



wwPDB EM Validation Summary Report ⓘ

Aug 5, 2026 – 12:50 PM JST

PDB ID : 6K1P / pdb_00006k1p
EMDB ID : EMD-9719
Title : The complex of ISWI-nucleosome in the ADP.BeF-bound state
Authors : Yan, L.J.; Wu, H.; Li, X.M.; Gao, N.; Chen, Z.C.
Deposited on : 2019-05-10
Resolution : 3.87 Å(reported)
Based on initial model : 5X0Y

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.dev133
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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) : 2.50

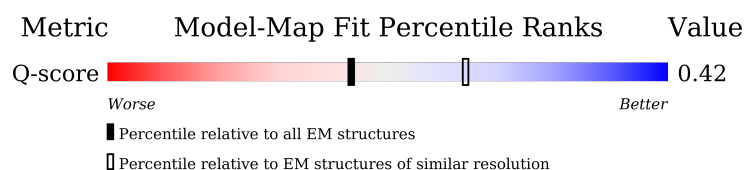
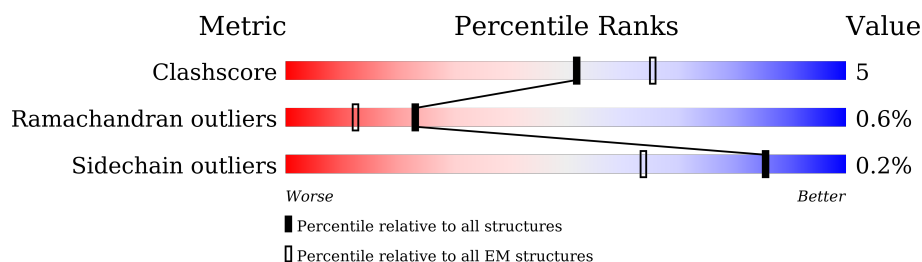
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.87 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	8831 (3.37 - 4.37)

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	A	135	
1	E	135	
2	B	102	
2	F	102	

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Mol	Chain	Length	Quality of chain
3	C	129	
3	G	129	
4	D	122	
4	H	122	
5	I	167	
6	J	167	
7	K	1061	

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
8	BEF	K	1201	-	-	X	-

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 15841 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 Histone H3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	98	Total	C	N	O	S	0	0
			801	506	153	139	3		
1	E	95	Total	C	N	O	S	0	0
			779	492	148	136	3		

- Molecule 2 is a protein called Histone H4.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	88	Total	C	N	O	S	0	0
			707	445	143	118	1		
2	F	86	Total	C	N	O	S	0	0
			672	424	130	117	1		

- Molecule 3 is a protein called Histone H2A.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	C	107	Total	C	N	O	0	0
			811	510	158	143		
3	G	107	Total	C	N	O	0	0
			815	513	159	143		

- Molecule 4 is a protein called Histone H2B 1.1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	93	Total	C	N	O	S	0	0
			718	451	128	137	2		
4	H	93	Total	C	N	O	S	0	0
			726	457	130	137	2		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	29	THR	SER	conflict	UNP P02281

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Chain	Residue	Modelled	Actual	Comment	Reference
H	29	THR	SER	conflict	UNP P02281

- Molecule 5 is a DNA chain called DNA (167-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	I	146	Total	C	N	O	P	0	0
			2975	1413	540	876	146		

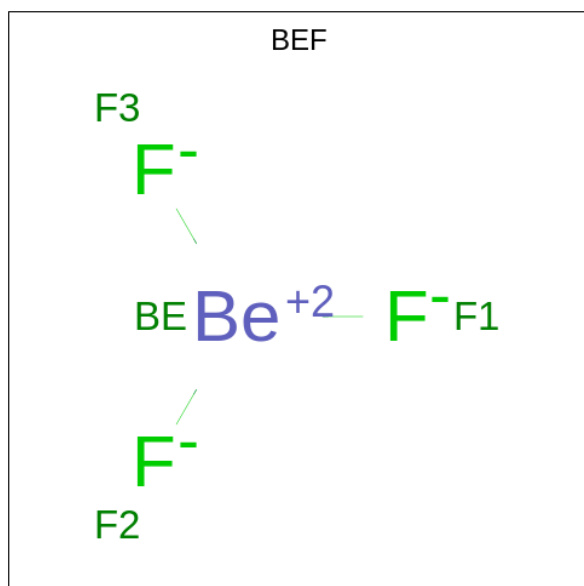
- Molecule 6 is a DNA chain called DNA (167-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	J	146	Total	C	N	O	P	0	0
			3011	1425	564	876	146		

- Molecule 7 is a protein called ISWI chromatin-remodeling complex ATPase ISW1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	K	463	Total	C	N	O	S	0	0
			3794	2424	653	704	13		

- Molecule 8 is BERYLLIUM TRIFLUORIDE ION (CCD ID: BEF) (formula: BeF₃) (labeled as "Ligand of Interest" by depositor).

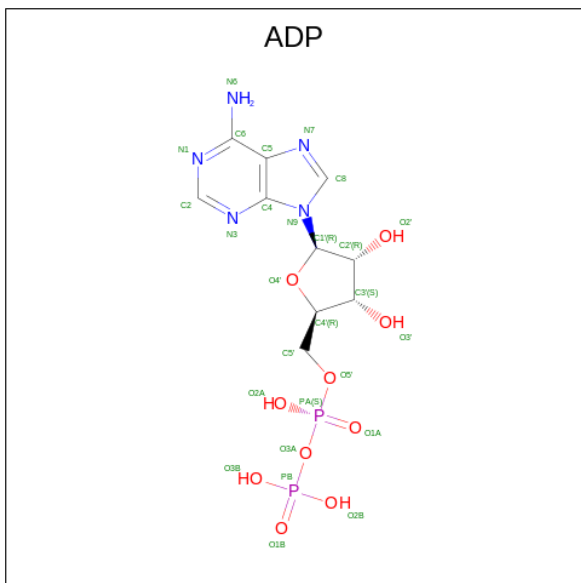


Mol	Chain	Residues	Atoms			AltConf
8	K	1	Total	Be	F	0
			4	1	3	

- Molecule 9 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
9	K	1	Total	Mg	0
			1	1	

- Molecule 10 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂) (labeled as "Ligand of Interest" by depositor).

