



Full wwPDB EM Validation Report ⓘ

Nov 6, 2022 – 11:35 PM EST

PDB ID : 6NI2
EMDB ID : EMD-9375
Title : Stabilized beta-arrestin 1-V2T subcomplex of a GPCR-G protein-beta-arrestin mega-complex
Authors : Nguyen, A.H.; Thomsen, A.R.B.; Cahill, T.J.; des Georges, A.; Lefkowitz, R.J.
Deposited on : 2018-12-26
Resolution : 4.00 Å(reported)

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 : 1.8.5 (274361), 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

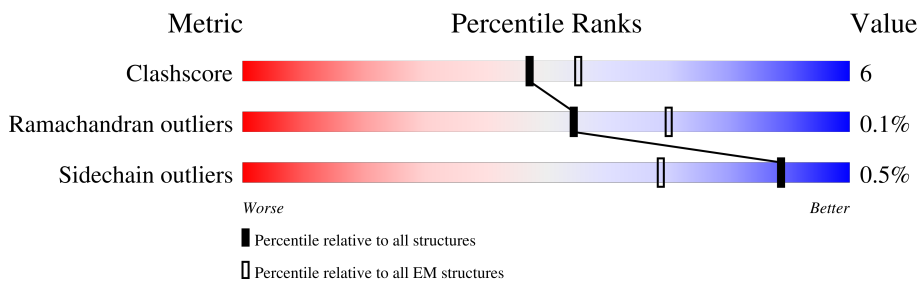
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.00 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	A	124	
2	B	393	
3	H	237	
4	L	215	
5	V	26	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5381 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 Nanobody 32.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	113	865	540	153	168	4	0	0

- Molecule 2 is a protein called Beta-arrestin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	353	2699	1730	459	500	10	0	0

- Molecule 3 is a protein called Fab30 Heavy Chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	H	117	908	578	153	174	3	0	0

- Molecule 4 is a protein called Fab30 Light Chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	L	107	800	506	131	160	3	0	0

- Molecule 5 is a protein called Vasopressin V2 receptor.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	N	O	P	S		
5	V	14	109	48	14	40	6	1	0	0

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	230021	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 ($e^-/\text{\AA}^2$)	104	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	0.966	Depositor
Minimum map value	-0.350	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.026	Depositor
Recommended contour level	0.22	Depositor
Map size (Å)	249.59999, 249.59999, 249.59999	wwPDB
Map dimensions	240, 240, 240	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: TPO, SEP

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	0.42	0/881	0.72	1/1194 (0.1%)
2	B	0.48	0/2758	0.73	1/3757 (0.0%)
3	H	0.51	0/932	0.64	0/1267
4	L	0.54	1/818 (0.1%)	0.71	0/1114
5	V	0.27	0/43	0.44	0/53
All	All	0.48	1/5432 (0.0%)	0.71	2/7385 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	39	GLN	C-N	-5.10	1.22	1.34

