



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 08:14 PM UTC

PDB ID : 4DR7 / pdb_00004dr7
Title : Crystal structure of the *Thermus thermophilus* (HB8) 30S ribosomal subunit with codon, crystallographically disordered near-cognate transfer RNA anti-codon stem-loop mismatched at the second codon position, and streptomycin bound
Authors : Demirci, H.; Murphy IV, F.; Murphy, E.; Gregory, S.T.; Dahlberg, A.E.; Jogl, G.
Deposited on : 2012-02-16
Resolution : 3.75 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)

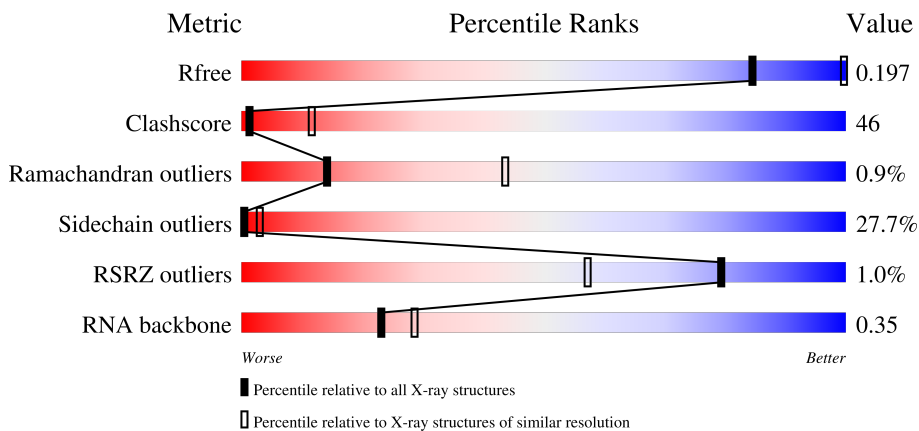
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.75 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}	180053	1029 (3.90-3.62)
Clashscore	190562	1061 (3.90-3.62)
Ramachandran outliers	187476	1014 (3.90-3.62)
Sidechain outliers	187428	1009 (3.90-3.62)
RSRZ outliers	180081	1028 (3.90-3.62)
RNA backbone	3983	1001 (4.40-3.10)


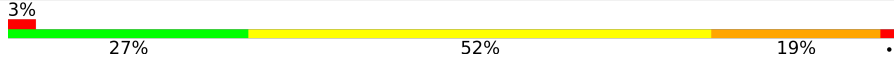

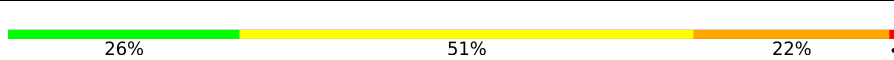
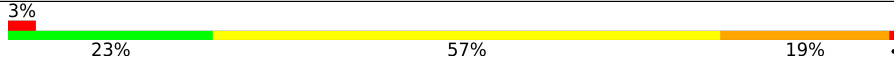
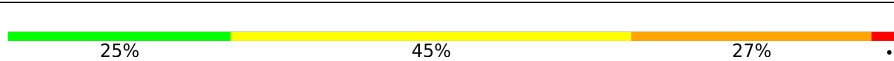
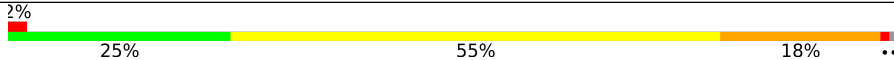
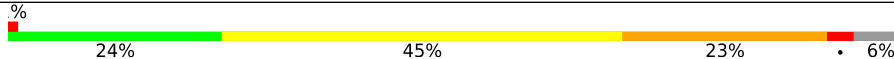
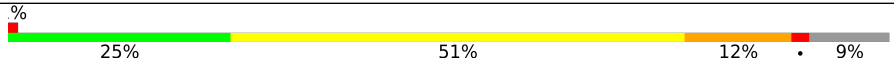
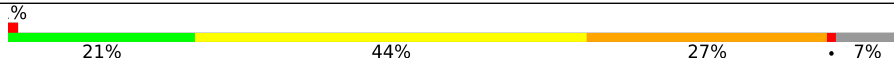
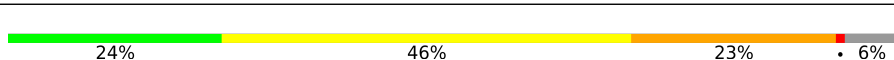
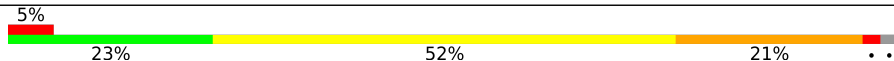
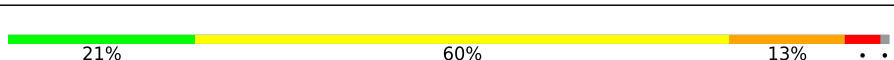
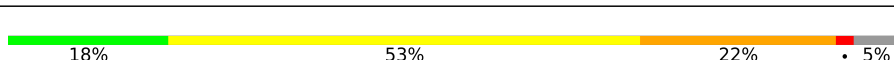
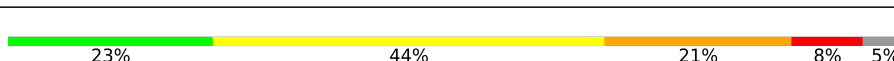
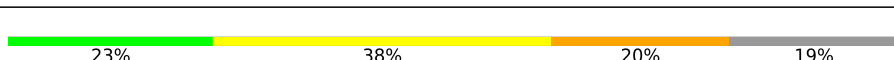
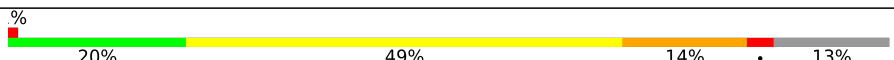
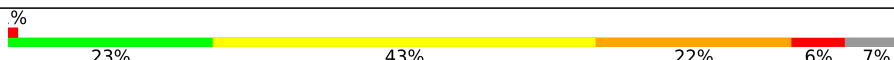
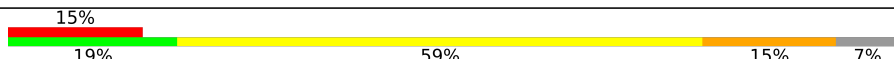

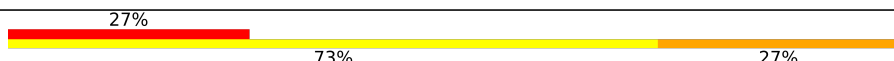

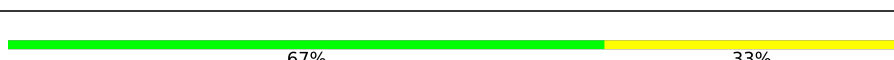
The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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	A	1522	 24% 55% 20% ..
2	B	256	 23% 48% 20% . 8%

Continued on next page...

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	C	239	
4	D	209	
5	E	162	
6	F	101	
7	G	156	
8	H	138	
9	I	128	
10	J	105	
11	K	129	
12	L	135	
13	M	126	
14	N	61	
15	O	89	
16	P	88	
17	Q	105	
18	R	88	
19	S	93	
20	T	106	
21	U	27	
22	V	4	
23	W	11	
24	a	8	
25	b	3	

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
1	2MG	A	1207	-	-	X	-
1	5MC	A	1407	-	-	X	-
1	UR3	A	1498	-	-	X	-
1	MA6	A	1518[A]	-	-	X	-
1	MA6	A	1518[B]	-	-	X	-
1	MA6	A	1519[A]	-	-	X	-
1	MA6	A	1519[B]	-	-	X	-
26	MG	A	1728	-	-	-	X

2 Entry composition [i](#)

There are 29 unique types of molecules in this entry. The entry contains 53659 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	A	1513	32707	14570	6056	10561	1520	0	8	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1534	C	A	conflict	GB M26923.1
A	1535	A	C	conflict	GB M26923.1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	236	1896	1211	337	343	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	C	207	1613	1016	315	281	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	D	208	1703	1066	339	291	7	0	0	0

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
9	I	127	1010	639	197	174	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	J	99	793	498	157	137	1	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	K	117	873	543	166	161	3	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	L	125	973	612	196	163	2	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	M	118	937	579	193	163	2	0	0	0

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
17	Q	100	834	534	156	142	2	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Q	96	GLN	GLU	conflict	UNP Q5SHP7

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
18	R	71	585	373	116	96	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
19	S	81	648	414	120	112	2	0	0	1

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

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

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

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

- Molecule 22 is a RNA chain called 5'-R(*UP*UP*UP*U)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
22	V	4	77	36	8	30	3	0	0	0

- Molecule 23 is a RNA chain called 5'-R(*GP*CP*CP*UP*GP*GP*AP*AP*AP*GP*(PSU))-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
23	W	11	235	106	45	74	10	0	0	0

- Molecule 24 is a RNA chain called 5'-R(P*UP*GP*GP*AP*AP*AP*GP*(PSU))-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
24	a	8	175	78	34	55	8	0	0	0

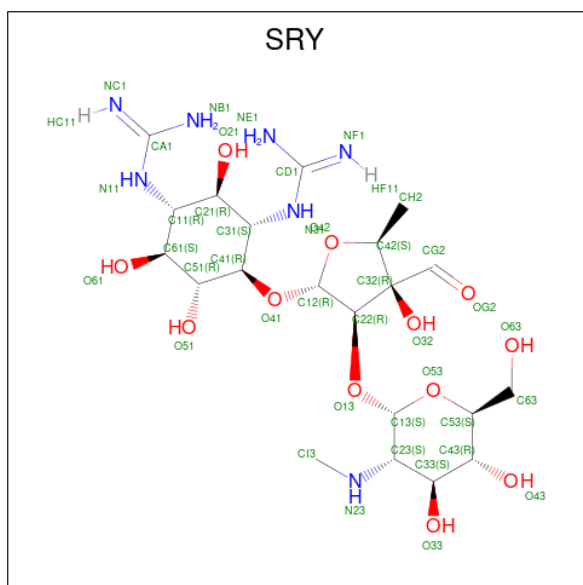
- Molecule 25 is a RNA chain called 5'-R(P*UP*UP*U)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
25	b	3	60	27	6	24	3	0	0	0

- Molecule 26 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	A	326	Total Mg 326 326	0	0
26	D	3	Total Mg 3 3	0	0
26	E	4	Total Mg 4 4	0	0
26	F	1	Total Mg 1 1	0	0
26	G	1	Total Mg 1 1	0	0
26	H	1	Total Mg 1 1	0	0
26	J	1	Total Mg 1 1	0	0
26	N	1	Total Mg 1 1	0	0
26	P	3	Total Mg 3 3	0	0
26	Q	1	Total Mg 1 1	0	0
26	S	2	Total Mg 2 2	0	0

- Molecule 27 is STREPTOMYCIN (CCD ID: SRY) (formula: $C_{21}H_{39}N_7O_{12}$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
27	A	1	Total C N O 40 21 7 12	0	0

- Molecule 28 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
28	D	1	Total Zn 1 1	0	0
28	N	1	Total Zn 1 1	0	0