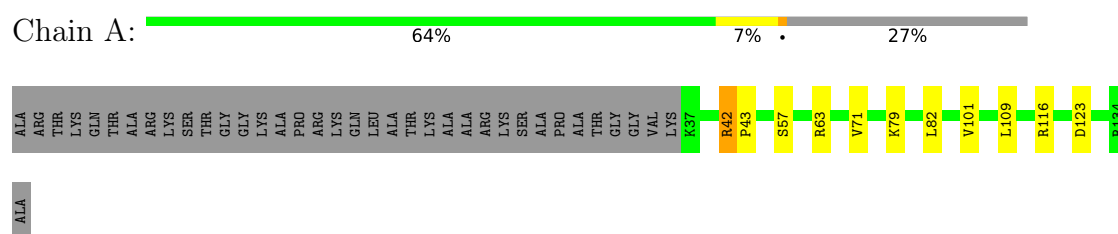


Mol	Chain	Residues	Atoms					AltConf
10	K	1	Total	C	N	O	P	0
			27	10	5	10	2	

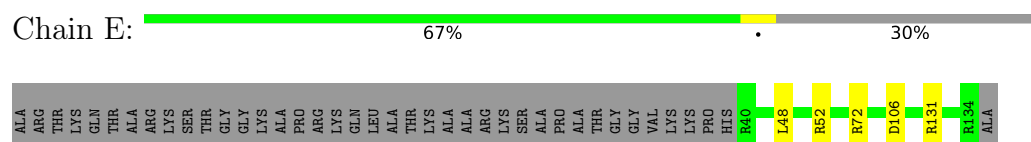
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

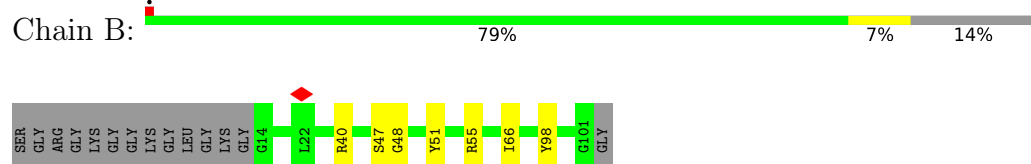
• Molecule 1: Histone H3



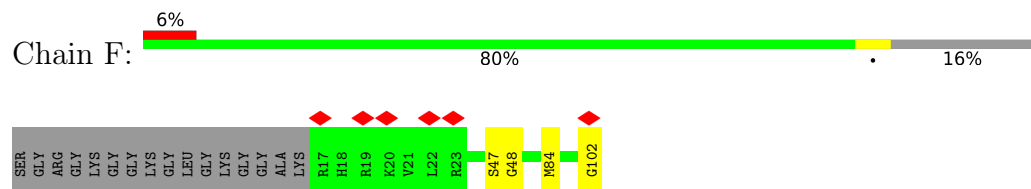
• Molecule 1: Histone H3



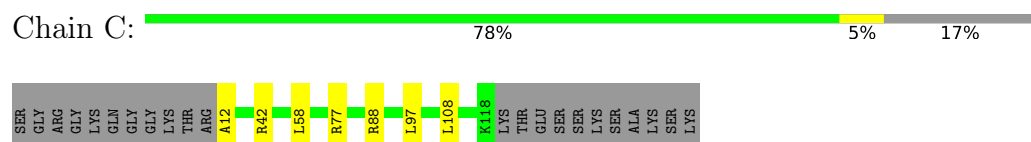
• Molecule 2: Histone H4



• Molecule 2: Histone H4



• Molecule 3: Histone H2A



L367	N368	F369	L370	L371	W384	S389	T390	E391	E392	D393	V398	L401	V404	L405	Q406	F407	F408	R412	I413	K414	S415	D416	V417	E418	T419	S420	L421	L422	P423	Y430	K443	D448	LEU	ASP	ALA	VAL	ASN	GLY	SER	ASN	GLY	SER	LYS	E460	L472	R473	K474	W477		
H478	F479	Y480	D483	P489	P490	Y491	T492	T493	D494	E495	H496	L497	V498	Y499	K503	L504	Q505	V506	L507	D508	V521	F524	S525	Q526	M527	S528	L531	D532	I533	Y537	C538	Y539	F540	N542	R541	Y543	B547	I548	D549	G550	E555	I558	L575	L576	T577	T578	G584			
T588	S589	A590	D591	V592	V593	V594	S598	N601	P602	D605	M609	Q617	F624	R625	L626	D629	V632	E633	E634	E638	K643	L649	V650	I651	N654	R655	T656	S657	LEU	LYS	LYS	LYS	LYS	GLU	ASN	GLY	LYS	ALA	LYS	ALA	SER	LYS	ASP	ALA	LEU	LEU	ASP	ASP	LEU	ILE
GLN	HIS	ALA	ALA	ASP	VAL	PHE	LYS	GLY	THR	THR	GLY	THR	PRO	GLU	GLY	GLY	LYS	GLY	GLY	PRO	LYS	ASP	ASP	ILE	ASP	LEU	GLU	ARG	LEU	LYS	LEU	LYS	ASN	TYR	THR	LYS	SER	THR	GLY	GLY	ASP	ASP	GLN	HIS						
LYS	PHE	ASN	GLN	ASP	SER	ALA	TYR	TRP	ASN	GLY	GLN	ASP	PHE	LYS	LYS	ALA	ILE	GLN	ARG	LEU	LEU	ASN	PRO	THR	LYS	ARG	GLY	THR	ASN	GLU	ASN	TYR	THR	ALA	TYR	LYS	LEU	ASP	VAL	LEU	ASN	THR	GLY	ARG	SER	THR	PRO	SER	HIS	
PRO	ARG	MET	PRO	LYS	PRO	HIS	VAL	PHE	HIS	SER	GLN	HIS	GLN	LEU	GLN	PRO	GLU	GLN	LEU	LYS	GLU	ARG	MET	TRP	THR	ALA	LYS	THR	LYS	THR	PRO	THR	THR	VAL	VAL	LYS	ALA	ALA	TYR	LYS	GLY	GLY	ASP	ILE	LYS	LEU	LEU			
GLU	LEU	LEU	LYS	LEU	SER	VAL	ASN	ASN	SER	PRO	PRO	LEU	THR	GLU	GLU	GLU	GLU	LYS	MET	LYS	GLY	PHE	THR	LYS	ASN	TRP	GLY	LEU	GLU	PHE	ARG	LYS	PHE	ILE	LYS	GLY	GLN	LYS	TYR	ILE	GLY	GLY	ARG	GLY	ALA					
PRO	GLY	THR	THR	GLU	GLU	VAL	ARG	ALA	TYR	ALA	ASN	LYS	ALA	THR	PHE	SER	ASN	ILE	GLU	ARG	LYS	TYR	LEU	LYS	ASN	GLY	GLU	GLY	GLU	GLY	LYS	ILE	LYS	VAL	VAL	ARG	GLY	GLN	GLN	GLY	ILE	GLY	ALA	GLY	ARG	LYS	ASN	PHE		
PHE	ASP	LEU	LYS	LYS	HIS	PRO	PRO	ARG	SER	ASN	ASN	LYS	ARG	THR	THR	TYR	SER	GLY	GLY	GLY	GLY	GLY	ASP	PHE	LYS	TYR	GLY	LEU	ASP	ARG	ASP	VAL	VAL	ARG	ASP	GLY	ILE	GLY	ILE	GLY	ILE	GLY	ARG	GLY	ARG	TYR	PHE	ARG		
SER	ARG	THR	PRO	VAL	GLU	LEU	ALA	ARG	GLY	ASN	THR	LEU	LEU	GLN	CYS	LEU	LEU	GLY	GLY	LYS	GLY	GLY	PHE	ASN	ALA	THR	LYS	ARG	MET	LYS	GLY	VAL	VAL	ARG	ASP	ARG	ILE	GLY	GLY	GLY	THR	GLN	PHE	GLY	ASN	GLY	ASN			
VAL	ASP	GLY	VAL	GLU	SER	LYS	LYS	ALA	ILE	GLY	THR	ASP	SER	ASN	VAL	GLY	THR	THR	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	62121	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.5	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	29000	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.293	Depositor
Minimum map value	-0.185	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.0253	Depositor
Map size (Å)	235.40001, 235.40001, 235.40001	wwPDB
Map dimensions	220, 220, 220	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	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: ADP, MG, BEF