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	85	LEU	CA-CB-CG	-6.37	100.64	115.30
2	B	154	LEU	CA-CB-CG	5.35	127.60	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	51	ALA	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	865	0	846	23	0
2	B	2699	0	2690	32	0
3	H	908	0	860	6	0
4	L	800	0	770	7	0
5	V	109	0	60	2	0
All	All	5381	0	5226	68	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 (68) 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:35:ALA:H	1:A:97:THR:HG23	1.67	0.60
2:B:7:ARG:NH2	5:V:362:SEP:O	2.34	0.59
4:L:62:ARG:NH2	4:L:82:GLU:OE2	2.35	0.59
2:B:270:LYS:HD3	2:B:272:TYR:HE1	1.68	0.59
4:L:31:SER:O	4:L:67:ARG:NH1	2.36	0.59
2:B:329:VAL:HB	2:B:341:SER:HB2	1.84	0.59
2:B:62:ARG:NH1	2:B:74:THR:OG1	2.36	0.58
2:B:198:HIS:NE2	2:B:200:GLU:OE2	2.36	0.58
2:B:229:LYS:HD2	2:B:330:SER:HB3	1.86	0.57
2:B:125:CYS:SG	2:B:170:LYS:NZ	2.77	0.57
1:A:20:LEU:HD12	1:A:80:LEU:HD23	1.85	0.57
2:B:137:GLY:O	2:B:295:HIS:NE2	2.37	0.57
2:B:181:GLN:NE2	2:B:203:LEU:O	2.38	0.57
5:V:363:SEP:OG	5:V:364:SEP:N	2.31	0.57
2:B:85:GLN:HE21	2:B:88:PRO:HD2	1.72	0.55
1:A:99:VAL:HA	2:B:16:GLY:HA3	1.90	0.54
1:A:3:GLN:H	1:A:25:SER:HB2	1.74	0.53
2:B:277:PHE:O	2:B:281:ASN:ND2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:GLU:OE2	1:A:107:GLY:N	2.39	0.52
2:B:189:GLN:HG2	2:B:196:PRO:HB3	1.91	0.52
2:B:15:ASN:ND2	2:B:162:ASN:OD1	2.42	0.52
1:A:23:VAL:HG22	1:A:77:THR:HB	1.92	0.52
4:L:38:GLN:HG3	4:L:87:TYR:HE1	1.75	0.52
1:A:13:GLN:NE2	1:A:113:SER:OG	2.42	0.51
3:H:94:THR:HG23	3:H:120:THR:HA	1.93	0.50
4:L:21:THR:HG23	4:L:73:THR:HG23	1.94	0.49
3:H:43:ALA:HB3	3:H:46:LYS:HB2	1.95	0.49
2:B:232:LYS:HB2	2:B:326:LYS:HB3	1.94	0.49
1:A:4:LEU:HD11	1:A:102:LEU:HB3	1.93	0.49
2:B:14:PRO:HB2	2:B:161:ARG:HG3	1.95	0.49
2:B:252:PRO:O	2:B:284:LYS:NZ	2.46	0.49
1:A:98:PHE:HA	1:A:101:SER:HA	1.95	0.48
2:B:42:LEU:HD13	2:B:108:LEU:HD23	1.95	0.48
1:A:90:THR:HA	1:A:110:VAL:HG23	1.95	0.48
1:A:2:VAL:HG11	1:A:102:LEU:HD22	1.96	0.47
1:A:82:MET:HB3	1:A:85:LEU:HD21	1.95	0.47
2:B:22:LEU:HD12	2:B:166:LEU:HD23	1.95	0.47
1:A:14:ALA:HB2	1:A:112:VAL:HG13	1.96	0.47
1:A:45:ARG:HH22	1:A:96:ASN:HD22	1.61	0.47
2:B:45:PRO:HG3	2:B:111:HIS:CE1	2.49	0.47
3:H:101:ARG:HH21	3:H:112:TYR:HD2	1.62	0.46
2:B:190:PHE:HB2	2:B:193:SER:HB2	1.96	0.46
3:H:101:ARG:HG2	3:H:112:TYR:HB2	1.97	0.46
2:B:90:ALA:HB3	2:B:93:ASP:HB2	1.97	0.46
1:A:50:SER:OG	1:A:51:ALA:N	2.48	0.45
2:B:130:GLN:NE2	2:B:284:LYS:O	2.50	0.45
1:A:35:ALA:HB3	1:A:97:THR:HA	1.98	0.45
2:B:55:VAL:HA	2:B:148:ALA:HA	1.99	0.44
4:L:38:GLN:HB2	4:L:48:LEU:HD11	2.00	0.44
3:H:63:TYR:HE1	3:H:73:ILE:HG22	1.83	0.43
2:B:197:LEU:HD23	2:B:343:VAL:HG21	2.01	0.43
1:A:52:THR:HA	1:A:71:ARG:HH21	1.83	0.43
2:B:236:ARG:NH1	2:B:324:LYS:HD2	2.34	0.43
1:A:15:GLY:HA2	1:A:84:SER:HA	2.01	0.42
1:A:37:TYR:HE1	1:A:47:LEU:HD12	1.84	0.42
2:B:87:PHE:HB2	2:B:113:TYR:CD2	2.55	0.42
1:A:85:LEU:HA	1:A:85:LEU:HD23	1.82	0.42
2:B:236:ARG:HD2	2:B:250:LYS:HB3	2.02	0.41
4:L:84:PHE:CE1	4:L:107:ILE:HG12	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:34:VAL:HG11	2:B:119:ILE:HB	2.01	0.41
1:A:18:LEU:HD11	1:A:110:VAL:HG11	2.02	0.41
2:B:24:LYS:HG3	2:B:27:PHE:HE1	1.86	0.41
3:H:111:ASP:OD1	3:H:111:ASP:N	2.46	0.41
4:L:62:ARG:NE	4:L:83:ASP:OD2	2.52	0.41
2:B:107:LYS:HG2	2:B:108:LEU:HD12	2.03	0.40
1:A:4:LEU:HD21	1:A:102:LEU:HD13	2.03	0.40
2:B:237:GLN:NE2	2:B:288:ALA:HB3	2.37	0.40
1:A:45:ARG:HH22	1:A:96:ASN:ND2	2.20	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	A	111/124 (90%)	91 (82%)	20 (18%)	0	100	100
2	B	349/393 (89%)	332 (95%)	17 (5%)	0	100	100
3	H	115/237 (48%)	110 (96%)	5 (4%)	0	100	100
4	L	105/215 (49%)	100 (95%)	4 (4%)	1 (1%)	15	53
5	V	6/26 (23%)	3 (50%)	3 (50%)	0	100	100
All	All	686/995 (69%)	636 (93%)	49 (7%)	1 (0%)	54	84

