



wwPDB EM Validation Summary Report ⓘ

Mar 20, 2026 – 06:36 AM UTC

PDB ID : 6KW5 / pdb_00006kw5
EMDB ID : EMD-0779
Title : The ClassC RSC-Nucleosome Complex
Authors : Ye, Y.P.; Wu, H.; Chen, K.J.; Verma, N.; Cairns, B.; Gao, N.; Chen, Z.C.
Deposited on : 2019-09-06
Resolution : 10.13 Å(reported)

This is a wwPDB EM 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/EMValidationReportHelp>

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:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

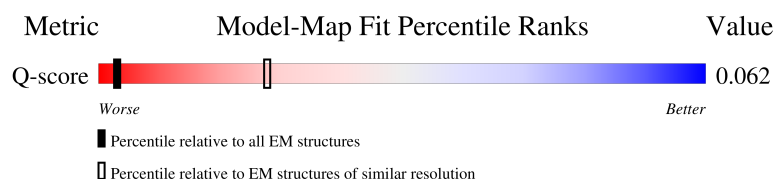
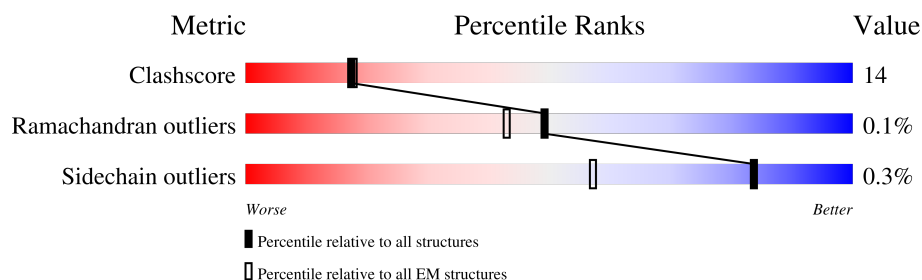
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 10.13 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	116 (9.68 - 10.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	F	435	
2	D	557	
2	H	557	
3	M	581	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	I	483	
5	G	426	
6	A	502	
7	J	1359	
7	P	1359	
7	Q	1359	
8	E	78	
9	C	883	
10	K	885	
11	X	625	
12	L	889	
13	S	103	
13	W	103	
14	f	477	
15	h	157	
16	R	136	
16	V	136	
17	O	130	
17	T	130	
18	U	126	
18	Y	126	
19	g	467	
20	B	167	
21	N	167	

2 Entry composition

There are 22 unique types of molecules in this entry. The entry contains 45484 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 protein called Chromatin structure-remodeling complex subunit RSC7.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	F	118	Total	C	N	O	S	0	0
			964	601	164	197	2		

- Molecule 2 is a protein called Chromatin structure-remodeling complex protein RSC8.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	H	393	Total	C	N	O	S	0	0
			3215	2036	552	613	14		
2	D	305	Total	C	N	O	S	0	0
			2510	1613	416	471	10		

- Molecule 3 is a protein called Chromatin structure-remodeling complex subunit RSC9.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	M	384	Total	C	N	O	S	0	0
			3058	1970	497	574	17		

- Molecule 4 is a protein called Chromatin structure-remodeling complex protein RSC6.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	I	244	Total	C	N	O	S	0	0
			1944	1234	328	377	5		

- Molecule 5 is a protein called Chromatin structure-remodeling complex subunit SFH1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	246	Total	C	N	O	S	0	0
			1996	1271	337	380	8		

- Molecule 6 is a protein called Chromatin structure-remodeling complex protein RSC58.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A	365	Total	C	N	O	S	0	0
			3007	1942	509	547	9		

- Molecule 7 is a protein called Nuclear protein STH1/NPS1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	J	235	Total	C	N	O	S	0	0
			1814	1136	327	349	2		
7	P	69	Total	C	N	O	S	0	0
			592	364	121	105	2		
7	Q	548	Total	C	N	O	S	0	0
			4503	2873	780	832	18		

- Molecule 8 is a protein called High temperature lethal protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	E	58	Total	C	N	O	S	0	0
			477	295	86	92	4		

- Molecule 9 is a protein called Chromatin structure-remodeling complex protein RSC30.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	C	33	Total	C	N	O	S	0	0
			269	177	39	52	1		

- Molecule 10 is a protein called Chromatin structure-remodeling complex protein RSC3.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	K	42	Total	C	N	O	S	0	0
			347	225	57	63	2		

- Molecule 11 is a protein called Chromatin structure-remodeling complex subunit RSC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	X	147	Total	C	N	O	S	0	0
			1220	776	202	234	8		

- Molecule 12 is a protein called Chromatin structure-remodeling complex subunit RSC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	85	Total	C	N	O	S	0	0
			669	428	120	119	2		

- Molecule 13 is a protein called Histone H4.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	W	88	Total	C	N	O	S	0	0
			708	445	143	119	1		
13	S	82	Total	C	N	O	S	0	0
			657	416	128	112	1		

- Molecule 14 is a protein called Actin-related protein 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	f	398	Total	C	N	O	S	3	0
			3219	2075	527	602	15		

- Molecule 15 is a protein called Regulator of Ty1 transposition protein 102.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	h	54	Total	C	N	O	S	0	0
			490	313	84	92	1		

- Molecule 16 is a protein called Histone H3.2.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	R	96	Total	C	N	O	S	0	0
			794	500	154	137	3		
16	V	95	Total	C	N	O	S	0	0
			784	494	151	136	3		

- Molecule 17 is a protein called Histone H2A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	T	104	Total	C	N	O	S	0	0
			804	507	157	140			
17	O	107	Total	C	N	O	S	0	0
			823	519	161	143			

- Molecule 18 is a protein called Histone H4.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	U	93	Total	C	N	O	S	0	0
			725	456	130	137	2		
18	Y	93	Total	C	N	O	S	0	0
			717	450	128	137	2		

- Molecule 19 is a protein called Actin-like protein ARP9.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	g	395	Total	C	N	O	S	1	0
			3191	2048	522	614	7		

- Molecule 20 is a DNA chain called DNA 167.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	B	146	Total	C	N	O	P	0	0
			2977	1414	542	875	146		

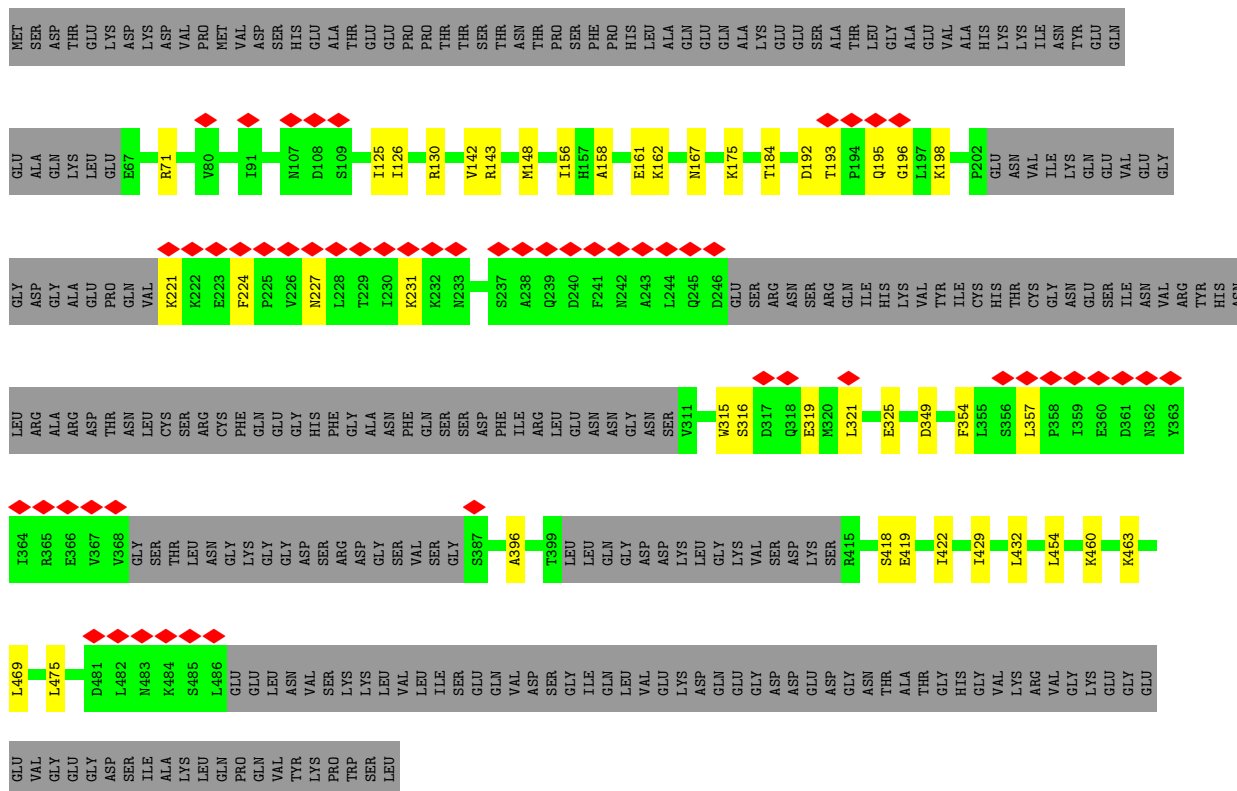
- Molecule 21 is a DNA chain called DNA 167.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	N	146	Total	C	N	O	P	0	0
			3009	1425	561	877	146		

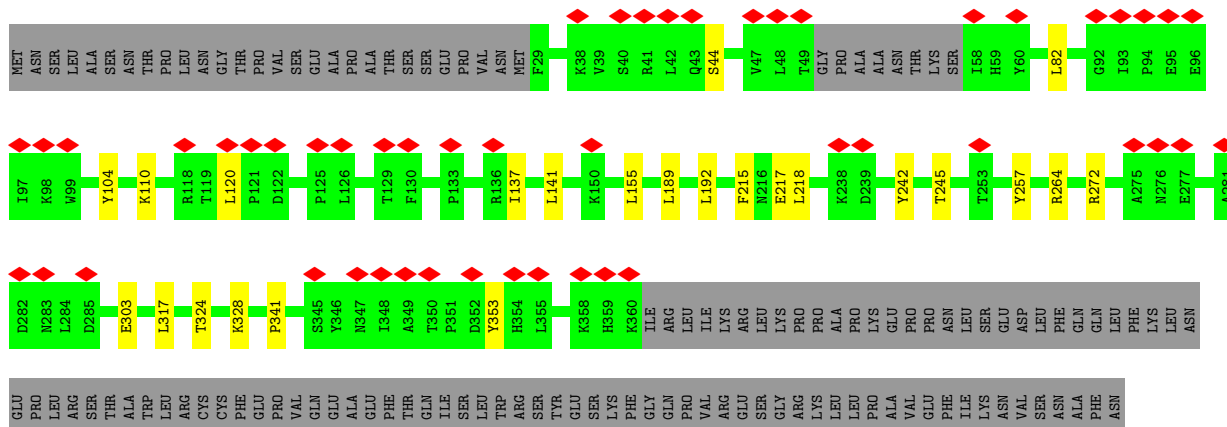
- Molecule 22 is ZINC ION (CCD ID: ZN) (formula: Zn).

