	0	0
50	BY	99/110 (90%)	41 (41%)	25 (25%)	33 (33%)	0	0
50	DY	99/110 (90%)	41 (41%)	27 (27%)	31 (31%)	0	0
51	BZ	175/206 (85%)	117 (67%)	41 (23%)	17 (10%)	0	3
51	DZ	175/206 (85%)	116 (66%)	41 (23%)	18 (10%)	0	3
All	All	11148/12060 (92%)	7385 (66%)	2386 (21%)	1377 (12%)	0	1

5 of 1377 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	34	ALA
2	AB	165	VAL
2	AB	194	PRO
3	AC	54	ARG

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	182 (90%)	20 (10%)	8	29
2	CB	202/220 (92%)	183 (91%)	19 (9%)	8	32
3	AC	160/188 (85%)	154 (96%)	6 (4%)	33	66
3	CC	160/188 (85%)	154 (96%)	6 (4%)	33	66
4	AD	180/181 (99%)	157 (87%)	23 (13%)	4	18
4	CD	180/181 (99%)	156 (87%)	24 (13%)	4	16
5	AE	115/123 (94%)	101 (88%)	14 (12%)	5	19
5	CE	115/123 (94%)	101 (88%)	14 (12%)	5	19
6	AF	90/90 (100%)	80 (89%)	10 (11%)	6	24
6	CF	90/90 (100%)	80 (89%)	10 (11%)	6	24
7	AG	126/127 (99%)	120 (95%)	6 (5%)	25	58
7	CG	126/127 (99%)	120 (95%)	6 (5%)	25	58
8	AH	119/119 (100%)	104 (87%)	15 (13%)	4	18
8	CH	119/119 (100%)	105 (88%)	14 (12%)	5	21
9	AI	98/99 (99%)	87 (89%)	11 (11%)	6	24
9	CI	98/99 (99%)	88 (90%)	10 (10%)	7	27
10	AJ	88/92 (96%)	75 (85%)	13 (15%)	3	13
10	CJ	88/92 (96%)	76 (86%)	12 (14%)	3	16
11	AK	90/99 (91%)	83 (92%)	7 (8%)	12	40
11	CK	90/99 (91%)	83 (92%)	7 (8%)	12	40
12	AL	104/111 (94%)	94 (90%)	10 (10%)	8	31
12	CL	104/111 (94%)	94 (90%)	10 (10%)	8	31
13	AM	93/101 (92%)	85 (91%)	8 (9%)	10	37
13	CM	93/101 (92%)	85 (91%)	8 (9%)	10	37
14	AN	49/50 (98%)	46 (94%)	3 (6%)	18	49
14	CN	49/50 (98%)	46 (94%)	3 (6%)	18	49

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	AO	79/80 (99%)	71 (90%)	8 (10%)	7	28
15	CO	79/80 (99%)	71 (90%)	8 (10%)	7	28
16	AP	72/74 (97%)	61 (85%)	11 (15%)	2	12
16	CP	72/74 (97%)	61 (85%)	11 (15%)	2	12
17	AQ	94/97 (97%)	86 (92%)	8 (8%)	10	37
17	CQ	94/97 (97%)	86 (92%)	8 (8%)	10	37
18	AR	61/77 (79%)	55 (90%)	6 (10%)	8	29
18	CR	61/77 (79%)	55 (90%)	6 (10%)	8	29
19	AS	69/80 (86%)	60 (87%)	9 (13%)	4	18
19	CS	69/80 (86%)	60 (87%)	9 (13%)	4	18
20	AT	76/82 (93%)	65 (86%)	11 (14%)	3	13
20	CT	76/82 (93%)	64 (84%)	12 (16%)	2	11
21	AU	19/22 (86%)	19 (100%)	0	100	100
21	CU	19/22 (86%)	19 (100%)	0	100	100
22	B0	61/67 (91%)	48 (79%)	13 (21%)	1	4
22	D0	61/67 (91%)	48 (79%)	13 (21%)	1	4
23	B1	73/83 (88%)	51 (70%)	22 (30%)	0	0
23	D1	73/83 (88%)	53 (73%)	20 (27%)	0	1
24	B2	46/67 (69%)	28 (61%)	18 (39%)	0	0
24	D2	46/67 (69%)	28 (61%)	18 (39%)	0	0
25	B3	51/52 (98%)	41 (80%)	10 (20%)	1	6
25	D3	51/52 (98%)	42 (82%)	9 (18%)	2	8
27	B5	51/52 (98%)	39 (76%)	12 (24%)	1	3
27	D5	51/52 (98%)	41 (80%)	10 (20%)	1	6
28	B6	43/52 (83%)	27 (63%)	16 (37%)	0	0
28	D6	43/52 (83%)	28 (65%)	15 (35%)	0	0
29	B7	41/42 (98%)	32 (78%)	9 (22%)	1	4
29	D7	41/42 (98%)	31 (76%)	10 (24%)	0	2
30	B8	53/55 (96%)	36 (68%)	17 (32%)	0	0
30	D8	53/55 (96%)	35 (66%)	18 (34%)	0	0
33	BD	213/218 (98%)	160 (75%)	53 (25%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
33	DD	213/218 (98%)	157 (74%)	56 (26%)	0	1
34	BE	165/166 (99%)	127 (77%)	38 (23%)	1	3
34	DE	165/166 (99%)	126 (76%)	39 (24%)	1	2
35	BF	165/166 (99%)	130 (79%)	35 (21%)	1	5
35	DF	165/166 (99%)	132 (80%)	33 (20%)	1	5
36	BG	155/156 (99%)	126 (81%)	29 (19%)	1	7
36	DG	155/156 (99%)	126 (81%)	29 (19%)	1	7
37	BH	132/148 (89%)	105 (80%)	27 (20%)	1	5
37	DH	132/148 (89%)	107 (81%)	25 (19%)	1	6
38	BI	122/124 (98%)	99 (81%)	23 (19%)	1	6
38	DI	122/124 (98%)	100 (82%)	22 (18%)	1	7
39	BN	117/119 (98%)	80 (68%)	37 (32%)	0	0
39	DN	117/119 (98%)	81 (69%)	36 (31%)	0	0
40	BO	100/100 (100%)	82 (82%)	18 (18%)	1	7
40	DO	100/100 (100%)	80 (80%)	20 (20%)	1	5
41	BP	112/116 (97%)	67 (60%)	45 (40%)	0	0
41	DP	112/116 (97%)	67 (60%)	45 (40%)	0	0
42	BQ	106/111 (96%)	81 (76%)	25 (24%)	1	2
42	DQ	106/111 (96%)	82 (77%)	24 (23%)	1	3
43	BR	100/101 (99%)	76 (76%)	24 (24%)	0	2
43	DR	100/101 (99%)	76 (76%)	24 (24%)	0	2
44	BS	77/88 (88%)	59 (77%)	18 (23%)	1	3
44	DS	77/88 (88%)	59 (77%)	18 (23%)	1	3
45	BT	116/127 (91%)	76 (66%)	40 (34%)	0	0
45	DT	116/127 (91%)	77 (66%)	39 (34%)	0	0
46	BU	92/94 (98%)	74 (80%)	18 (20%)	1	6
46	DU	92/94 (98%)	71 (77%)	21 (23%)	1	3
47	BV	82/82 (100%)	56 (68%)	26 (32%)	0	0
47	DV	82/82 (100%)	57 (70%)	25 (30%)	0	0
48	BW	91/92 (99%)	67 (74%)	24 (26%)	0	1
48	DW	91/92 (99%)	69 (76%)	22 (24%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
49	BX	74/78 (95%)	55 (74%)	19 (26%)	0	1
49	DX	74/78 (95%)	54 (73%)	20 (27%)	0	1
50	BY	84/91 (92%)	67 (80%)	17 (20%)	1	5
50	DY	84/91 (92%)	66 (79%)	18 (21%)	1	4
51	BZ	155/179 (87%)	132 (85%)	23 (15%)	3	13
51	DZ	155/179 (87%)	131 (84%)	24 (16%)	2	11
All	All	9322/9876 (94%)	7617 (82%)	1705 (18%)	1	7

5 of 1705 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
47	BV	98	GLU
9	CI	114	TYR
46	DU	8	VAL
48	BW	101	SER
2	CB	145	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 256 such sidechains are listed below:

Mol	Chain	Res	Type
45	BT	90	GLN
5	CE	78	HIS
43	DR	31	HIS
48	BW	34	ASN
2	CB	146	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	307 (20%)	30 (1%)
1	CA	1503/1522 (98%)	307 (20%)	30 (1%)
31	BA	2723/2787 (97%)	822 (30%)	77 (2%)
31	DA	2723/2787 (97%)	827 (30%)	75 (2%)
32	BB	118/122 (96%)	42 (35%)	0
32	DB	118/122 (96%)	42 (35%)	0
All	All	8688/8862 (98%)	2347 (27%)	212 (2%)

5 of 2347 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C

5 of 212 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
31	BA	2422	A
1	CA	484	G
31	DA	2288	A
31	BA	2542	A
1	CA	30	U

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 827 ligands modelled in this entry, 825 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
55	TEL	DA	3320	-	59,62,62	1.72	7 (11%)	77,92,92	3.07	24 (31%)
55	TEL	BA	3362	-	59,62,62	1.72	7 (11%)	77,92,92	3.06	24 (31%)

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
55	TEL	DA	3320	-	-	31/73/108/108	0/4/5/5
55	TEL	BA	3362	-	-	31/73/108/108	0/4/5/5

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	DA	3320	TEL	C43-C40	-7.11	1.37	1.48
55	BA	3362	TEL	C43-C40	-7.05	1.37	1.48
55	BA	3362	TEL	O5-C2	-4.89	1.40	1.47
55	DA	3320	TEL	O5-C2	-4.87	1.40	1.47
55	BA	3362	TEL	C36-N31	-4.30	1.31	1.38

The worst 5 of 48 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	BA	3362	TEL	C8-C4-C2	-16.47	92.52	115.23
55	DA	3320	TEL	C8-C4-C2	-16.47	92.52	115.23
55	DA	3320	TEL	O9-C15-C21	10.07	121.11	110.88
55	BA	3362	TEL	O9-C15-C21	10.07	121.11	110.88
55	BA	3362	TEL	C2-O5-C10	-8.03	102.94	109.29

There are no chirality outliers.