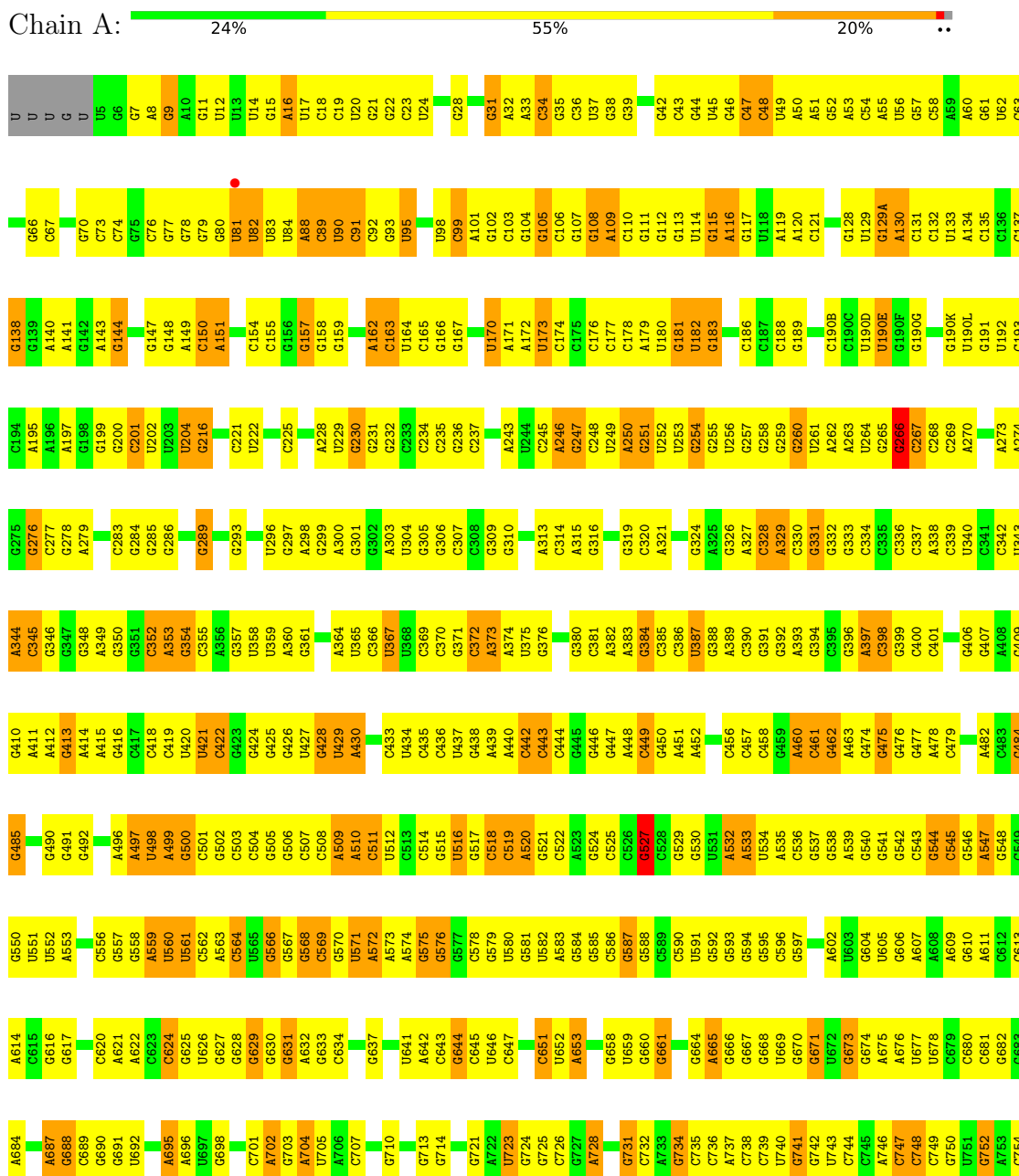
- Molecule 29 is water.

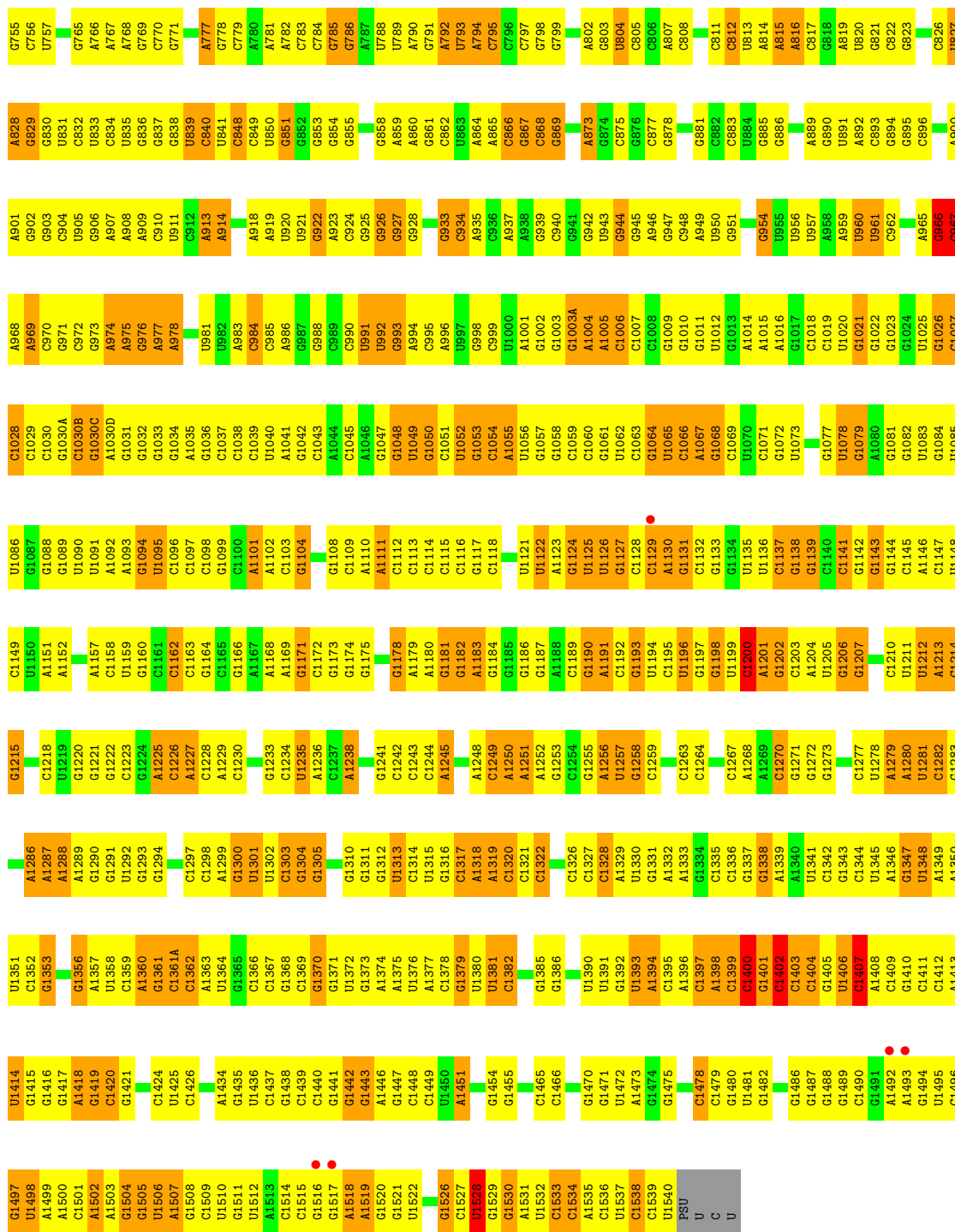
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
29	A	866	Total O 866 866	0	0
29	C	1	Total O 1 1	0	0
29	D	7	Total O 7 7	0	0
29	E	5	Total O 5 5	0	0
29	L	1	Total O 1 1	0	0
29	N	1	Total O 1 1	0	0
29	P	1	Total O 1 1	0	0
29	Q	2	Total O 2 2	0	0
29	T	3	Total O 3 3	0	0
29	U	4	Total O 4 4	0	0
29	W	1	Total O 1 1	0	0

3 Residue-property plots

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

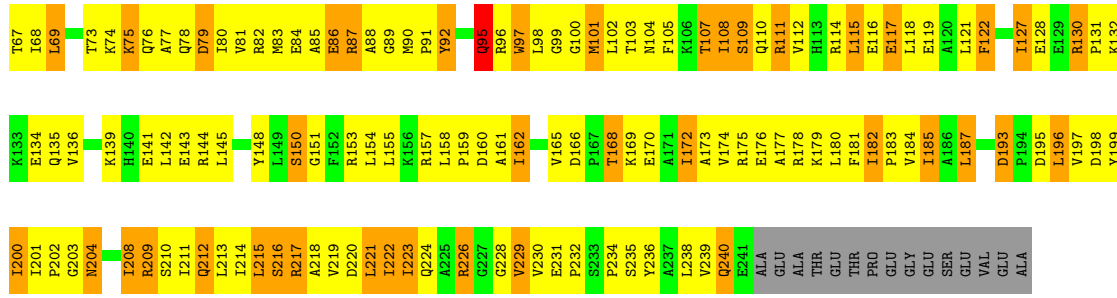
- Molecule 1: 16S rRNA



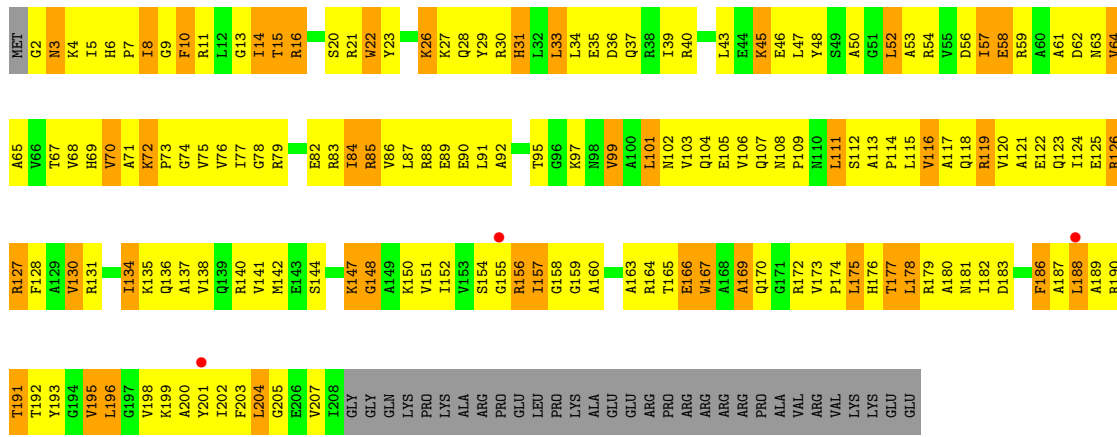
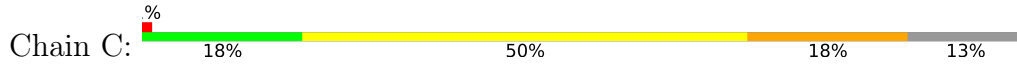


• Molecule 2: 30S ribosomal protein S2

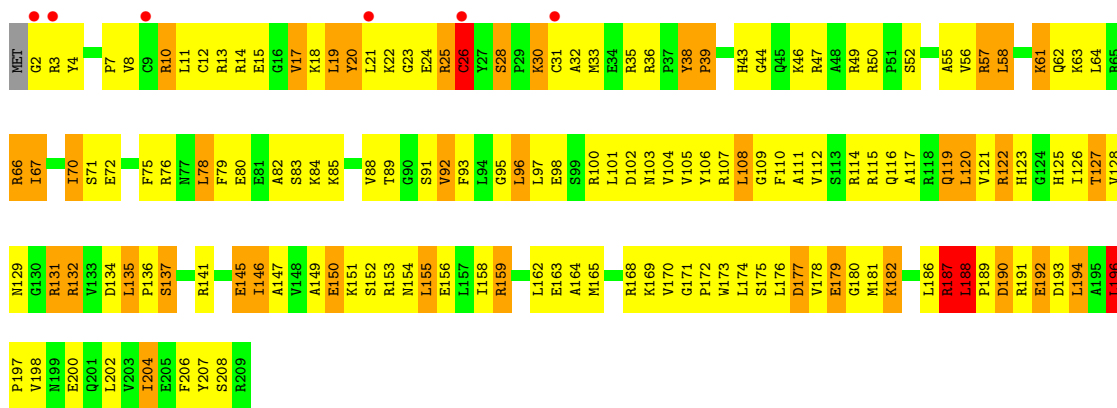




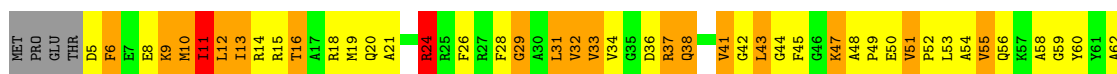
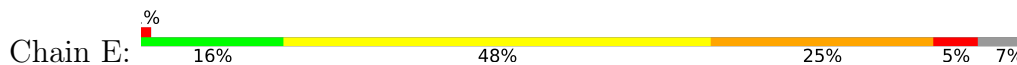
• Molecule 3: 30S ribosomal protein S3

