



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 08:04 am GMT

PDB ID : 6HN4
EMDB ID : EMD-0246
Title : Leucine-zippered human insulin receptor ectodomain with single bound insulin - "lower" membrane-proximal part
Authors : Weis, F.; Menting, J.G.; Margetts, M.B.; Chan, S.J.; Xu, Y.; Tennagels, N.; Wohlfart, P.; Langer, T.; Mueller, C.W.; Dreyer, M.K.; Lawrence, M.C.
Deposited on : 2018-09-14
Resolution : 4.20 Å (reported)
Based on initial model : 4ZXB

This is a Full wwPDB EM Validation 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.dev43
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

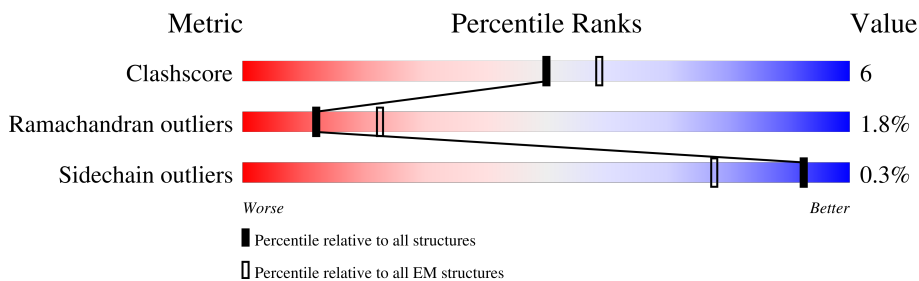
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.20 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	E	930	
1	F	930	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 5702 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 Insulin receptor,Insulin receptor,General control protein GCN4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	E	202	1629	1031	284	307	7	0	0
1	F	498	3989	2516	691	741	41	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	144	HIS	TYR	variant	UNP P06213
E	421	THR	ILE	variant	UNP P06213
E	465	LYS	GLN	variant	UNP P06213
E	731	ALA	VAL	engineered mutation	UNP P06213
E	732	GLY	THR	engineered mutation	UNP P06213
E	733	ASN	VAL	engineered mutation	UNP P06213
E	734	ASN	ALA	engineered mutation	UNP P06213
F	144	HIS	TYR	variant	UNP P06213
F	421	THR	ILE	variant	UNP P06213
F	465	LYS	GLN	variant	UNP P06213
F	731	ALA	VAL	engineered mutation	UNP P06213
F	732	GLY	THR	engineered mutation	UNP P06213
F	733	ASN	VAL	engineered mutation	UNP P06213
F	734	ASN	ALA	engineered mutation	UNP P06213

- Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).