5 of 62 torsion outliers are listed below:

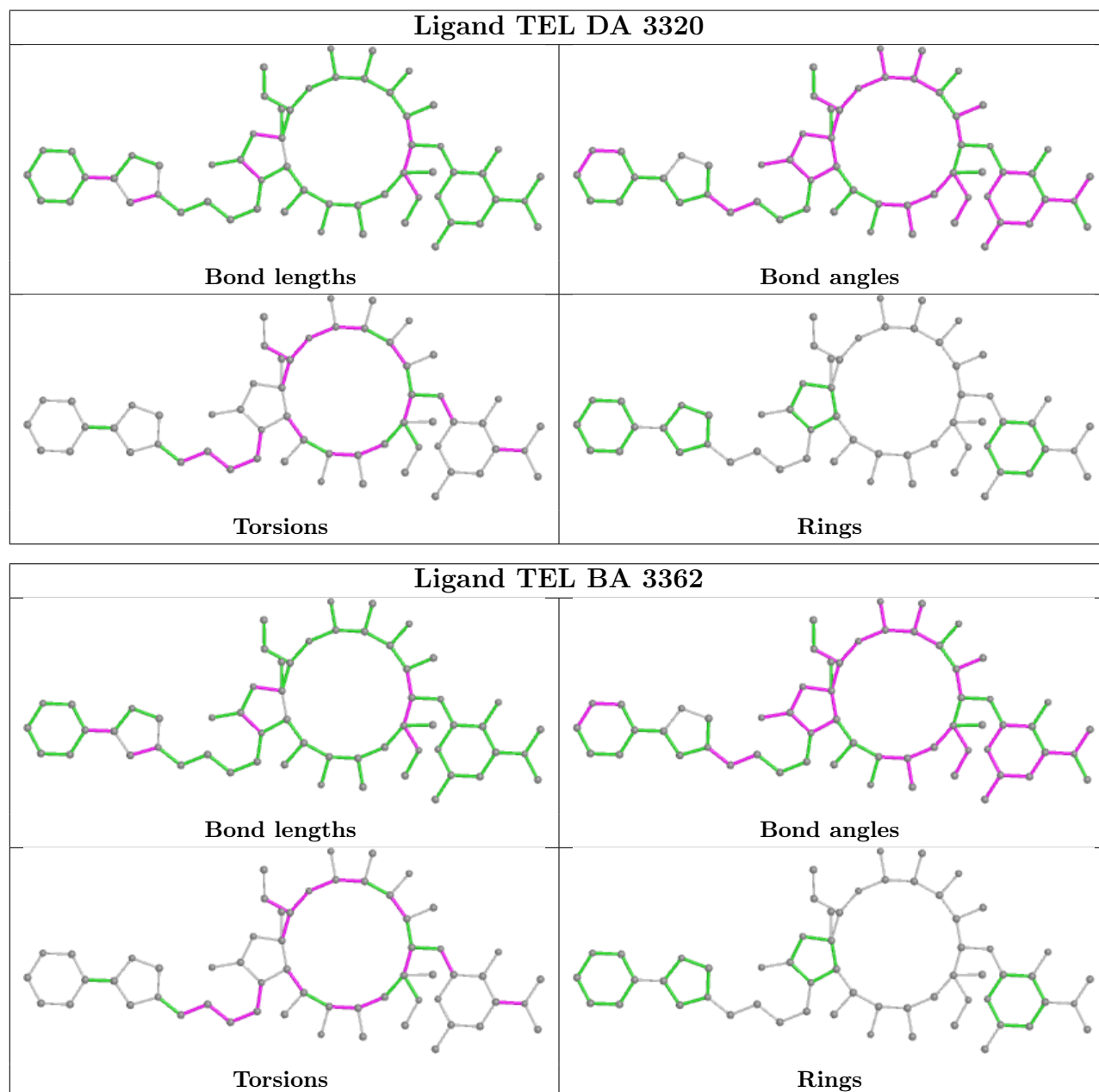
Mol	Chain	Res	Type	Atoms
55	DA	3320	TEL	C1-C2-C4-C8
55	DA	3320	TEL	C1-C2-C4-O9
55	DA	3320	TEL	C3-C2-C4-O9
55	DA	3320	TEL	O5-C2-C4-O9
55	DA	3320	TEL	C2-C3-C7-C13

There are no ring outliers.

2 monomers are involved in 66 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	DA	3320	TEL	34	0
55	BA	3362	TEL	32	0

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



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	3
13	AM	3
47	DV	1
36	DG	1
36	BG	1
9	AI	1
9	CI	1
47	BV	1
28	D6	1
28	B6	1

The worst 5 of 14 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DG	112:PRO	C	113:ARG	N	5.74
1	BG	112:PRO	C	113:ARG	N	5.73
1	CM	69:GLU	C	70:LEU	N	4.94
1	AM	69:GLU	C	70:LEU	N	4.93
1	D6	46:HIS	C	47:THR	N	4.90

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	AA	1504/1522 (98%)	0.90	228 (15%) 2 1	64, 134, 200, 203	0
1	CA	1504/1522 (98%)	0.90	257 (17%) 1 0	67, 134, 200, 203	0
2	AB	235/256 (91%)	0.96	49 (20%) 1 0	122, 175, 196, 201	0
2	CB	235/256 (91%)	1.40	59 (25%) 0 0	123, 175, 196, 202	0
3	AC	207/239 (86%)	1.03	50 (24%) 0 0	122, 174, 194, 197	0
3	CC	207/239 (86%)	1.19	52 (25%) 0 0	122, 175, 195, 199	0
4	AD	208/209 (99%)	0.82	34 (16%) 1 1	89, 149, 187, 193	0
4	CD	208/209 (99%)	0.41	15 (7%) 15 6	86, 148, 186, 193	0
5	AE	151/162 (93%)	0.75	24 (15%) 1 1	88, 127, 174, 197	0
5	CE	151/162 (93%)	1.12	39 (25%) 0 0	90, 128, 174, 197	0
6	AF	101/101 (100%)	0.33	6 (5%) 22 10	95, 151, 183, 196	0
6	CF	101/101 (100%)	0.68	18 (17%) 1 0	96, 154, 184, 198	0
7	AG	155/156 (99%)	1.30	42 (27%) 0 0	146, 184, 197, 200	0
7	CG	155/156 (99%)	2.24	68 (43%) 0 0	146, 185, 197, 199	0
8	AH	138/138 (100%)	0.26	4 (2%) 51 28	92, 129, 167, 189	0
8	CH	138/138 (100%)	0.21	6 (4%) 35 17	92, 129, 166, 189	0
9	AI	127/128 (99%)	2.24	65 (51%) 0 0	143, 190, 200, 202	0
9	CI	127/128 (99%)	2.84	76 (59%) 0 0	144, 190, 199, 202	0
10	AJ	99/105 (94%)	2.44	57 (57%) 0 0	130, 184, 199, 200	0
10	CJ	99/105 (94%)	3.23	57 (57%) 0 0	134, 185, 199, 202	0
11	AK	119/129 (92%)	1.48	36 (30%) 0 0	87, 142, 187, 200	0
11	CK	119/129 (92%)	1.65	40 (33%) 0 0	86, 144, 189, 200	0
12	AL	125/135 (92%)	0.60	12 (9%) 8 2	76, 114, 168, 200	0
12	CL	125/135 (92%)	1.01	29 (23%) 0 0	80, 114, 169, 199	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	AM	115/126 (91%)	2.21	51 (44%)	0	0	147, 192, 199, 201	0
13	CM	115/126 (91%)	2.48	57 (49%)	0	0	148, 192, 199, 202	0
14	AN	60/61 (98%)	1.82	19 (31%)	0	0	141, 183, 196, 199	0
14	CN	60/61 (98%)	1.37	14 (23%)	0	0	142, 182, 196, 198	0
15	AO	88/89 (98%)	0.36	5 (5%)	23	11	85, 123, 173, 189	0
15	CO	88/89 (98%)	0.59	8 (9%)	9	3	87, 124, 176, 186	0
16	AP	84/88 (95%)	1.28	24 (28%)	0	0	97, 128, 177, 192	0
16	CP	84/88 (95%)	1.29	28 (33%)	0	0	97, 126, 175, 191	0
17	AQ	100/105 (95%)	0.49	11 (11%)	5	2	82, 113, 158, 175	0
17	CQ	100/105 (95%)	0.27	8 (8%)	12	5	82, 114, 158, 176	0
18	AR	70/88 (79%)	0.85	11 (15%)	2	1	102, 140, 183, 193	0
18	CR	70/88 (79%)	1.59	18 (25%)	0	0	103, 140, 182, 196	0
19	AS	79/93 (84%)	3.73	59 (74%)	0	0	160, 194, 199, 199	0
19	CS	79/93 (84%)	2.99	51 (64%)	0	0	158, 193, 199, 200	0
20	AT	99/106 (93%)	0.61	16 (16%)	1	1	97, 133, 181, 196	0
20	CT	99/106 (93%)	0.87	21 (21%)	0	0	97, 132, 180, 197	0
21	AU	25/27 (92%)	4.23	20 (80%)	0	0	153, 185, 194, 195	0
21	CU	25/27 (92%)	5.38	23 (92%)	0	0	156, 186, 195, 196	0
22	B0	85/85 (100%)	0.75	10 (11%)	4	2	56, 78, 183, 200	0
22	D0	85/85 (100%)	0.44	11 (12%)	3	1	62, 82, 179, 199	0
23	B1	89/98 (90%)	0.36	5 (5%)	24	11	54, 86, 160, 184	0
23	D1	89/98 (90%)	0.52	9 (10%)	7	2	57, 88, 162, 191	0
24	B2	51/72 (70%)	0.74	9 (17%)	1	0	63, 105, 166, 192	0
24	D2	51/72 (70%)	0.53	5 (9%)	7	2	68, 110, 167, 192	0
25	B3	60/60 (100%)	-0.03	1 (1%)	70	49	49, 77, 143, 193	0
25	D3	60/60 (100%)	0.49	5 (8%)	11	4	54, 79, 145, 186	0
26	B4	32/71 (45%)	0.02	2 (6%)	20	8	140, 177, 199, 200	0
26	D4	32/71 (45%)	0.91	9 (28%)	0	0	139, 180, 199, 201	0
27	B5	58/60 (96%)	0.46	7 (12%)	4	1	40, 65, 182, 197	0
27	D5	58/60 (96%)	0.36	6 (10%)	6	2	42, 69, 186, 197	0
28	B6	45/54 (83%)	0.93	5 (11%)	5	2	52, 100, 167, 192	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	D6	45/54 (83%)	1.12	13 (28%) 0 0	57, 102, 169, 189	0
29	B7	49/49 (100%)	0.39	2 (4%) 37 18	42, 51, 132, 180	0
29	D7	49/49 (100%)	0.98	8 (16%) 1 1	45, 54, 132, 180	0
30	B8	64/65 (98%)	0.62	6 (9%) 8 3	53, 76, 137, 169	0
30	D8	64/65 (98%)	0.44	5 (7%) 13 5	55, 79, 140, 168	0
31	BA	2725/2787 (97%)	0.38	89 (3%) 46 24	38, 66, 177, 204	0
31	DA	2725/2787 (97%)	0.25	127 (4%) 31 15	44, 71, 181, 203	0
32	BB	119/122 (97%)	0.61	9 (7%) 13 5	56, 123, 191, 200	0
32	DB	119/122 (97%)	0.59	13 (10%) 5 2	64, 127, 194, 203	0
33	BD	272/276 (98%)	0.13	7 (2%) 56 33	42, 70, 130, 172	0
33	DD	272/276 (98%)	0.18	7 (2%) 56 33	47, 73, 128, 175	0
34	BE	205/206 (99%)	0.41	10 (4%) 29 14	40, 75, 166, 194	0
34	DE	205/206 (99%)	0.46	14 (6%) 17 7	46, 78, 169, 195	0
35	BF	208/210 (99%)	0.77	20 (9%) 8 2	39, 86, 178, 198	0
35	DF	208/210 (99%)	0.57	22 (10%) 6 2	44, 89, 182, 199	0
36	BG	181/182 (99%)	2.60	82 (45%) 0 0	116, 186, 200, 203	0
36	DG	181/182 (99%)	3.15	90 (49%) 0 0	119, 188, 200, 203	0
37	BH	160/180 (88%)	0.54	8 (5%) 28 13	81, 136, 181, 190	0
37	DH	160/180 (88%)	1.60	53 (33%) 0 0	87, 142, 186, 195	0
38	BI	146/148 (98%)	1.18	35 (23%) 0 0	74, 178, 197, 200	0
38	DI	146/148 (98%)	3.19	70 (47%) 0 0	76, 180, 198, 201	0
39	BN	139/140 (99%)	0.30	9 (6%) 18 8	51, 87, 154, 186	0
39	DN	139/140 (99%)	0.22	8 (5%) 23 10	56, 90, 155, 190	0
40	BO	122/122 (100%)	0.14	0 100 100	51, 79, 133, 168	0
40	DO	122/122 (100%)	0.05	0 100 100	54, 84, 136, 173	0
41	BP	146/150 (97%)	0.76	10 (6%) 17 7	43, 106, 165, 199	0
41	DP	146/150 (97%)	0.85	23 (15%) 2 1	42, 109, 168, 198	0
42	BQ	136/141 (96%)	0.55	9 (6%) 18 7	55, 88, 159, 190	0
42	DQ	136/141 (96%)	0.58	16 (11%) 4 2	59, 90, 160, 191	0
43	BR	117/118 (99%)	0.12	2 (1%) 70 49	43, 65, 134, 180	0
43	DR	117/118 (99%)	0.07	3 (2%) 56 33	47, 68, 136, 182	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	BS	99/112 (88%)	1.17	19 (19%) 1 0	79, 134, 189, 198	0
44	DS	99/112 (88%)	1.80	32 (32%) 0 0	83, 136, 192, 198	0
45	BT	132/146 (90%)	0.47	9 (6%) 17 7	60, 105, 179, 192	0
45	DT	132/146 (90%)	0.56	17 (12%) 3 1	65, 107, 179, 195	0
46	BU	117/118 (99%)	0.38	6 (5%) 28 13	43, 71, 142, 190	0
46	DU	117/118 (99%)	0.66	17 (14%) 2 1	48, 76, 145, 194	0
47	BV	101/101 (100%)	0.76	9 (8%) 9 3	44, 117, 183, 198	0
47	DV	101/101 (100%)	1.10	18 (17%) 1 0	49, 120, 186, 197	0
48	BW	113/113 (100%)	-0.18	0 100 100	41, 58, 127, 188	0
48	DW	113/113 (100%)	-0.35	2 (1%) 68 47	43, 62, 130, 191	0
49	BX	93/96 (96%)	0.37	4 (4%) 35 17	50, 82, 151, 186	0
49	DX	93/96 (96%)	0.09	4 (4%) 35 17	57, 84, 153, 186	0
50	BY	101/110 (91%)	1.28	22 (21%) 0 0	61, 120, 197, 199	0
50	DY	101/110 (91%)	1.47	28 (27%) 0 0	68, 121, 195, 199	0
51	BZ	177/206 (85%)	0.37	13 (7%) 15 6	76, 129, 182, 196	0
51	DZ	177/206 (85%)	0.51	25 (14%) 2 1	80, 133, 185, 196	0
All	All	20062/20922 (95%)	0.78	2846 (14%) 2 1	38, 110, 197, 204	0