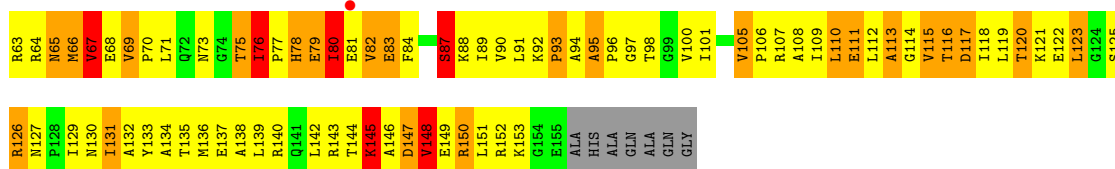


• Molecule 4: 30S ribosomal protein S4

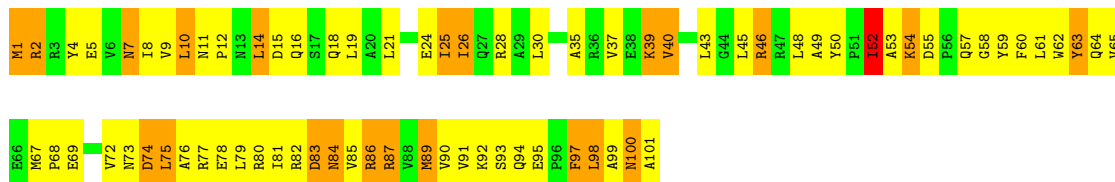
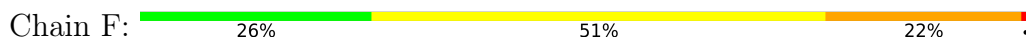


• Molecule 5: 30S ribosomal protein S5

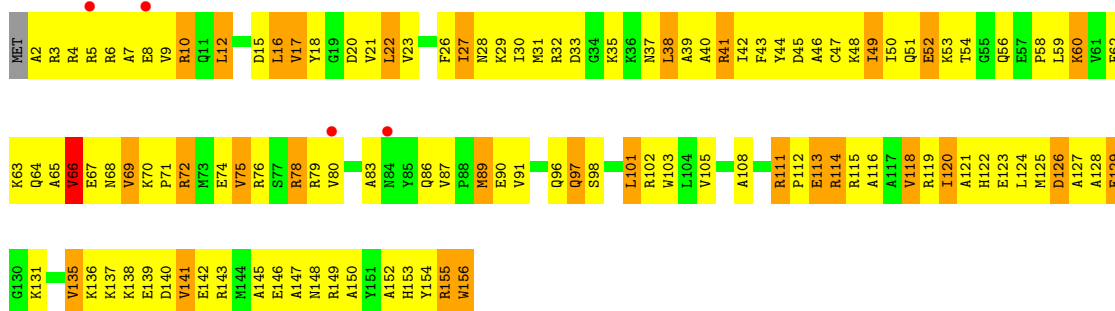
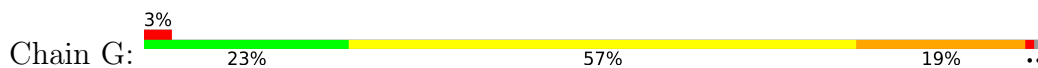




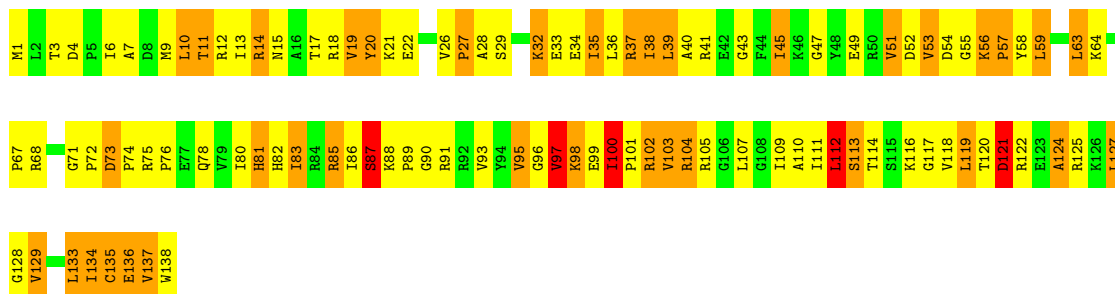
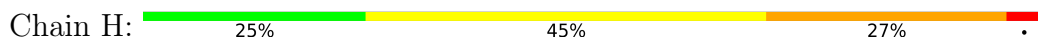
- Molecule 6: 30S ribosomal protein S6



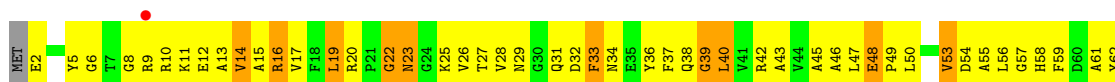
- Molecule 7: 30S ribosomal protein S7

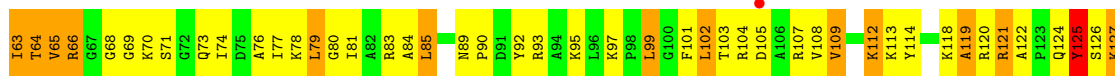


- Molecule 8: 30S ribosomal protein S8



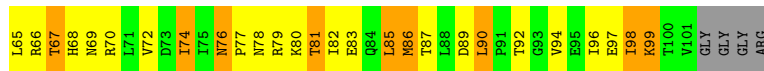
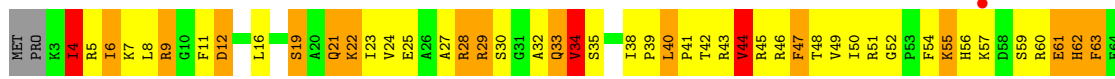
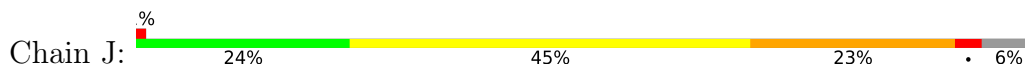
- Molecule 9: 30S ribosomal protein S9



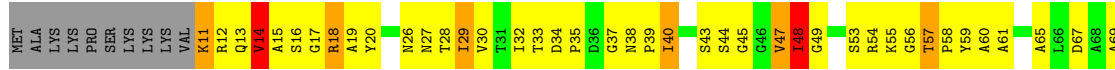


R128

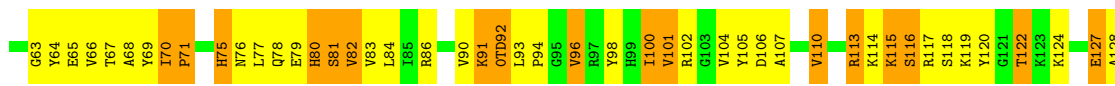
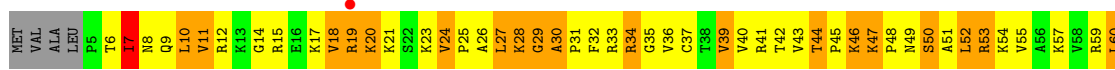
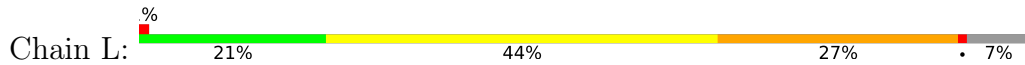
• Molecule 10: 30S ribosomal protein S10



• Molecule 11: 30S ribosomal protein S11

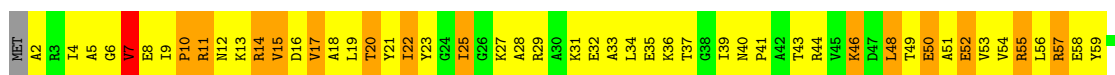


• Molecule 12: 30S ribosomal protein S12

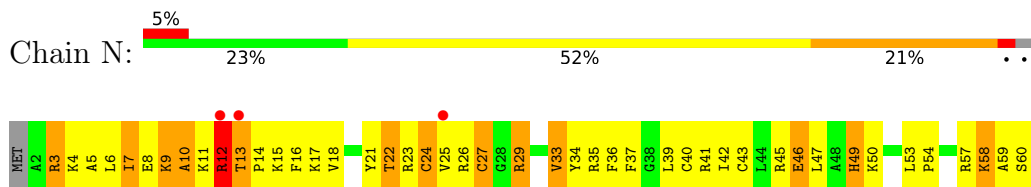


A129
LYS
THR
ALA
ALA
LYS
LYS

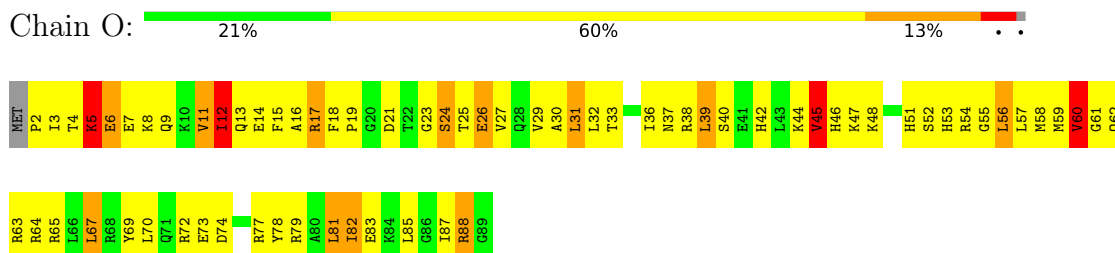
• Molecule 13: 30S ribosomal protein S13



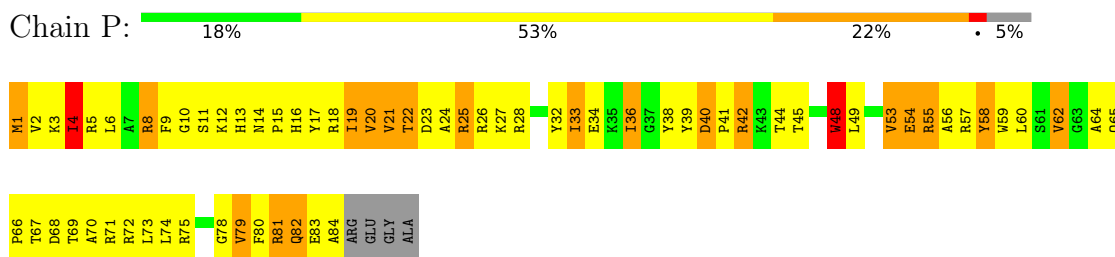
- Molecule 14: 30S ribosomal protein S14



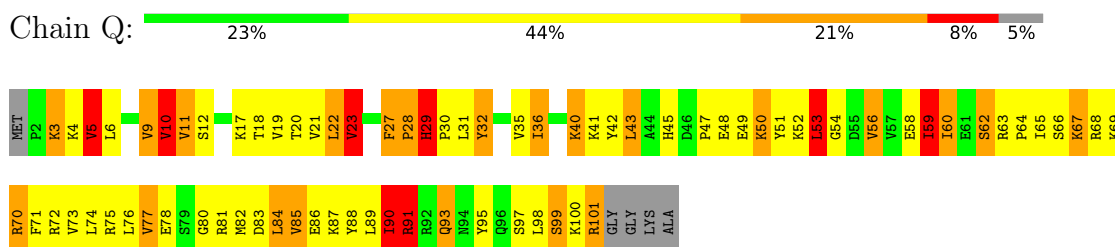
- Molecule 15: 30S ribosomal protein S15