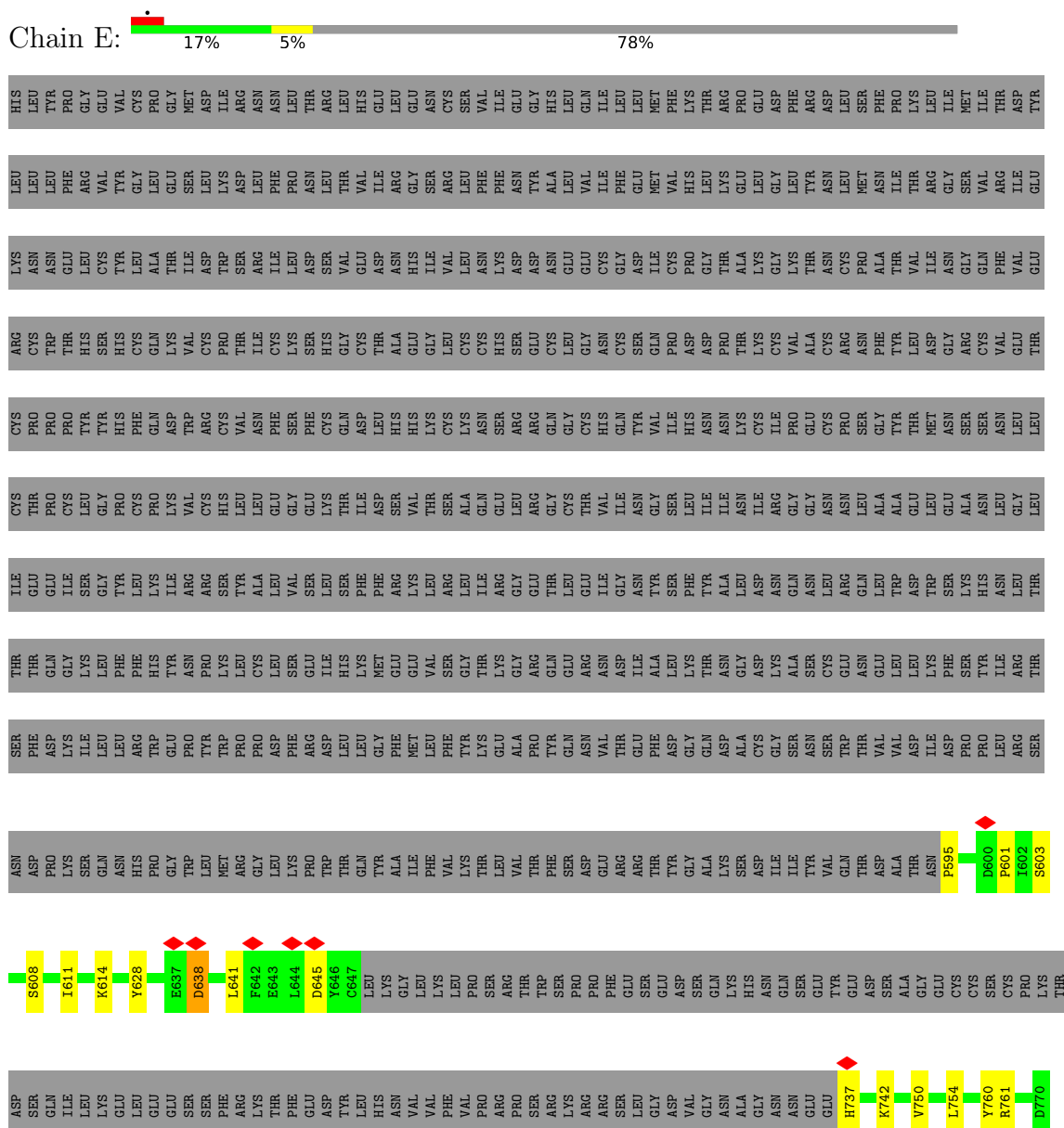


Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
2	F	1	Total	C	N	O	0
			84	48	6	30	
2	F	1	Total	C	N	O	0
			84	48	6	30	
2	F	1	Total	C	N	O	0
			84	48	6	30	
2	F	1	Total	C	N	O	0
			84	48	6	30	
2	F	1	Total	C	N	O	0
			84	48	6	30	

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 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: Insulin receptor,Insulin receptor,General control protein GCN4



GLU
VAL
ALA
ARG
LEU
LYS
LYS
LEU
VAL
GLY
GLU
ARG

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	98481	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 ($e^-/\text{\AA}^2$)	1.85	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.101	Depositor
Minimum map value	-0.055	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.03	Depositor
Map size (Å)	299.52, 299.52, 299.52	wwPDB
Map dimensions	288, 288, 288	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.04, 1.04, 1.04	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: NAG

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	E	0.36	0/1671	0.78	3/2269 (0.1%)
1	F	0.37	0/4090	0.77	4/5552 (0.1%)
All	All	0.36	0/5761	0.77	7/7821 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	737	HIS	C-N-CA	9.88	146.40	121.70
1	E	737	HIS	C-N-CA	9.22	144.75	121.70
1	E	841	CYS	CA-CB-SG	5.96	124.73	114.00
1	F	770	ASP	CB-CG-OD1	5.69	123.42	118.30
1	E	645	ASP	CB-CG-OD1	5.43	123.19	118.30
1	F	645	ASP	CB-CG-OD1	5.34	123.10	118.30
1	F	773	GLU	CA-CB-CG	5.13	124.68	113.40

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	E	1629	0	1565	20	0
1	F	3989	0	3816	48	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	84	0	78	2	0
All	All	5702	0	5459	67	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 6.

All (67) 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:E:781:TYR:HH	1:F:67:TYR:HH	1.33	0.75
1:F:770:ASP:HA	1:F:774:GLU:HG2	1.75	0.67
1:F:853:CYS:SG	1:F:854:ARG:N	2.71	0.63
1:E:853:CYS:SG	1:E:854:ARG:N	2.73	0.61
1:E:789:GLU:HB2	1:E:792:ALA:HB2	1.87	0.56
1:F:803:ILE:HG12	1:F:809:VAL:HG22	1.87	0.56
1:F:132:ASP:OD2	1:F:135:ARG:NH1	2.40	0.54
1:F:608:SER:HA	1:F:787:MET:HB2	1.89	0.54
1:E:817:LYS:NZ	1:E:818:GLU:OE2	2.41	0.54
1:F:233:LEU:HD13	1:F:253:CYS:HB2	1.90	0.53
1:F:607:SER:HB2	2:F:1004:NAG:H82	1.91	0.52
1:E:860:PRO:HA	1:E:886:VAL:HG23	1.92	0.52
1:F:56:MET:HG3	1:F:81:VAL:HB	1.92	0.52
1:E:608:SER:HA	1:E:787:MET:HB2	1.91	0.52
1:F:641:LEU:HD23	1:F:822:LEU:HD21	1.93	0.51
1:E:603:SER:HB2	1:E:784:ALA:HB2	1.91	0.51
1:E:868:ARG:HD2	1:E:875:ASN:HB3	1.91	0.51
1:F:817:LYS:NZ	1:F:818:GLU:OE2	2.44	0.51
1:F:111:ASN:HD22	1:F:213:LEU:HD11	1.76	0.50
1:F:611:ILE:O	1:F:750:VAL:HA	2.11	0.49
1:F:631:PHE:HB2	1:F:763:GLU:HB3	1.94	0.49
1:F:789:GLU:HB2	1:F:792:ALA:HB2	1.94	0.49
1:F:34:GLN:HG2	1:F:36:LEU:HD22	1.93	0.49
1:F:70:GLU:HA	1:F:101:LEU:HA	1.95	0.49
1:F:860:PRO:HA	1:F:886:VAL:HG23	1.95	0.48
1:F:808:VAL:HG22	1:F:856:ARG:HA	1.95	0.48
1:F:828:VAL:HB	1:F:840:LEU:HB3	1.95	0.48
1:F:771:THR:HB	1:F:772:PRO:HD3	1.95	0.48
1:E:808:VAL:HG22	1:E:856:ARG:HA	1.96	0.48
1:F:209:HIS:CD2	1:F:211:GLU:H	2.33	0.47
1:F:604:VAL:HB	1:F:612:ILE:HG13	1.97	0.47
1:F:642:PHE:HE1	1:F:822:LEU:HD22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:611:ILE:O	1:E:750:VAL:HA	2.15	0.46
1:F:626:THR:H	1:F:768:ASN:HA	1.80	0.46
1:F:34:GLN:HG3	1:F:62:LEU:HD22	1.97	0.46
1:E:638:ASP:HB2	1:E:641:LEU:HD22	1.98	0.45
1:F:601:PRO:HA	1:F:614:LYS:O	2.17	0.45
1:F:610:GLN:NE2	1:F:752:SER:OG	2.34	0.45
1:F:875:ASN:N	1:F:875:ASN:OD1	2.49	0.45
1:F:829:SER:OG	1:F:866:ARG:O	2.32	0.45
1:F:865:VAL:O	1:F:881:PRO:HA	2.17	0.45
1:F:766:ALA:H	1:F:777:SER:HB3	1.82	0.44
1:F:817:LYS:HG3	1:F:818:GLU:HG2	1.99	0.44
1:F:65:ARG:NE	1:F:97:GLU:OE1	2.41	0.44
1:F:877:SER:HA	2:F:1005:NAG:H82	1.99	0.44
1:E:803:ILE:HG12	1:E:809:VAL:HG22	1.98	0.44
1:F:120:GLU:HG2	1:F:121:LYS:HG3	2.00	0.44
1:F:868:ARG:HD2	1:F:875:ASN:HB2	1.99	0.44
1:E:601:PRO:HA	1:E:614:LYS:O	2.18	0.43
1:E:754:LEU:HB3	1:E:760:TYR:HE2	1.84	0.43
1:F:795:ILE:HA	1:F:816:PRO:HG3	2.00	0.43
1:F:194:THR:O	1:F:197:LYS:HG3	2.19	0.43
1:E:641:LEU:HB3	1:E:822:LEU:HD21	2.00	0.43
1:F:209:HIS:HD2	1:F:211:GLU:HB2	1.84	0.43
1:E:829:SER:OG	1:E:866:ARG:O	2.34	0.42
1:F:763:GLU:HG3	1:F:779:ALA:HB1	2.02	0.42
1:F:247:HIS:HB2	1:F:283:LYS:HG2	2.02	0.42
1:F:277:TYR:CD1	1:F:286:PRO:HA	2.55	0.42
1:F:603:SER:HB2	1:F:784:ALA:HB2	2.02	0.42
1:F:20:LEU:HD23	1:F:49:LEU:HD21	2.02	0.41
1:E:628:TYR:O	1:E:742:LYS:HA	2.20	0.41
1:F:868:ARG:HB2	1:F:878:TRP:CE3	2.56	0.41
1:F:613:LEU:O	1:F:748:SER:HA	2.19	0.41
1:F:855:LEU:HB3	1:F:858:LEU:HD11	2.03	0.41
1:E:595:PRO:HG2	1:E:777:SER:HB2	2.03	0.41
1:E:641:LEU:HD23	1:E:872:LEU:HD11	2.04	0.40
1:E:802:GLU:HG3	1:E:812:MET:HE1	2.03	0.40