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	0.48	0/813	0.72	0/1093
1	E	0.44	0/789	0.65	0/1059
2	B	0.53	0/715	0.71	0/955
2	F	0.49	0/680	0.67	0/912
3	C	0.45	0/821	0.63	0/1112
3	G	0.47	0/825	0.65	0/1116
4	D	0.46	0/729	0.62	0/985
4	H	0.47	0/737	0.67	0/993
5	I	0.36	0/3333	0.52	0/5137
6	J	0.38	0/3381	0.52	0/5221
7	K	0.31	0/3867	0.61	2/5224 (0.0%)
All	All	0.40	0/16690	0.59	2/23807 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	248	PHE	N-CA-C	6.24	118.81	111.02
7	K	275	ILE	N-CA-C	-5.04	98.85	109.34

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	A	801	0	831	15	0
1	E	779	0	815	3	0
2	B	707	0	760	5	0
2	F	672	0	698	2	0
3	C	811	0	849	7	0
3	G	815	0	860	2	0
4	D	718	0	725	5	0
4	H	726	0	747	3	0
5	I	2975	0	1639	14	0
6	J	3011	0	1639	20	0
7	K	3794	0	3839	102	0
8	K	4	0	0	3	0
9	K	1	0	0	0	0
10	K	27	0	12	0	0
All	All	15841	0	13414	158	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 5.

The worst 5 of 158 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)
7:K:489:PRO:HG2	7:K:492:THR:CG2	1.49	1.39
4:D:33:SER:O	4:D:34:TYR:CD1	1.84	1.29
4:D:33:SER:O	4:D:34:TYR:HD1	1.11	1.27
7:K:489:PRO:CG	7:K:492:THR:HG21	1.66	1.23
7:K:489:PRO:HG2	7:K:492:THR:HG22	1.25	1.10

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	A	96/135 (71%)	86 (90%)	9 (9%)	1 (1%)	12	45
1	E	93/135 (69%)	87 (94%)	6 (6%)	0	100	100
2	B	86/102 (84%)	78 (91%)	8 (9%)	0	100	100
2	F	84/102 (82%)	75 (89%)	9 (11%)	0	100	100
3	C	105/129 (81%)	102 (97%)	3 (3%)	0	100	100
3	G	105/129 (81%)	101 (96%)	4 (4%)	0	100	100
4	D	91/122 (75%)	86 (94%)	5 (6%)	0	100	100
4	H	91/122 (75%)	87 (96%)	4 (4%)	0	100	100
7	K	459/1061 (43%)	398 (87%)	55 (12%)	6 (1%)	9	40
All	All	1210/2037 (59%)	1100 (91%)	103 (8%)	7 (1%)	23	55

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
7	K	275	ILE
7	K	542	ASN
7	K	492	THR
7	K	493	THR
7	K	494	ASP

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	A	84/110 (76%)	84 (100%)	0	100	100
1	E	82/110 (74%)	82 (100%)	0	100	100
2	B	72/78 (92%)	72 (100%)	0	100	100
2	F	67/78 (86%)	67 (100%)	0	100	100
3	C	81/101 (80%)	81 (100%)	0	100	100
3	G	82/101 (81%)	82 (100%)	0	100	100
4	D	77/102 (76%)	77 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	H	79/102 (78%)	79 (100%)	0	100	100
7	K	421/958 (44%)	419 (100%)	2 (0%)	81	81
All	All	1045/1740 (60%)	1043 (100%)	2 (0%)	85	87

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
7	K	492	THR
7	K	540	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
7	K	230	GLN
7	K	394	GLN
7	K	617	GLN
7	K	526	GLN
1	E	85	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
10	ADP	K	1203	-	27,29,29	1.35	4 (14%)	42,45,45	1.95	10 (23%)
8	BEF	K	1201	-	0,3,3	-	-	-		

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
10	ADP	K	1203	-	-	0/16/32/32	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	K	1203	ADP	C5-C4	4.34	1.47	1.39
10	K	1203	ADP	C5-C6	2.53	1.48	1.41
10	K	1203	ADP	C5-N7	-2.51	1.34	1.39
10	K	1203	ADP	C8-N7	2.32	1.36	1.31

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	K	1203	ADP	C5-C4-N3	-6.28	118.56	126.75
10	K	1203	ADP	N3-C4-N9	4.89	135.14	127.08
10	K	1203	ADP	C2-N3-C4	4.08	121.38	111.75
10	K	1203	ADP	PA-O3A-PB	-3.61	120.44	132.83
10	K	1203	ADP	N3-C2-N1	-3.41	123.28	128.60

There are no chirality outliers.

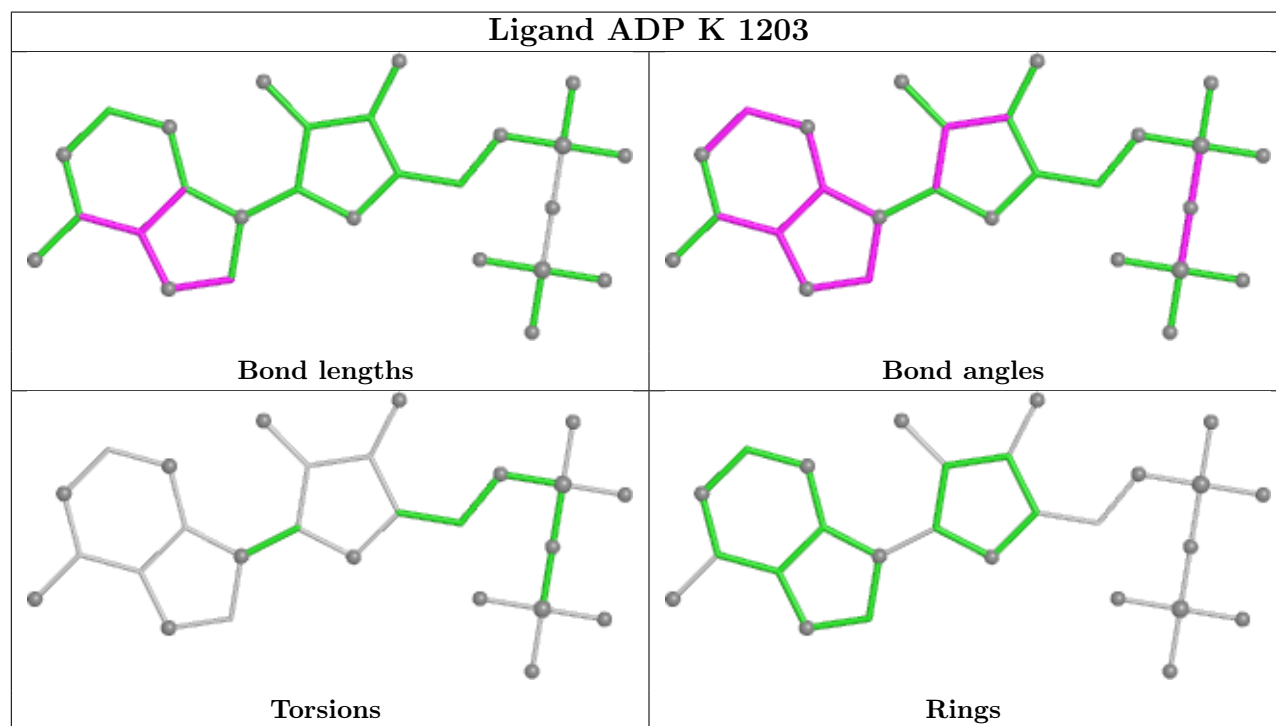
There are no torsion outliers.