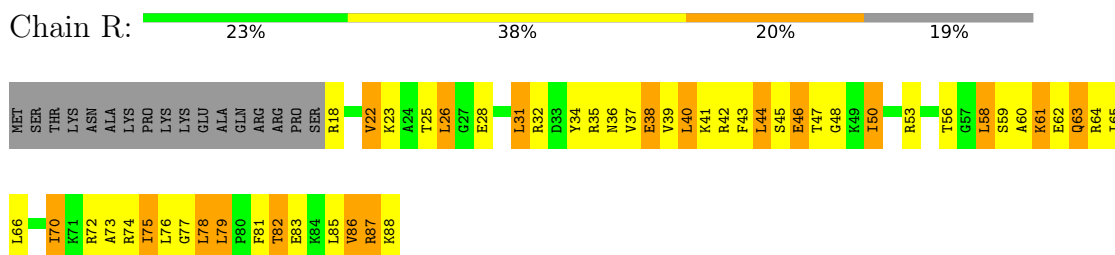
- Molecule 16: 30S ribosomal protein S16



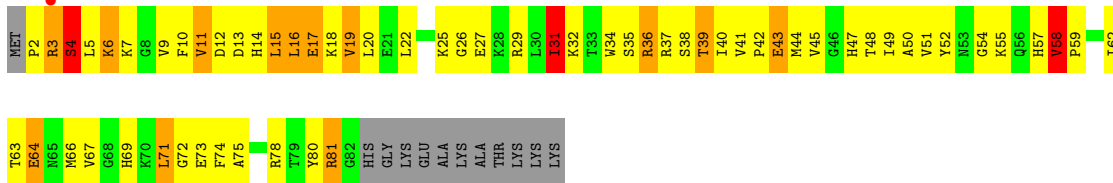
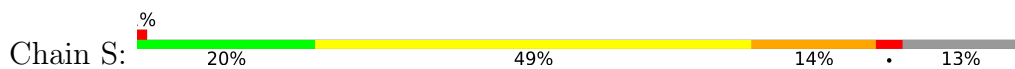
- Molecule 17: 30S ribosomal protein S17



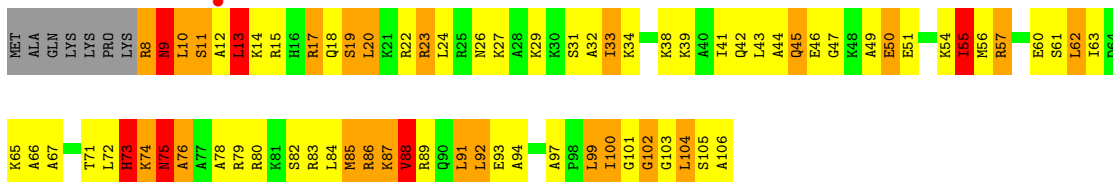
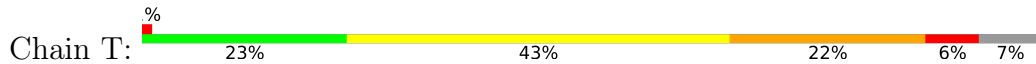
- Molecule 18: 30S ribosomal protein S18



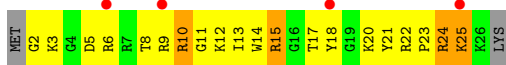
- Molecule 19: 30S ribosomal protein S19



- Molecule 20: 30S ribosomal protein S20



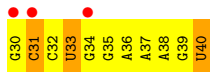
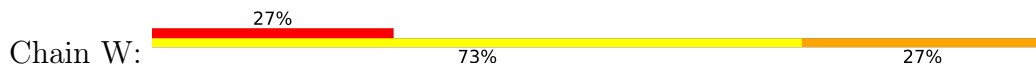
- Molecule 21: 30S ribosomal protein THX



- Molecule 22: 5'-R(*UP*UP*UP*U)-3'



- Molecule 23: 5'-R(*GP*CP*CP*UP*GP*GP*AP*AP*AP*GP*(PSU))-3'



- Molecule 24: 5'-R(P*UP*GP*GP*AP*AP*AP*GP*(PSU))-3'



- Molecule 25: 5'-R(P*UP*UP*U)-3'



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	402.49Å 402.49Å 174.79Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.91 – 3.75 48.91 – 3.75	Depositor EDS
% Data completeness (in resolution range)	99.9 (48.91-3.75) 99.9 (48.91-3.75)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.41 (at 3.77Å)	Xtrriage
Refinement program	PHENIX dev_978	Depositor
R, R_{free}	0.148 , 0.201 0.146 , 0.197	Depositor DCC
R_{free} test set	7304 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	130.7	Xtrriage
Anisotropy	0.226	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 98.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	53659	wwPDB-VP
Average B, all atoms (Å ²)	146.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.65% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: 7MG, MG, 2MG, ZN, SRY, UR3, PSU, 5MC, 4OC, M2G, 0TD, MA6

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	A	0.66	2/36234 (0.0%)	0.64	4/56547 (0.0%)
2	B	0.94	0/1931	1.40	17/2607 (0.7%)
3	C	0.83	0/1637	1.20	5/2207 (0.2%)
4	D	0.91	0/1733	1.31	19/2318 (0.8%)
5	E	1.37	6/1163 (0.5%)	1.66	29/1566 (1.9%)
6	F	0.79	0/856	1.27	3/1154 (0.3%)
7	G	0.80	0/1276	1.29	9/1709 (0.5%)
8	H	1.41	7/1136 (0.6%)	1.76	23/1527 (1.5%)
9	I	0.85	0/1029	1.27	7/1379 (0.5%)
10	J	0.96	0/806	1.41	13/1084 (1.2%)
11	K	1.05	0/888	1.48	14/1198 (1.2%)
12	L	1.15	1/978 (0.1%)	1.69	26/1308 (2.0%)
13	M	0.88	0/947	1.32	6/1270 (0.5%)
14	N	0.79	0/501	1.26	5/664 (0.8%)
15	O	1.12	2/745 (0.3%)	1.30	6/992 (0.6%)
16	P	1.20	3/717 (0.4%)	1.45	8/965 (0.8%)
17	Q	1.36	6/847 (0.7%)	1.69	14/1131 (1.2%)
18	R	0.98	1/590 (0.2%)	1.39	7/782 (0.9%)
19	S	0.77	0/662	1.22	5/892 (0.6%)
20	T	1.17	1/765 (0.1%)	1.55	12/1007 (1.2%)
21	U	0.85	0/213	1.18	0/279
22	V	0.37	0/84	0.46	0/128
23	W	0.31	0/241	0.40	0/375
24	a	0.47	0/174	0.54	0/270
25	b	0.46	0/65	0.52	0/98
All	All	0.80	29/56218 (0.1%)	0.95	232/83457 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	3
3	C	0	2
4	D	0	1
8	H	0	2
9	I	0	1
10	J	0	2
12	L	0	2
16	P	0	1
19	S	0	1
20	T	0	2
21	U	0	1
All	All	0	18

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	Q	9	VAL	CA-CB	-9.65	1.42	1.54
12	L	7	ILE	CA-CB	-8.12	1.44	1.54
15	O	60	VAL	CA-CB	-7.94	1.44	1.54
8	H	134	ILE	CA-CB	-7.74	1.44	1.54
5	E	129	ILE	CA-CB	-7.51	1.46	1.54

The worst 5 of 232 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	H	100	ILE	CA-C-N	16.37	136.64	119.78
8	H	100	ILE	C-N-CA	16.37	136.64	119.78
9	I	39	GLY	N-CA-C	-13.78	93.41	116.01
12	L	47	LYS	CA-C-N	13.75	133.30	119.82
12	L	47	LYS	C-N-CA	13.75	133.30	119.82

There are no chirality outliers.

5 of 18 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	14	GLY	Peptide
2	B	75	LYS	Peptide
2	B	89	GLY	Peptide
3	C	166	GLU	Peptide
3	C	2	GLY	Peptide

5.2 Too-close contacts

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	A	32707	0	16542	1880	1
2	B	1896	0	1936	230	0
3	C	1613	0	1677	215	0
4	D	1703	0	1763	212	0
5	E	1147	0	1207	144	1
6	F	843	0	857	92	0
7	G	1257	0	1296	158	0
8	H	1116	0	1177	120	0
9	I	1010	0	1037	145	0
10	J	793	0	835	126	0
11	K	873	0	894	78	0
12	L	973	0	1058	109	0
13	M	937	0	995	138	0
14	N	492	0	529	88	0
15	O	734	0	771	103	0
16	P	701	0	720	79	0
17	Q	834	0	906	118	0
18	R	585	0	657	86	0
19	S	648	0	673	84	0
20	T	763	0	861	107	0
21	U	209	0	221	43	0
22	V	77	0	42	3	0
23	W	235	0	121	34	0
24	a	175	0	87	42	0
25	b	60	0	31	3	0
26	A	326	0	0	0	0
26	D	3	0	0	0	0
26	E	4	0	0	0	0
26	F	1	0	0	0	0
26	G	1	0	0	0	0
26	H	1	0	0	0	0
26	J	1	0	0	0	0
26	N	1	0	0	0	0
26	P	3	0	0	0	0
26	Q	1	0	0	0	0
26	S	2	0	0	0	0
27	A	40	0	38	15	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	D	1	0	0	0	0
28	N	1	0	0	0	0
29	A	866	0	0	96	0
29	C	1	0	0	0	0
29	D	7	0	0	1	0
29	E	5	0	0	0	0
29	L	1	0	0	0	0
29	N	1	0	0	0	0
29	P	1	0	0	0	0
29	Q	2	0	0	0	0
29	T	3	0	0	0	0
29	U	4	0	0	0	0
29	W	1	0	0	0	0
All	All	53659	0	36931	4112	2

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 46.

The worst 5 of 4112 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:A:451:A:O2'	29:A:2729:HOH:O	1.59	1.20
12:L:70:ILE:HG21	12:L:75:HIS:HD2	1.13	1.14
15:O:88:ARG:HA	15:O:88:ARG:HE	1.10	1.12
1:A:266:G:H5'	1:A:266:G:C8	1.83	1.12
21:U:10:ARG:CB	21:U:10:ARG:HH11	1.62	1.12

All (2) 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:A:82:U:O2	1:A:1400:5MC:N4[3_545]	2.15	0.05
5:E:73:ASN:N	5:E:149:GLU:OE1[7_555]	2.18	0.02

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	B	234/256 (91%)	197 (84%)	34 (14%)	3 (1%)	9	37
3	C	205/239 (86%)	169 (82%)	35 (17%)	1 (0%)	24	56
4	D	206/209 (99%)	180 (87%)	25 (12%)	1 (0%)	24	56
5	E	149/162 (92%)	137 (92%)	11 (7%)	1 (1%)	18	50
6	F	99/101 (98%)	93 (94%)	6 (6%)	0	100	100
7	G	153/156 (98%)	132 (86%)	21 (14%)	0	100	100
8	H	136/138 (99%)	128 (94%)	7 (5%)	1 (1%)	18	50
9	I	125/128 (98%)	107 (86%)	17 (14%)	1 (1%)	16	47
10	J	97/105 (92%)	77 (79%)	17 (18%)	3 (3%)	3	24
11	K	115/129 (89%)	98 (85%)	17 (15%)	0	100	100
12	L	122/135 (90%)	110 (90%)	8 (7%)	4 (3%)	3	23
13	M	116/126 (92%)	99 (85%)	16 (14%)	1 (1%)	14	43
14	N	58/61 (95%)	50 (86%)	8 (14%)	0	100	100
15	O	86/89 (97%)	72 (84%)	14 (16%)	0	100	100
16	P	82/88 (93%)	74 (90%)	7 (8%)	1 (1%)	10	39
17	Q	98/105 (93%)	93 (95%)	5 (5%)	0	100	100
18	R	69/88 (78%)	60 (87%)	9 (13%)	0	100	100
19	S	79/93 (85%)	68 (86%)	9 (11%)	2 (2%)	4	27
20	T	97/106 (92%)	80 (82%)	16 (16%)	1 (1%)	12	42
21	U	23/27 (85%)	22 (96%)	1 (4%)	0	100	100
All	All	2349/2541 (92%)	2046 (87%)	283 (12%)	20 (1%)	14	43