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	E	196/930 (21%)	179 (91%)	14 (7%)	3 (2%)	10	46
1	F	488/930 (52%)	446 (91%)	33 (7%)	9 (2%)	8	42
All	All	684/1860 (37%)	625 (91%)	47 (7%)	12 (2%)	12	42

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	153	GLU
1	F	771	THR
1	F	197	LYS
1	F	636	ALA
1	E	638	ASP
1	E	877	SER
1	F	100	HIS
1	F	877	SER
1	F	275	HIS
1	F	638	ASP
1	F	819	PRO
1	E	819	PRO

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 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	E	181/843 (22%)	180 (99%)	1 (1%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	457/843 (54%)	456 (100%)	1 (0%)	93	96
All	All	638/1686 (38%)	636 (100%)	2 (0%)	92	95

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

Mol	Chain	Res	Type
1	E	761	ARG
1	F	761	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	610	GLN
1	F	15	ASN
1	F	209	HIS
1	F	610	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands 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	$\# Z > 2$
2	NAG	F	1006	1	14,14,15	0.44	0	17,19,21	0.55	0
2	NAG	F	1002	1	14,14,15	0.27	0	17,19,21	0.52	0
2	NAG	F	1001	1	14,14,15	0.30	0	17,19,21	0.50	0
2	NAG	F	1005	1	14,14,15	0.44	0	17,19,21	0.49	0
2	NAG	F	1003	1	14,14,15	0.42	0	17,19,21	0.55	0
2	NAG	F	1004	1	14,14,15	0.37	0	17,19,21	0.60	1 (5%)

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
2	NAG	F	1006	1	-	2/6/23/26	0/1/1/1
2	NAG	F	1002	1	-	2/6/23/26	0/1/1/1
2	NAG	F	1001	1	-	2/6/23/26	0/1/1/1
2	NAG	F	1005	1	-	1/6/23/26	0/1/1/1
2	NAG	F	1003	1	-	4/6/23/26	0/1/1/1
2	NAG	F	1004	1	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	F	1004	NAG	C1-O5-C5	2.06	114.98	112.19

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	F	1003	NAG	C4-C5-C6-O6
2	F	1001	NAG	C4-C5-C6-O6
2	F	1002	NAG	C4-C5-C6-O6
2	F	1003	NAG	O5-C5-C6-O6
2	F	1006	NAG	O5-C5-C6-O6
2	F	1002	NAG	O5-C5-C6-O6
2	F	1006	NAG	C4-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	F	1003	NAG	C8-C7-N2-C2
2	F	1003	NAG	O7-C7-N2-C2
2	F	1001	NAG	O5-C5-C6-O6
2	F	1005	NAG	O5-C5-C6-O6
2	F	1004	NAG	C4-C5-C6-O6
2	F	1004	NAG	O5-C5-C6-O6

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	1005	NAG	1	0
2	F	1004	NAG	1	0

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.