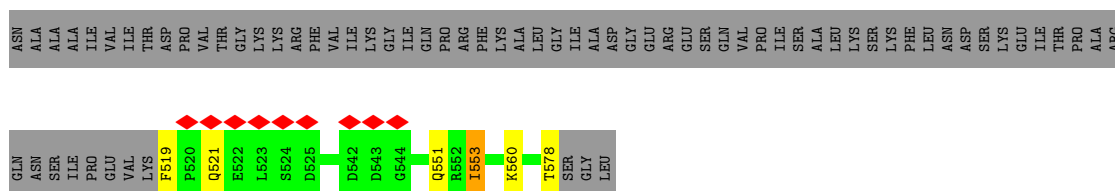
Mol	Chain	Residues	Atoms		AltConf
22	H	1	Total	Zn	0
			1	1	

- Molecule 2: Chromatin structure-remodeling complex protein RSC8

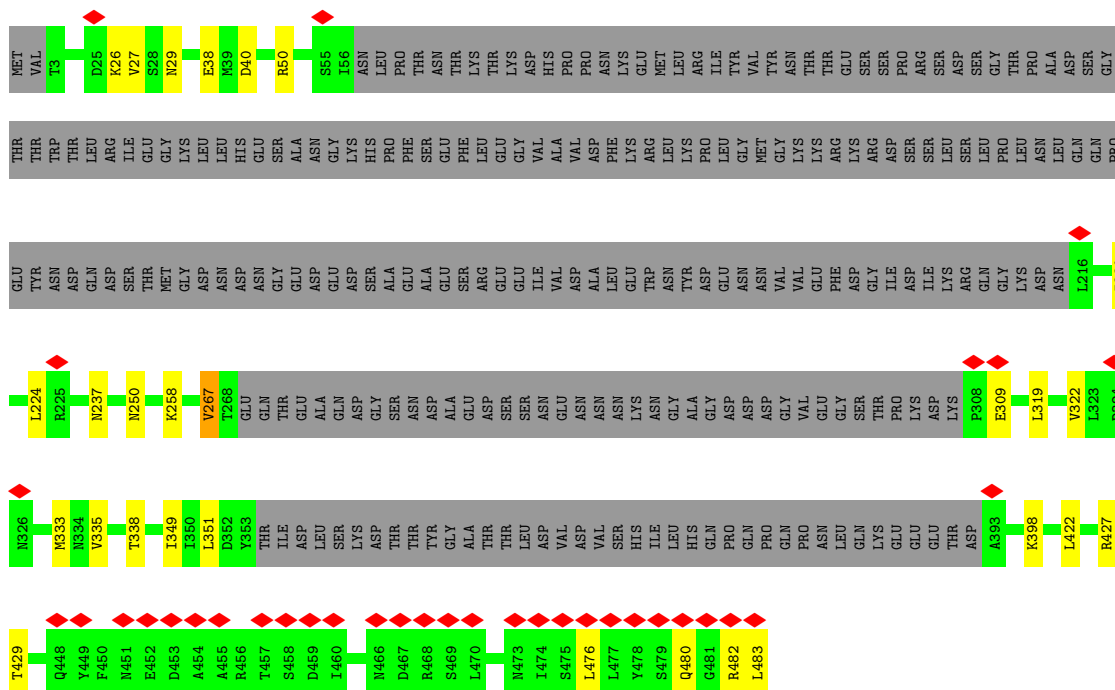
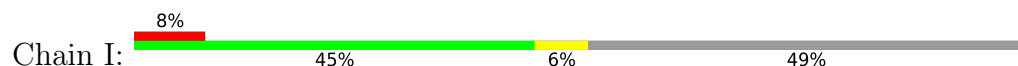


- Molecule 3: Chromatin structure-remodeling complex subunit RSC9

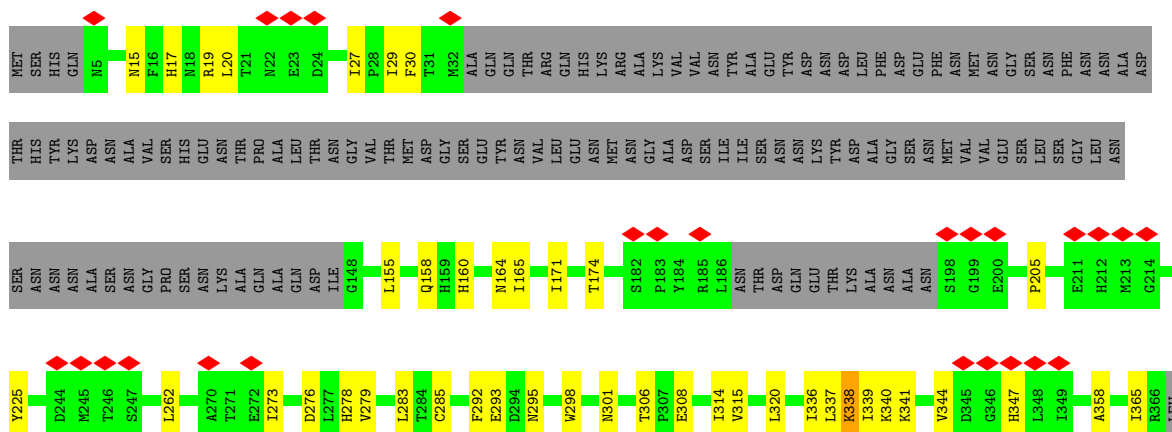




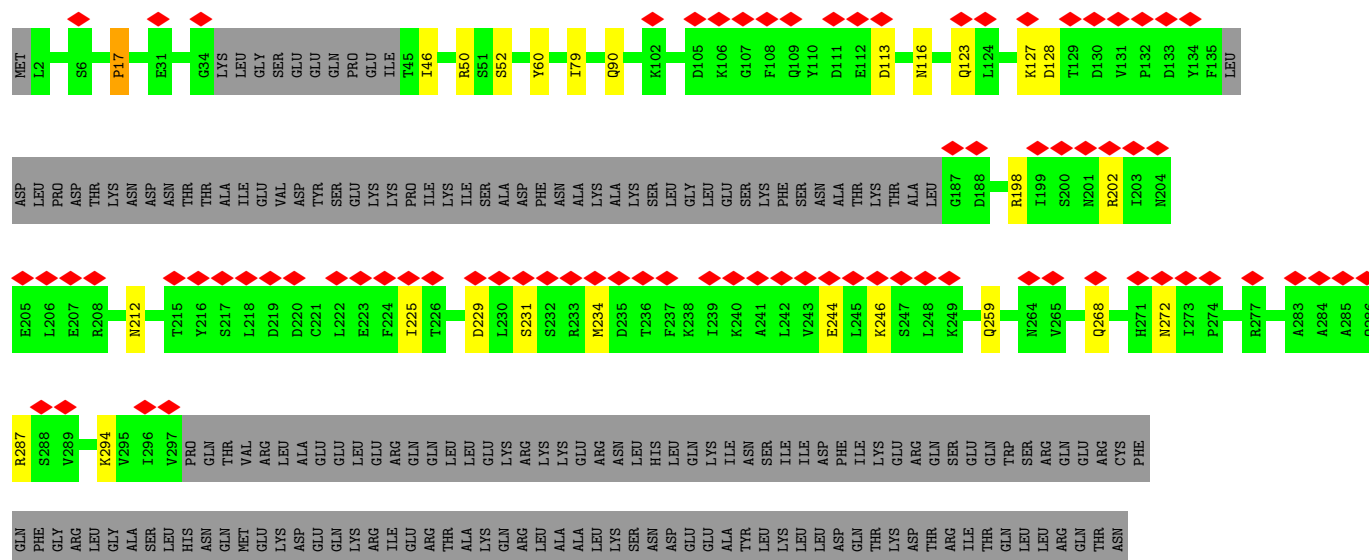
• Molecule 4: Chromatin structure-remodeling complex protein RSC6

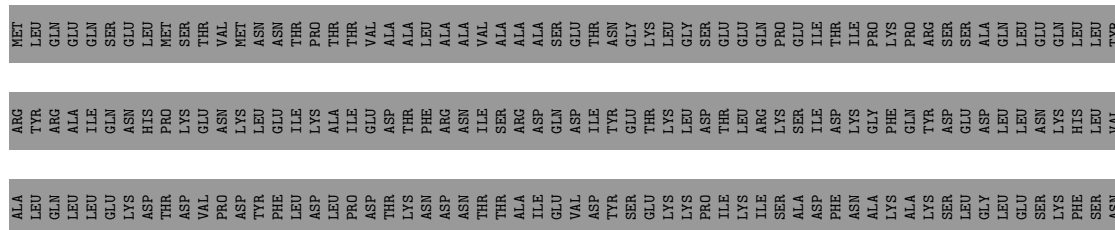


• Molecule 5: Chromatin structure-remodeling complex subunit SFH1



Chain A:

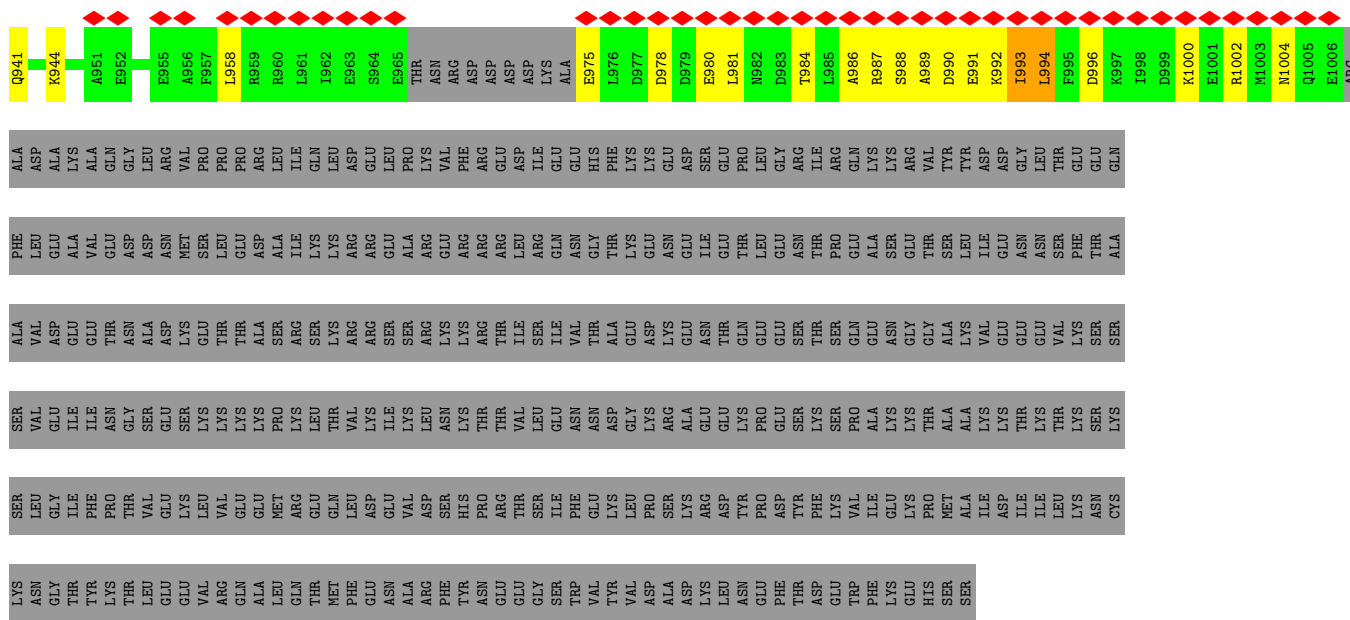




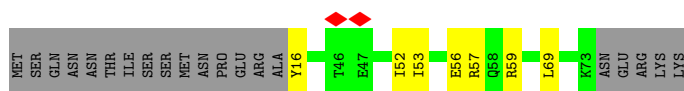


Chain Q:

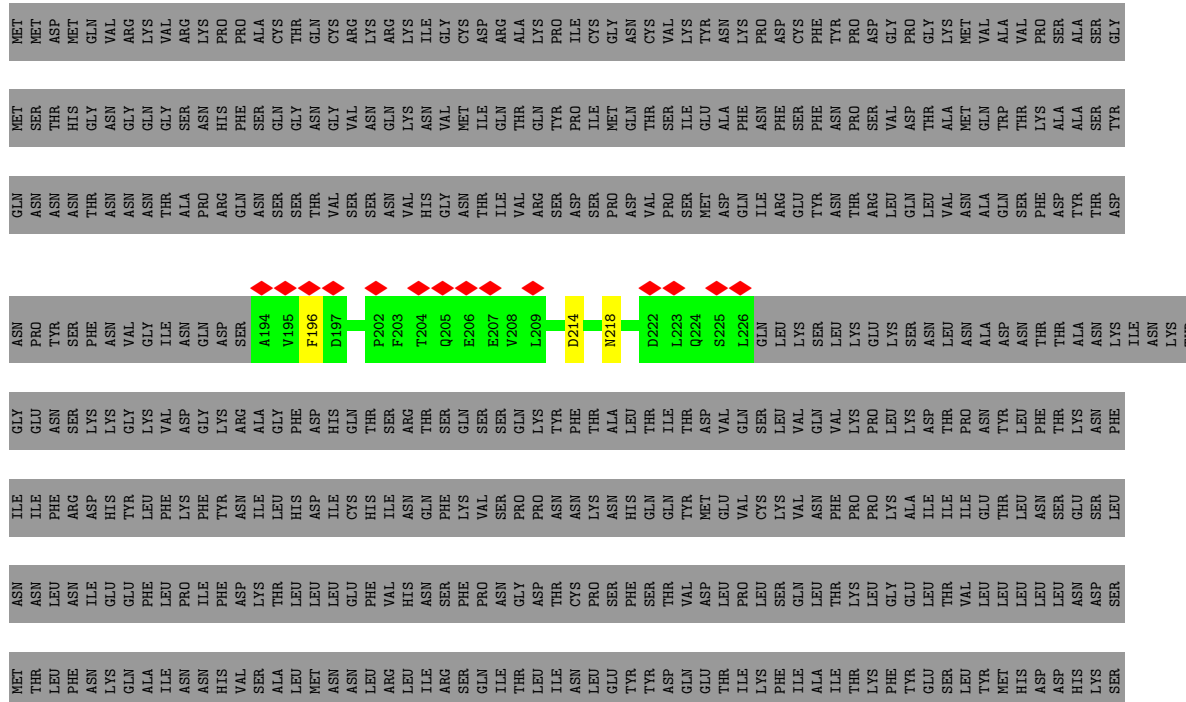




- Molecule 8: High temperature lethal protein 1

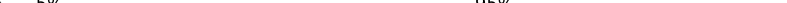


- Molecule 9: Chromatin structure-remodeling complex protein RSC30



[illegible]

- Molecule 10: Chromatin structure-remodeling complex protein RSC3

Chain K:  5% 95%

[illegible]

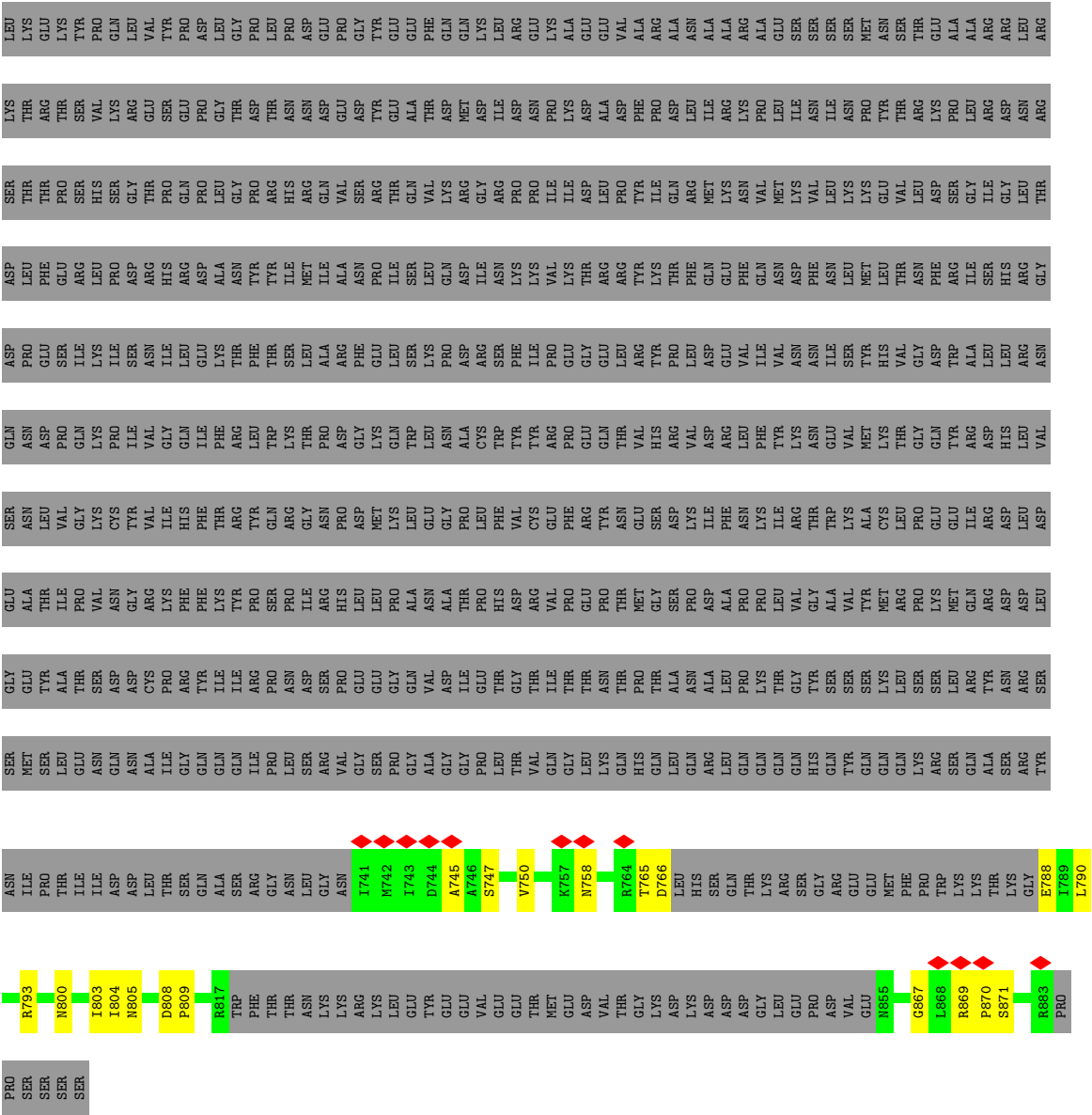
[illegible]