5 of 20 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	15	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	I	119	ALA
12	L	28	LYS
16	P	83	GLU
19	S	31	ILE

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	B	201/220 (91%)	149 (74%)	52 (26%)	0	4
3	C	160/188 (85%)	113 (71%)	47 (29%)	0	2
4	D	180/181 (99%)	135 (75%)	45 (25%)	0	4
5	E	115/123 (94%)	74 (64%)	41 (36%)	0	1
6	F	90/90 (100%)	56 (62%)	34 (38%)	0	0
7	G	126/127 (99%)	96 (76%)	30 (24%)	1	5
8	H	119/119 (100%)	84 (71%)	35 (29%)	0	2
9	I	98/99 (99%)	74 (76%)	24 (24%)	1	4
10	J	87/92 (95%)	66 (76%)	21 (24%)	1	5
11	K	89/99 (90%)	67 (75%)	22 (25%)	1	4
12	L	103/110 (94%)	78 (76%)	25 (24%)	1	4
13	M	94/101 (93%)	66 (70%)	28 (30%)	0	2
14	N	49/50 (98%)	36 (74%)	13 (26%)	0	3
15	O	79/80 (99%)	55 (70%)	24 (30%)	0	1
16	P	72/74 (97%)	53 (74%)	19 (26%)	0	3
17	Q	95/97 (98%)	70 (74%)	25 (26%)	0	3
18	R	62/77 (80%)	47 (76%)	15 (24%)	1	5
19	S	71/80 (89%)	52 (73%)	19 (27%)	0	3
20	T	76/82 (93%)	49 (64%)	27 (36%)	0	1
21	U	19/22 (86%)	16 (84%)	3 (16%)	2	15

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	1985/2111 (94%)	1436 (72%)	549 (28%)	0 3

5 of 549 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
17	Q	11	VAL
17	Q	70	ARG
17	Q	10	VAL
20	T	10	LEU
6	F	25	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 21 such sidechains are listed below:

Mol	Chain	Res	Type
16	P	14	ASN
19	S	23	ASN
20	T	90	GLN
19	S	57	HIS
17	Q	96	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	1504/1522 (98%)	378 (25%)	48 (3%)
22	V	3/4 (75%)	1 (33%)	0
23	W	10/11 (90%)	2 (20%)	0
24	a	7/8 (87%)	4 (57%)	0
25	b	2/3 (66%)	0	0
All	All	1526/1548 (98%)	385 (25%)	48 (3%)

5 of 385 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	7	G
1	A	8	A
1	A	9	G
1	A	16	A
1	A	31	G

5 of 48 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	1026	G
1	A	1201	A
1	A	1049	U
1	A	1137	C
1	A	1256	A

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

18 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	1404	1	19,22,23	1.09	2 (10%)	26,32,35	1.26	5 (19%)
1	UR3	A	1498	1	19,22,23	0.89	1 (5%)	26,32,35	1.09	1 (3%)
1	4OC	A	1402	1	20,23,24	1.73	4 (20%)	25,32,35	1.11	2 (8%)
1	MA6	A	1518[B]	1	23,26,27	1.40	3 (13%)	33,38,41	0.86	1 (3%)
1	MA6	A	1518[A]	1	23,26,27	1.82	6 (26%)	33,38,41	1.01	2 (6%)
1	5MC	A	1407	1	19,22,23	2.47	3 (15%)	26,32,35	1.33	2 (7%)
23	PSU	W	40	23	18,21,22	1.12	1 (5%)	21,30,33	1.84	5 (23%)
24	PSU	a	40	1,24	18,21,22	1.39	3 (16%)	21,30,33	1.99	6 (28%)
1	MA6	A	1519[A]	1	23,26,27	1.35	3 (13%)	33,38,41	1.09	3 (9%)
1	2MG	A	1207	1	23,26,27	2.03	7 (30%)	33,38,41	1.14	4 (12%)
1	MA6	A	1519[B]	1	23,26,27	2.02	9 (39%)	33,38,41	1.02	3 (9%)
1	7MG	A	527	1	23,26,27	4.96	7 (30%)	27,39,42	2.65	9 (33%)
1	PSU	A	1540	1	18,21,22	1.22	1 (5%)	21,30,33	1.69	3 (14%)
1	M2G	A	966	1	24,27,28	0.86	1 (4%)	33,40,43	0.91	2 (6%)
1	5MC	A	967	1	19,22,23	1.35	3 (15%)	26,32,35	0.73	1 (3%)
1	5MC	A	1400	1	19,22,23	2.10	7 (36%)	26,32,35	1.13	3 (11%)
12	0TD	L	92	12	8,9,10	1.39	1 (12%)	6,11,13	3.62	3 (50%)
1	PSU	A	516	1	18,21,22	1.52	2 (11%)	21,30,33	1.71	6 (28%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	A	1404	1	-	0/7/25/26	0/2/2/2
1	UR3	A	1498	1	-	1/7/25/26	0/2/2/2
1	4OC	A	1402	1	-	4/9/29/30	0/2/2/2
1	MA6	A	1518[B]	1	-	0/11/29/30	0/3/3/3
1	MA6	A	1518[A]	1	-	5/11/29/30	0/3/3/3
1	5MC	A	1407	1	-	2/7/25/26	0/2/2/2
23	PSU	W	40	23	-	3/7/25/26	0/2/2/2
24	PSU	a	40	1,24	-	3/7/25/26	0/2/2/2
1	MA6	A	1519[A]	1	-	5/11/29/30	0/3/3/3
1	2MG	A	1207	1	-	0/9/27/28	0/3/3/3
1	MA6	A	1519[B]	1	-	5/11/29/30	0/3/3/3
1	7MG	A	527	1	-	2/7/37/38	0/3/3/3
1	PSU	A	1540	1	-	2/7/25/26	0/2/2/2
1	M2G	A	966	1	-	4/11/29/30	0/3/3/3
1	5MC	A	967	1	-	3/7/25/26	0/2/2/2
1	5MC	A	1400	1	-	2/7/25/26	0/2/2/2
12	0TD	L	92	12	-	3/7/12/14	-
1	PSU	A	516	1	-	0/7/25/26	0/2/2/2

The worst 5 of 64 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	527	7MG	C8-N9	-20.99	1.32	1.45
1	A	1407	5MC	C5-C4	8.60	1.50	1.44
1	A	527	7MG	C5-N7	8.43	1.46	1.35
1	A	1400	5MC	C2-N1	5.62	1.51	1.40
1	A	1207	2MG	C2-N1	5.53	1.45	1.36

The worst 5 of 61 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	L	92	0TD	CB-CA-N	-6.30	96.33	109.10
1	A	527	7MG	C6-C5-N7	6.25	141.62	131.93
1	A	527	7MG	C5-C6-N1	5.77	121.09	110.94
1	A	527	7MG	C2-N3-C4	5.49	121.76	112.30
12	L	92	0TD	CSB-SB-CB	-4.90	93.56	102.36

There are no chirality outliers.

5 of 44 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	966	M2G	N1-C2-N2-CM1
1	A	966	M2G	N3-C2-N2-CM1
1	A	966	M2G	N3-C2-N2-CM2
1	A	967	5MC	O4'-C4'-C5'-O5'
1	A	1400	5MC	O4'-C4'-C5'-O5'

There are no ring outliers.

17 monomers are involved in 89 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	1404	5MC	5	0
1	A	1498	UR3	8	0
1	A	1402	4OC	6	0
1	A	1518[B]	MA6	9	0
1	A	1518[A]	MA6	10	0
1	A	1407	5MC	8	0
23	W	40	PSU	5	0
24	a	40	PSU	1	0
1	A	1519[A]	MA6	18	0
1	A	1207	2MG	11	0
1	A	1519[B]	MA6	11	0
1	A	527	7MG	1	0
1	A	966	M2G	2	0
1	A	967	5MC	3	0
1	A	1400	5MC	4	1
12	L	92	0TD	3	0
1	A	516	PSU	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 347 ligands modelled in this entry, 346 are monoatomic - leaving 1 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
27	SRY	A	1928	-	40,42,42	2.36	11 (27%)	49,63,63	2.54	16 (32%)

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
27	SRY	A	1928	-	-	6/20/87/87	0/3/3/3

The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	1928	SRY	CD1-N31	9.40	1.49	1.33
27	A	1928	SRY	CA1-N11	5.81	1.43	1.33
27	A	1928	SRY	O53-C53	-3.58	1.35	1.44
27	A	1928	SRY	C23-N23	-3.11	1.42	1.47
27	A	1928	SRY	C32-CG2	-3.04	1.47	1.52

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	A	1928	SRY	C43-C33-C23	-7.61	99.32	110.40
27	A	1928	SRY	C61-C11-N11	-6.57	98.51	110.62
27	A	1928	SRY	C12-O42-C42	-6.05	98.71	108.48
27	A	1928	SRY	C13-O13-C22	-5.57	106.79	116.26
27	A	1928	SRY	O53-C13-C23	4.53	119.15	110.59

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
27	A	1928	SRY	O53-C53-C63-O63
27	A	1928	SRY	C43-C53-C63-O63
27	A	1928	SRY	O42-C12-O41-C41
27	A	1928	SRY	C51-C41-O41-C12

Continued on next page...

Continued from previous page...

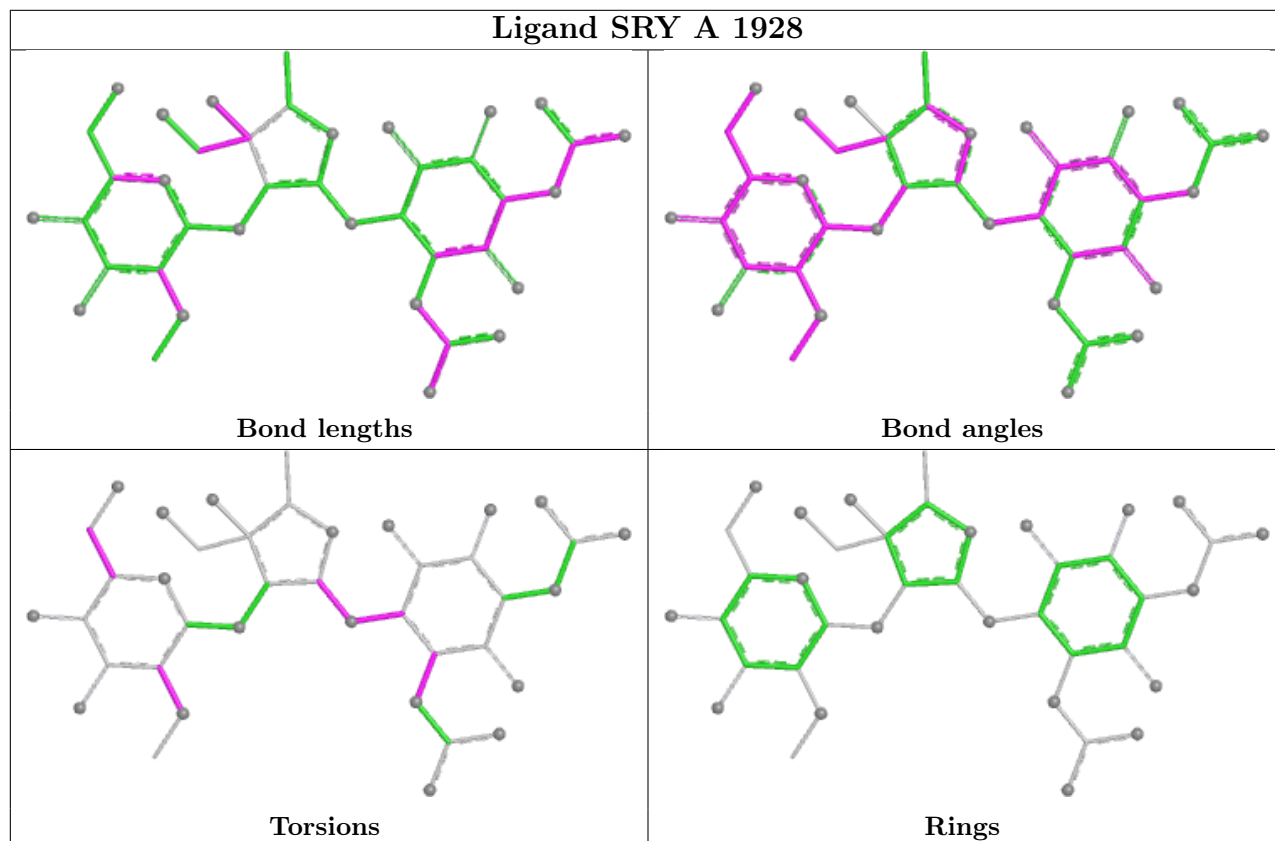
Mol	Chain	Res	Type	Atoms
27	A	1928	SRY	C13-C23-N23-CI3

There are no ring outliers.