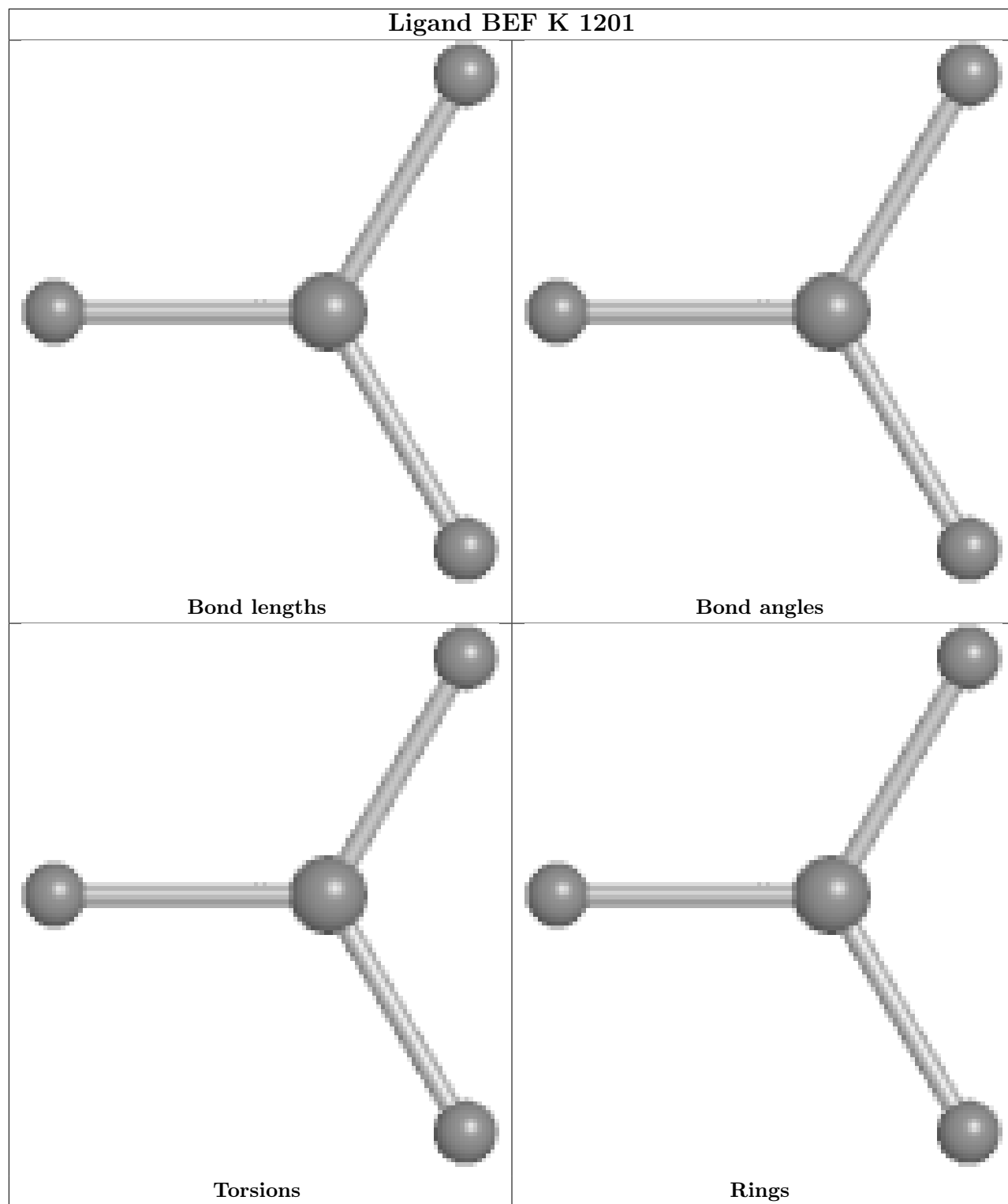
There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	K	1201	BEF	3	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 ⓘ

There are no chain breaks in this entry.

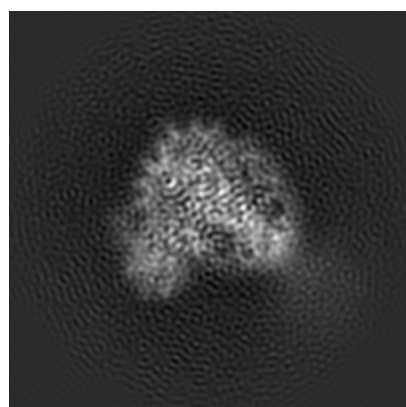
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9719. These allow visual inspection of the internal detail of the map and identification of artifacts.

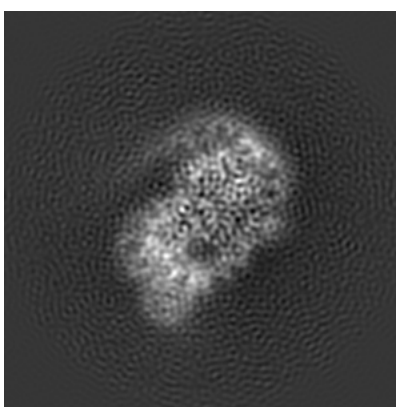
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

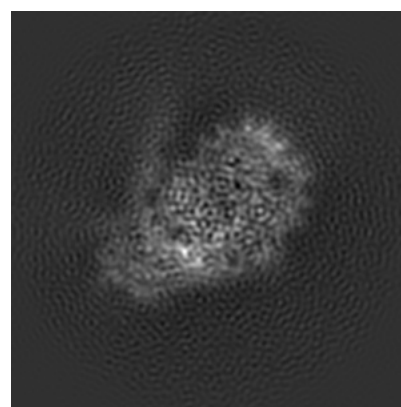
6.1.1 Primary map



X



Y

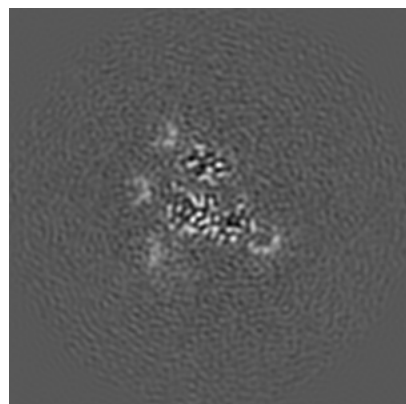


Z

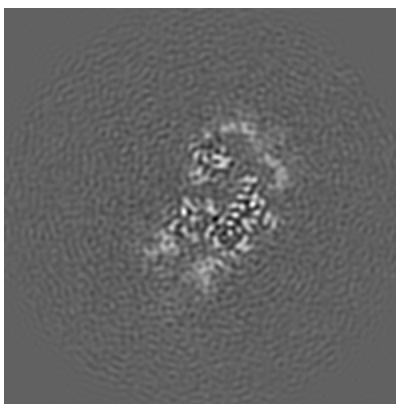
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