The worst 5 of 2846 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
35	BF	208	GLY	35.4
2	CB	7	VAL	26.8
35	BF	207	GLY	25.3
44	DS	109	GLY	21.6
31	DA	2802	G	21.4

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
52	MG	BA	3359	1/1	0.30	0.17	81,81,81,81	0
52	MG	CA	1634	1/1	0.41	0.31	88,88,88,88	0
52	MG	DA	3255	1/1	0.47	0.48	91,91,91,91	0
52	MG	AA	1614	1/1	0.50	0.29	81,81,81,81	0
52	MG	DA	3273	1/1	0.51	1.74	80,80,80,80	0
52	MG	DA	3225	1/1	0.53	0.61	81,81,81,81	0
52	MG	BA	3290	1/1	0.54	0.56	87,87,87,87	0
52	MG	DA	3123	1/1	0.54	0.26	67,67,67,67	0
52	MG	DA	3217	1/1	0.55	1.01	55,55,55,55	0
52	MG	BA	3166	1/1	0.58	0.61	75,75,75,75	0
52	MG	AA	1633	1/1	0.60	0.22	90,90,90,90	0
52	MG	CA	1648	1/1	0.62	0.88	69,69,69,69	0
52	MG	BA	3088	1/1	0.62	0.71	60,60,60,60	0
52	MG	DA	3183	1/1	0.62	1.25	80,80,80,80	0
52	MG	AA	1650	1/1	0.63	1.51	86,86,86,86	0
52	MG	DA	3285	1/1	0.66	0.56	70,70,70,70	0
52	MG	BA	3234	1/1	0.67	0.52	40,40,40,40	0
52	MG	DA	3242	1/1	0.67	0.15	84,84,84,84	0
52	MG	DA	3268	1/1	0.68	0.58	72,72,72,72	0
52	MG	CA	1631	1/1	0.68	0.22	95,95,95,95	0
52	MG	DA	3301	1/1	0.68	0.88	67,67,67,67	0
52	MG	BA	3327	1/1	0.68	0.81	70,70,70,70	0
52	MG	BA	3356	1/1	0.68	0.56	75,75,75,75	0
52	MG	DA	3248	1/1	0.68	0.63	72,72,72,72	0
52	MG	DA	3236	1/1	0.69	0.78	76,76,76,76	0
52	MG	DA	3232	1/1	0.69	0.81	56,56,56,56	0
52	MG	AA	1612	1/1	0.69	0.24	84,84,84,84	0
52	MG	BA	3219	1/1	0.69	0.42	75,75,75,75	0
52	MG	CA	1633	1/1	0.70	1.23	77,77,77,77	0
52	MG	DA	3102	1/1	0.71	0.88	54,54,54,54	0
52	MG	DA	3165	1/1	0.71	0.48	53,53,53,53	0
52	MG	DA	3155	1/1	0.71	0.23	59,59,59,59	0
52	MG	DA	3116	1/1	0.71	0.40	65,65,65,65	0
52	MG	BA	3126	1/1	0.71	0.25	56,56,56,56	0
52	MG	CA	1630	1/1	0.72	0.62	74,74,74,74	0
52	MG	DA	3269	1/1	0.72	0.83	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
52	MG	DF	301	1/1	0.72	0.24	83,83,83,83	0
52	MG	CA	1612	1/1	0.73	0.18	70,70,70,70	0
52	MG	DA	3311	1/1	0.73	0.80	86,86,86,86	0
52	MG	DA	3229	1/1	0.73	0.47	78,78,78,78	0
52	MG	CA	1613	1/1	0.73	0.82	87,87,87,87	0
52	MG	BA	3343	1/1	0.74	0.53	51,51,51,51	0
52	MG	DA	3104	1/1	0.74	0.43	85,85,85,85	0
52	MG	BA	3278	1/1	0.74	0.25	62,62,62,62	0
52	MG	BA	3285	1/1	0.74	0.90	56,56,56,56	0
52	MG	BA	3255	1/1	0.74	0.34	46,46,46,46	0
52	MG	CA	1636	1/1	0.75	0.45	74,74,74,74	0
52	MG	CA	1602	1/1	0.76	0.91	73,73,73,73	0
52	MG	BA	3303	1/1	0.76	0.47	36,36,36,36	0
52	MG	DA	3276	1/1	0.76	1.22	87,87,87,87	0
52	MG	BA	3160	1/1	0.76	1.01	78,78,78,78	0
52	MG	BA	3321	1/1	0.76	0.36	69,69,69,69	0
52	MG	BB	206	1/1	0.76	0.82	66,66,66,66	0
52	MG	BA	3318	1/1	0.76	0.35	55,55,55,55	0
52	MG	DA	3016	1/1	0.76	0.54	54,54,54,54	0
52	MG	DA	3220	1/1	0.77	0.25	68,68,68,68	0
52	MG	AA	1643	1/1	0.77	0.56	85,85,85,85	0
52	MG	DA	3296	1/1	0.77	0.28	104,104,104,104	0
52	MG	DA	3283	1/1	0.77	0.56	57,57,57,57	0
52	MG	AA	1628	1/1	0.77	0.53	65,65,65,65	0
52	MG	BA	3258	1/1	0.78	0.19	57,57,57,57	0
52	MG	DA	3286	1/1	0.78	0.37	63,63,63,63	0
52	MG	BA	3242	1/1	0.78	0.55	71,71,71,71	0
52	MG	AA	1619	1/1	0.78	0.54	55,55,55,55	0
52	MG	DA	3094	1/1	0.78	0.40	75,75,75,75	0
52	MG	DA	3045	1/1	0.78	0.49	51,51,51,51	0
52	MG	CA	1621	1/1	0.78	0.47	78,78,78,78	0
52	MG	DA	3318	1/1	0.78	0.07	83,83,83,83	0
52	MG	DA	3227	1/1	0.79	0.93	79,79,79,79	0
52	MG	BA	3331	1/1	0.79	0.41	52,52,52,52	0
52	MG	D7	101	1/1	0.79	0.41	58,58,58,58	0
52	MG	DA	3188	1/1	0.79	0.73	81,81,81,81	0
52	MG	DA	3182	1/1	0.79	0.67	54,54,54,54	0
52	MG	BA	3347	1/1	0.79	0.37	58,58,58,58	0
52	MG	CA	1642	1/1	0.79	0.27	80,80,80,80	0
52	MG	DA	3134	1/1	0.79	0.89	61,61,61,61	0
52	MG	BF	301	1/1	0.79	0.28	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3302	1/1	0.80	0.23	67,67,67,67	0
52	MG	BA	3326	1/1	0.80	0.44	60,60,60,60	0
52	MG	DA	3271	1/1	0.80	0.33	67,67,67,67	0
52	MG	BA	3246	1/1	0.80	0.41	68,68,68,68	0
52	MG	BA	3355	1/1	0.80	0.20	78,78,78,78	0
52	MG	BA	3150	1/1	0.80	0.49	50,50,50,50	0
52	MG	BA	3352	1/1	0.80	0.48	53,53,53,53	0
52	MG	AA	1632	1/1	0.81	0.69	70,70,70,70	0
52	MG	DA	3025	1/1	0.81	0.65	61,61,61,61	0
52	MG	AA	1648	1/1	0.81	0.69	57,57,57,57	0
52	MG	DA	3313	1/1	0.81	0.58	64,64,64,64	0
52	MG	AA	1647	1/1	0.81	0.30	72,72,72,72	0
52	MG	DA	3082	1/1	0.81	0.36	50,50,50,50	0
52	MG	AA	1617	1/1	0.81	0.40	55,55,55,55	0
52	MG	DA	3206	1/1	0.81	0.98	74,74,74,74	0
52	MG	BA	3117	1/1	0.82	0.26	58,58,58,58	0
52	MG	CA	1617	1/1	0.82	0.59	74,74,74,74	0
52	MG	BA	3298	1/1	0.82	0.87	65,65,65,65	0
52	MG	BA	3271	1/1	0.82	0.55	57,57,57,57	0
52	MG	DA	3235	1/1	0.82	0.16	48,48,48,48	0
52	MG	BA	3339	1/1	0.82	0.32	74,74,74,74	0
52	MG	DA	3299	1/1	0.82	0.34	64,64,64,64	0
52	MG	DA	3114	1/1	0.82	0.18	75,75,75,75	0
52	MG	DA	3314	1/1	0.82	0.68	54,54,54,54	0
52	MG	CA	1639	1/1	0.82	1.03	87,87,87,87	0
52	MG	CA	1625	1/1	0.82	0.38	70,70,70,70	0
52	MG	DA	3295	1/1	0.82	0.36	65,65,65,65	0
52	MG	DB	201	1/1	0.82	0.49	59,59,59,59	0
52	MG	DA	3228	1/1	0.82	0.20	57,57,57,57	0
52	MG	BA	3335	1/1	0.82	0.58	55,55,55,55	0
52	MG	BA	3297	1/1	0.83	0.54	68,68,68,68	0
52	MG	DA	3274	1/1	0.83	0.20	68,68,68,68	0
52	MG	DA	3284	1/1	0.83	0.23	70,70,70,70	0
52	MG	DA	3109	1/1	0.83	0.44	60,60,60,60	0
52	MG	BA	3115	1/1	0.83	0.15	71,71,71,71	0
52	MG	DA	3209	1/1	0.83	0.57	58,58,58,58	0
52	MG	BA	3247	1/1	0.83	0.51	77,77,77,77	0
52	MG	DA	3111	1/1	0.83	0.44	56,56,56,56	0
52	MG	BA	3251	1/1	0.83	0.75	44,44,44,44	0
52	MG	DA	3131	1/1	0.83	0.68	66,66,66,66	0
52	MG	BA	3332	1/1	0.83	0.25	65,65,65,65	0
52	MG	DA	3196	1/1	0.83	0.20	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
52	MG	DA	3157	1/1	0.83	0.27	72,72,72,72	0
52	MG	BA	3350	1/1	0.83	0.67	64,64,64,64	0
52	MG	BA	3196	1/1	0.84	1.12	66,66,66,66	0
52	MG	BA	3330	1/1	0.84	0.58	64,64,64,64	0
52	MG	DX	101	1/1	0.84	0.43	76,76,76,76	0
52	MG	DA	3081	1/1	0.84	0.47	58,58,58,58	0
52	MG	BA	3323	1/1	0.84	0.26	51,51,51,51	0
52	MG	CA	1628	1/1	0.84	0.76	92,92,92,92	0
52	MG	CA	1616	1/1	0.84	0.27	74,74,74,74	0
52	MG	BA	3183	1/1	0.84	0.45	55,55,55,55	0
52	MG	BA	3224	1/1	0.84	0.16	43,43,43,43	0
52	MG	DA	3194	1/1	0.84	0.59	56,56,56,56	0
52	MG	CA	1624	1/1	0.84	0.25	69,69,69,69	0
52	MG	DA	3272	1/1	0.84	0.72	78,78,78,78	0
52	MG	BA	3176	1/1	0.84	0.95	68,68,68,68	0
52	MG	BB	205	1/1	0.84	0.10	90,90,90,90	0
52	MG	AA	1645	1/1	0.84	0.47	104,104,104,104	0
52	MG	DA	3254	1/1	0.84	0.23	61,61,61,61	0
52	MG	AA	1638	1/1	0.84	0.37	91,91,91,91	0
52	MG	DA	3156	1/1	0.84	0.49	44,44,44,44	0
52	MG	BA	3127	1/1	0.84	0.80	48,48,48,48	0
52	MG	BA	3329	1/1	0.84	0.59	65,65,65,65	0
52	MG	BA	3146	1/1	0.85	0.43	56,56,56,56	0
52	MG	BA	3296	1/1	0.85	0.27	54,54,54,54	0
52	MG	DA	3136	1/1	0.85	0.15	81,81,81,81	0
52	MG	DA	3297	1/1	0.85	0.23	93,93,93,93	0
52	MG	DA	3293	1/1	0.85	0.41	60,60,60,60	0
52	MG	DA	3144	1/1	0.85	0.55	65,65,65,65	0
52	MG	DA	3108	1/1	0.85	0.33	56,56,56,56	0
52	MG	DA	3171	1/1	0.85	0.14	73,73,73,73	0
52	MG	BA	3152	1/1	0.85	0.16	58,58,58,58	0
52	MG	BA	3161	1/1	0.85	0.41	65,65,65,65	0
52	MG	BA	3121	1/1	0.85	0.45	51,51,51,51	0
52	MG	BB	201	1/1	0.85	0.42	47,47,47,47	0
52	MG	DA	3073	1/1	0.85	0.53	55,55,55,55	0
52	MG	BA	3093	1/1	0.85	0.77	57,57,57,57	0
52	MG	DA	3275	1/1	0.85	0.75	72,72,72,72	0
52	MG	BA	3340	1/1	0.85	0.10	83,83,83,83	0
52	MG	AA	1630	1/1	0.85	0.76	75,75,75,75	0
52	MG	DA	3221	1/1	0.85	0.48	62,62,62,62	0
52	MG	DA	3130	1/1	0.85	0.18	83,83,83,83	0
52	MG	DA	3163	1/1	0.85	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
52	MG	BA	3106	1/1	0.85	0.91	43,43,43,43	0
52	MG	BA	3151	1/1	0.85	0.59	68,68,68,68	0
52	MG	BA	3039	1/1	0.86	1.03	57,57,57,57	0
52	MG	AA	1627	1/1	0.86	0.23	71,71,71,71	0
52	MG	DA	3292	1/1	0.86	0.74	60,60,60,60	0
52	MG	DA	3265	1/1	0.86	0.44	61,61,61,61	0
52	MG	AA	1641	1/1	0.86	0.28	57,57,57,57	0
52	MG	DA	3074	1/1	0.86	0.46	56,56,56,56	0
52	MG	BA	3252	1/1	0.86	0.28	72,72,72,72	0
52	MG	DA	3317	1/1	0.86	0.11	60,60,60,60	0
52	MG	BA	3268	1/1	0.86	0.14	60,60,60,60	0
52	MG	BA	3235	1/1	0.86	0.49	43,43,43,43	0
52	MG	BA	3334	1/1	0.86	0.11	61,61,61,61	0
52	MG	CA	1643	1/1	0.86	1.15	93,93,93,93	0
52	MG	DA	3266	1/1	0.86	1.05	55,55,55,55	0
52	MG	CA	1638	1/1	0.86	0.28	62,62,62,62	0
52	MG	BA	3289	1/1	0.86	0.16	66,66,66,66	0
52	MG	DA	3279	1/1	0.86	0.27	55,55,55,55	0
52	MG	DA	3095	1/1	0.86	0.19	56,56,56,56	0
52	MG	BA	3165	1/1	0.86	0.15	57,57,57,57	0
52	MG	DA	3146	1/1	0.87	0.48	59,59,59,59	0
52	MG	DA	3290	1/1	0.87	0.29	74,74,74,74	0
52	MG	DA	3300	1/1	0.87	0.75	58,58,58,58	0
52	MG	B5	102	1/1	0.87	0.43	80,80,80,80	0
52	MG	DA	3191	1/1	0.87	0.41	48,48,48,48	0
52	MG	BA	3108	1/1	0.87	0.30	43,43,43,43	0
52	MG	BA	3098	1/1	0.87	0.23	76,76,76,76	0
52	MG	CA	1608	1/1	0.87	0.42	90,90,90,90	0
52	MG	DA	3177	1/1	0.87	0.58	48,48,48,48	0
52	MG	DA	3203	1/1	0.87	0.69	55,55,55,55	0
52	MG	DA	3119	1/1	0.87	0.22	56,56,56,56	0
52	MG	DA	3291	1/1	0.88	1.23	88,88,88,88	0
52	MG	BA	3129	1/1	0.88	0.11	55,55,55,55	0