1 monomer is involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
27	A	1928	SRY	15	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](#)

There are no chain breaks in this entry.

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

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1500/1522 (98%)	-0.68	6 (0%) 88 73	55, 129, 232, 327	6 (0%)
2	B	236/256 (92%)	-0.33	0 100 100	62, 153, 220, 247	0
3	C	207/239 (86%)	-0.35	3 (1%) 73 50	94, 191, 226, 244	0
4	D	208/209 (99%)	-0.22	6 (2%) 53 36	105, 149, 198, 214	0
5	E	151/162 (93%)	-0.55	1 (0%) 84 65	80, 114, 166, 193	0
6	F	101/101 (100%)	-0.62	0 100 100	110, 150, 182, 226	0
7	G	155/156 (99%)	-0.40	4 (2%) 57 38	121, 160, 223, 238	0
8	H	138/138 (100%)	-0.49	0 100 100	75, 104, 138, 155	0
9	I	127/128 (99%)	-0.17	2 (1%) 70 47	125, 184, 217, 240	0
10	J	99/105 (94%)	-0.09	1 (1%) 79 57	81, 203, 272, 295	0
11	K	117/129 (90%)	-0.42	1 (0%) 81 59	88, 130, 160, 167	0
12	L	124/135 (91%)	-0.19	2 (1%) 70 47	97, 136, 168, 247	0
13	M	118/126 (93%)	-0.34	0 100 100	127, 158, 192, 211	0
14	N	60/61 (98%)	0.07	3 (5%) 34 25	144, 169, 210, 246	0
15	O	88/89 (98%)	-0.47	0 100 100	94, 127, 182, 225	0
16	P	84/88 (95%)	-0.11	0 100 100	96, 126, 164, 239	0
17	Q	100/105 (95%)	-0.41	0 100 100	83, 111, 150, 189	0
18	R	71/88 (80%)	-0.60	0 100 100	95, 132, 178, 229	0
19	S	81/93 (87%)	-0.30	1 (1%) 76 54	84, 184, 228, 234	0
20	T	99/106 (93%)	-0.17	1 (1%) 79 57	95, 126, 167, 212	0
21	U	25/27 (92%)	0.70	4 (16%) 5 7	77, 163, 192, 220	0
22	V	4/4 (100%)	2.02	1 (25%) 2 3	252, 267, 272, 275	0
23	W	10/11 (90%)	1.52	3 (30%) 1 2	173, 279, 296, 387	5 (50%)
24	a	7/8 (87%)	1.00	1 (14%) 6 9	200, 217, 282, 330	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
25	b	3/3 (100%)	0.76	0 100 100	160, 160, 206, 218	0
All	All	3913/4089 (95%)	-0.45	40 (1%) 79 57	55, 140, 221, 387	11 (0%)

The worst 5 of 40 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1517[A]	G	7.4
11	K	127	LYS	4.9
12	L	129	ALA	4.8
21	U	25	LYS	4.8
1	A	1516[A]	G	4.6