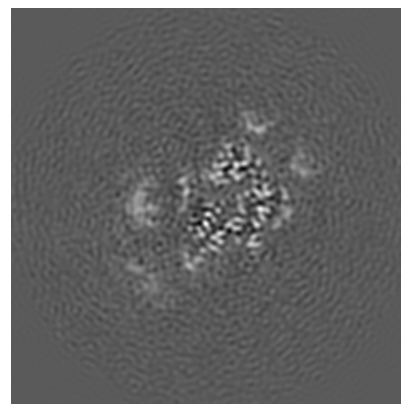
6.2.1 Primary map



X Index: 110



Y Index: 110

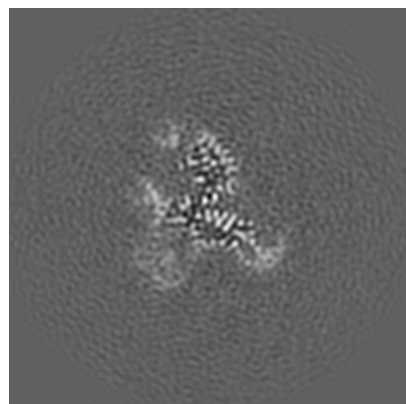


Z Index: 110

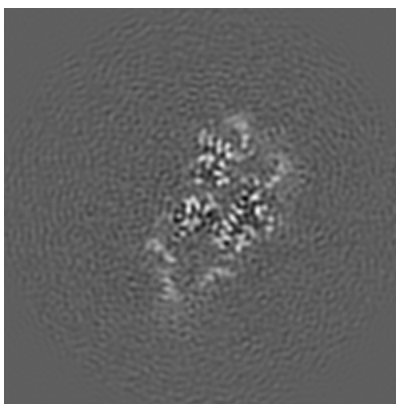
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

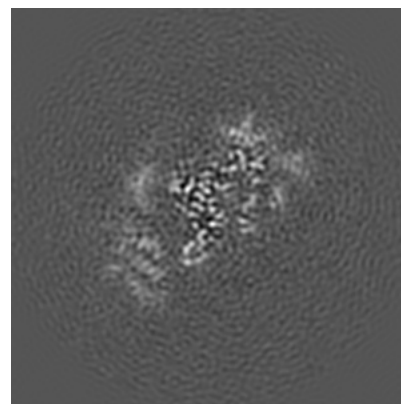
6.3.1 Primary map



X Index: 104



Y Index: 105

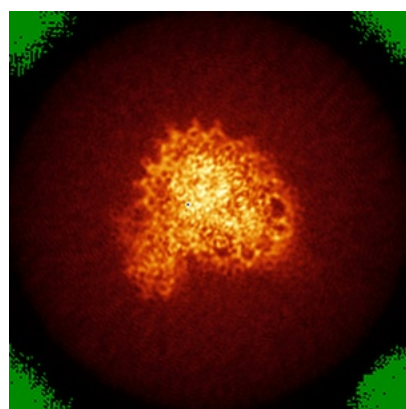


Z Index: 103

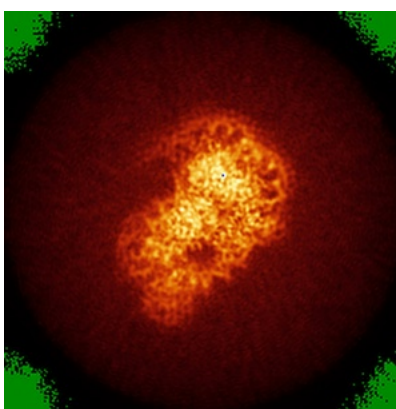
The images above show the largest variance slices of the map in three orthogonal directions.

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

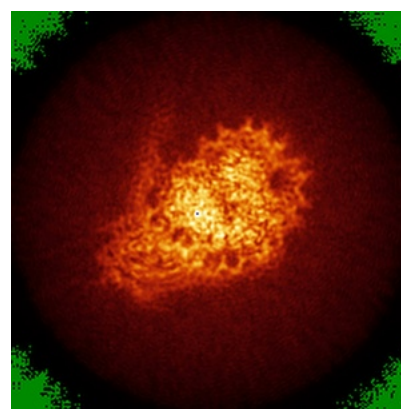
6.4.1 Primary map



X



Y

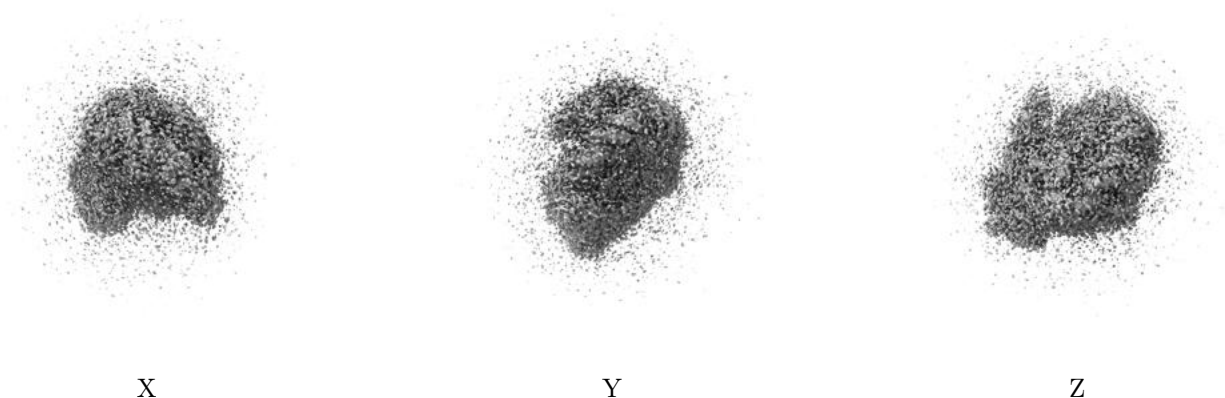


Z

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 0.0253. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