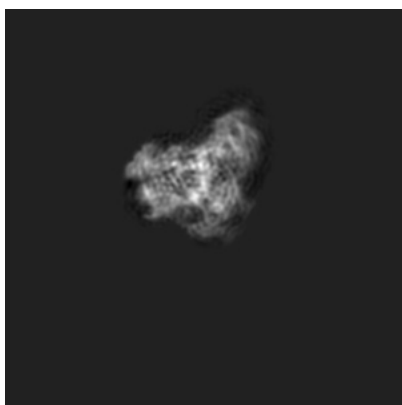
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0246. These allow visual inspection of the internal detail of the map and identification of artifacts.

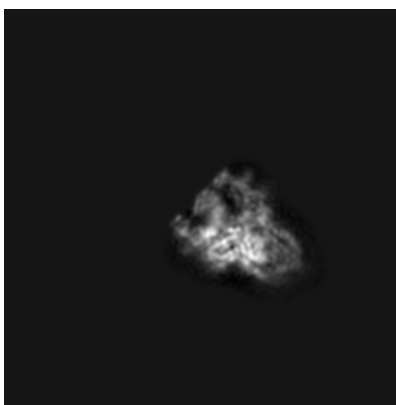
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

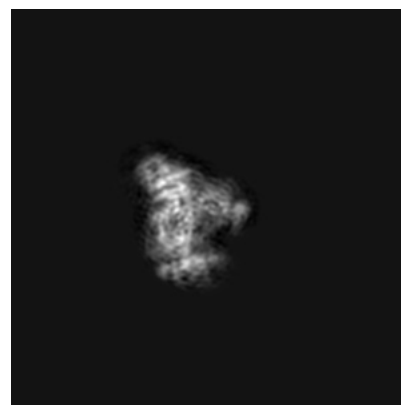
6.1.1 Primary map



X



Y

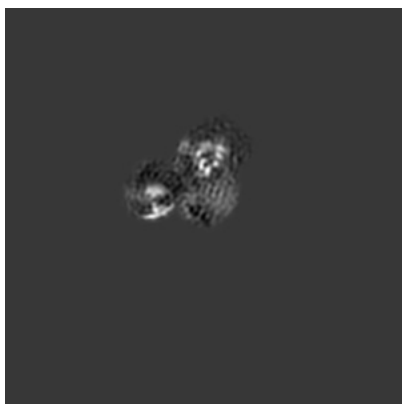


Z

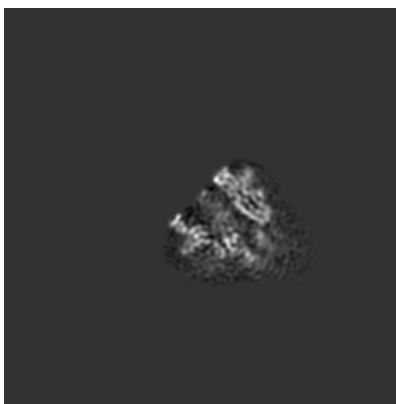
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

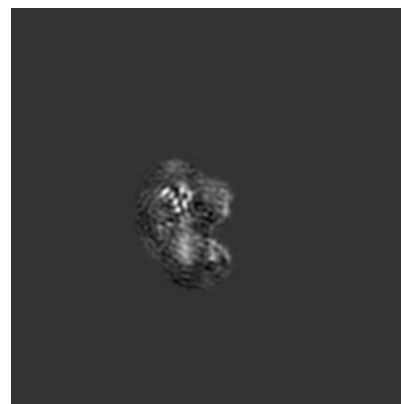
6.2.1 Primary map



X Index: 144



Y Index: 144

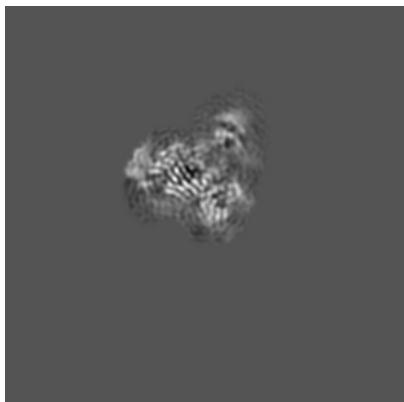


Z Index: 144

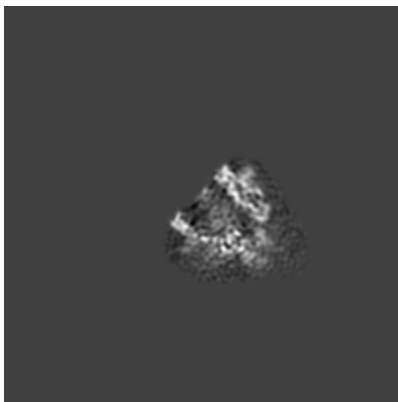
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

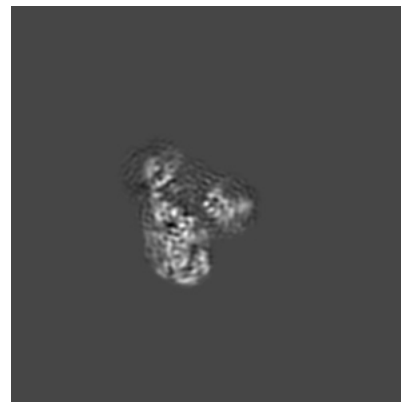
6.3.1 Primary map



X Index: 119



Y Index: 142

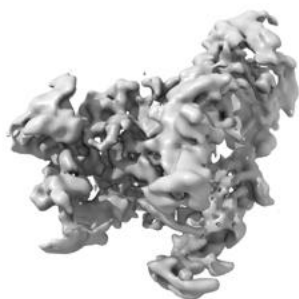


Z Index: 175

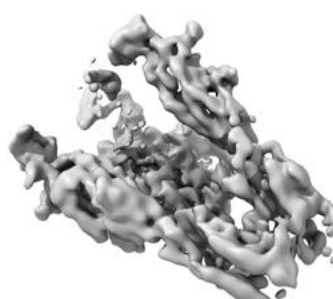
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