- Molecule 11: Chromatin structure-remodeling complex subunit RSC4

[illegible]

- Molecule 12: Chromatin structure-remodeling complex subunit RSC2

[illegible]



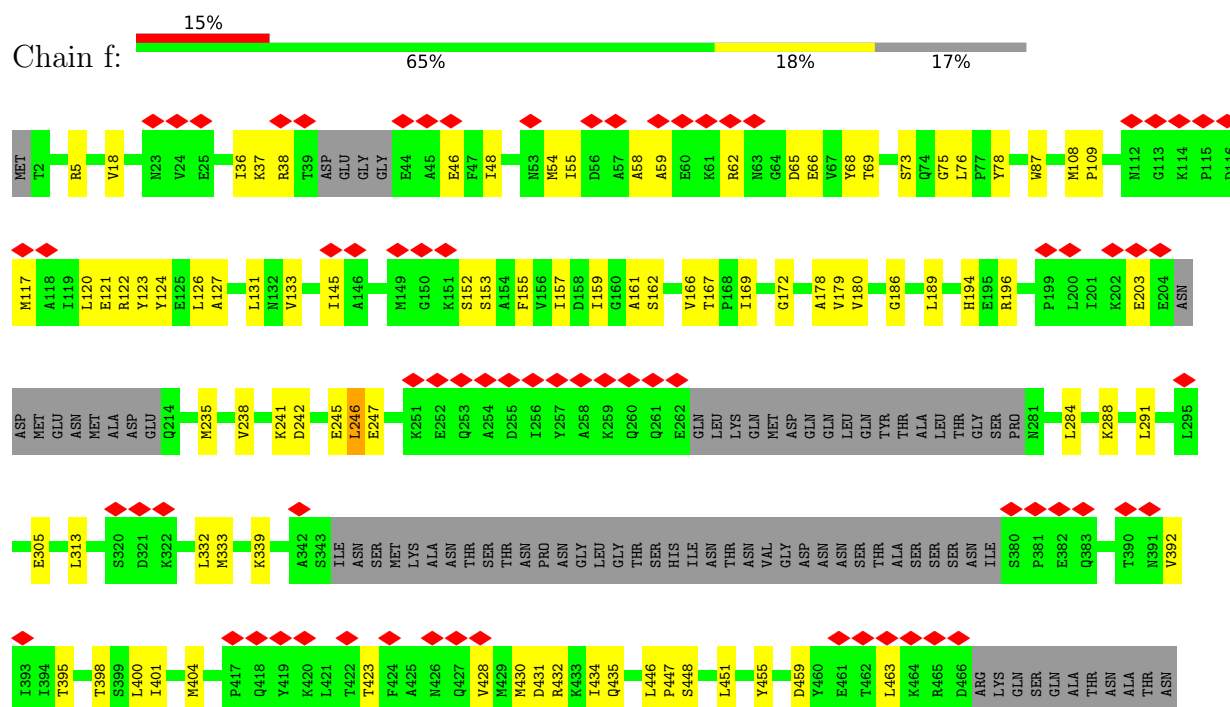
● Molecule 13: Histone H4



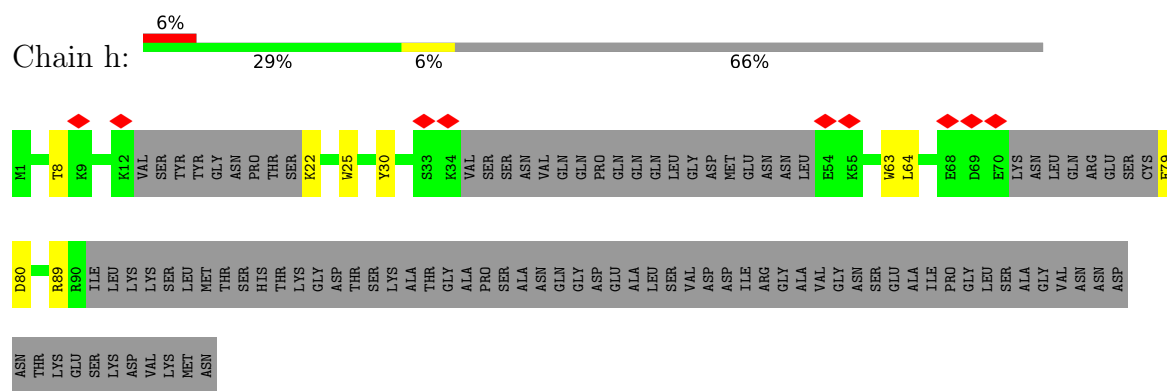
● Molecule 13: Histone H4



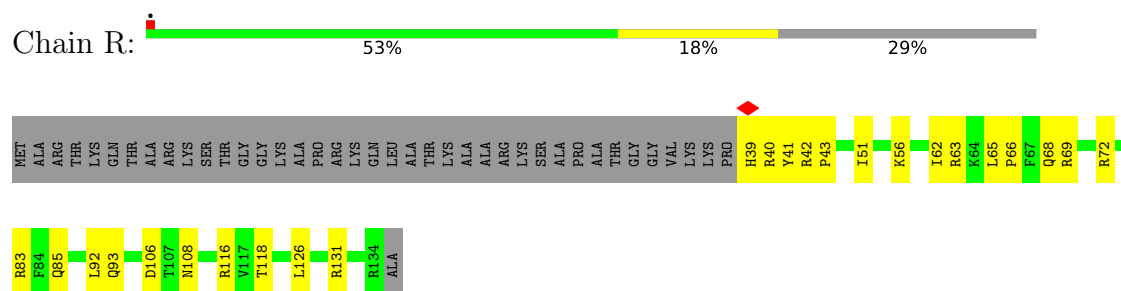
● Molecule 14: Actin-related protein 7



- Molecule 15: Regulator of Ty1 transposition protein 102

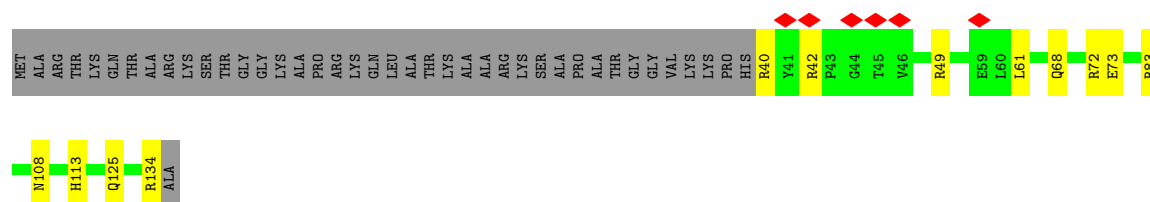


- Molecule 16: Histone H3.2

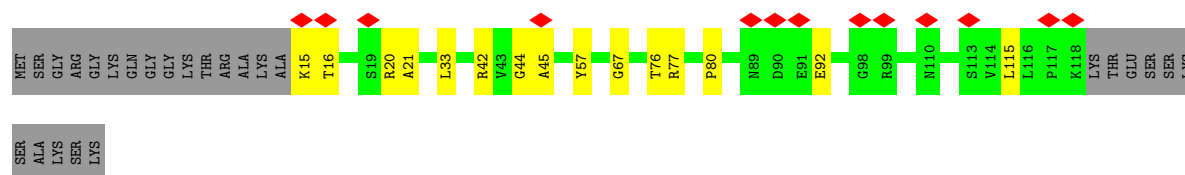


- Molecule 16: Histone H3.2

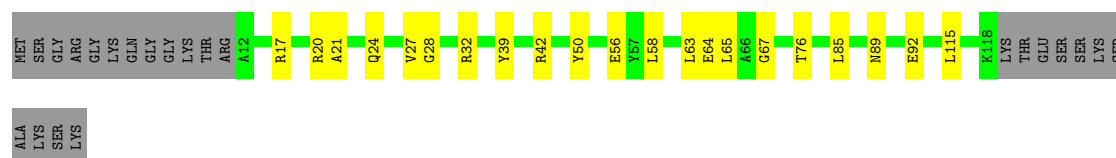




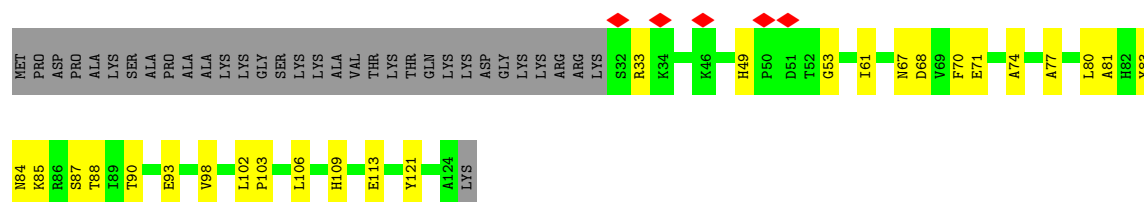
• Molecule 17: Histone H2A



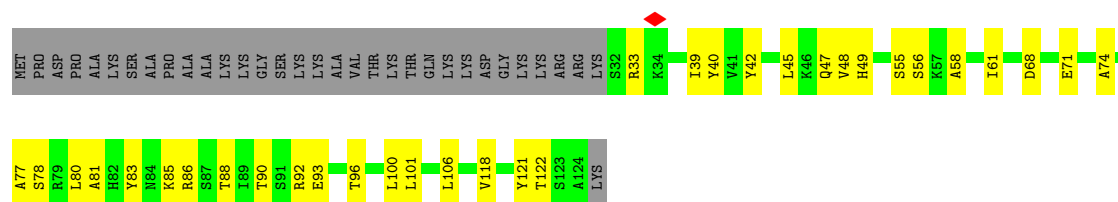
• Molecule 17: Histone H2A



• Molecule 18: Histone H4



• Molecule 18: Histone H4



• Molecule 19: Actin-like protein ARP9



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	24146	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.099	Depositor
Minimum map value	-0.013	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.022	Depositor
Map size (Å)	385.2, 385.2, 385.2	wwPDB
Map dimensions	180, 180, 180	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.14, 2.14, 2.14	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN

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	F	0.21	0/983	0.58	0/1337
2	D	0.22	0/2557	0.50	0/3442
2	H	0.24	0/3275	0.54	2/4409 (0.0%)
3	M	0.26	0/3113	0.58	1/4215 (0.0%)
4	I	0.23	0/1976	0.54	0/2685
5	G	0.23	0/2039	0.60	1/2769 (0.0%)
6	A	0.26	0/3077	0.61	0/4169
7	J	0.25	0/1836	0.62	1/2480 (0.0%)
7	P	0.27	0/598	0.63	0/789
7	Q	0.34	0/4580	0.77	6/6167 (0.1%)
8	E	0.21	0/480	0.52	0/643
9	C	0.16	0/272	0.38	0/366
10	K	0.19	0/356	0.50	0/483
11	X	0.28	0/1243	0.59	0/1672
12	L	0.25	0/681	0.61	0/921
13	S	0.45	0/664	0.63	0/889
13	W	0.45	0/716	0.63	0/955
14	f	0.21	0/3295	0.52	1/4454 (0.0%)
15	h	0.19	0/501	0.44	0/669
16	R	0.47	0/805	0.65	0/1079
16	V	0.43	0/794	0.54	0/1064
17	O	0.45	0/833	0.67	1/1124 (0.1%)
17	T	0.41	0/814	0.55	0/1099
18	U	0.46	0/736	0.64	0/991
18	Y	0.47	0/728	0.70	0/983
19	g	0.23	0/3261	0.60	4/4421 (0.1%)
20	B	0.54	0/3336	0.52	0/5142
21	N	0.54	0/3378	0.54	0/5216
All	All	0.34	0/46927	0.59	17/64633 (0.0%)

There are no bond length outliers.

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	g	48	ASP	CB-CA-C	9.60	119.34	109.83
7	Q	993	ILE	N-CA-C	-6.71	103.78	110.62
7	J	17	PRO	N-CA-CB	6.68	110.26	103.25
5	G	338	LYS	N-CA-C	-6.58	102.56	112.04
3	M	553	ILE	N-CA-C	-6.14	107.51	113.53

There are no chirality outliers.

There are no planarity outliers.

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	F	964	0	919	5	0
2	D	2510	0	2542	34	0
2	H	3215	0	3195	42	0
3	M	3058	0	3127	26	0
4	I	1944	0	1964	25	0
5	G	1996	0	1948	32	0
6	A	3007	0	3045	50	0
7	J	1814	0	1777	23	0
7	P	592	0	610	19	0
7	Q	4503	0	4567	248	0
8	E	477	0	491	5	0
9	C	269	0	279	2	0
10	K	347	0	342	2	0
11	X	1220	0	1192	29	0
12	L	669	0	693	19	0
13	S	657	0	706	36	0
13	W	708	0	758	32	0
14	f	3219	0	3240	114	0
15	h	490	0	467	10	0
16	R	794	0	830	52	0
16	V	784	0	823	31	0
17	O	823	0	881	75	0
17	T	804	0	859	52	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	U	725	0	744	69	0
18	Y	717	0	723	86	0
19	g	3191	0	3179	86	0
20	B	2977	0	1639	169	0
21	N	3009	0	1640	158	0
22	H	1	0	0	0	0
All	All	45484	0	43180	1047	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

The worst 5 of 1047 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)
14:f:238:VAL:HG21	14:f:404:MET:SD	1.19	1.76
14:f:76:LEU:CD2	14:f:108:MET:HE1	1.23	1.67
7:Q:473:TYR:CZ	7:Q:702:VAL:HA	1.27	1.58
14:f:36:ILE:HG13	14:f:54:MET:CE	1.28	1.56
14:f:76:LEU:CD2	14:f:108:MET:CE	1.85	1.55

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	
1	F	116/435 (27%)	102 (88%)	14 (12%)	0	100	100
2	D	295/557 (53%)	280 (95%)	15 (5%)	0	100	100
2	H	387/557 (70%)	356 (92%)	31 (8%)	0	100	100
3	M	378/581 (65%)	349 (92%)	29 (8%)	0	100	100
4	I	236/483 (49%)	218 (92%)	18 (8%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	G	238/426 (56%)	213 (90%)	25 (10%)	0	100	100
6	A	357/502 (71%)	321 (90%)	36 (10%)	0	100	100
7	J	229/1359 (17%)	201 (88%)	27 (12%)	1 (0%)	30	67
7	P	67/1359 (5%)	66 (98%)	1 (2%)	0	100	100
7	Q	536/1359 (39%)	483 (90%)	52 (10%)	1 (0%)	43	78
8	E	56/78 (72%)	53 (95%)	3 (5%)	0	100	100
9	C	31/883 (4%)	31 (100%)	0	0	100	100
10	K	40/885 (4%)	38 (95%)	2 (5%)	0	100	100
11	X	139/625 (22%)	126 (91%)	13 (9%)	0	100	100
12	L	79/889 (9%)	69 (87%)	9 (11%)	1 (1%)	9	42
13	S	80/103 (78%)	77 (96%)	3 (4%)	0	100	100
13	W	86/103 (84%)	81 (94%)	5 (6%)	0	100	100
14	f	391/477 (82%)	382 (98%)	9 (2%)	0	100	100
15	h	46/157 (29%)	43 (94%)	3 (6%)	0	100	100
16	R	94/136 (69%)	90 (96%)	4 (4%)	0	100	100
16	V	93/136 (68%)	92 (99%)	1 (1%)	0	100	100
17	O	105/130 (81%)	102 (97%)	3 (3%)	0	100	100
17	T	102/130 (78%)	101 (99%)	1 (1%)	0	100	100
18	U	91/126 (72%)	88 (97%)	3 (3%)	0	100	100
18	Y	91/126 (72%)	88 (97%)	3 (3%)	0	100	100
19	g	390/467 (84%)	380 (97%)	9 (2%)	1 (0%)	36	72
All	All	4753/13069 (36%)	4430 (93%)	319 (7%)	4 (0%)	49	83

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
19	g	154	ILE
7	J	17	PRO
7	Q	994	LEU
12	L	809	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	
1	F	111/388 (29%)	111 (100%)	0	100	100
2	D	285/500 (57%)	285 (100%)	0	100	100
2	H	363/500 (73%)	362 (100%)	1 (0%)	86	86
3	M	349/521 (67%)	347 (99%)	2 (1%)	78	83
4	I	223/435 (51%)	221 (99%)	2 (1%)	70	79
5	G	226/384 (59%)	226 (100%)	0	100	100
6	A	343/462 (74%)	342 (100%)	1 (0%)	86	86
7	J	187/1228 (15%)	187 (100%)	0	100	100
7	P	63/1228 (5%)	63 (100%)	0	100	100
7	Q	502/1228 (41%)	502 (100%)	0	100	100
8	E	56/75 (75%)	56 (100%)	0	100	100
9	C	32/824 (4%)	32 (100%)	0	100	100
10	K	39/832 (5%)	39 (100%)	0	100	100
11	X	141/578 (24%)	139 (99%)	2 (1%)	59	72
12	L	77/810 (10%)	77 (100%)	0	100	100
13	S	68/79 (86%)	68 (100%)	0	100	100
13	W	72/79 (91%)	72 (100%)	0	100	100
14	f	356/420 (85%)	356 (100%)	0	100	100
15	h	53/140 (38%)	53 (100%)	0	100	100
16	R	84/111 (76%)	84 (100%)	0	100	100
16	V	83/111 (75%)	83 (100%)	0	100	100
17	O	84/102 (82%)	82 (98%)	2 (2%)	43	64
17	T	83/102 (81%)	83 (100%)	0	100	100
18	U	79/105 (75%)	79 (100%)	0	100	100
18	Y	77/105 (73%)	77 (100%)	0	100	100
19	g	362/423 (86%)	361 (100%)	1 (0%)	86	86

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	4398/11770 (37%)	4387 (100%)	11 (0%)	84 86

5 of 11 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
11	X	438	SER
17	O	58	LEU
19	g	48	ASP
17	O	65	LEU
4	I	267	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 86 such sidechains are listed below:

Mol	Chain	Res	Type
17	T	110	ASN
7	Q	600	HIS
18	U	49	HIS
19	g	69	GLN
7	Q	660	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

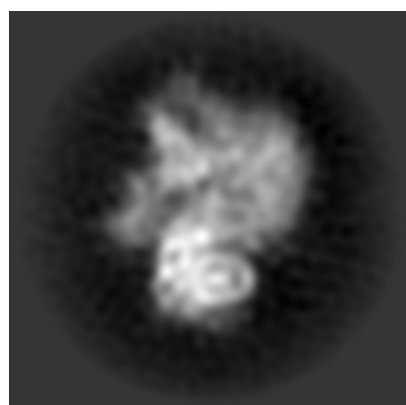
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0779. These allow visual inspection of the internal detail of the map and identification of artifacts.