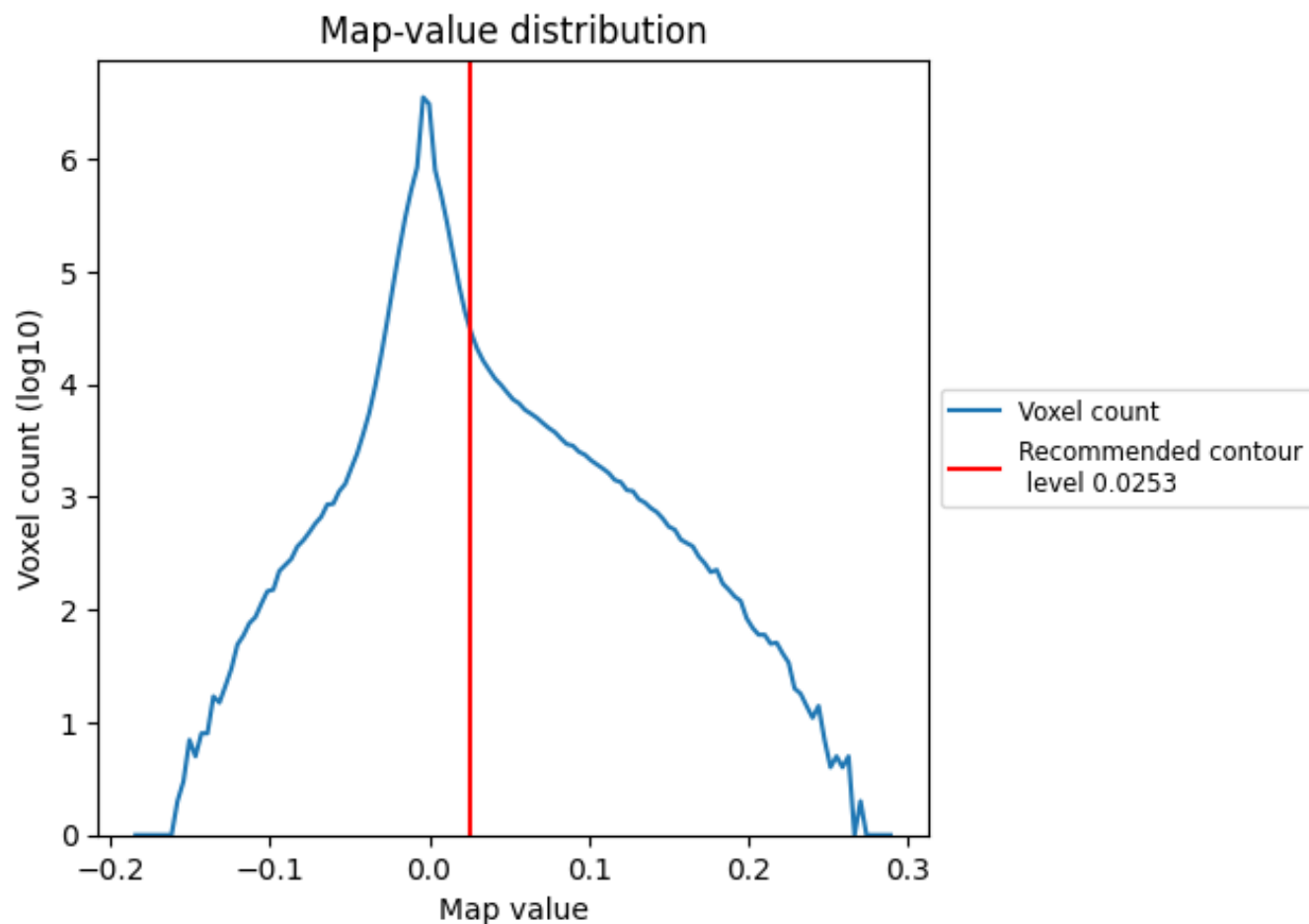
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

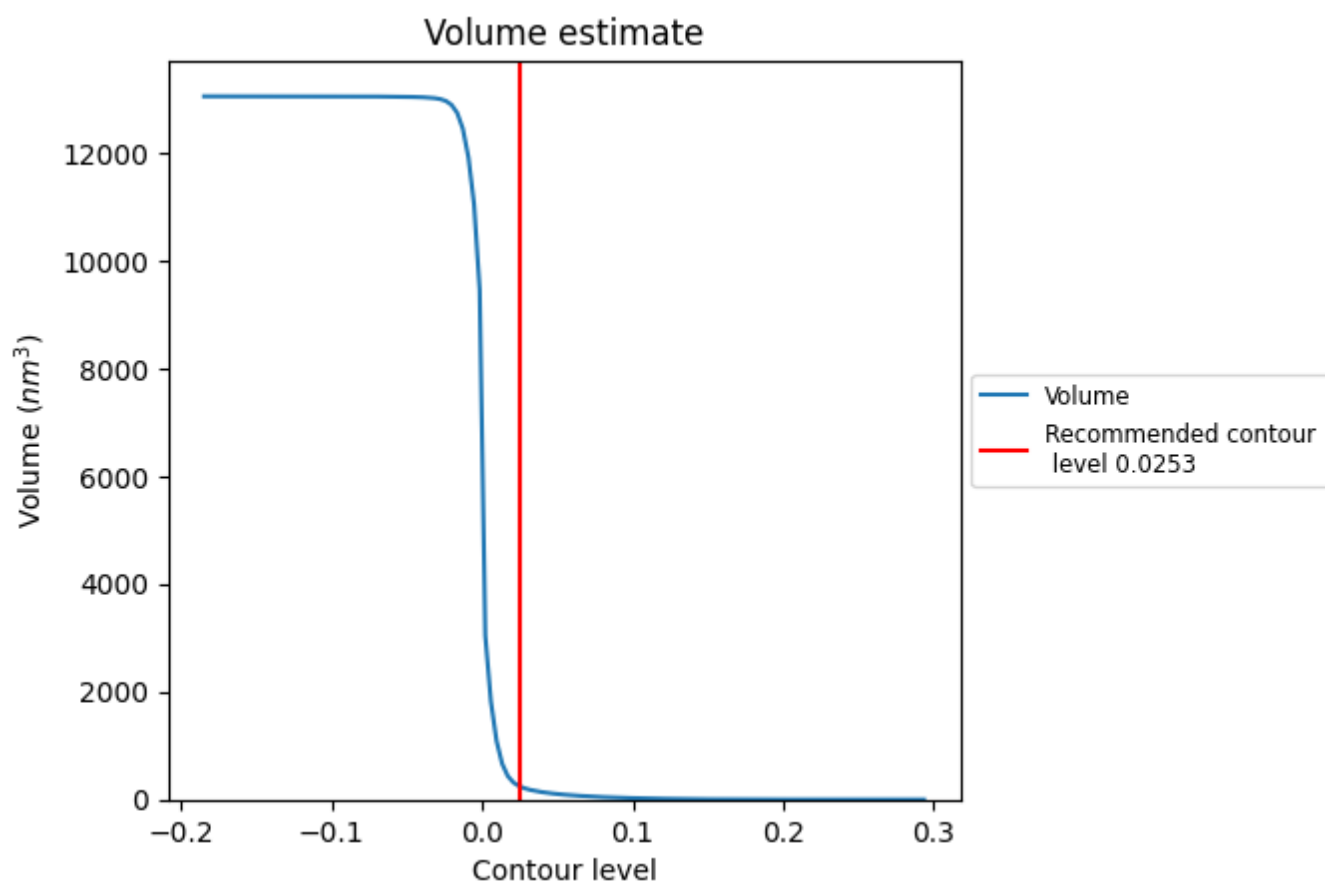
This section contains the results of statistical analysis of the map.