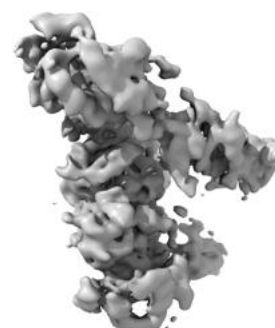
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

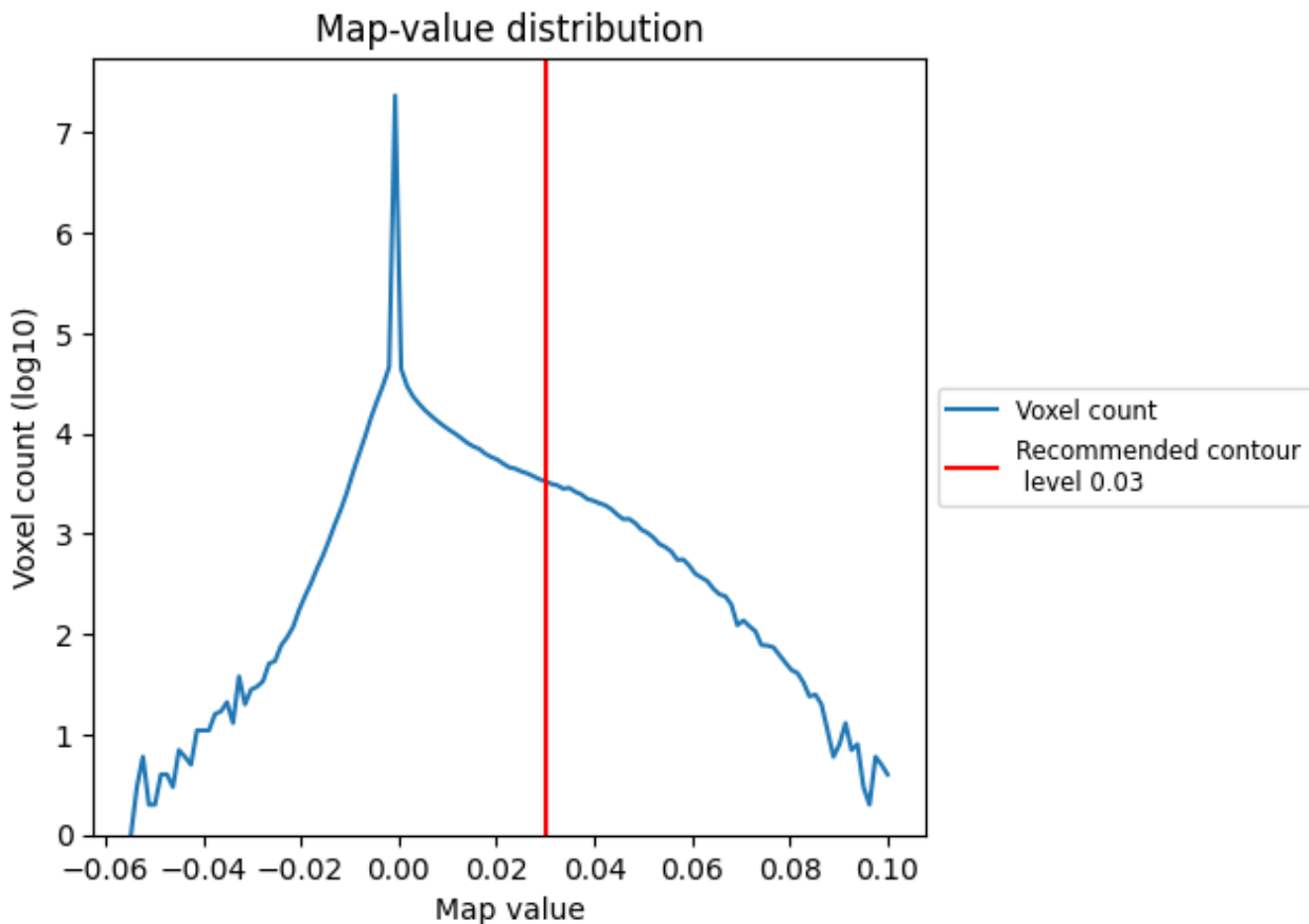
6.5 Mask visualisation

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

7 Map analysis [i](#)

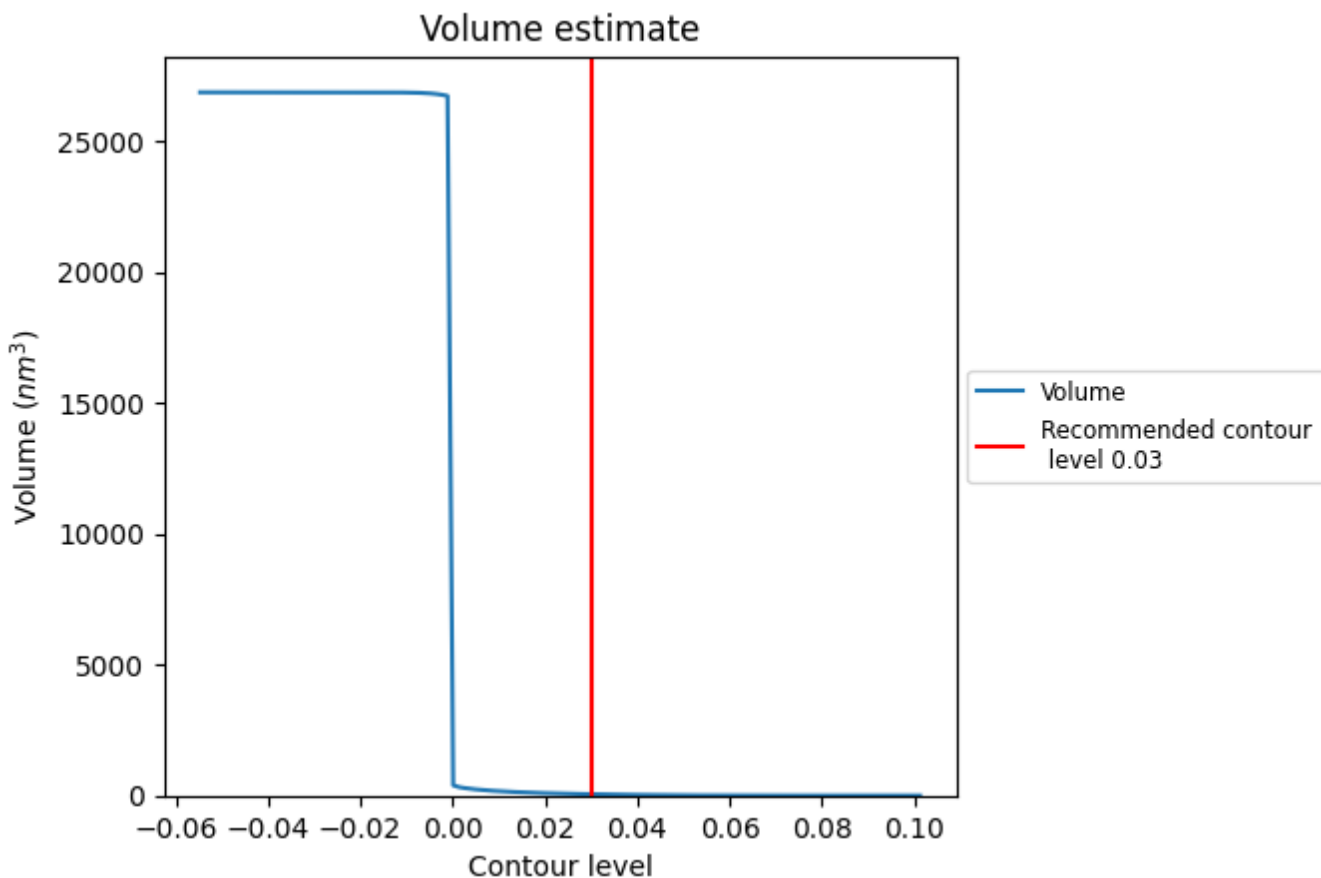
This section contains the results of statistical analysis of the map.