52	MG	AA	1604	1/1	0.88	0.46	100,100,100,100	0
52	MG	DA	3241	1/1	0.88	0.33	48,48,48,48	0
52	MG	BA	3201	1/1	0.88	0.16	52,52,52,52	0
52	MG	AA	1636	1/1	0.88	0.35	88,88,88,88	0
52	MG	BA	3341	1/1	0.88	0.26	67,67,67,67	0
52	MG	AA	1610	1/1	0.88	0.26	115,115,115,115	0
52	MG	AA	1626	1/1	0.88	0.46	84,84,84,84	0
52	MG	BA	3067	1/1	0.88	0.48	38,38,38,38	0
52	MG	DA	3249	1/1	0.88	0.43	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3002	1/1	0.88	0.56	41,41,41,41	0
52	MG	BA	3309	1/1	0.88	0.39	70,70,70,70	0
52	MG	CA	1627	1/1	0.88	0.70	76,76,76,76	0
52	MG	BA	3202	1/1	0.88	0.28	49,49,49,49	0
52	MG	BA	3207	1/1	0.88	0.44	34,34,34,34	0
52	MG	BA	3262	1/1	0.88	0.40	68,68,68,68	0
52	MG	D8	101	1/1	0.88	0.64	66,66,66,66	0
52	MG	CA	1607	1/1	0.88	0.45	74,74,74,74	0
52	MG	DA	3270	1/1	0.88	0.52	92,92,92,92	0
52	MG	BA	3091	1/1	0.88	0.26	44,44,44,44	0
52	MG	CA	1611	1/1	0.88	0.30	72,72,72,72	0
52	MG	BA	3312	1/1	0.89	0.18	55,55,55,55	0
52	MG	BA	3064	1/1	0.89	0.29	45,45,45,45	0
52	MG	DA	3316	1/1	0.89	0.37	75,75,75,75	0
52	MG	DA	3260	1/1	0.89	0.87	73,73,73,73	0
52	MG	BA	3239	1/1	0.89	0.20	61,61,61,61	0
52	MG	DA	3003	1/1	0.89	0.78	61,61,61,61	0
52	MG	DA	3038	1/1	0.89	0.83	68,68,68,68	0
52	MG	DA	3281	1/1	0.89	0.84	87,87,87,87	0
52	MG	DA	3150	1/1	0.89	0.99	80,80,80,80	0
52	MG	DA	3258	1/1	0.89	0.46	70,70,70,70	0
52	MG	BA	3054	1/1	0.89	0.23	50,50,50,50	0
52	MG	BA	3228	1/1	0.89	0.90	56,56,56,56	0
52	MG	DA	3115	1/1	0.89	0.36	58,58,58,58	0
52	MG	DA	3307	1/1	0.89	0.66	65,65,65,65	0
52	MG	DA	3122	1/1	0.89	0.16	61,61,61,61	0
52	MG	DA	3120	1/1	0.89	0.37	84,84,84,84	0
52	MG	BA	3353	1/1	0.89	0.31	73,73,73,73	0
52	MG	DA	3158	1/1	0.89	0.72	71,71,71,71	0
52	MG	BA	3314	1/1	0.89	0.52	63,63,63,63	0
52	MG	DA	3202	1/1	0.89	0.45	73,73,73,73	0
52	MG	CA	1606	1/1	0.89	1.11	73,73,73,73	0
52	MG	BA	3213	1/1	0.89	0.23	34,34,34,34	0
52	MG	CA	1646	1/1	0.89	0.45	68,68,68,68	0
52	MG	BA	3275	1/1	0.89	0.13	47,47,47,47	0
52	MG	DA	3200	1/1	0.89	0.60	47,47,47,47	0
52	MG	BA	3140	1/1	0.89	0.21	78,78,78,78	0
52	MG	BA	3019	1/1	0.89	0.50	26,26,26,26	0
52	MG	DA	3041	1/1	0.89	0.32	55,55,55,55	0
52	MG	DA	3079	1/1	0.89	0.90	39,39,39,39	0
52	MG	DA	3264	1/1	0.89	0.46	87,87,87,87	0
52	MG	BA	3114	1/1	0.89	0.50	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3145	1/1	0.89	0.18	57,57,57,57	0
52	MG	BA	3116	1/1	0.89	0.33	67,67,67,67	0
52	MG	BA	3313	1/1	0.89	0.50	61,61,61,61	0
52	MG	CA	1635	1/1	0.90	1.22	80,80,80,80	0
52	MG	DA	3238	1/1	0.90	0.15	80,80,80,80	0
52	MG	BA	3283	1/1	0.90	0.61	70,70,70,70	0
52	MG	DA	3162	1/1	0.90	0.64	80,80,80,80	0
52	MG	DA	3252	1/1	0.90	0.30	55,55,55,55	0
52	MG	BB	203	1/1	0.90	0.12	82,82,82,82	0
53	ZN	AN	101	1/1	0.90	0.15	181,181,181,181	0
52	MG	DA	3013	1/1	0.90	0.43	77,77,77,77	0
52	MG	DA	3113	1/1	0.90	0.29	75,75,75,75	0
52	MG	BA	3233	1/1	0.90	0.56	54,54,54,54	0
52	MG	AA	1622	1/1	0.90	0.34	64,64,64,64	0
52	MG	AA	1639	1/1	0.90	1.18	77,77,77,77	0
52	MG	AA	1637	1/1	0.90	0.28	54,54,54,54	0
52	MG	DA	3262	1/1	0.90	0.52	55,55,55,55	0
52	MG	BA	3069	1/1	0.90	0.44	46,46,46,46	0
52	MG	DA	3141	1/1	0.90	0.24	65,65,65,65	0
52	MG	DA	3259	1/1	0.90	0.48	60,60,60,60	0
52	MG	DA	3166	1/1	0.90	0.10	55,55,55,55	0
52	MG	DA	3048	1/1	0.90	0.46	51,51,51,51	0
52	MG	DA	3205	1/1	0.90	0.44	64,64,64,64	0
52	MG	DA	3060	1/1	0.90	0.47	50,50,50,50	0
52	MG	BA	3280	1/1	0.90	0.26	80,80,80,80	0
52	MG	DA	3244	1/1	0.90	0.51	69,69,69,69	0
52	MG	AA	1605	1/1	0.90	0.28	106,106,106,106	0
52	MG	CA	1641	1/1	0.90	0.12	54,54,54,54	0
52	MG	CA	1644	1/1	0.90	0.27	86,86,86,86	0
52	MG	DA	3289	1/1	0.90	0.27	71,71,71,71	0
52	MG	BA	3295	1/1	0.90	0.89	79,79,79,79	0
52	MG	DA	3287	1/1	0.90	0.28	64,64,64,64	0
52	MG	BA	3360	1/1	0.90	0.06	68,68,68,68	0
52	MG	AA	1623	1/1	0.90	0.41	50,50,50,50	0
52	MG	AA	1625	1/1	0.90	0.22	73,73,73,73	0
52	MG	BA	3259	1/1	0.90	0.14	47,47,47,47	0
52	MG	BA	3147	1/1	0.90	0.78	55,55,55,55	0
52	MG	CA	1605	1/1	0.90	0.27	102,102,102,102	0
52	MG	CA	1619	1/1	0.90	0.44	61,61,61,61	0
52	MG	BA	3288	1/1	0.90	0.10	55,55,55,55	0
52	MG	DA	3226	1/1	0.90	0.70	73,73,73,73	0
52	MG	BA	3130	1/1	0.90	0.71	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3304	1/1	0.90	0.39	41,41,41,41	0
52	MG	BA	3034	1/1	0.90	0.40	69,69,69,69	0
52	MG	BA	3291	1/1	0.90	0.36	45,45,45,45	0
52	MG	CA	1645	1/1	0.90	0.86	64,64,64,64	0
52	MG	DA	3186	1/1	0.90	0.39	58,58,58,58	0
52	MG	BA	3292	1/1	0.91	0.29	67,67,67,67	0
52	MG	BA	3112	1/1	0.91	0.20	43,43,43,43	0
52	MG	DB	202	1/1	0.91	0.34	80,80,80,80	0
52	MG	BA	3325	1/1	0.91	0.48	49,49,49,49	0
52	MG	CA	1601	1/1	0.91	0.21	85,85,85,85	0
52	MG	DA	3090	1/1	0.91	0.54	53,53,53,53	0
52	MG	BA	3244	1/1	0.91	0.43	44,44,44,44	0
52	MG	DA	3005	1/1	0.91	0.12	69,69,69,69	0
52	MG	BA	3090	1/1	0.91	0.47	22,22,22,22	0
52	MG	DA	3207	1/1	0.91	0.16	53,53,53,53	0
52	MG	BA	3139	1/1	0.91	0.45	60,60,60,60	0
52	MG	DA	3172	1/1	0.91	0.68	59,59,59,59	0
52	MG	AA	1602	1/1	0.91	0.68	50,50,50,50	0
52	MG	BA	3345	1/1	0.91	0.25	70,70,70,70	0
55	TEL	BA	3362	58/58	0.91	0.32	110,110,110,110	0
52	MG	BA	3075	1/1	0.91	0.47	56,56,56,56	0
52	MG	CA	1609	1/1	0.91	0.18	48,48,48,48	0
52	MG	BD	302	1/1	0.91	0.36	47,47,47,47	0
52	MG	DA	3302	1/1	0.91	0.27	64,64,64,64	0
52	MG	DA	3211	1/1	0.91	0.93	62,62,62,62	0
52	MG	AA	1646	1/1	0.91	0.56	53,53,53,53	0
52	MG	AA	1618	1/1	0.91	0.86	81,81,81,81	0
55	TEL	DA	3320	58/58	0.91	0.31	110,110,110,110	0
52	MG	BA	3095	1/1	0.91	0.35	43,43,43,43	0
52	MG	BA	3199	1/1	0.91	0.62	39,39,39,39	0
52	MG	CA	1614	1/1	0.91	0.14	80,80,80,80	0
52	MG	DA	3046	1/1	0.91	0.41	49,49,49,49	0
52	MG	DA	3250	1/1	0.91	0.31	62,62,62,62	0
52	MG	DA	3306	1/1	0.91	0.34	63,63,63,63	0
52	MG	DA	3012	1/1	0.91	0.53	29,29,29,29	0
52	MG	DA	3093	1/1	0.91	0.71	49,49,49,49	0
52	MG	BA	3348	1/1	0.91	0.50	73,73,73,73	0
52	MG	DA	3152	1/1	0.91	0.44	66,66,66,66	0
52	MG	DA	3256	1/1	0.92	0.27	77,77,77,77	0
52	MG	BA	3269	1/1	0.92	0.45	45,45,45,45	0
52	MG	DA	3230	1/1	0.92	0.22	69,69,69,69	0
52	MG	BA	3265	1/1	0.92	0.55	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3239	1/1	0.92	0.21	65,65,65,65	0
52	MG	BA	3154	1/1	0.92	0.24	73,73,73,73	0
52	MG	BA	3172	1/1	0.92	0.22	50,50,50,50	0
52	MG	BA	3026	1/1	0.92	0.34	58,58,58,58	0
52	MG	BA	3188	1/1	0.92	0.17	80,80,80,80	0
52	MG	DU	201	1/1	0.92	0.42	75,75,75,75	0
52	MG	BA	3203	1/1	0.92	0.41	53,53,53,53	0
52	MG	DA	3308	1/1	0.92	0.57	75,75,75,75	0
52	MG	DA	3247	1/1	0.92	0.38	61,61,61,61	0
52	MG	DA	3054	1/1	0.92	0.65	47,47,47,47	0
52	MG	DA	3087	1/1	0.92	0.51	53,53,53,53	0
52	MG	BA	3136	1/1	0.92	0.34	51,51,51,51	0
52	MG	CA	1604	1/1	0.92	0.24	98,98,98,98	0
52	MG	AA	1606	1/1	0.92	0.44	63,63,63,63	0
52	MG	DA	3199	1/1	0.92	0.22	74,74,74,74	0
52	MG	DA	3142	1/1	0.92	0.56	69,69,69,69	0
52	MG	BA	3138	1/1	0.92	0.81	42,42,42,42	0
52	MG	BA	3232	1/1	0.92	0.43	43,43,43,43	0
52	MG	DA	3126	1/1	0.92	0.42	57,57,57,57	0
52	MG	DQ	201	1/1	0.92	0.23	63,63,63,63	0
52	MG	DA	3118	1/1	0.92	0.49	72,72,72,72	0
52	MG	BA	3042	1/1	0.92	0.28	31,31,31,31	0
52	MG	BA	3002	1/1	0.92	0.64	31,31,31,31	0
52	MG	BA	3328	1/1	0.92	0.29	41,41,41,41	0
52	MG	DA	3170	1/1	0.92	0.77	76,76,76,76	0
52	MG	BA	3279	1/1	0.92	0.91	62,62,62,62	0
52	MG	DA	3139	1/1	0.92	0.65	48,48,48,48	0
52	MG	BA	3317	1/1	0.92	0.41	49,49,49,49	0
52	MG	BA	3308	1/1	0.92	0.24	55,55,55,55	0
52	MG	DA	3014	1/1	0.92	0.53	76,76,76,76	0
52	MG	BA	3074	1/1	0.92	0.62	67,67,67,67	0
52	MG	BA	3301	1/1	0.92	0.42	52,52,52,52	0
52	MG	BA	3226	1/1	0.92	0.45	42,42,42,42	0
52	MG	BA	3306	1/1	0.92	0.65	70,70,70,70	0
52	MG	AA	1615	1/1	0.92	0.63	72,72,72,72	0
52	MG	BA	3357	1/1	0.92	0.19	66,66,66,66	0
52	MG	BA	3284	1/1	0.92	0.34	34,34,34,34	0
52	MG	BA	3243	1/1	0.92	0.47	39,39,39,39	0
52	MG	BA	3187	1/1	0.92	0.78	60,60,60,60	0
52	MG	BA	3223	1/1	0.92	0.66	45,45,45,45	0
52	MG	BA	3205	1/1	0.92	1.14	68,68,68,68	0
52	MG	BA	3185	1/1	0.92	0.55	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	AA	1609	1/1	0.92	0.28	65,65,65,65	0
52	MG	BA	3049	1/1	0.92	0.47	26,26,26,26	0
52	MG	DA	3007	1/1	0.92	0.49	40,40,40,40	0
52	MG	DA	3278	1/1	0.92	0.87	83,83,83,83	0
52	MG	AA	1644	1/1	0.92	1.24	94,94,94,94	0
52	MG	BA	3065	1/1	0.93	0.23	37,37,37,37	0
52	MG	BX	101	1/1	0.93	0.33	58,58,58,58	0
52	MG	DA	3201	1/1	0.93	0.77	46,46,46,46	0
52	MG	DA	3071	1/1	0.93	0.72	85,85,85,85	0
52	MG	DA	3024	1/1	0.93	0.41	54,54,54,54	0
52	MG	BA	3097	1/1	0.93	0.44	53,53,53,53	0
52	MG	CA	1650	1/1	0.93	0.21	66,66,66,66	0
52	MG	BA	3071	1/1	0.93	0.47	32,32,32,32	0
52	MG	DA	3190	1/1	0.93	0.29	49,49,49,49	0
52	MG	B7	101	1/1	0.93	0.31	42,42,42,42	0
52	MG	DA	3219	1/1	0.93	0.53	49,49,49,49	0
52	MG	AA	1608	1/1	0.93	0.39	71,71,71,71	0
52	MG	DA	3312	1/1	0.93	0.42	53,53,53,53	0
52	MG	DA	3212	1/1	0.93	0.41	71,71,71,71	0
52	MG	BA	3209	1/1	0.93	0.23	51,51,51,51	0
52	MG	DA	3129	1/1	0.93	0.16	48,48,48,48	0