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	L	31	SER

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	A	93/103 (90%)	92 (99%)	1 (1%)	73	85
2	B	292/350 (83%)	291 (100%)	1 (0%)	92	95
3	H	94/200 (47%)	94 (100%)	0	100	100
4	L	88/190 (46%)	87 (99%)	1 (1%)	73	85
5	V	3/15 (20%)	3 (100%)	0	100	100
All	All	570/858 (66%)	567 (100%)	3 (0%)	89	93

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	ARG
2	B	95	LYS
4	L	67	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	GLN
2	B	85	GLN
3	H	31	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

6 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
5	SEP	V	363	5	8,9,10	1.42	1 (12%)	8,12,14	0.97	1 (12%)
5	SEP	V	362	5	8,9,10	1.49	1 (12%)	8,12,14	2.21	2 (25%)
5	TPO	V	360	5	8,10,11	1.00	0	10,14,16	1.87	1 (10%)
5	SEP	V	357	5	8,9,10	1.45	1 (12%)	8,12,14	2.01	2 (25%)
5	SEP	V	364	5	8,9,10	1.54	1 (12%)	8,12,14	2.23	2 (25%)
5	TPO	V	359	5	8,10,11	1.68	1 (12%)	10,14,16	1.13	0

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
5	SEP	V	363	5	-	4/5/8/10	-
5	SEP	V	362	5	-	1/5/8/10	-
5	TPO	V	360	5	-	1/9/11/13	-
5	SEP	V	357	5	-	1/5/8/10	-
5	SEP	V	364	5	-	2/5/8/10	-
5	TPO	V	359	5	-	5/9/11/13	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	V	359	TPO	P-O1P	3.38	1.61	1.50
5	V	362	SEP	P-O1P	3.26	1.61	1.50
5	V	364	SEP	P-O1P	3.22	1.60	1.50
5	V	363	SEP	P-O1P	3.19	1.60	1.50
5	V	357	SEP	P-O1P	3.19	1.60	1.50