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.

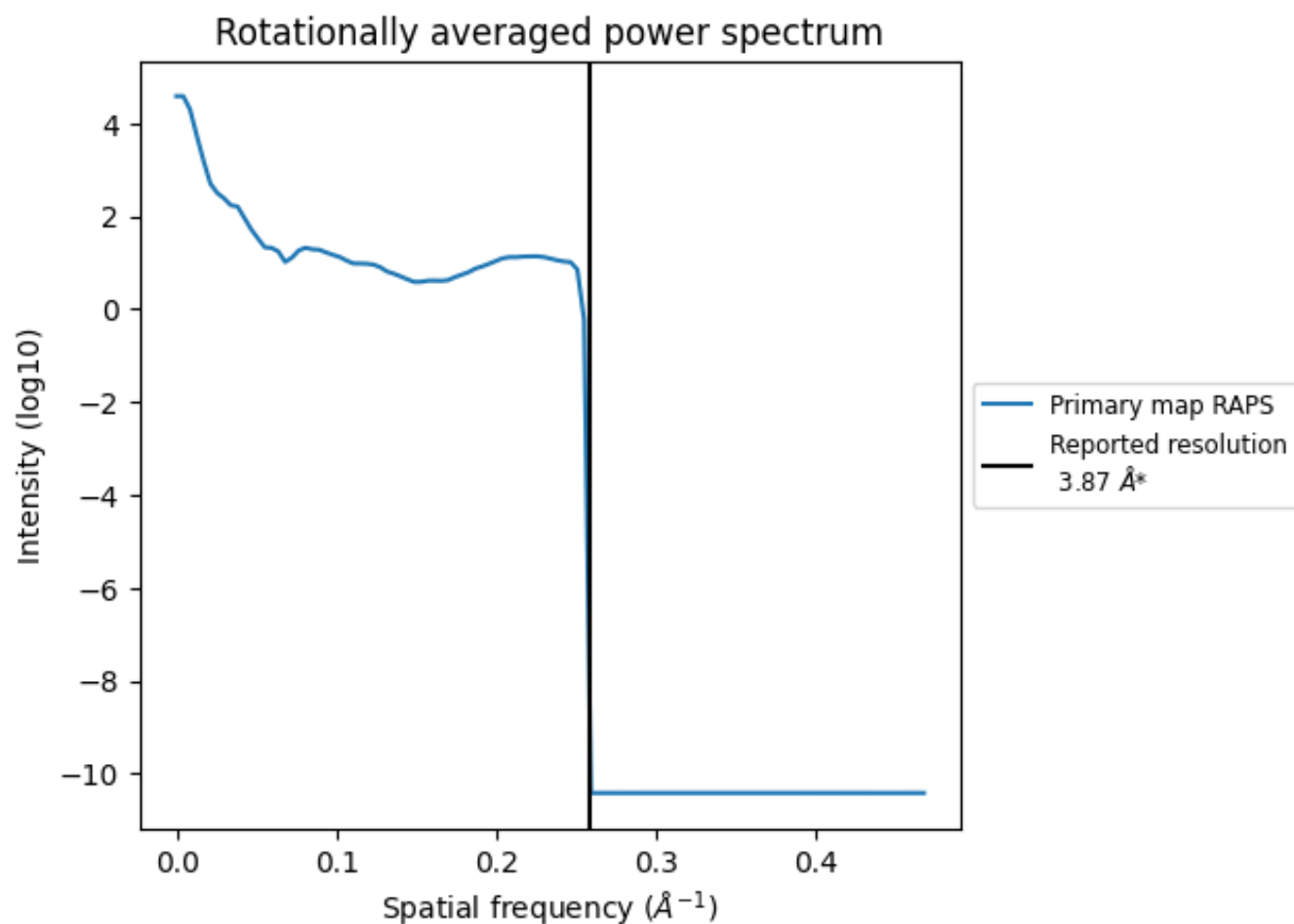
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 242 nm³; this corresponds to an approximate mass of 219 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 0.258 Å⁻¹

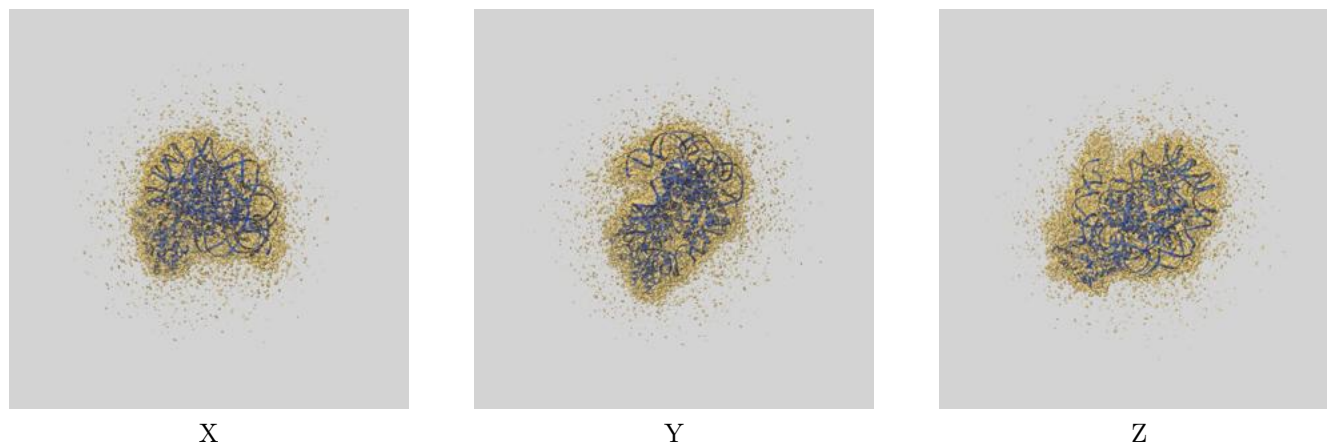
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

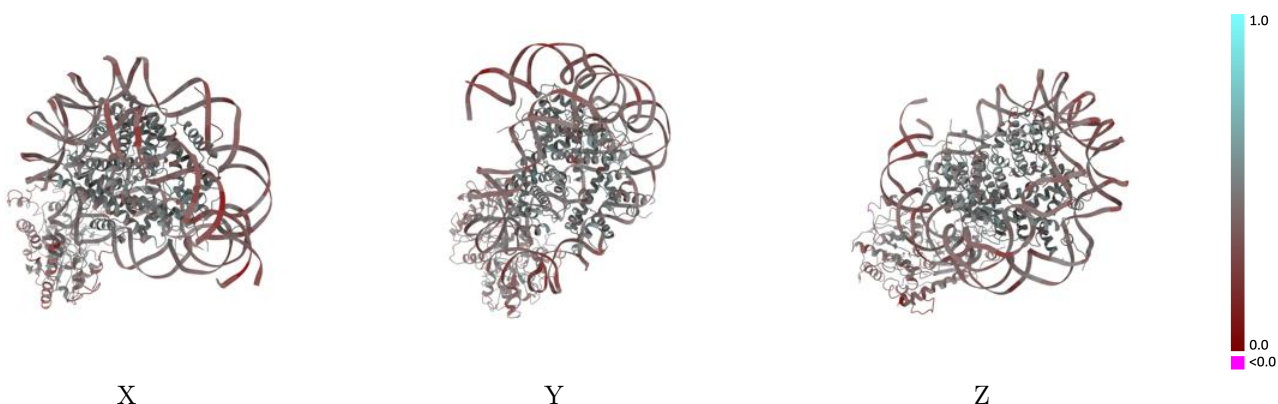
This section contains information regarding the fit between EMDB map EMD-9719 and PDB model 6K1P. Per-residue inclusion information can be found in [section 3](#) on [page 7](#).