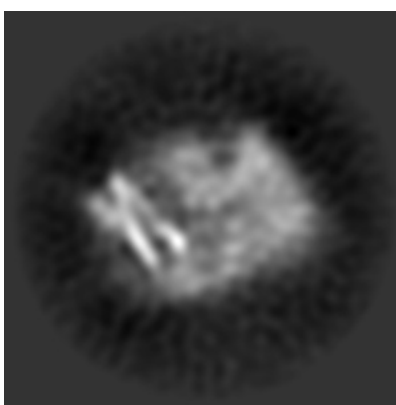
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

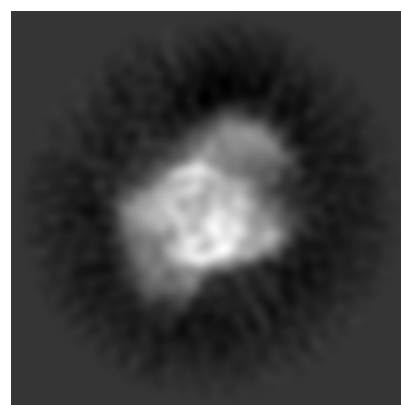
6.1.1 Primary map



X



Y

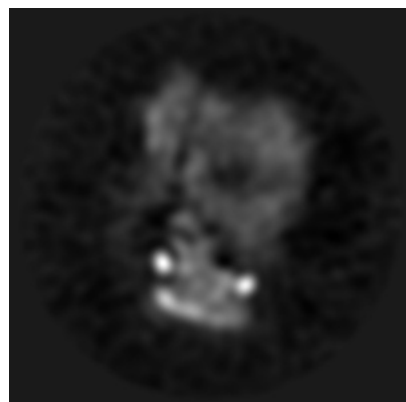


Z

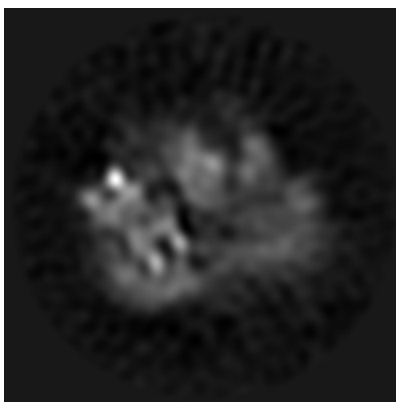
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

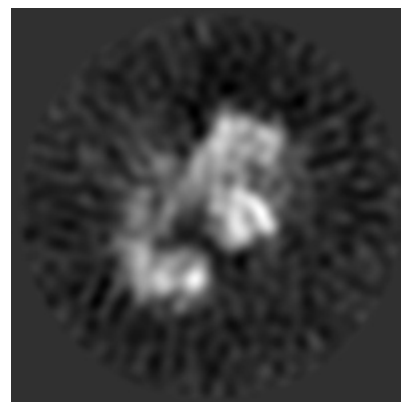
6.2.1 Primary map



X Index: 90



Y Index: 90

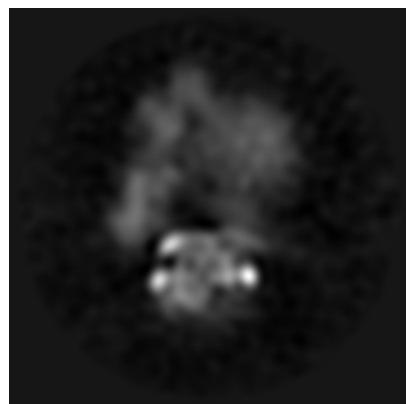


Z Index: 90

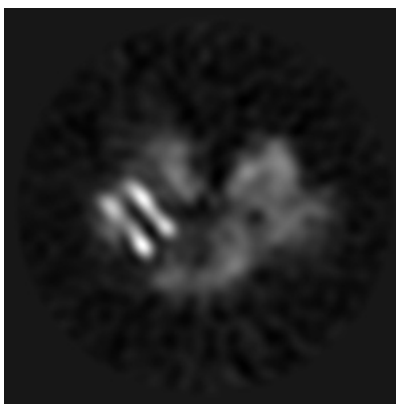
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

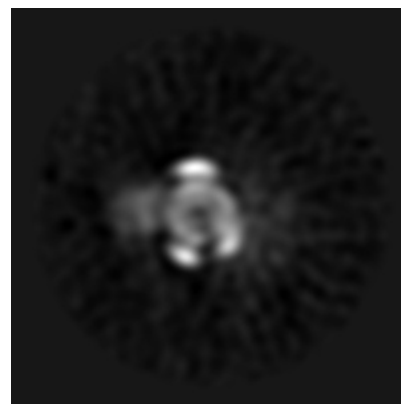
6.3.1 Primary map



X Index: 80



Y Index: 71

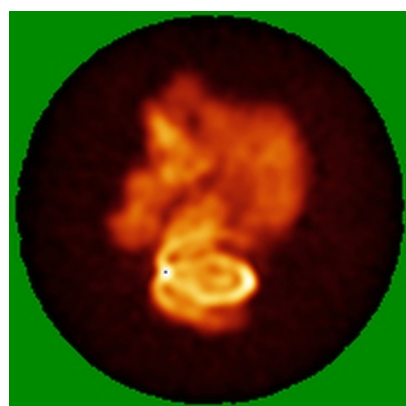


Z Index: 58

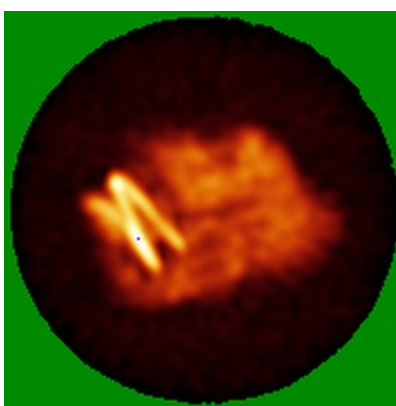
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

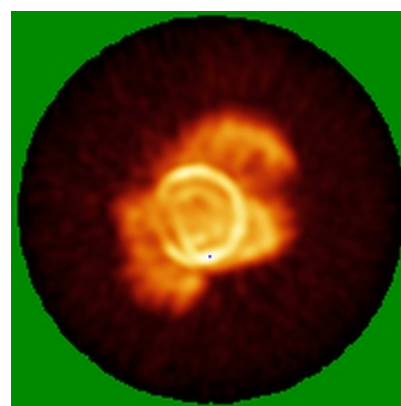
6.4.1 Primary map



X



Y

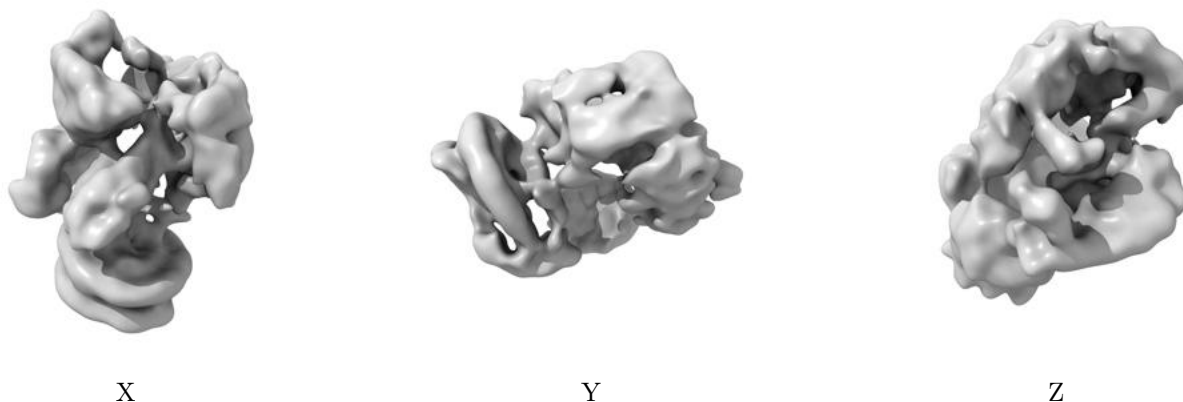


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.022. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

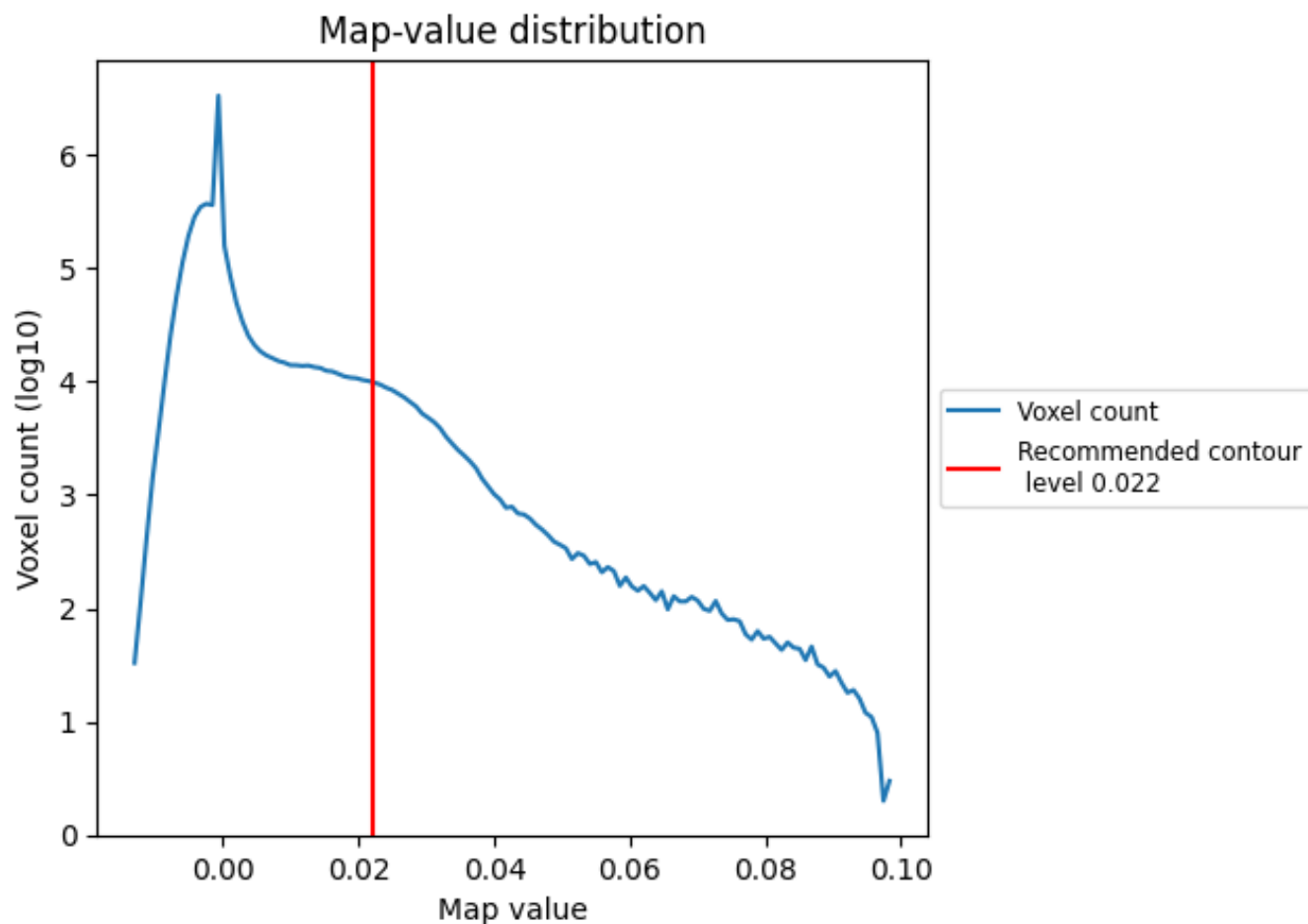
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