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
23	PSU	W	40	20/21	0.36	0.12	291,301,325,326	0
1	PSU	A	1540	20/21	0.71	0.18	253,269,289,293	0
24	PSU	a	40	20/21	0.86	0.24	208,236,258,262	0
1	2MG	A	1207	24/25	0.93	0.09	154,167,200,202	0
1	UR3	A	1498	21/22	0.94	0.12	111,124,183,193	0
1	5MC	A	1407	21/22	0.94	0.07	127,152,158,162	0
1	PSU	A	516	20/21	0.95	0.05	123,147,168,168	0
1	MA6	A	1518[A]	24/25	0.95	0.28	110,122,127,131	24
1	MA6	A	1518[B]	24/25	0.95	0.28	107,122,137,148	24
1	5MC	A	1400	21/22	0.97	0.08	103,130,148,159	0
1	4OC	A	1402	22/23	0.97	0.08	104,119,127,142	0
1	M2G	A	966	25/26	0.97	0.09	122,137,142,145	0
1	MA6	A	1519[A]	24/25	0.98	0.17	100,115,125,126	24
1	MA6	A	1519[B]	24/25	0.98	0.17	101,116,129,130	24
1	7MG	A	527	24/25	0.98	0.07	91,114,123,126	0
1	5MC	A	1404	21/22	0.98	0.09	102,129,148,149	0
1	5MC	A	967	21/22	0.98	0.06	117,131,145,146	0
12	0TD	L	92	10/11	0.99	0.06	113,121,127,289	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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
26	MG	A	1814	1/1	0.35	0.14	440,440,440,440	0
26	MG	A	1797	1/1	0.38	0.08	502,502,502,502	0
26	MG	A	1808	1/1	0.42	0.13	498,498,498,498	0
26	MG	A	1926	1/1	0.46	0.38	116,116,116,116	0
26	MG	A	1801	1/1	0.49	0.08	464,464,464,464	0
26	MG	A	1839	1/1	0.50	0.10	467,467,467,467	0
26	MG	A	1863	1/1	0.53	0.07	409,409,409,409	0
26	MG	A	1683	1/1	0.56	0.18	154,154,154,154	0
26	MG	A	1675	1/1	0.57	0.33	122,122,122,122	0
26	MG	A	1728	1/1	0.57	0.42	114,114,114,114	0
26	MG	A	1819	1/1	0.57	0.14	493,493,493,493	0
26	MG	A	1884	1/1	0.60	0.23	119,119,119,119	0
26	MG	A	1845	1/1	0.60	0.11	410,410,410,410	0
26	MG	A	1826	1/1	0.61	0.10	395,395,395,395	0
26	MG	A	1925	1/1	0.63	0.14	114,114,114,114	0
26	MG	A	1917	1/1	0.63	0.12	128,128,128,128	0
26	MG	A	1837	1/1	0.64	0.07	469,469,469,469	0
26	MG	A	1700	1/1	0.65	0.10	302,302,302,302	0
26	MG	A	1724	1/1	0.65	0.20	117,117,117,117	0
26	MG	A	1820	1/1	0.65	0.08	373,373,373,373	0
26	MG	A	1618	1/1	0.65	0.09	130,130,130,130	0
26	MG	A	1717	1/1	0.66	0.17	152,152,152,152	0
26	MG	A	1841	1/1	0.67	0.07	496,496,496,496	0
26	MG	A	1910	1/1	0.67	0.19	120,120,120,120	0
26	MG	A	1719	1/1	0.67	0.14	262,262,262,262	0
26	MG	A	1614	1/1	0.67	0.19	285,285,285,285	0
26	MG	A	1875	1/1	0.67	0.07	460,460,460,460	0
26	MG	A	1916	1/1	0.68	0.13	119,119,119,119	0
26	MG	A	1766	1/1	0.69	0.19	105,105,105,105	0
26	MG	A	1830	1/1	0.69	0.08	480,480,480,480	0
26	MG	S	101	1/1	0.69	0.21	115,115,115,115	0
26	MG	A	1871	1/1	0.70	0.13	392,392,392,392	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
26	MG	A	1792	1/1	0.71	0.08	415,415,415,415	0
26	MG	A	1898	1/1	0.71	0.26	89,89,89,89	0
26	MG	A	1729	1/1	0.72	0.18	101,101,101,101	0
26	MG	A	1853	1/1	0.72	0.13	502,502,502,502	0
26	MG	A	1897	1/1	0.72	0.14	114,114,114,114	0
26	MG	A	1674	1/1	0.72	0.09	260,260,260,260	0
26	MG	A	1844	1/1	0.72	0.09	420,420,420,420	0
26	MG	G	201	1/1	0.73	0.17	117,117,117,117	0
26	MG	A	1699	1/1	0.74	0.11	414,414,414,414	0
26	MG	A	1768	1/1	0.74	0.28	107,107,107,107	0
26	MG	A	1865	1/1	0.74	0.08	457,457,457,457	0
26	MG	A	1877	1/1	0.75	0.12	456,456,456,456	1
26	MG	A	1756	1/1	0.75	0.12	126,126,126,126	0
26	MG	A	1799	1/1	0.75	0.06	426,426,426,426	0
26	MG	A	1846	1/1	0.75	0.10	449,449,449,449	0
26	MG	A	1901	1/1	0.75	0.08	101,101,101,101	0
26	MG	A	1665	1/1	0.75	0.21	117,117,117,117	0
26	MG	A	1794	1/1	0.76	0.09	518,518,518,518	0
26	MG	A	1805	1/1	0.77	0.06	331,331,331,331	0
26	MG	A	1678	1/1	0.77	0.09	217,217,217,217	0
26	MG	A	1886	1/1	0.77	0.12	121,121,121,121	0
26	MG	A	1915	1/1	0.77	0.23	117,117,117,117	0
26	MG	A	1740	1/1	0.77	0.13	93,93,93,93	0
26	MG	A	1912	1/1	0.78	0.20	104,104,104,104	0
26	MG	A	1873	1/1	0.78	0.13	361,361,361,361	0
26	MG	F	601	1/1	0.78	0.12	102,102,102,102	0
26	MG	A	1777	1/1	0.78	0.08	94,94,94,94	0
26	MG	A	1790	1/1	0.78	0.08	444,444,444,444	0
26	MG	A	1913	1/1	0.79	0.23	108,108,108,108	0
26	MG	A	1878	1/1	0.79	0.10	346,346,346,346	0
26	MG	A	1787	1/1	0.79	0.19	496,496,496,496	0
26	MG	A	1650	1/1	0.80	0.13	151,151,151,151	0
26	MG	A	1679	1/1	0.80	0.09	369,369,369,369	0
26	MG	E	204	1/1	0.80	0.09	128,128,128,128	0
26	MG	A	1696	1/1	0.81	0.09	263,263,263,263	0
26	MG	A	1706	1/1	0.81	0.09	190,190,190,190	0
26	MG	A	1784	1/1	0.81	0.08	122,122,122,122	0
26	MG	A	1800	1/1	0.82	0.12	415,415,415,415	1
26	MG	A	1730	1/1	0.83	0.21	97,97,97,97	0
26	MG	A	1904	1/1	0.83	0.22	97,97,97,97	0
26	MG	A	1684	1/1	0.83	0.20	109,109,109,109	0
26	MG	A	1870	1/1	0.83	0.16	406,406,406,406	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
26	MG	A	1813	1/1	0.83	0.13	471,471,471,471	0
26	MG	A	1755	1/1	0.83	0.27	74,74,74,74	0
26	MG	A	1629	1/1	0.83	0.28	223,223,223,223	0
26	MG	A	1681	1/1	0.84	0.07	256,256,256,256	0
26	MG	A	1860	1/1	0.84	0.08	460,460,460,460	0
26	MG	A	1682	1/1	0.84	0.08	242,242,242,242	0
26	MG	A	1812	1/1	0.84	0.26	444,444,444,444	0
26	MG	A	1908	1/1	0.84	0.22	81,81,81,81	0
26	MG	A	1779	1/1	0.84	0.17	102,102,102,102	0
26	MG	A	1628	1/1	0.84	0.20	152,152,152,152	0
26	MG	A	1895	1/1	0.84	0.06	106,106,106,106	0
26	MG	A	1914	1/1	0.84	0.23	99,99,99,99	0
26	MG	A	1739	1/1	0.85	0.08	78,78,78,78	0
26	MG	A	1680	1/1	0.85	0.30	214,214,214,214	0
26	MG	A	1671	1/1	0.85	0.15	96,96,96,96	0
26	MG	A	1802	1/1	0.85	0.20	355,355,355,355	0
26	MG	A	1804	1/1	0.85	0.14	447,447,447,447	0
26	MG	A	1673	1/1	0.85	0.23	91,91,91,91	0
26	MG	A	1909	1/1	0.85	0.06	93,93,93,93	0
26	MG	A	1796	1/1	0.85	0.08	416,416,416,416	0
26	MG	A	1757	1/1	0.85	0.37	88,88,88,88	0
26	MG	A	1894	1/1	0.85	0.17	94,94,94,94	0
26	MG	A	1660	1/1	0.86	0.08	224,224,224,224	0
26	MG	A	1823	1/1	0.86	0.10	422,422,422,422	0
26	MG	A	1907	1/1	0.86	0.23	120,120,120,120	0
26	MG	A	1767	1/1	0.86	0.24	111,111,111,111	0
26	MG	A	1891	1/1	0.86	0.14	127,127,127,127	0
26	MG	A	1742	1/1	0.86	0.14	97,97,97,97	0
26	MG	A	1849	1/1	0.86	0.20	471,471,471,471	0
26	MG	A	1744	1/1	0.86	0.19	82,82,82,82	0
26	MG	A	1791	1/1	0.86	0.12	283,283,283,283	0
26	MG	A	1788	1/1	0.87	0.06	285,285,285,285	0
26	MG	A	1789	1/1	0.87	0.13	378,378,378,378	0
26	MG	A	1923	1/1	0.87	0.39	86,86,86,86	0
26	MG	A	1856	1/1	0.87	0.26	478,478,478,478	0
26	MG	A	1743	1/1	0.87	0.26	105,105,105,105	0
26	MG	D	302	1/1	0.87	0.09	104,104,104,104	0
26	MG	A	1758	1/1	0.87	0.32	101,101,101,101	0
26	MG	A	1741	1/1	0.87	0.06	105,105,105,105	0
26	MG	A	1902	1/1	0.87	0.11	119,119,119,119	0
26	MG	A	1793	1/1	0.87	0.12	483,483,483,483	0
26	MG	A	1711	1/1	0.88	0.13	133,133,133,133	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
26	MG	A	1769	1/1	0.88	0.18	127,127,127,127	0
26	MG	A	1848	1/1	0.88	0.25	407,407,407,407	0
26	MG	A	1722	1/1	0.88	0.30	95,95,95,95	0
26	MG	A	1670	1/1	0.88	0.17	234,234,234,234	0
26	MG	A	1921	1/1	0.88	0.10	84,84,84,84	0
26	MG	P	102	1/1	0.88	0.06	101,101,101,101	0
26	MG	Q	201	1/1	0.88	0.16	145,145,145,145	0
26	MG	A	1781	1/1	0.88	0.07	104,104,104,104	0
26	MG	S	102	1/1	0.88	0.08	106,106,106,106	0
26	MG	A	1798	1/1	0.89	0.07	464,464,464,464	0
26	MG	A	1734	1/1	0.89	0.60	124,124,124,124	0
26	MG	A	1887	1/1	0.89	0.23	102,102,102,102	0
26	MG	A	1855	1/1	0.89	0.10	401,401,401,401	0
26	MG	A	1892	1/1	0.89	0.27	92,92,92,92	0
26	MG	A	1872	1/1	0.89	0.14	359,359,359,359	0
26	MG	A	1809	1/1	0.89	0.10	494,494,494,494	0
26	MG	A	1874	1/1	0.89	0.24	467,467,467,467	0
26	MG	A	1859	1/1	0.89	0.17	427,427,427,427	0
26	MG	A	1838	1/1	0.89	0.27	538,538,538,538	0
26	MG	A	1824	1/1	0.89	0.18	503,503,503,503	0
26	MG	A	1918	1/1	0.89	0.11	75,75,75,75	0
26	MG	A	1666	1/1	0.90	0.09	149,149,149,149	0
26	MG	A	1880	1/1	0.90	0.11	508,508,508,508	0
26	MG	A	1726	1/1	0.90	0.30	98,98,98,98	0
26	MG	A	1835	1/1	0.90	0.21	309,309,309,309	0
26	MG	A	1817	1/1	0.90	0.19	419,419,419,419	0
26	MG	A	1890	1/1	0.90	0.09	112,112,112,112	0
26	MG	D	304	1/1	0.90	0.17	455,455,455,455	0
26	MG	A	1644	1/1	0.90	0.25	127,127,127,127	0
26	MG	A	1712	1/1	0.90	0.10	170,170,170,170	0
26	MG	A	1811	1/1	0.90	0.35	468,468,468,468	0
26	MG	A	1857	1/1	0.90	0.28	308,308,308,308	0
26	MG	A	1858	1/1	0.90	0.23	355,355,355,355	0
26	MG	A	1785	1/1	0.90	0.04	108,108,108,108	0
26	MG	A	1900	1/1	0.90	0.11	93,93,93,93	0
26	MG	A	1759	1/1	0.91	0.23	86,86,86,86	0
26	MG	A	1861	1/1	0.91	0.24	443,443,443,443	0
26	MG	A	1851	1/1	0.91	0.12	328,328,328,328	0
26	MG	A	1654	1/1	0.91	0.10	161,161,161,161	0
26	MG	A	1881	1/1	0.91	0.11	414,414,414,414	0
26	MG	A	1753	1/1	0.91	0.17	109,109,109,109	0
26	MG	A	1718	1/1	0.91	0.10	326,326,326,326	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
26	MG	N	102	1/1	0.91	0.19	107,107,107,107	0
26	MG	A	1668	1/1	0.91	0.21	173,173,173,173	0
26	MG	P	103	1/1	0.91	0.17	96,96,96,96	0
26	MG	A	1889	1/1	0.91	0.08	95,95,95,95	0
26	MG	A	1646	1/1	0.91	0.09	136,136,136,136	0
26	MG	A	1609	1/1	0.91	0.06	157,157,157,157	0
26	MG	A	1639	1/1	0.92	0.17	87,87,87,87	0
26	MG	A	1746	1/1	0.92	0.18	104,104,104,104	0
26	MG	A	1664	1/1	0.92	0.19	154,154,154,154	0
26	MG	A	1825	1/1	0.92	0.15	436,436,436,436	0
26	MG	A	1879	1/1	0.92	0.16	438,438,438,438	0
26	MG	A	1727	1/1	0.92	0.26	84,84,84,84	0
26	MG	A	1829	1/1	0.92	0.23	489,489,489,489	0
26	MG	P	101	1/1	0.92	0.20	58,58,58,58	0
26	MG	A	1677	1/1	0.92	0.19	235,235,235,235	0
26	MG	A	1832	1/1	0.92	0.09	278,278,278,278	0
26	MG	A	1815	1/1	0.92	0.24	506,506,506,506	0
26	MG	A	1642	1/1	0.92	0.08	78,78,78,78	0
26	MG	A	1617	1/1	0.92	0.19	85,85,85,85	0
26	MG	A	1816	1/1	0.93	0.13	454,454,454,454	0
26	MG	A	1655	1/1	0.93	0.13	125,125,125,125	0
26	MG	A	1772	1/1	0.93	0.05	93,93,93,93	0
26	MG	A	1669	1/1	0.93	0.06	123,123,123,123	0
26	MG	A	1659	1/1	0.93	0.19	90,90,90,90	0
26	MG	A	1748	1/1	0.93	0.10	110,110,110,110	0
26	MG	A	1782	1/1	0.93	0.22	87,87,87,87	0
26	MG	A	1709	1/1	0.93	0.17	245,245,245,245	0
26	MG	A	1828	1/1	0.93	0.15	432,432,432,432	0
26	MG	A	1613	1/1	0.93	0.07	202,202,202,202	0
26	MG	A	1663	1/1	0.93	0.16	160,160,160,160	0
26	MG	A	1807	1/1	0.93	0.48	517,517,517,517	1
26	MG	A	1604	1/1	0.93	0.10	91,91,91,91	0
26	MG	A	1737	1/1	0.93	0.17	89,89,89,89	0
26	MG	A	1899	1/1	0.93	0.15	68,68,68,68	0
26	MG	A	1810	1/1	0.93	0.13	474,474,474,474	0
26	MG	A	1622	1/1	0.93	0.08	81,81,81,81	0
26	MG	J	201	1/1	0.93	0.16	109,109,109,109	0
26	MG	A	1761	1/1	0.93	0.09	105,105,105,105	0
26	MG	A	1688	1/1	0.93	0.20	186,186,186,186	0
26	MG	A	1905	1/1	0.93	0.07	105,105,105,105	0
26	MG	A	1906	1/1	0.93	0.08	64,64,64,64	0
26	MG	A	1721	1/1	0.93	0.17	92,92,92,92	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
26	MG	A	1624	1/1	0.93	0.34	147,147,147,147	0
26	MG	A	1847	1/1	0.93	0.21	441,441,441,441	0
26	MG	A	1920	1/1	0.94	0.07	138,138,138,138	0
26	MG	A	1840	1/1	0.94	0.20	467,467,467,467	1
26	MG	A	1636	1/1	0.94	0.15	88,88,88,88	0
26	MG	A	1842	1/1	0.94	0.10	488,488,488,488	0
26	MG	A	1735	1/1	0.94	0.07	106,106,106,106	0
26	MG	A	1927	1/1	0.94	0.26	112,112,112,112	0
26	MG	A	1774	1/1	0.94	0.32	109,109,109,109	0
26	MG	A	1827	1/1	0.94	0.09	251,251,251,251	0
26	MG	A	1716	1/1	0.94	0.08	132,132,132,132	0
26	MG	A	1760	1/1	0.94	0.11	88,88,88,88	0
26	MG	A	1780	1/1	0.94	0.26	119,119,119,119	0
26	MG	A	1621	1/1	0.94	0.06	131,131,131,131	0
26	MG	A	1852	1/1	0.94	0.27	450,450,450,450	0
26	MG	A	1896	1/1	0.94	0.08	114,114,114,114	0
26	MG	A	1806	1/1	0.94	0.43	505,505,505,505	0
26	MG	A	1723	1/1	0.94	0.13	117,117,117,117	0
26	MG	A	1626	1/1	0.94	0.19	245,245,245,245	0
26	MG	A	1732	1/1	0.94	0.11	100,100,100,100	0
26	MG	A	1919	1/1	0.94	0.20	78,78,78,78	0
26	MG	A	1637	1/1	0.95	0.11	228,228,228,228	0
26	MG	A	1854	1/1	0.95	0.18	418,418,418,418	0
26	MG	A	1691	1/1	0.95	0.15	186,186,186,186	0
26	MG	A	1783	1/1	0.95	0.04	110,110,110,110	0
26	MG	A	1692	1/1	0.95	0.07	182,182,182,182	0
26	MG	A	1633	1/1	0.95	0.06	118,118,118,118	0
26	MG	A	1831	1/1	0.95	0.36	395,395,395,395	0
26	MG	A	1649	1/1	0.95	0.14	84,84,84,84	0
26	MG	A	1834	1/1	0.95	0.35	412,412,412,412	1
26	MG	A	1720	1/1	0.95	0.11	74,74,74,74	0
26	MG	A	1610	1/1	0.95	0.11	81,81,81,81	0
26	MG	A	1702	1/1	0.95	0.06	279,279,279,279	0
26	MG	A	1667	1/1	0.95	0.07	119,119,119,119	0
26	MG	A	1707	1/1	0.95	0.06	135,135,135,135	0
26	MG	A	1708	1/1	0.95	0.29	152,152,152,152	0
26	MG	A	1770	1/1	0.95	0.71	106,106,106,106	0
26	MG	A	1795	1/1	0.95	0.31	359,359,359,359	0
26	MG	A	1685	1/1	0.95	0.21	126,126,126,126	0
26	MG	A	1747	1/1	0.95	0.27	115,115,115,115	0
26	MG	A	1776	1/1	0.95	0.18	96,96,96,96	0
26	MG	A	1822	1/1	0.95	0.14	293,293,293,293	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
26	MG	A	1710	1/1	0.95	0.11	253,253,253,253	0
26	MG	A	1686	1/1	0.95	0.14	184,184,184,184	0
26	MG	A	1754	1/1	0.95	0.11	85,85,85,85	0
26	MG	A	1705	1/1	0.96	0.12	74,74,74,74	0
26	MG	A	1773	1/1	0.96	0.07	103,103,103,103	0
26	MG	A	1620	1/1	0.96	0.09	166,166,166,166	0
26	MG	A	1885	1/1	0.96	0.10	84,84,84,84	0
26	MG	A	1687	1/1	0.96	0.07	106,106,106,106	0
26	MG	A	1615	1/1	0.96	0.06	147,147,147,147	0
26	MG	A	1661	1/1	0.96	0.23	244,244,244,244	0
26	MG	A	1836	1/1	0.96	0.26	416,416,416,416	1
26	MG	A	1605	1/1	0.96	0.08	254,254,254,254	0
26	MG	A	1694	1/1	0.96	0.13	87,87,87,87	0
26	MG	A	1922	1/1	0.96	0.13	110,110,110,110	0
26	MG	A	1818	1/1	0.96	0.05	189,189,189,189	0
26	MG	A	1924	1/1	0.96	0.17	131,131,131,131	0
26	MG	A	1632	1/1	0.96	0.28	248,248,248,248	0
26	MG	A	1864	1/1	0.96	0.15	393,393,393,393	0
26	MG	A	1762	1/1	0.96	0.14	82,82,82,82	0
26	MG	A	1866	1/1	0.96	0.16	434,434,434,434	0
26	MG	A	1868	1/1	0.96	0.37	380,380,380,380	0
26	MG	E	201	1/1	0.96	0.11	95,95,95,95	0
26	MG	A	1821	1/1	0.96	0.25	428,428,428,428	0
26	MG	A	1765	1/1	0.96	0.07	104,104,104,104	0
26	MG	A	1697	1/1	0.96	0.05	135,135,135,135	0
26	MG	A	1612	1/1	0.96	0.25	281,281,281,281	0
26	MG	A	1656	1/1	0.96	0.10	236,236,236,236	0
26	MG	A	1752	1/1	0.96	0.11	91,91,91,91	0
26	MG	A	1876	1/1	0.96	0.29	463,463,463,463	1
26	MG	A	1657	1/1	0.96	0.17	220,220,220,220	0
26	MG	A	1850	1/1	0.96	0.07	236,236,236,236	0
26	MG	A	1771	1/1	0.96	0.10	102,102,102,102	0
26	MG	A	1911	1/1	0.96	0.08	100,100,100,100	0
26	MG	A	1695	1/1	0.97	0.06	176,176,176,176	0
26	MG	A	1803	1/1	0.97	0.09	345,345,345,345	0
26	MG	A	1867	1/1	0.97	0.16	413,413,413,413	1
26	MG	A	1882	1/1	0.97	0.21	315,315,315,315	0
26	MG	E	202	1/1	0.97	0.04	124,124,124,124	0
26	MG	A	1608	1/1	0.97	0.10	73,73,73,73	0
26	MG	A	1751	1/1	0.97	0.20	76,76,76,76	0
26	MG	A	1714	1/1	0.97	0.05	108,108,108,108	0
26	MG	A	1672	1/1	0.97	0.10	166,166,166,166	0