9.1 Map-model overlay [i](#)



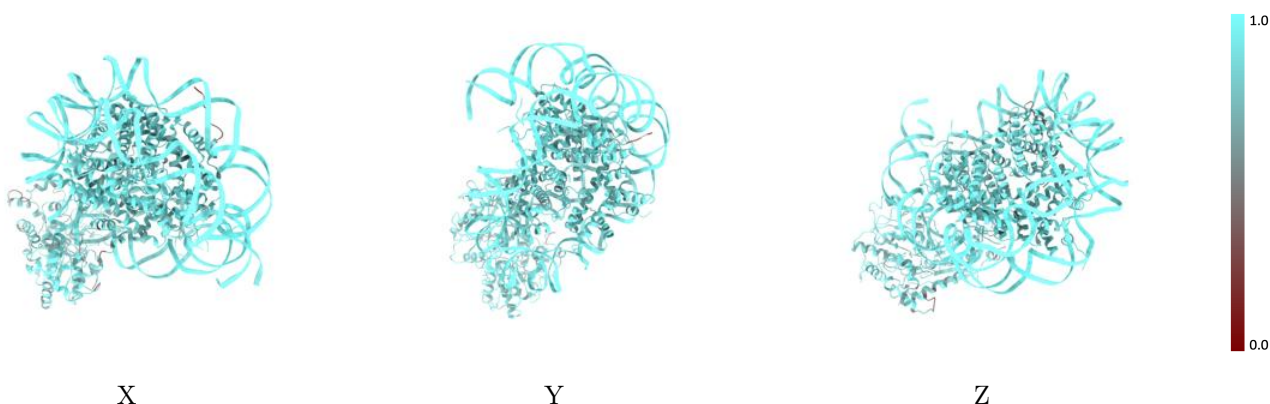
The images above show the 3D surface view of the map at the recommended contour level 0.0253 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



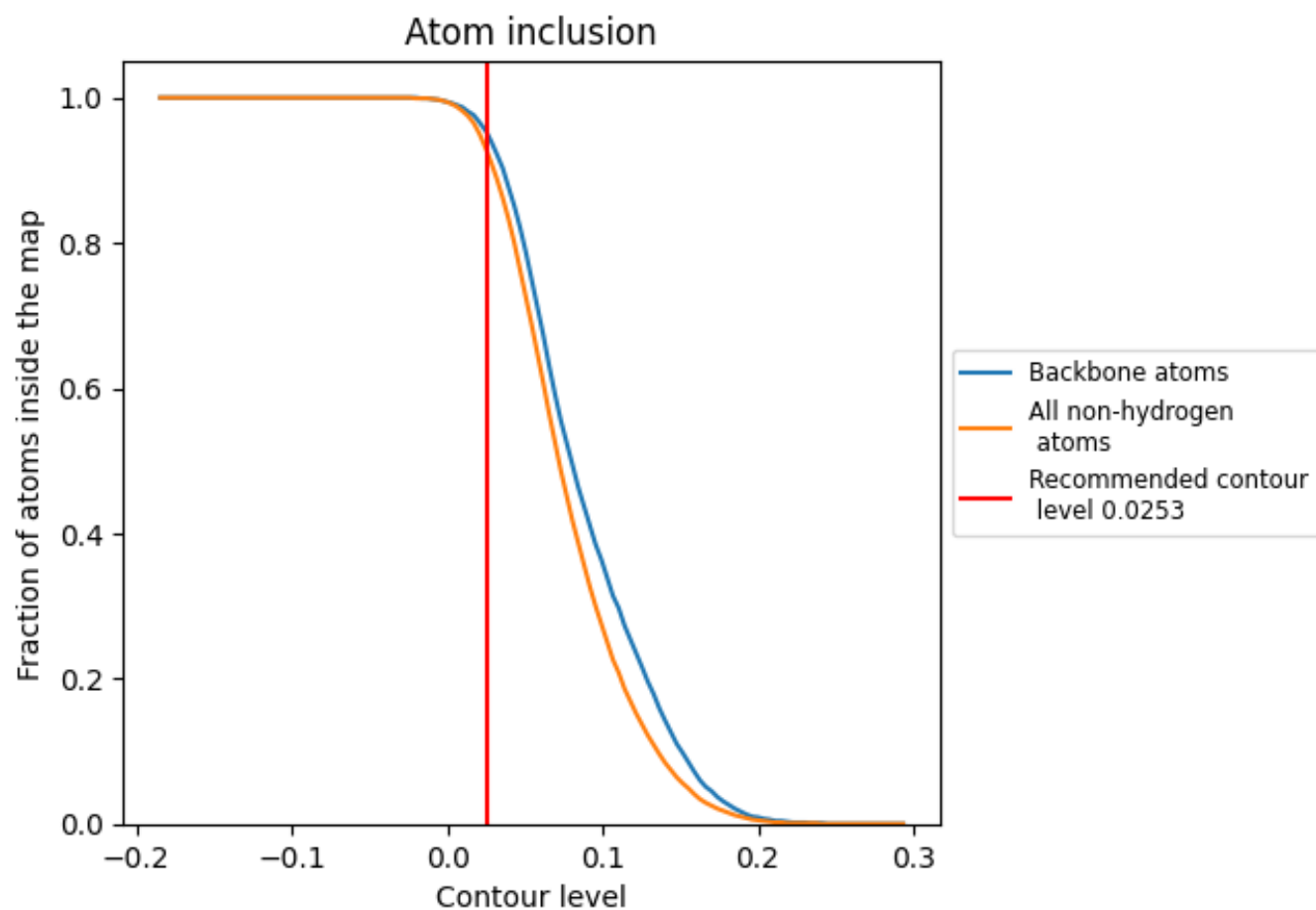
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0253).

9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 93% 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 (0.0253) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9280	0.4200
A	0.9110	0.4900
B	0.8980	0.4830
C	0.9240	0.4890
D	0.9270	0.4800
E	0.9210	0.4840
F	0.8810	0.4720
G	0.9350	0.4940
H	0.9200	0.4750
I	0.9770	0.3670
J	0.9730	0.3730
K	0.8720	0.3990

1.0

0.0

<0.0