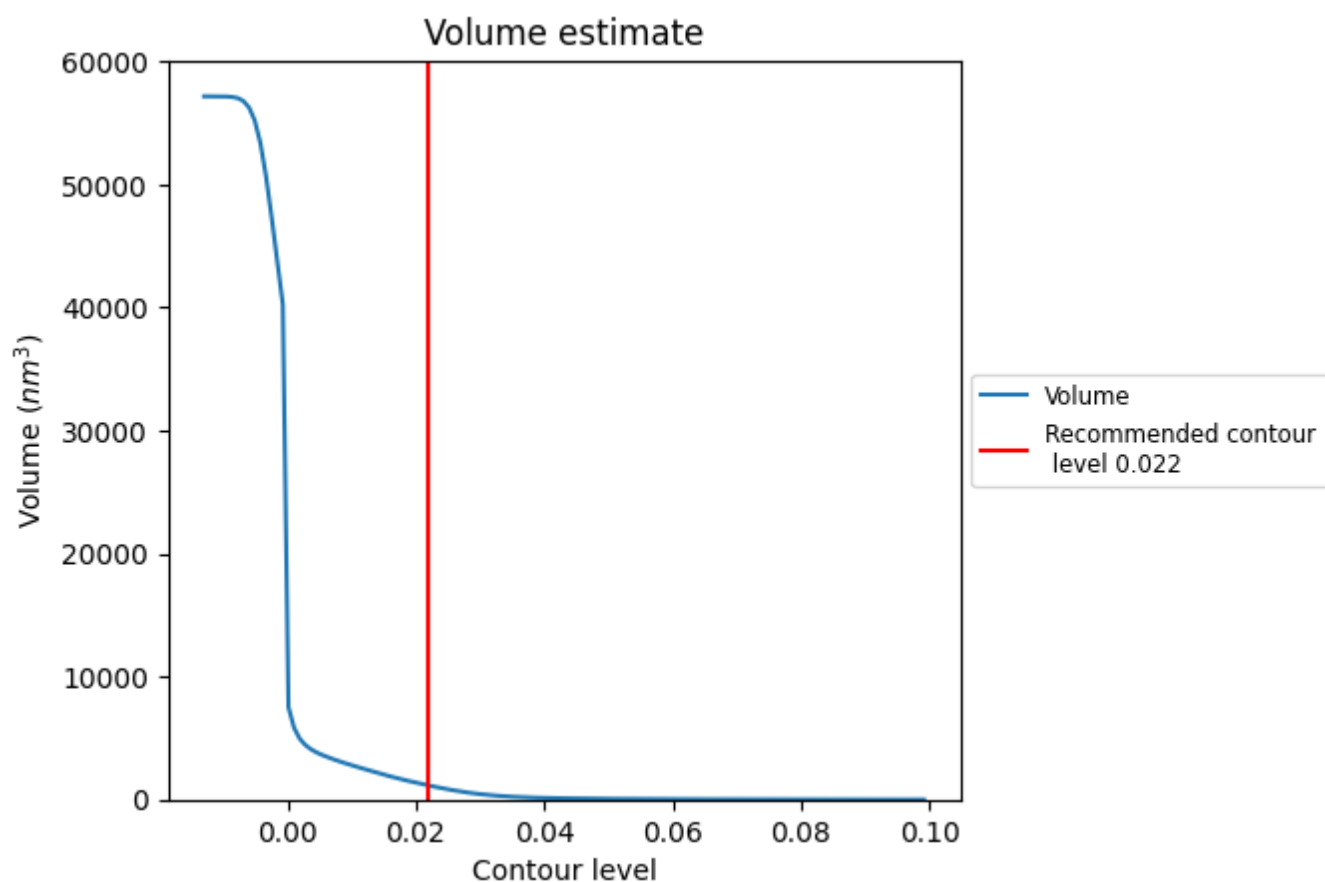
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

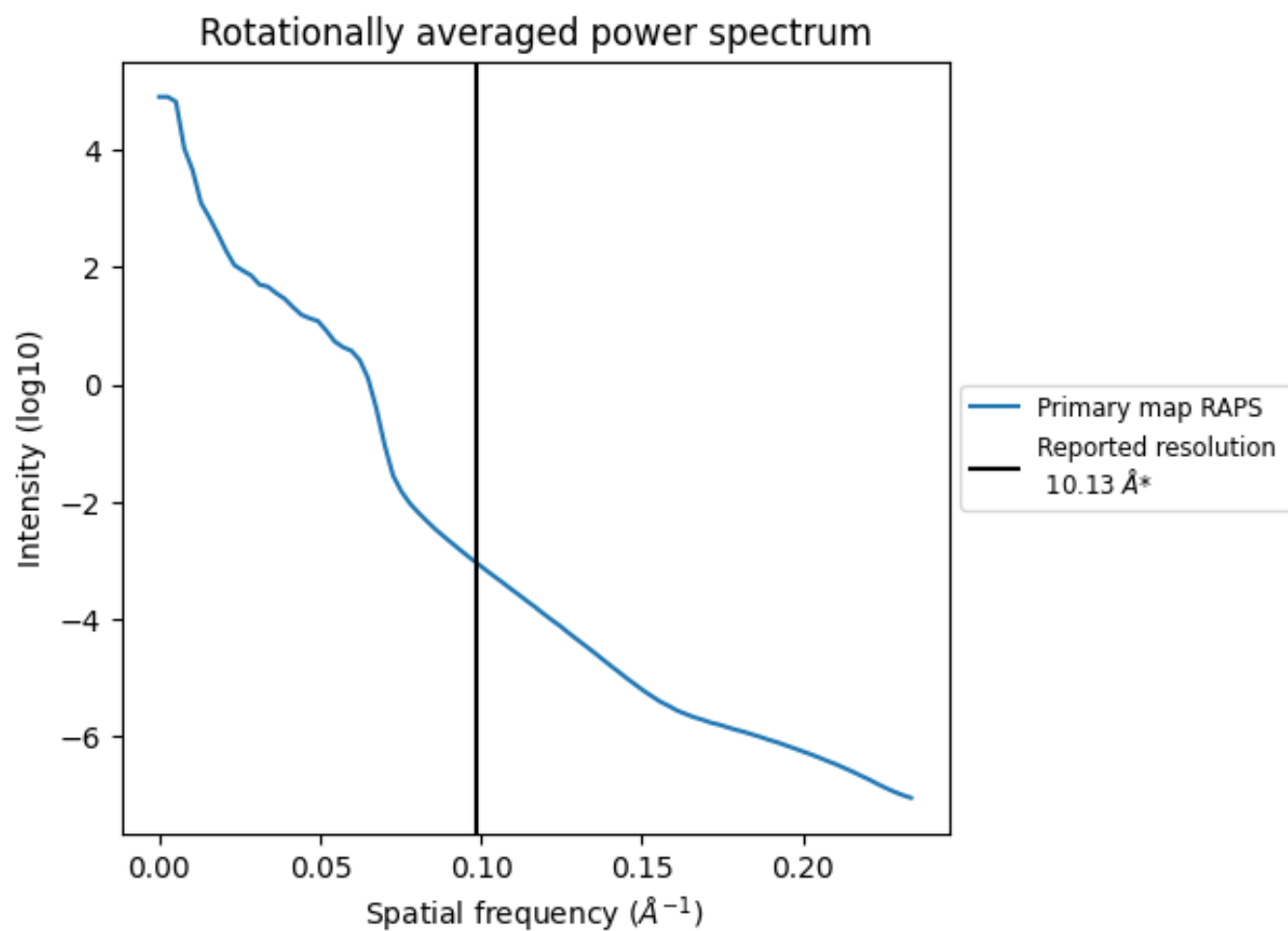
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1145 nm³; this corresponds to an approximate mass of 1035 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.099 Å⁻¹

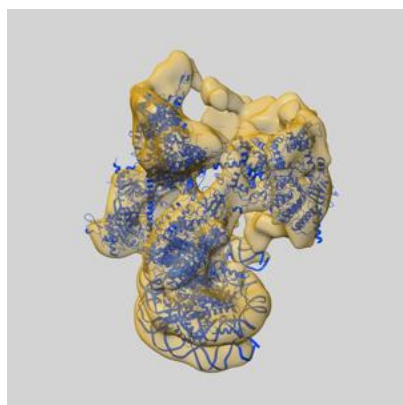
8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

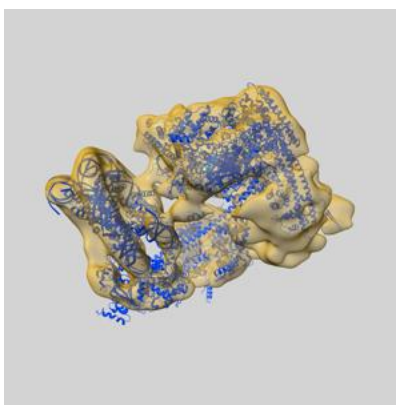
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0779 and PDB model 6KW5. Per-residue inclusion information can be found in [section 3](#) on [page 8](#).