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	V	360	TPO	P-OG1-CB	-5.46	106.72	123.21
5	V	362	SEP	P-OG-CB	-5.39	103.44	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	V	364	SEP	P-OG-CB	-4.77	105.15	118.30
5	V	357	SEP	P-OG-CB	-4.68	105.41	118.30
5	V	364	SEP	OG-CB-CA	3.83	111.87	108.14
5	V	362	SEP	OG-CB-CA	2.66	110.73	108.14
5	V	357	SEP	OG-CB-CA	2.50	110.58	108.14
5	V	363	SEP	P-OG-CB	-2.15	112.38	118.30

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	V	357	SEP	N-CA-CB-OG
5	V	359	TPO	N-CA-CB-CG2
5	V	359	TPO	N-CA-CB-OG1
5	V	359	TPO	C-CA-CB-CG2
5	V	359	TPO	CG2-CB-OG1-P
5	V	363	SEP	CB-OG-P-O1P
5	V	363	SEP	CB-OG-P-O2P
5	V	363	SEP	CB-OG-P-O3P
5	V	362	SEP	N-CA-CB-OG
5	V	363	SEP	N-CA-CB-OG
5	V	364	SEP	N-CA-CB-OG
5	V	364	SEP	CB-OG-P-O3P
5	V	359	TPO	O-C-CA-CB
5	V	360	TPO	O-C-CA-CB

There are no ring outliers.

3 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	V	363	SEP	1	0
5	V	362	SEP	1	0
5	V	364	SEP	1	0

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.

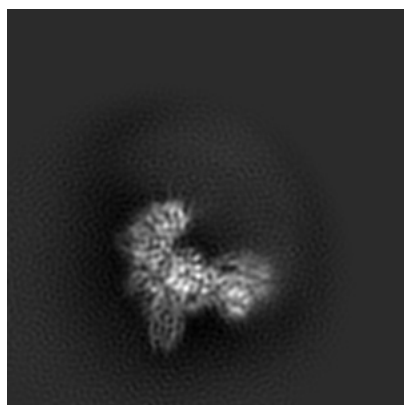
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9375. These allow visual inspection of the internal detail of the map and identification of artifacts.

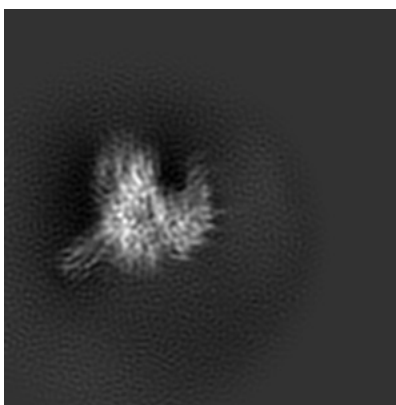
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