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.

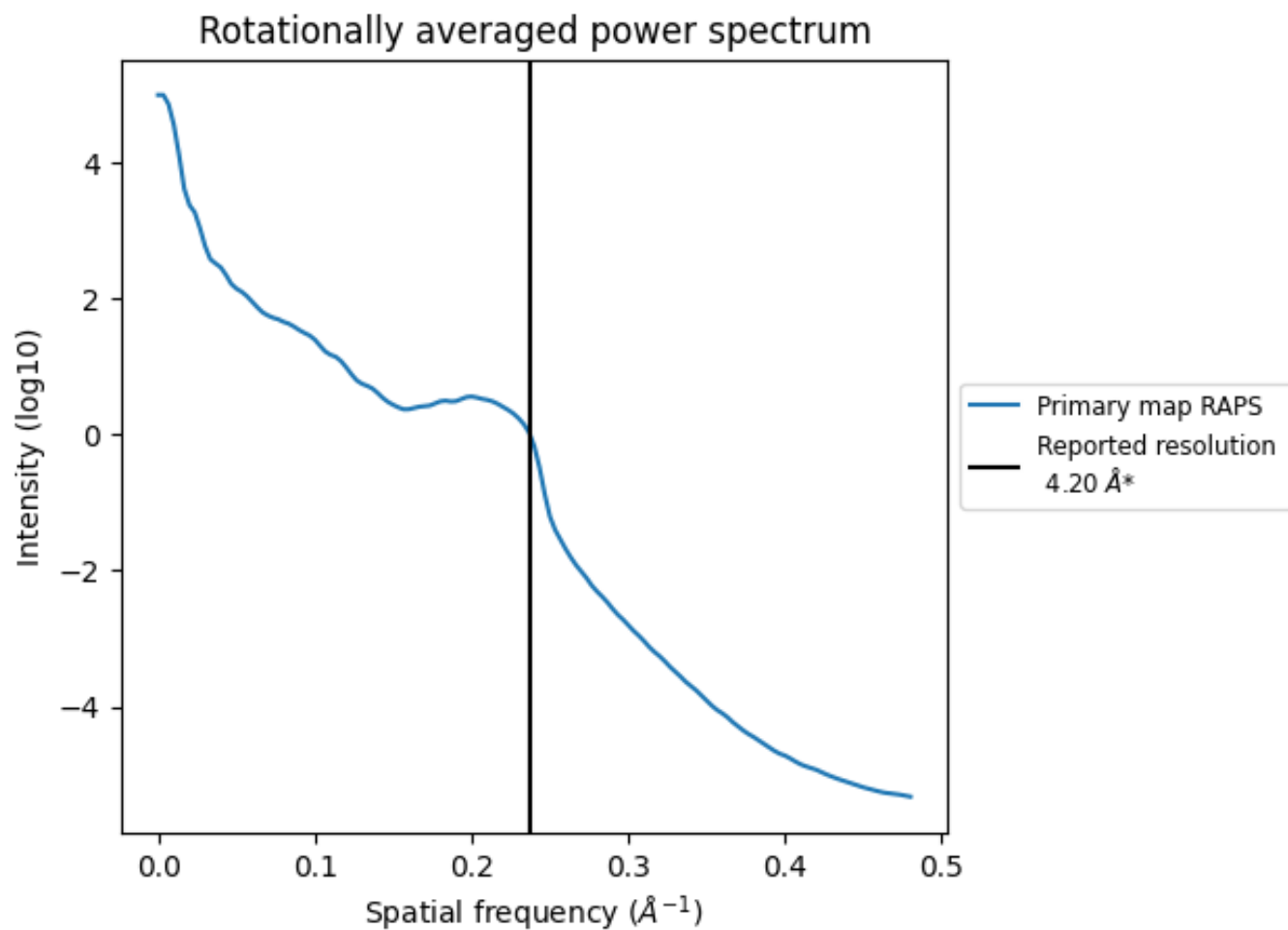
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 52 nm³; this corresponds to an approximate mass of 47 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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.238\AA^{-1}