52	MG	BA	3337	1/1	0.93	0.97	61,61,61,61	0
52	MG	BA	3111	1/1	0.93	0.23	19,19,19,19	0
52	MG	AA	1620	1/1	0.93	0.70	95,95,95,95	0
52	MG	BA	3193	1/1	0.93	0.50	51,51,51,51	0
52	MG	DA	3004	1/1	0.93	0.27	39,39,39,39	0
52	MG	DA	3185	1/1	0.93	0.33	65,65,65,65	0
52	MG	CA	1622	1/1	0.93	0.41	75,75,75,75	0
52	MG	DA	3261	1/1	0.93	0.34	38,38,38,38	0
52	MG	BA	3281	1/1	0.93	0.17	45,45,45,45	0
52	MG	DA	3085	1/1	0.93	0.32	62,62,62,62	0
52	MG	AA	1629	1/1	0.93	0.68	83,83,83,83	0
52	MG	CA	1647	1/1	0.93	0.41	78,78,78,78	0
52	MG	BA	3320	1/1	0.93	0.19	48,48,48,48	0
52	MG	DA	3234	1/1	0.93	0.14	73,73,73,73	0
52	MG	BR	201	1/1	0.93	0.56	27,27,27,27	0
52	MG	DA	3096	1/1	0.93	0.38	42,42,42,42	0
52	MG	BA	3322	1/1	0.93	0.21	44,44,44,44	0
52	MG	DA	3132	1/1	0.93	0.14	72,72,72,72	0
52	MG	BA	3175	1/1	0.93	0.28	50,50,50,50	0
52	MG	DA	3257	1/1	0.93	0.23	72,72,72,72	0
52	MG	DA	3198	1/1	0.93	0.38	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
52	MG	DA	3083	1/1	0.93	0.45	43,43,43,43	0
52	MG	BA	3211	1/1	0.93	0.58	38,38,38,38	0
52	MG	BA	3294	1/1	0.93	0.28	40,40,40,40	0
52	MG	BA	3011	1/1	0.93	0.52	22,22,22,22	0
52	MG	DA	3066	1/1	0.93	0.24	52,52,52,52	0
52	MG	DA	3179	1/1	0.93	0.21	67,67,67,67	0
52	MG	DA	3039	1/1	0.93	1.12	69,69,69,69	0
52	MG	BA	3164	1/1	0.93	0.25	40,40,40,40	0
52	MG	BA	3133	1/1	0.93	0.26	38,38,38,38	0
52	MG	BA	3305	1/1	0.93	0.54	72,72,72,72	0
52	MG	DA	3089	1/1	0.93	0.22	54,54,54,54	0
52	MG	BA	3123	1/1	0.93	0.38	48,48,48,48	0
52	MG	BA	3241	1/1	0.93	0.58	69,69,69,69	0
52	MG	DA	3169	1/1	0.93	0.64	49,49,49,49	0
52	MG	BA	3222	1/1	0.93	0.29	58,58,58,58	0
52	MG	DA	3231	1/1	0.93	0.20	42,42,42,42	0
52	MG	DA	3128	1/1	0.94	0.56	62,62,62,62	0
52	MG	DA	3100	1/1	0.94	0.22	59,59,59,59	0
52	MG	DA	3063	1/1	0.94	0.77	72,72,72,72	0
52	MG	BA	3020	1/1	0.94	0.33	24,24,24,24	0
52	MG	BA	3009	1/1	0.94	0.35	44,44,44,44	0
52	MG	BA	3180	1/1	0.94	0.17	68,68,68,68	0
52	MG	BA	3056	1/1	0.94	0.12	31,31,31,31	0
52	MG	BA	3174	1/1	0.94	0.33	51,51,51,51	0
52	MG	AA	1603	1/1	0.94	0.29	45,45,45,45	0
52	MG	AA	1642	1/1	0.94	0.14	58,58,58,58	0
52	MG	DA	3215	1/1	0.94	0.15	61,61,61,61	0
52	MG	DA	3210	1/1	0.94	0.19	49,49,49,49	0
52	MG	BA	3310	1/1	0.94	0.58	74,74,74,74	0
52	MG	DA	3084	1/1	0.94	0.35	27,27,27,27	0
52	MG	DA	3309	1/1	0.94	0.05	76,76,76,76	0
52	MG	DA	3180	1/1	0.94	0.56	56,56,56,56	0
52	MG	BA	3027	1/1	0.94	0.49	19,19,19,19	0
52	MG	DR	202	1/1	0.94	0.59	50,50,50,50	0
52	MG	DA	3052	1/1	0.94	0.49	44,44,44,44	0
52	MG	DD	302	1/1	0.94	0.23	38,38,38,38	0
52	MG	BA	3057	1/1	0.94	0.24	40,40,40,40	0
52	MG	BA	3033	1/1	0.94	0.26	27,27,27,27	0
52	MG	DA	3184	1/1	0.94	0.24	96,96,96,96	0
52	MG	DA	3159	1/1	0.94	0.51	39,39,39,39	0
52	MG	BA	3238	1/1	0.94	0.34	70,70,70,70	0
52	MG	DA	3197	1/1	0.94	0.52	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3007	1/1	0.94	0.65	57,57,57,57	0
52	MG	BA	3120	1/1	0.94	0.30	65,65,65,65	0
52	MG	BA	3072	1/1	0.94	0.69	59,59,59,59	0
52	MG	BA	3119	1/1	0.94	0.26	47,47,47,47	0
52	MG	BA	3351	1/1	0.94	0.63	53,53,53,53	0
52	MG	DA	3017	1/1	0.94	0.25	55,55,55,55	0
52	MG	BA	3245	1/1	0.94	0.33	48,48,48,48	0
52	MG	DA	3143	1/1	0.94	0.51	43,43,43,43	0
52	MG	BA	3257	1/1	0.94	0.33	19,19,19,19	0
52	MG	DA	3103	1/1	0.94	0.41	58,58,58,58	0
52	MG	BQ	202	1/1	0.94	0.23	49,49,49,49	0
52	MG	DA	3154	1/1	0.94	0.54	66,66,66,66	0
52	MG	DA	3098	1/1	0.94	0.45	38,38,38,38	0
52	MG	DA	3237	1/1	0.94	0.40	56,56,56,56	0
52	MG	BA	3022	1/1	0.94	0.33	45,45,45,45	0
52	MG	BA	3315	1/1	0.94	0.80	62,62,62,62	0
54	K	DA	3319	1/1	0.94	0.17	82,82,82,82	0
52	MG	BA	3159	1/1	0.94	0.73	58,58,58,58	0
52	MG	DA	3125	1/1	0.94	0.11	54,54,54,54	0
52	MG	BA	3046	1/1	0.94	0.40	38,38,38,38	0
52	MG	BA	3070	1/1	0.94	0.31	25,25,25,25	0
52	MG	DA	3040	1/1	0.94	0.36	36,36,36,36	0
52	MG	DA	3263	1/1	0.94	0.67	55,55,55,55	0
52	MG	DA	3068	1/1	0.94	0.24	80,80,80,80	0
52	MG	DA	3121	1/1	0.94	1.02	64,64,64,64	0
52	MG	DA	3064	1/1	0.94	0.26	46,46,46,46	0
52	MG	BA	3143	1/1	0.94	0.40	34,34,34,34	0
52	MG	BA	3276	1/1	0.94	0.54	76,76,76,76	0
52	MG	BA	3333	1/1	0.94	0.23	48,48,48,48	0
52	MG	BA	3040	1/1	0.94	0.67	49,49,49,49	0
52	MG	DA	3062	1/1	0.94	0.58	76,76,76,76	0
52	MG	BA	3144	1/1	0.94	0.75	43,43,43,43	0
52	MG	DA	3310	1/1	0.94	0.47	54,54,54,54	0
52	MG	BA	3181	1/1	0.94	0.54	54,54,54,54	0
52	MG	BP	203	1/1	0.94	0.30	29,29,29,29	0
52	MG	DA	3282	1/1	0.94	0.26	59,59,59,59	0
52	MG	BA	3063	1/1	0.94	0.45	57,57,57,57	0
52	MG	DA	3092	1/1	0.94	0.29	61,61,61,61	0
52	MG	BA	3077	1/1	0.94	0.22	40,40,40,40	0
52	MG	CA	1649	1/1	0.94	0.18	80,80,80,80	0
52	MG	DD	301	1/1	0.94	0.36	56,56,56,56	0
52	MG	BA	3122	1/1	0.94	0.40	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3043	1/1	0.94	0.37	43,43,43,43	0
52	MG	DA	3288	1/1	0.94	0.29	32,32,32,32	0
52	MG	DA	3021	1/1	0.94	0.28	42,42,42,42	0
52	MG	BA	3162	1/1	0.94	0.49	69,69,69,69	0
52	MG	DA	3001	1/1	0.94	0.47	66,66,66,66	0
52	MG	B0	101	1/1	0.94	0.11	48,48,48,48	0
52	MG	BA	3261	1/1	0.94	0.29	34,34,34,34	0
52	MG	DA	3135	1/1	0.95	0.40	74,74,74,74	0
52	MG	BA	3338	1/1	0.95	0.24	61,61,61,61	0
52	MG	BA	3214	1/1	0.95	0.54	55,55,55,55	0
52	MG	DB	203	1/1	0.95	0.46	47,47,47,47	0
52	MG	DA	3253	1/1	0.95	0.14	51,51,51,51	0
52	MG	BA	3050	1/1	0.95	0.28	34,34,34,34	0
52	MG	BQ	201	1/1	0.95	0.21	32,32,32,32	0
52	MG	BA	3157	1/1	0.95	0.19	24,24,24,24	0
52	MG	BA	3249	1/1	0.95	0.16	56,56,56,56	0
52	MG	DA	3204	1/1	0.95	0.17	48,48,48,48	0
52	MG	DA	3026	1/1	0.95	0.56	32,32,32,32	0
52	MG	BA	3109	1/1	0.95	0.29	36,36,36,36	0
52	MG	DA	3216	1/1	0.95	0.89	78,78,78,78	0
52	MG	BA	3256	1/1	0.95	0.40	43,43,43,43	0
52	MG	BA	3158	1/1	0.95	0.37	32,32,32,32	0
52	MG	AA	1613	1/1	0.95	0.34	76,76,76,76	0
52	MG	BA	3083	1/1	0.95	0.57	45,45,45,45	0
53	ZN	CN	101	1/1	0.95	0.14	164,164,164,164	0
52	MG	BA	3267	1/1	0.95	0.41	40,40,40,40	0
52	MG	BA	3167	1/1	0.95	0.30	27,27,27,27	0
52	MG	BA	3047	1/1	0.95	0.63	41,41,41,41	0
52	MG	BA	3141	1/1	0.95	0.34	19,19,19,19	0
52	MG	BA	3153	1/1	0.95	0.32	62,62,62,62	0
52	MG	BA	3004	1/1	0.95	0.28	31,31,31,31	0
52	MG	BA	3189	1/1	0.95	0.46	40,40,40,40	0
52	MG	BA	3240	1/1	0.95	0.44	39,39,39,39	0
52	MG	BA	3286	1/1	0.95	0.22	72,72,72,72	0
52	MG	CA	1620	1/1	0.95	0.22	70,70,70,70	0
52	MG	BA	3169	1/1	0.95	0.74	49,49,49,49	0
52	MG	DA	3117	1/1	0.95	0.32	59,59,59,59	0
52	MG	DA	3161	1/1	0.95	0.29	72,72,72,72	0
52	MG	DA	3240	1/1	0.95	0.17	47,47,47,47	0
52	MG	DA	3223	1/1	0.95	0.28	62,62,62,62	0
52	MG	BA	3173	1/1	0.95	0.59	46,46,46,46	0
52	MG	DA	3088	1/1	0.95	0.60	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3010	1/1	0.95	0.61	45,45,45,45	0
52	MG	DA	3080	1/1	0.95	0.63	59,59,59,59	0
52	MG	BA	3102	1/1	0.95	0.37	41,41,41,41	0
52	MG	BA	3250	1/1	0.95	0.23	40,40,40,40	0
52	MG	DA	3086	1/1	0.95	0.24	61,61,61,61	0
52	MG	AA	1652	1/1	0.95	0.14	83,83,83,83	0
52	MG	DA	3167	1/1	0.95	0.27	45,45,45,45	0
52	MG	BA	3128	1/1	0.95	0.18	63,63,63,63	0
52	MG	BA	3068	1/1	0.95	0.58	47,47,47,47	0
52	MG	DA	3315	1/1	0.95	0.14	69,69,69,69	0
52	MG	BA	3237	1/1	0.95	0.46	60,60,60,60	0
52	MG	BA	3053	1/1	0.95	0.57	33,33,33,33	0
52	MG	BA	3052	1/1	0.95	0.34	17,17,17,17	0
52	MG	BA	3148	1/1	0.95	0.55	28,28,28,28	0
52	MG	DA	3181	1/1	0.95	0.30	62,62,62,62	0
52	MG	BA	3221	1/1	0.95	0.48	47,47,47,47	0
52	MG	DA	3251	1/1	0.95	0.43	91,91,91,91	0
52	MG	BA	3273	1/1	0.95	0.35	44,44,44,44	0
52	MG	BA	3134	1/1	0.95	0.19	52,52,52,52	0
52	MG	DA	3011	1/1	0.95	0.33	43,43,43,43	0
52	MG	DA	3055	1/1	0.95	0.45	38,38,38,38	0
52	MG	DA	3032	1/1	0.95	0.44	51,51,51,51	0
52	MG	BA	3110	1/1	0.95	0.40	23,23,23,23	0
52	MG	DA	3178	1/1	0.95	0.41	52,52,52,52	0
52	MG	CA	1615	1/1	0.95	0.38	69,69,69,69	0
52	MG	DA	3105	1/1	0.95	0.44	74,74,74,74	0
52	MG	DA	3006	1/1	0.95	0.52	40,40,40,40	0
52	MG	BA	3277	1/1	0.95	0.26	49,49,49,49	0
52	MG	BA	3135	1/1	0.95	0.52	30,30,30,30	0
52	MG	BA	3179	1/1	0.96	0.68	55,55,55,55	0
52	MG	DA	3027	1/1	0.96	0.31	43,43,43,43	0
52	MG	DA	3151	1/1	0.96	0.20	66,66,66,66	0
52	MG	DA	3195	1/1	0.96	0.22	62,62,62,62	0
52	MG	BA	3231	1/1	0.96	0.25	31,31,31,31	0
52	MG	DA	3127	1/1	0.96	0.33	40,40,40,40	0
52	MG	BA	3344	1/1	0.96	0.17	43,43,43,43	0
52	MG	BA	3003	1/1	0.96	0.56	34,34,34,34	0
52	MG	BA	3168	1/1	0.96	0.35	59,59,59,59	0
52	MG	BA	3190	1/1	0.96	0.45	34,34,34,34	0
52	MG	DA	3077	1/1	0.96	0.40	46,46,46,46	0
52	MG	DA	3049	1/1	0.96	0.20	54,54,54,54	0
52	MG	BA	3210	1/1	0.96	0.59	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	CA	1603	1/1	0.96	0.34	57,57,57,57	0
52	MG	BB	207	1/1	0.96	0.26	80,80,80,80	0
52	MG	BA	3012	1/1	0.96	0.54	61,61,61,61	0
52	MG	BA	3023	1/1	0.96	0.34	31,31,31,31	0
52	MG	BA	3025	1/1	0.96	0.41	64,64,64,64	0
52	MG	BA	3263	1/1	0.96	0.45	54,54,54,54	0
52	MG	BD	301	1/1	0.96	0.45	51,51,51,51	0
52	MG	BA	3100	1/1	0.96	0.47	40,40,40,40	0
52	MG	BA	3324	1/1	0.96	0.42	64,64,64,64	0
52	MG	BA	3073	1/1	0.96	0.37	24,24,24,24	0