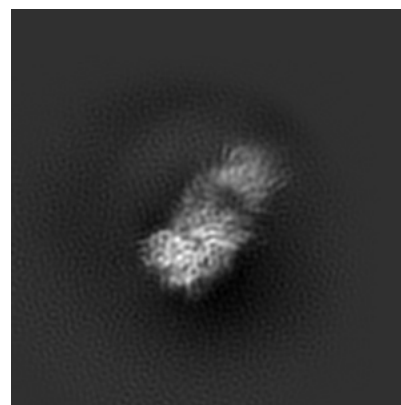
6.1.1 Primary map



X



Y

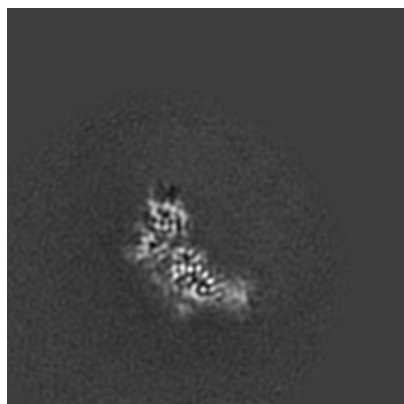


Z

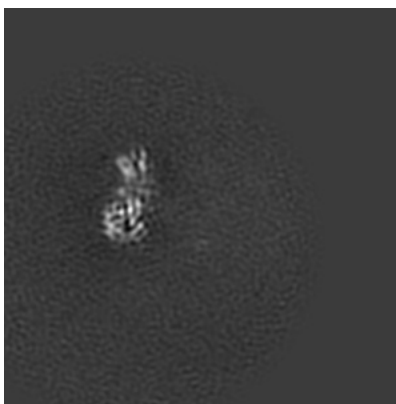
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

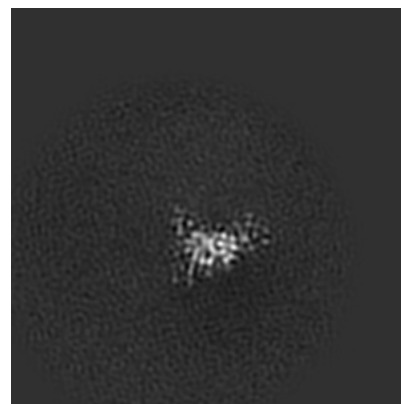
6.2.1 Primary map



X Index: 120



Y Index: 120

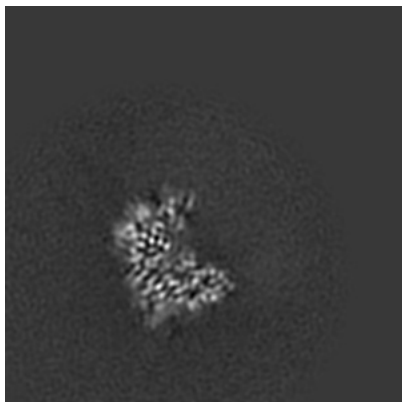


Z Index: 120

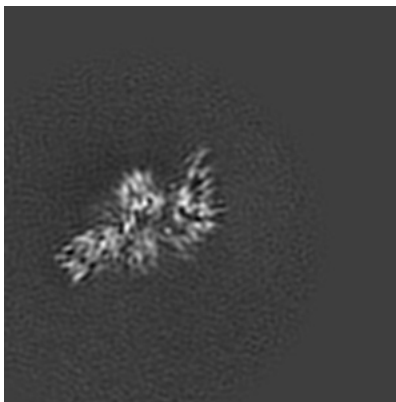
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

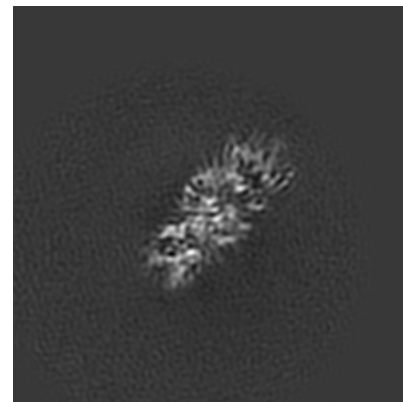
6.3.1 Primary map



X Index: 107



Y Index: 100

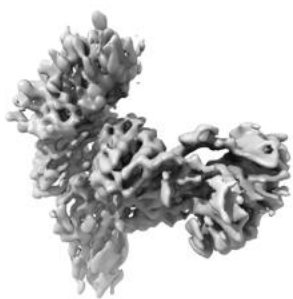


Z Index: 71

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

6.4 Orthogonal surface views [i](#)

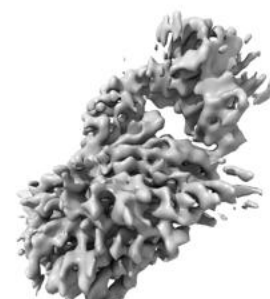
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.22. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