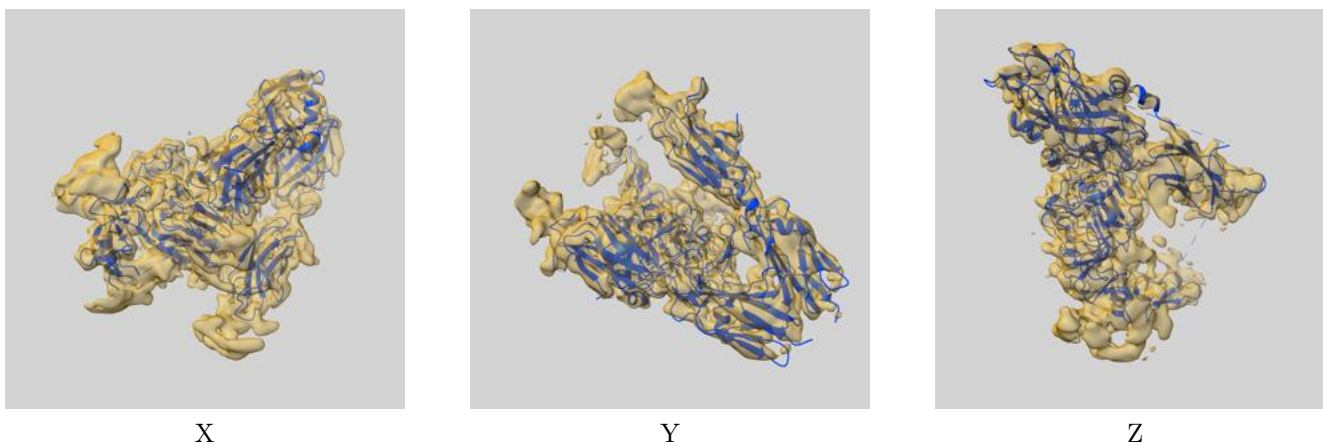
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

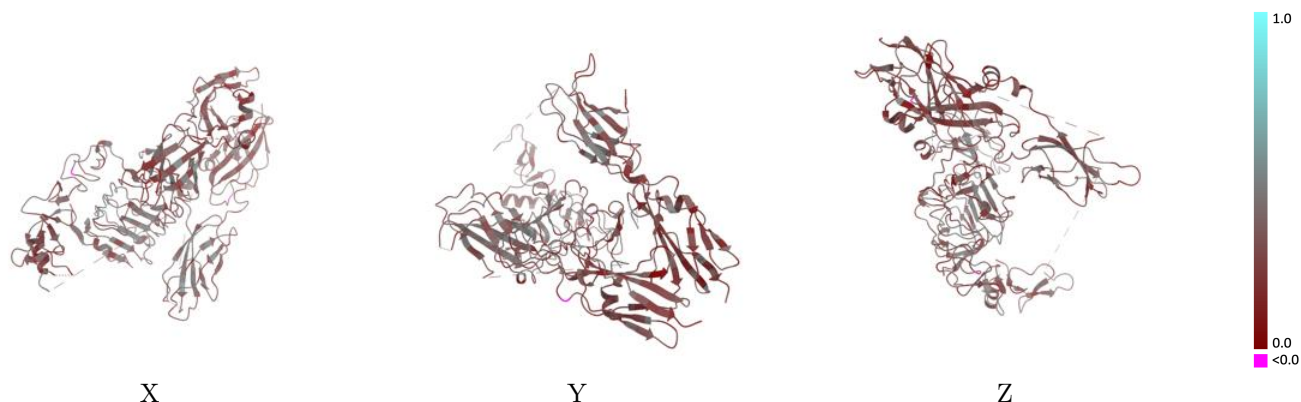
This section contains information regarding the fit between EMDB map EMD-0246 and PDB model 6HN4. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