Continued on next page...

Continued from previous page...

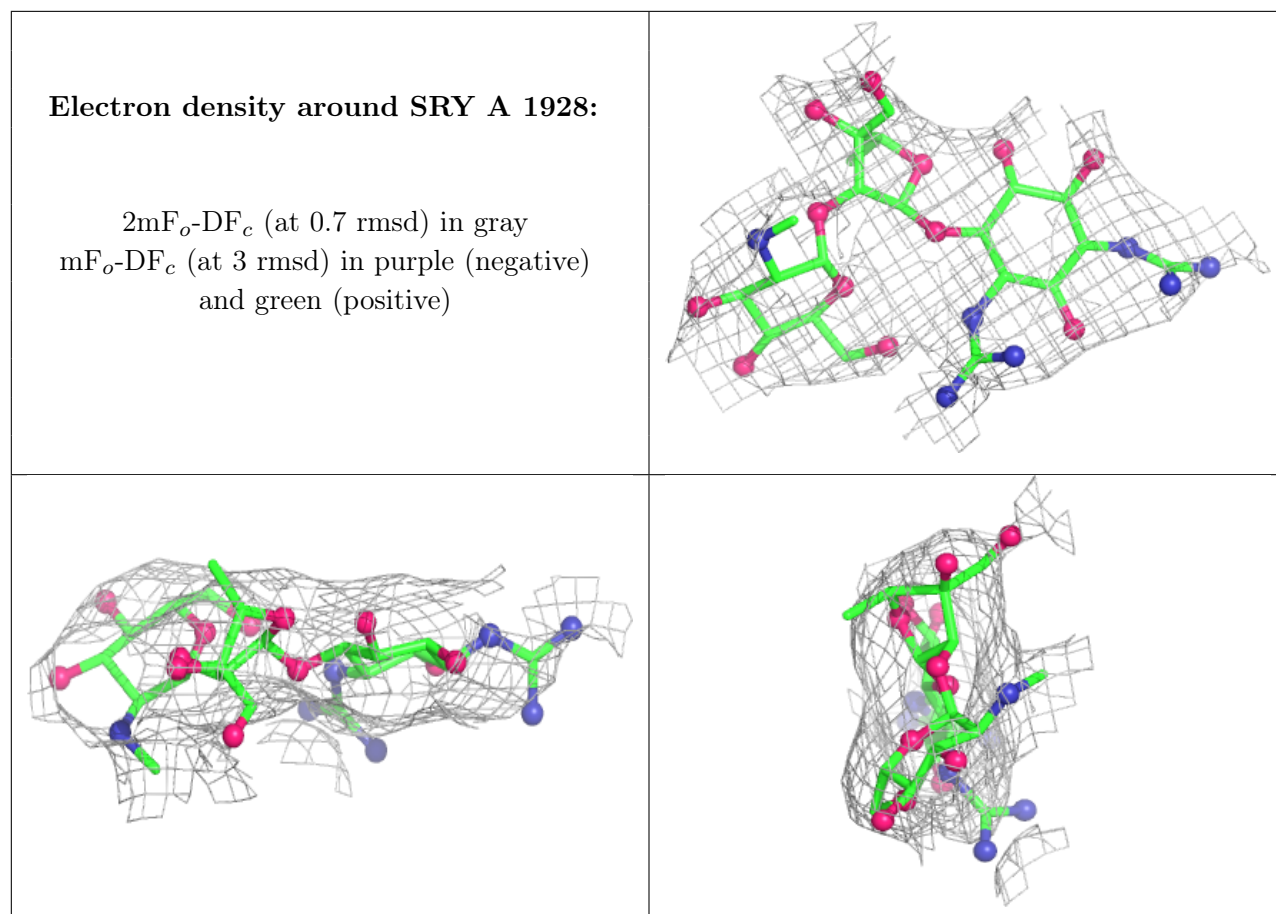
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
26	MG	A	1606	1/1	0.97	0.11	87,87,87,87	0
26	MG	A	1786	1/1	0.97	0.05	109,109,109,109	0
26	MG	A	1693	1/1	0.97	0.05	108,108,108,108	0
26	MG	A	1745	1/1	0.97	0.17	92,92,92,92	0
26	MG	A	1893	1/1	0.97	0.31	114,114,114,114	0
26	MG	A	1778	1/1	0.97	0.04	119,119,119,119	1
26	MG	A	1652	1/1	0.97	0.05	72,72,72,72	0
26	MG	A	1775	1/1	0.98	0.10	79,79,79,79	0
26	MG	A	1627	1/1	0.98	0.06	141,141,141,141	0
26	MG	A	1738	1/1	0.98	0.04	68,68,68,68	0
26	MG	A	1701	1/1	0.98	0.07	108,108,108,108	0
26	MG	A	1843	1/1	0.98	0.28	357,357,357,357	0
26	MG	A	1713	1/1	0.98	0.07	211,211,211,211	0
26	MG	A	1869	1/1	0.98	0.14	431,431,431,431	0
26	MG	A	1725	1/1	0.98	0.06	92,92,92,92	0
26	MG	A	1640	1/1	0.98	0.25	172,172,172,172	0
26	MG	A	1715	1/1	0.98	0.13	229,229,229,229	0
26	MG	A	1653	1/1	0.98	0.15	96,96,96,96	0
26	MG	A	1763	1/1	0.98	0.04	120,120,120,120	0
26	MG	A	1764	1/1	0.98	0.05	78,78,78,78	0
26	MG	A	1647	1/1	0.98	0.10	104,104,104,104	0
26	MG	A	1648	1/1	0.98	0.08	93,93,93,93	0
26	MG	E	203	1/1	0.98	0.05	101,101,101,101	0
26	MG	A	1731	1/1	0.98	0.09	68,68,68,68	0
26	MG	A	1689	1/1	0.98	0.06	126,126,126,126	0
26	MG	A	1749	1/1	0.98	0.06	84,84,84,84	0
26	MG	H	201	1/1	0.98	0.21	67,67,67,67	0
26	MG	A	1833	1/1	0.98	0.28	335,335,335,335	0
26	MG	A	1750	1/1	0.98	0.07	74,74,74,74	0
26	MG	A	1883	1/1	0.98	0.22	443,443,443,443	0
26	MG	A	1733	1/1	0.98	0.11	70,70,70,70	0
26	MG	A	1698	1/1	0.98	0.08	124,124,124,124	0
26	MG	A	1630	1/1	0.98	0.08	158,158,158,158	0
26	MG	A	1736	1/1	0.98	0.07	123,123,123,123	0
26	MG	A	1862	1/1	0.98	0.09	268,268,268,268	0
28	ZN	D	301	1/1	0.98	0.20	138,138,138,138	0
26	MG	A	1611	1/1	0.99	0.05	113,113,113,113	0
26	MG	A	1903	1/1	0.99	0.06	78,78,78,78	0
26	MG	A	1651	1/1	0.99	0.04	110,110,110,110	0
26	MG	A	1703	1/1	0.99	0.04	97,97,97,97	0
26	MG	A	1704	1/1	0.99	0.06	104,104,104,104	0
26	MG	D	303	1/1	0.99	0.09	104,104,104,104	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
26	MG	A	1638	1/1	0.99	0.03	86,86,86,86	0
26	MG	A	1603	1/1	0.99	0.10	277,277,277,277	0
26	MG	A	1602	1/1	0.99	0.14	66,66,66,66	1
26	MG	A	1888	1/1	0.99	0.05	89,89,89,89	0
26	MG	A	1641	1/1	0.99	0.04	102,102,102,102	0
26	MG	A	1631	1/1	0.99	0.12	158,158,158,158	0
26	MG	A	1690	1/1	0.99	0.04	114,114,114,114	0
26	MG	A	1643	1/1	0.99	0.02	71,71,71,71	0
26	MG	A	1658	1/1	0.99	0.03	115,115,115,115	0
26	MG	A	1625	1/1	0.99	0.03	113,113,113,113	0
26	MG	A	1676	1/1	0.99	0.08	158,158,158,158	0
26	MG	A	1645	1/1	0.99	0.12	227,227,227,227	0
26	MG	A	1619	1/1	0.99	0.03	64,64,64,64	0
26	MG	A	1662	1/1	0.99	0.04	123,123,123,123	0
26	MG	A	1634	1/1	0.99	0.04	107,107,107,107	0
26	MG	A	1635	1/1	0.99	0.05	74,74,74,74	0
27	SRY	A	1928	40/40	0.99	0.05	70,100,124,130	0
26	MG	A	1607	1/1	0.99	0.04	154,154,154,154	0
28	ZN	N	101	1/1	0.99	0.03	164,164,164,164	0
26	MG	A	1623	1/1	1.00	0.03	67,67,67,67	0
26	MG	A	1616	1/1	1.00	0.05	63,63,63,63	0

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



6.5 Other polymers [i](#)

There are no such residues in this entry.