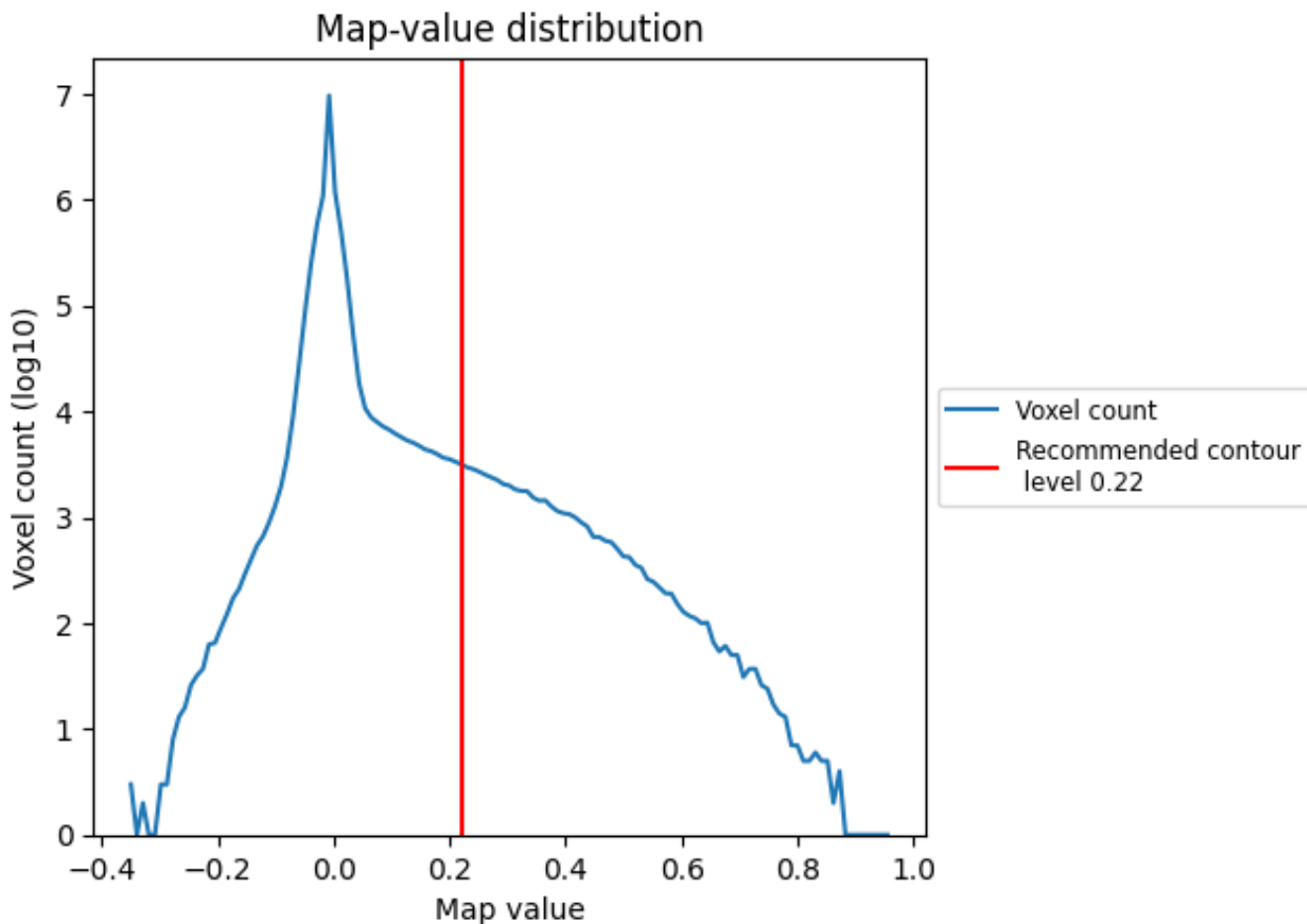
6.5 Mask visualisation

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

7 Map analysis [i](#)