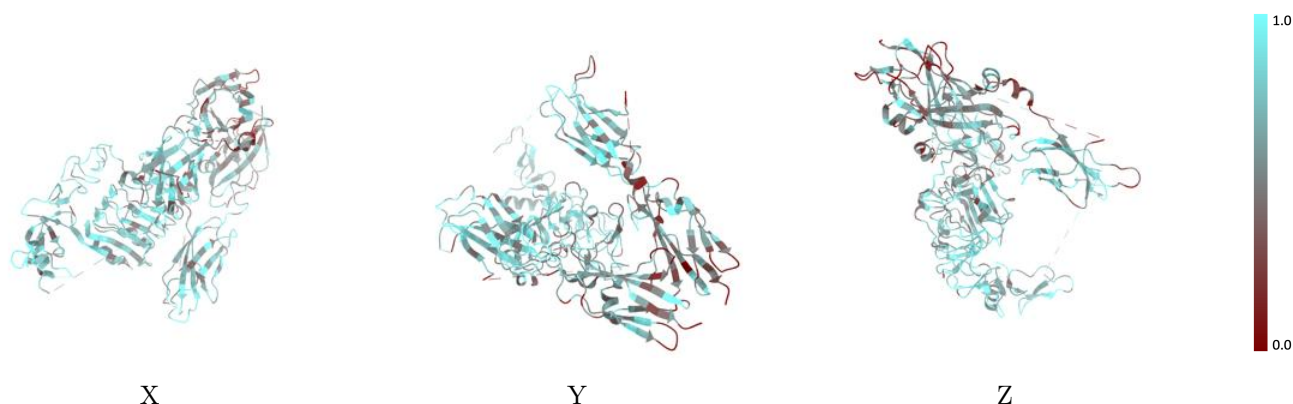
The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



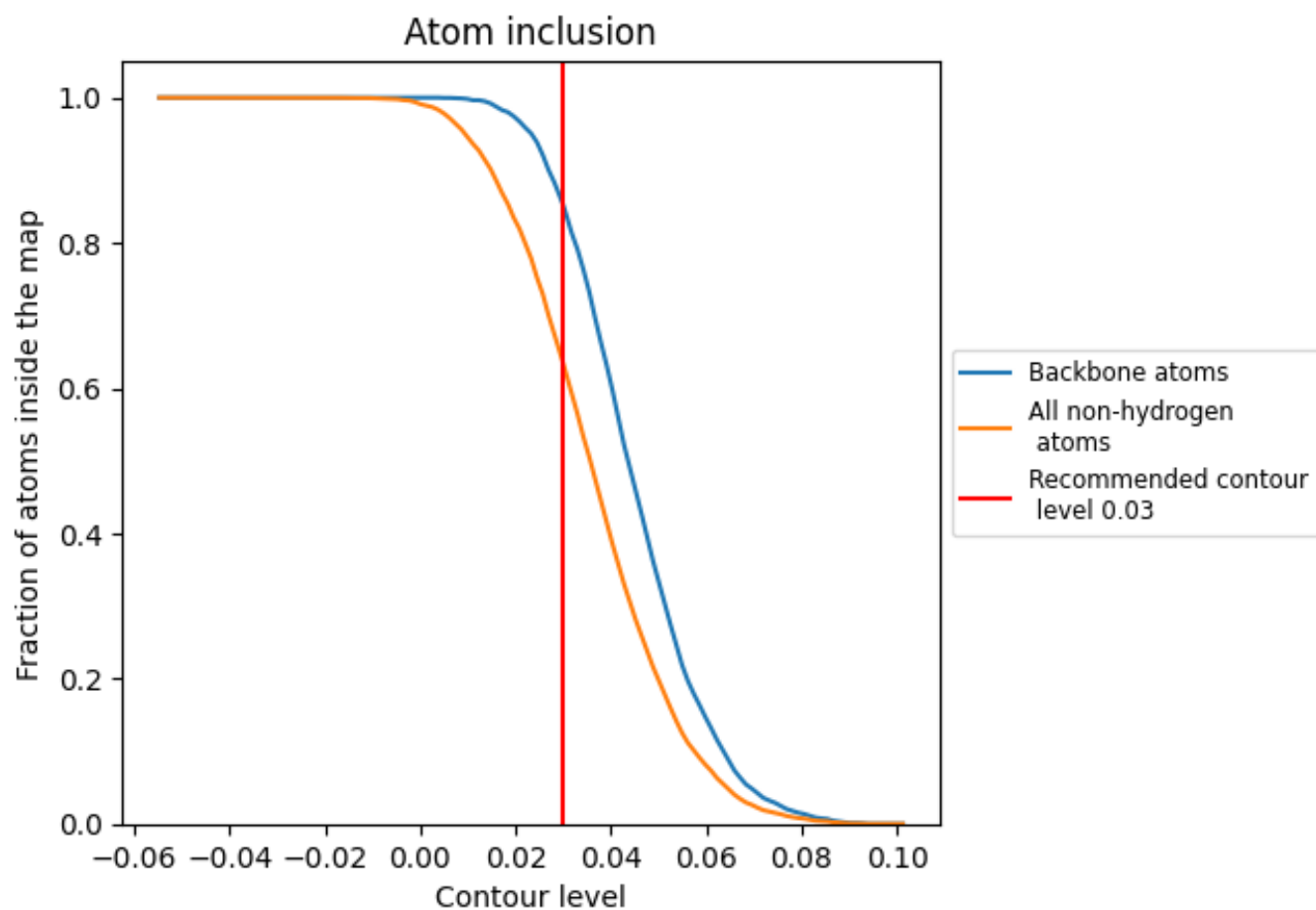
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.03).







9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 63% 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 (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6342	 0.3200
E	 0.5986	 0.3150
F	 0.6484	 0.3210