52	MG	DA	3110	1/1	0.96	0.65	46,46,46,46	0
52	MG	BA	3028	1/1	0.96	0.34	30,30,30,30	0
52	MG	BA	3104	1/1	0.96	0.18	45,45,45,45	0
52	MG	BA	3001	1/1	0.96	0.30	55,55,55,55	0
52	MG	CA	1640	1/1	0.96	0.33	74,74,74,74	0
52	MG	DA	3075	1/1	0.96	0.26	50,50,50,50	0
52	MG	BA	3037	1/1	0.96	0.44	14,14,14,14	0
52	MG	BA	3163	1/1	0.96	0.36	45,45,45,45	0
52	MG	DA	3020	1/1	0.96	0.54	74,74,74,74	0
52	MG	BA	3358	1/1	0.96	0.06	34,34,34,34	0
52	MG	BA	3170	1/1	0.96	0.86	44,44,44,44	0
52	MG	BA	3204	1/1	0.96	0.60	49,49,49,49	0
52	MG	BA	3184	1/1	0.96	0.21	62,62,62,62	0
52	MG	DA	3097	1/1	0.96	0.40	51,51,51,51	0
52	MG	BA	3319	1/1	0.96	0.43	60,60,60,60	0
52	MG	CA	1637	1/1	0.96	0.14	85,85,85,85	0
52	MG	DA	3036	1/1	0.96	1.02	54,54,54,54	0
52	MG	BA	3194	1/1	0.96	0.28	27,27,27,27	0
52	MG	DA	3168	1/1	0.96	0.49	64,64,64,64	0
52	MG	BA	3021	1/1	0.96	0.36	30,30,30,30	0
52	MG	AA	1624	1/1	0.96	0.43	55,55,55,55	0
52	MG	BA	3225	1/1	0.96	0.46	23,23,23,23	0
52	MG	DA	3050	1/1	0.96	0.48	39,39,39,39	0
52	MG	BA	3043	1/1	0.96	0.20	39,39,39,39	0
52	MG	BA	3342	1/1	0.96	0.20	39,39,39,39	0
52	MG	DA	3304	1/1	0.96	0.13	67,67,67,67	0
52	MG	DA	3192	1/1	0.96	0.60	71,71,71,71	0
52	MG	B5	101	1/1	0.96	0.33	54,54,54,54	0
52	MG	DA	3015	1/1	0.96	0.47	40,40,40,40	0
52	MG	BA	3171	1/1	0.96	0.57	45,45,45,45	0
52	MG	DA	3160	1/1	0.96	0.57	51,51,51,51	0
52	MG	BA	3218	1/1	0.96	0.89	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
52	MG	AA	1640	1/1	0.96	0.32	77,77,77,77	0
52	MG	BA	3248	1/1	0.96	0.08	57,57,57,57	0
52	MG	DA	3303	1/1	0.96	0.25	57,57,57,57	0
52	MG	DA	3133	1/1	0.96	0.33	31,31,31,31	0
52	MG	BA	3125	1/1	0.96	0.12	53,53,53,53	0
52	MG	DA	3148	1/1	0.96	0.69	61,61,61,61	0
52	MG	BA	3131	1/1	0.96	0.16	17,17,17,17	0
52	MG	BA	3061	1/1	0.96	0.43	36,36,36,36	0
52	MG	BA	3197	1/1	0.96	0.48	46,46,46,46	0
52	MG	BA	3177	1/1	0.96	0.33	57,57,57,57	0
52	MG	BA	3005	1/1	0.96	0.37	56,56,56,56	0
52	MG	BA	3299	1/1	0.96	0.79	43,43,43,43	0
52	MG	DA	3044	1/1	0.96	0.40	39,39,39,39	0
52	MG	DA	3224	1/1	0.96	0.59	47,47,47,47	0
52	MG	DA	3214	1/1	0.96	0.32	33,33,33,33	0
52	MG	AA	1621	1/1	0.96	0.54	51,51,51,51	0
52	MG	BA	3215	1/1	0.96	0.36	37,37,37,37	0
52	MG	BA	3186	1/1	0.96	0.45	44,44,44,44	0
52	MG	AA	1635	1/1	0.96	0.70	50,50,50,50	0
52	MG	DA	3031	1/1	0.96	0.67	61,61,61,61	0
52	MG	DA	3173	1/1	0.96	0.53	48,48,48,48	0
52	MG	BA	3220	1/1	0.96	0.53	36,36,36,36	0
52	MG	BA	3216	1/1	0.96	0.23	46,46,46,46	0
52	MG	BA	3354	1/1	0.96	0.21	71,71,71,71	0
52	MG	DA	3222	1/1	0.96	0.23	72,72,72,72	0
52	MG	BB	202	1/1	0.96	0.44	44,44,44,44	0
52	MG	DA	3069	1/1	0.96	0.35	54,54,54,54	0
52	MG	DA	3267	1/1	0.96	0.24	57,57,57,57	0
52	MG	BA	3094	1/1	0.96	0.74	47,47,47,47	0
52	MG	BA	3200	1/1	0.96	0.82	55,55,55,55	0
52	MG	BA	3014	1/1	0.96	0.47	46,46,46,46	0
52	MG	BA	3082	1/1	0.96	0.42	37,37,37,37	0
52	MG	BA	3132	1/1	0.96	0.39	59,59,59,59	0
52	MG	DA	3174	1/1	0.96	0.48	35,35,35,35	0
52	MG	BA	3229	1/1	0.96	0.06	30,30,30,30	0
52	MG	BA	3062	1/1	0.96	0.16	38,38,38,38	0
52	MG	DA	3294	1/1	0.96	0.29	50,50,50,50	0
52	MG	BA	3156	1/1	0.96	0.54	31,31,31,31	0
52	MG	CA	1623	1/1	0.96	0.15	79,79,79,79	0
52	MG	BA	3307	1/1	0.96	1.20	70,70,70,70	0
52	MG	BA	3103	1/1	0.97	0.25	31,31,31,31	0
52	MG	BA	3035	1/1	0.97	0.37	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3336	1/1	0.97	0.51	61,61,61,61	0
52	MG	BU	201	1/1	0.97	0.30	29,29,29,29	0
52	MG	BA	3316	1/1	0.97	0.11	43,43,43,43	0
52	MG	BA	3266	1/1	0.97	0.67	63,63,63,63	0
52	MG	BA	3192	1/1	0.97	0.71	42,42,42,42	0
52	MG	BA	3018	1/1	0.97	0.27	25,25,25,25	0
52	MG	AA	1601	1/1	0.97	0.08	68,68,68,68	0
52	MG	DA	3298	1/1	0.97	0.23	46,46,46,46	0
52	MG	CA	1626	1/1	0.97	0.62	70,70,70,70	0
52	MG	DA	3023	1/1	0.97	0.24	39,39,39,39	0
52	MG	BP	201	1/1	0.97	0.32	17,17,17,17	0
52	MG	BA	3272	1/1	0.97	0.51	38,38,38,38	0
52	MG	BA	3013	1/1	0.97	0.59	33,33,33,33	0
52	MG	BA	3118	1/1	0.97	0.34	44,44,44,44	0
52	MG	DA	3008	1/1	0.97	0.37	50,50,50,50	0
52	MG	BA	3264	1/1	0.97	0.23	58,58,58,58	0
52	MG	BP	202	1/1	0.97	0.85	66,66,66,66	0
52	MG	BA	3113	1/1	0.97	0.46	28,28,28,28	0
52	MG	AA	1651	1/1	0.97	0.21	81,81,81,81	0
52	MG	DA	3034	1/1	0.97	0.60	51,51,51,51	0
52	MG	BA	3099	1/1	0.97	0.25	45,45,45,45	0
52	MG	DA	3070	1/1	0.97	0.43	52,52,52,52	0
52	MG	BA	3036	1/1	0.97	0.25	0,0,0,0	0
52	MG	DA	3218	1/1	0.97	0.56	53,53,53,53	0
52	MG	BA	3137	1/1	0.97	0.27	16,16,16,16	0
52	MG	BB	204	1/1	0.97	0.48	47,47,47,47	0
52	MG	DA	3112	1/1	0.97	0.13	76,76,76,76	0
52	MG	DA	3067	1/1	0.97	0.64	57,57,57,57	0
52	MG	DA	3213	1/1	0.97	0.45	44,44,44,44	0
52	MG	DA	3009	1/1	0.97	0.31	52,52,52,52	0
52	MG	BA	3030	1/1	0.97	0.17	26,26,26,26	0
52	MG	BA	3208	1/1	0.97	0.52	36,36,36,36	0
52	MG	DA	3106	1/1	0.97	0.65	50,50,50,50	0
52	MG	AA	1611	1/1	0.97	0.57	50,50,50,50	0
52	MG	BA	3195	1/1	0.97	0.17	40,40,40,40	0
52	MG	DP	201	1/1	0.97	0.18	42,42,42,42	0
52	MG	BA	3311	1/1	0.97	1.08	69,69,69,69	0
52	MG	BA	3198	1/1	0.97	0.37	24,24,24,24	0
52	MG	BA	3086	1/1	0.97	0.20	28,28,28,28	0
52	MG	DA	3047	1/1	0.97	0.25	28,28,28,28	0
52	MG	BA	3008	1/1	0.97	0.50	36,36,36,36	0
52	MG	DA	3037	1/1	0.97	0.54	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3277	1/1	0.97	0.19	66,66,66,66	0
52	MG	DA	3246	1/1	0.97	0.15	70,70,70,70	0
52	MG	DA	3056	1/1	0.97	0.41	51,51,51,51	0
52	MG	BA	3145	1/1	0.97	0.54	54,54,54,54	0
52	MG	DA	3059	1/1	0.97	0.16	55,55,55,55	0
52	MG	BA	3236	1/1	0.97	0.57	38,38,38,38	0
52	MG	DA	3065	1/1	0.97	0.41	70,70,70,70	0
52	MG	BA	3045	1/1	0.97	0.35	22,22,22,22	0
52	MG	BA	3107	1/1	0.97	0.15	20,20,20,20	0
52	MG	DA	3138	1/1	0.97	0.52	35,35,35,35	0
52	MG	DA	3175	1/1	0.97	0.59	68,68,68,68	0
52	MG	BA	3260	1/1	0.97	0.14	46,46,46,46	0
52	MG	DA	3091	1/1	0.97	0.61	44,44,44,44	0
52	MG	DA	3137	1/1	0.97	0.57	49,49,49,49	0
52	MG	BA	3060	1/1	0.97	0.33	59,59,59,59	0
52	MG	DA	3140	1/1	0.97	0.62	46,46,46,46	0
52	MG	BA	3142	1/1	0.97	0.71	47,47,47,47	0
52	MG	BA	3230	1/1	0.97	0.38	44,44,44,44	0
52	MG	DA	3243	1/1	0.97	0.12	94,94,94,94	0
52	MG	BA	3206	1/1	0.97	0.36	36,36,36,36	0
52	MG	DA	3245	1/1	0.97	0.54	44,44,44,44	0
52	MG	DA	3028	1/1	0.97	0.33	68,68,68,68	0
52	MG	DA	3053	1/1	0.97	0.72	90,90,90,90	0
52	MG	BA	3287	1/1	0.97	0.34	59,59,59,59	0
52	MG	CA	1632	1/1	0.97	0.33	76,76,76,76	0
52	MG	BA	3191	1/1	0.97	0.59	59,59,59,59	0
52	MG	BA	3078	1/1	0.97	0.46	39,39,39,39	0
52	MG	BA	3051	1/1	0.97	0.32	22,22,22,22	0
52	MG	BA	3080	1/1	0.97	0.71	23,23,23,23	0
52	MG	BA	3085	1/1	0.97	0.12	0,0,0,0	0
52	MG	DA	3030	1/1	0.98	0.21	66,66,66,66	0
52	MG	BA	3089	1/1	0.98	0.31	20,20,20,20	0
52	MG	DA	3107	1/1	0.98	0.31	42,42,42,42	0
52	MG	BA	3032	1/1	0.98	0.34	39,39,39,39	0
52	MG	DA	3124	1/1	0.98	0.14	63,63,63,63	0
52	MG	DA	3153	1/1	0.98	0.20	80,80,80,80	0
52	MG	DA	3305	1/1	0.98	0.06	80,80,80,80	0
52	MG	DA	3099	1/1	0.98	0.41	56,56,56,56	0
52	MG	BA	3084	1/1	0.98	0.40	25,25,25,25	0
52	MG	BA	3178	1/1	0.98	0.26	25,25,25,25	0
52	MG	DA	3058	1/1	0.98	0.55	42,42,42,42	0
52	MG	DA	3076	1/1	0.98	0.26	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3189	1/1	0.98	0.28	45,45,45,45	0
52	MG	BA	3015	1/1	0.98	0.18	46,46,46,46	0
52	MG	DA	3033	1/1	0.98	0.44	63,63,63,63	0
52	MG	DA	3101	1/1	0.98	0.61	57,57,57,57	0
52	MG	DA	3147	1/1	0.98	0.58	35,35,35,35	0
52	MG	BA	3079	1/1	0.98	0.20	48,48,48,48	0
52	MG	BA	3101	1/1	0.98	0.34	17,17,17,17	0
52	MG	CA	1618	1/1	0.98	0.68	84,84,84,84	0
52	MG	DA	3164	1/1	0.98	0.28	50,50,50,50	0
52	MG	BA	3055	1/1	0.98	0.39	31,31,31,31	0
52	MG	DA	3149	1/1	0.98	0.49	51,51,51,51	0
52	MG	AA	1616	1/1	0.98	0.18	68,68,68,68	0
52	MG	BA	3029	1/1	0.98	0.27	30,30,30,30	0
52	MG	BA	3149	1/1	0.98	0.14	24,24,24,24	0
53	ZN	CD	301	1/1	0.98	0.21	105,105,105,105	0
52	MG	BA	3349	1/1	0.98	0.40	51,51,51,51	0
52	MG	BA	3081	1/1	0.98	0.44	39,39,39,39	0
52	MG	DR	201	1/1	0.98	0.61	45,45,45,45	0
52	MG	BA	3300	1/1	0.98	0.16	56,56,56,56	0
52	MG	BA	3253	1/1	0.98	0.07	42,42,42,42	0
52	MG	DA	3072	1/1	0.98	0.28	42,42,42,42	0
54	K	BA	3361	1/1	0.98	0.10	69,69,69,69	0
52	MG	BA	3346	1/1	0.98	0.16	61,61,61,61	0
52	MG	D5	101	1/1	0.98	0.57	51,51,51,51	0
52	MG	BA	3058	1/1	0.98	0.22	47,47,47,47	0
52	MG	BA	3270	1/1	0.98	0.21	24,24,24,24	0
52	MG	BA	3066	1/1	0.98	0.34	36,36,36,36	0
52	MG	BA	3017	1/1	0.98	0.52	46,46,46,46	0
52	MG	BA	3031	1/1	0.98	0.32	66,66,66,66	0
52	MG	DA	3187	1/1	0.98	0.65	53,53,53,53	0
52	MG	BA	3227	1/1	0.98	0.24	21,21,21,21	0
52	MG	BA	3010	1/1	0.98	0.53	53,53,53,53	0
52	MG	DA	3019	1/1	0.98	0.54	42,42,42,42	0
52	MG	BA	3105	1/1	0.98	0.40	32,32,32,32	0
52	MG	BA	3092	1/1	0.98	0.40	22,22,22,22	0
52	MG	CA	1629	1/1	0.98	0.11	69,69,69,69	0
52	MG	BA	3155	1/1	0.98	0.47	42,42,42,42	0
52	MG	BA	3076	1/1	0.98	0.15	29,29,29,29	0
52	MG	AA	1607	1/1	0.98	0.28	81,81,81,81	0
52	MG	AA	1634	1/1	0.98	0.42	54,54,54,54	0
52	MG	DA	3208	1/1	0.98	0.41	43,43,43,43	0
52	MG	BA	3016	1/1	0.98	0.36	30,30,30,30	0