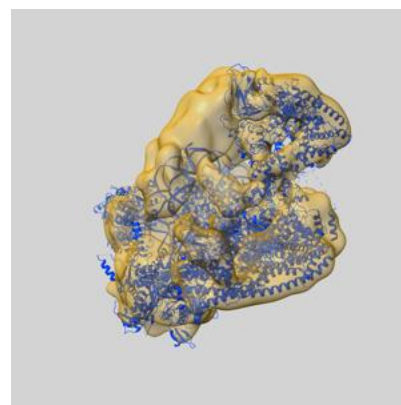
9.1 Map-model overlay [i](#)



X



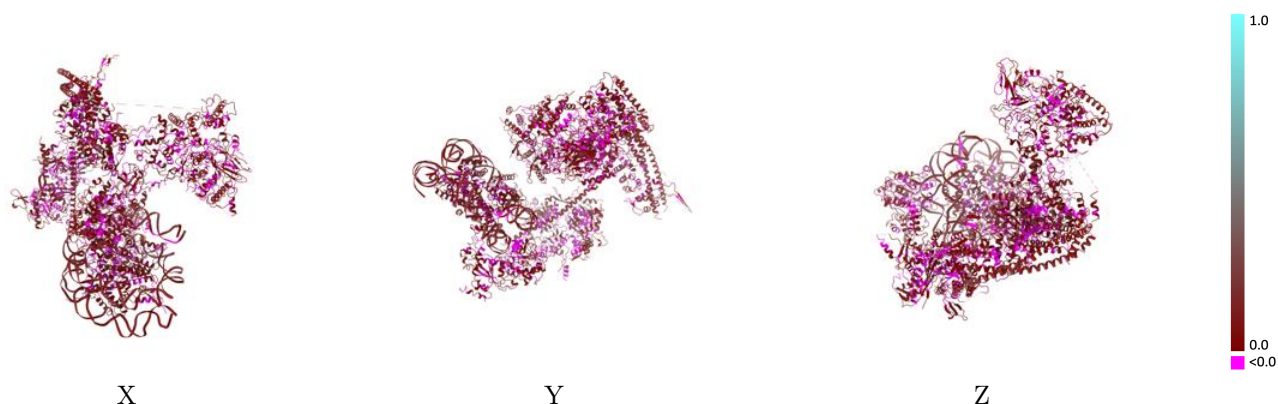
Y



Z

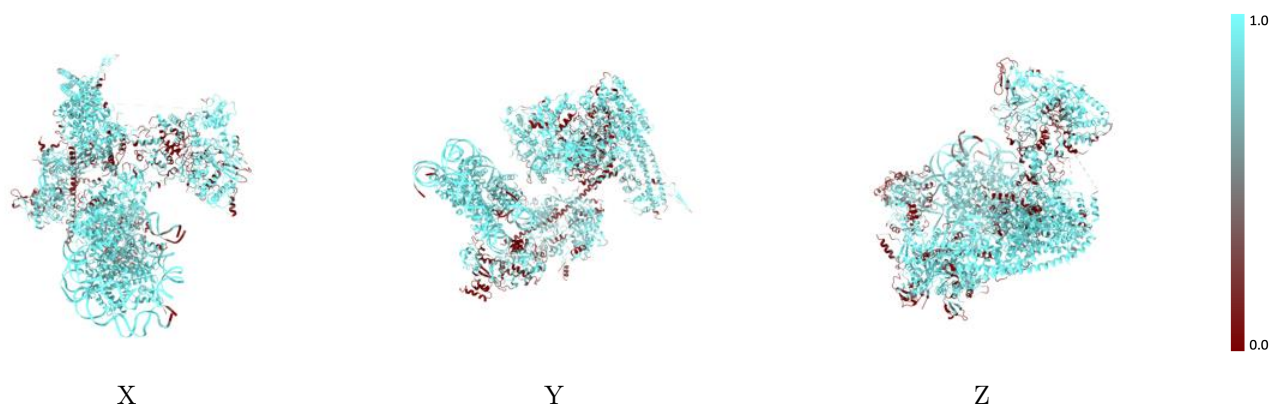
The images above show the 3D surface view of the map at the recommended contour level 0.022 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



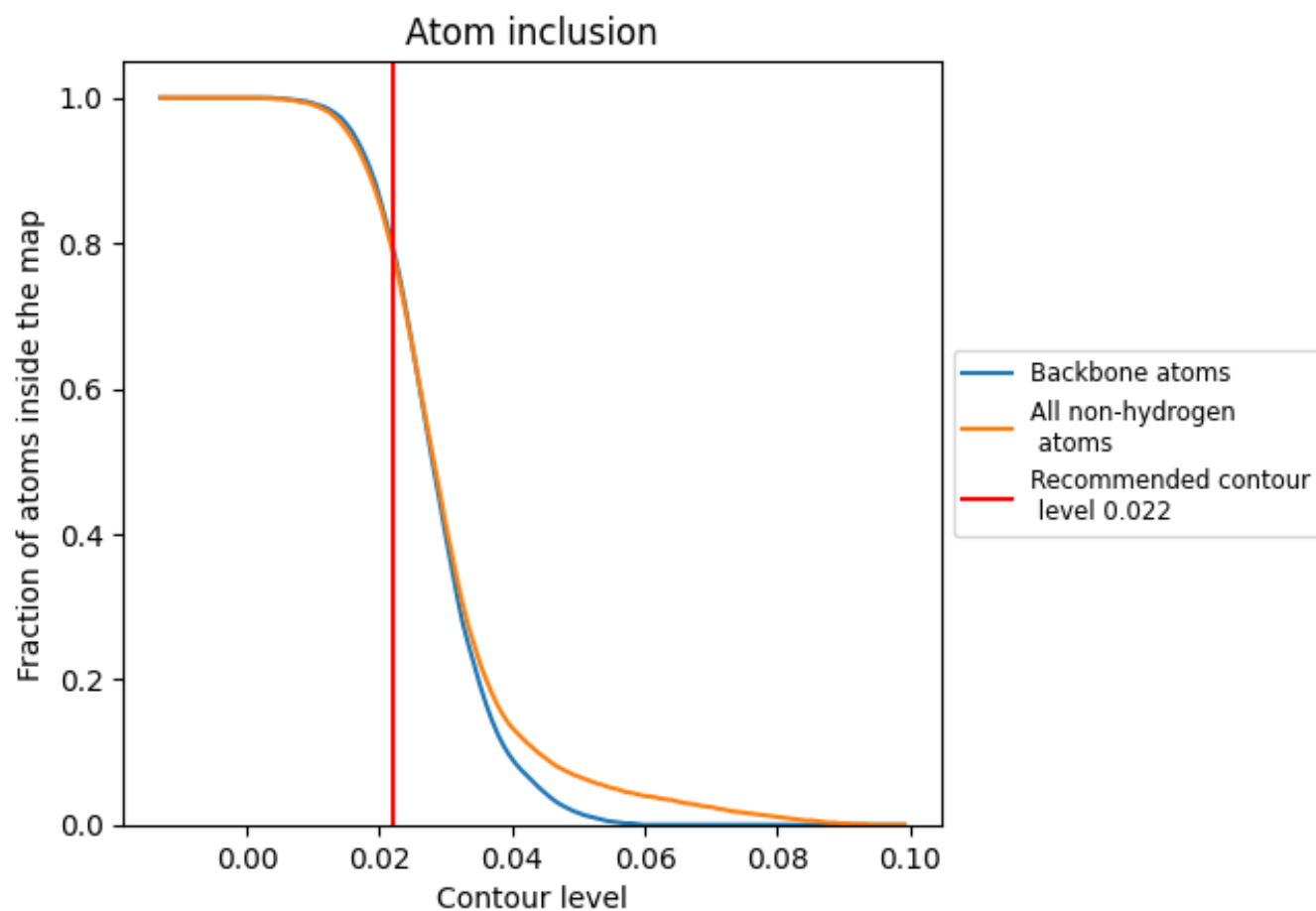
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.022).

9.4 Atom inclusion ⓘ



At the recommended contour level, 80% of all backbone atoms, 79% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.022) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7880	 0.0620
A	 0.7660	 0.0490
B	 0.9270	 0.1310
C	 0.5200	 0.0560
D	 0.7980	 0.0510
E	 0.8890	 0.0350
F	 0.8490	 0.0740
G	 0.8630	 0.0750
H	 0.8410	 0.0650
I	 0.8240	 0.0640
J	 0.6160	 0.0340
K	 0.3000	 0.0620
L	 0.8090	 0.0400
M	 0.8050	 0.0490
N	 0.9270	 0.1270
O	 0.9810	 0.0690
P	 0.2500	 0.0520
Q	 0.5630	 0.0360
R	 0.9700	 0.0290
S	 0.9560	 0.0740
T	 0.8450	 0.0490
U	 0.9080	 0.0560
V	 0.9160	 0.0430
W	 0.9280	 0.0710
X	 0.6980	 0.0520
Y	 0.9810	 0.0480
f	 0.7960	 0.0500
g	 0.7020	 0.0390
h	 0.8100	 0.0700