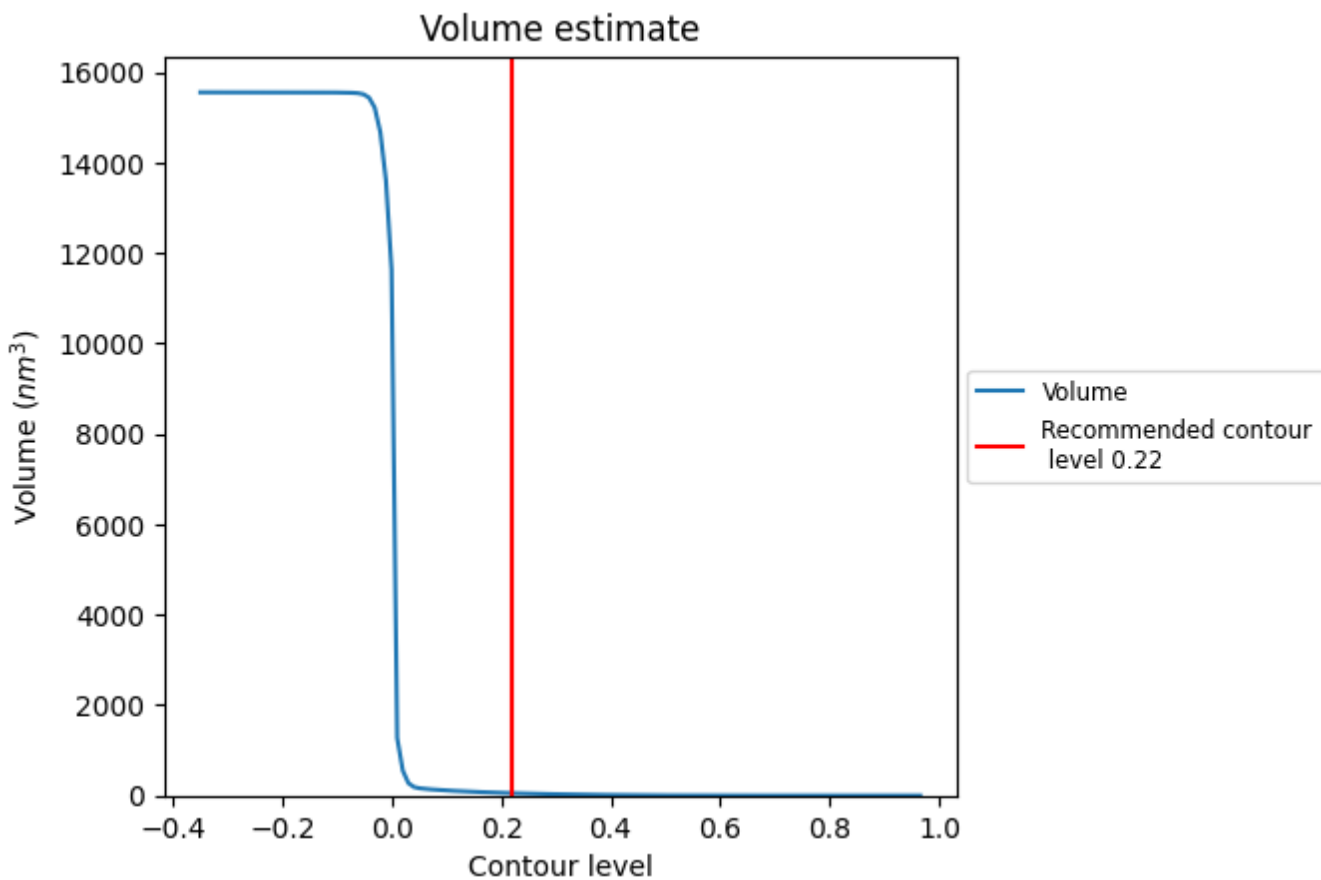
This section contains the results of statistical analysis of the map.

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.