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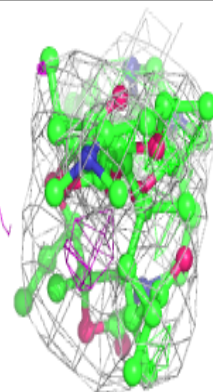
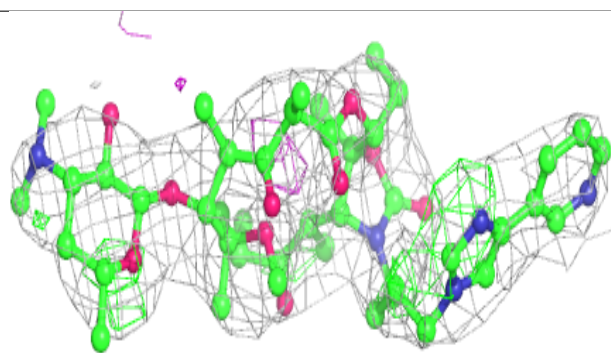
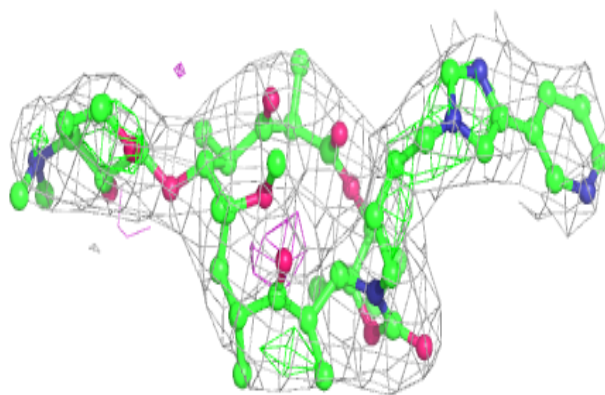
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	B1	101	1/1	0.98	0.16	41,41,41,41	0
52	MG	DA	3176	1/1	0.98	0.83	41,41,41,41	0
52	MG	DA	3280	1/1	0.98	0.26	67,67,67,67	0
52	MG	DA	3035	1/1	0.98	0.62	41,41,41,41	0
52	MG	DA	3193	1/1	0.98	0.47	54,54,54,54	0
52	MG	DA	3051	1/1	0.98	0.40	53,53,53,53	0
52	MG	DA	3042	1/1	0.98	0.22	48,48,48,48	0
52	MG	DA	3022	1/1	0.98	0.40	38,38,38,38	0
52	MG	BA	3059	1/1	0.99	0.38	46,46,46,46	0
52	MG	DE	301	1/1	0.99	0.18	34,34,34,34	0
52	MG	DA	3029	1/1	0.99	0.24	36,36,36,36	0
52	MG	BA	3041	1/1	0.99	0.30	22,22,22,22	0
52	MG	BA	3124	1/1	0.99	0.37	12,12,12,12	0
52	MG	AA	1631	1/1	0.99	0.09	63,63,63,63	0
52	MG	BA	3282	1/1	0.99	0.34	49,49,49,49	0
53	ZN	AD	301	1/1	0.99	0.28	110,110,110,110	0
52	MG	BA	3087	1/1	0.99	0.09	18,18,18,18	0
52	MG	BA	3096	1/1	0.99	0.60	33,33,33,33	0
52	MG	DA	3057	1/1	0.99	0.24	60,60,60,60	0
52	MG	BA	3024	1/1	0.99	0.18	37,37,37,37	0
52	MG	CA	1610	1/1	0.99	0.18	106,106,106,106	0
52	MG	BA	3182	1/1	0.99	0.48	54,54,54,54	0
52	MG	BA	3006	1/1	0.99	0.52	27,27,27,27	0
52	MG	DA	3018	1/1	0.99	0.67	34,34,34,34	0
52	MG	BA	3044	1/1	0.99	0.45	19,19,19,19	0
52	MG	BA	3048	1/1	0.99	0.37	20,20,20,20	0
52	MG	BA	3254	1/1	0.99	0.09	58,58,58,58	0
52	MG	BA	3293	1/1	0.99	0.07	51,51,51,51	0
52	MG	DA	3078	1/1	0.99	0.14	62,62,62,62	0
52	MG	BA	3274	1/1	0.99	0.23	36,36,36,36	0
52	MG	DA	3233	1/1	0.99	0.07	57,57,57,57	0
52	MG	AA	1649	1/1	0.99	0.42	68,68,68,68	0
52	MG	DA	3061	1/1	0.99	0.17	40,40,40,40	0
52	MG	BA	3217	1/1	0.99	0.59	34,34,34,34	0
52	MG	BA	3212	1/1	0.99	0.11	29,29,29,29	0
52	MG	BA	3038	1/1	0.99	0.58	25,25,25,25	0

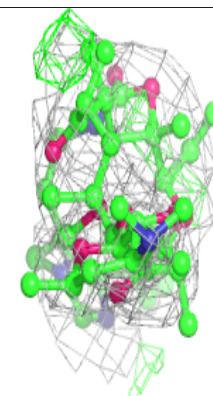
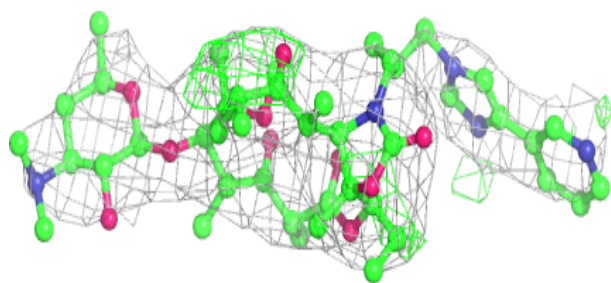
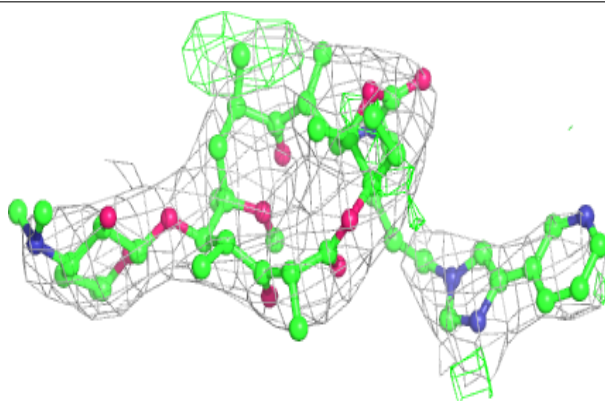
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around TEL BA 3362:

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

**Electron density around TEL DA 3320:**

$2mF_o-DF_c$ (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.