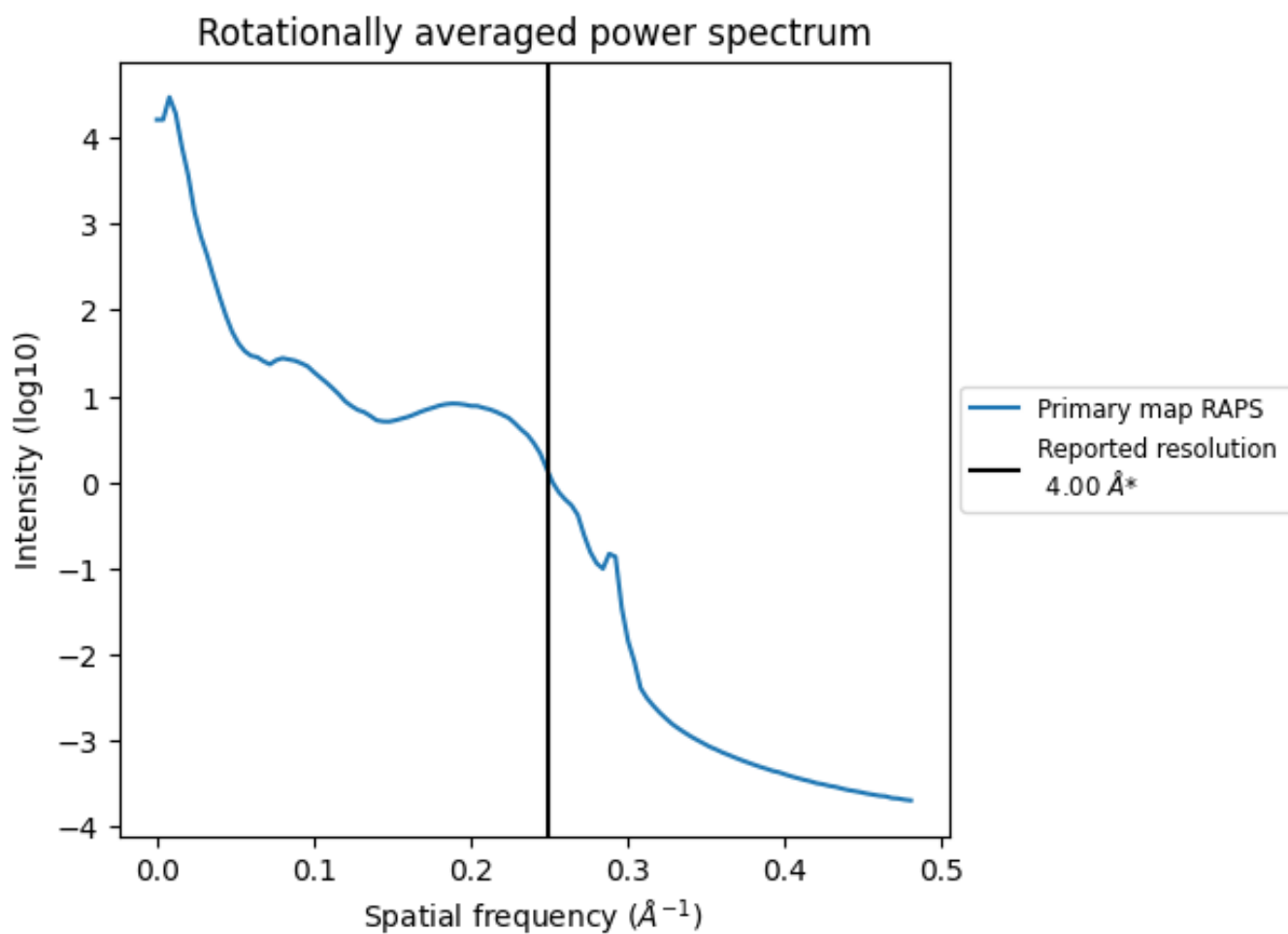
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 53 nm³; this corresponds to an approximate mass of 48 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 0.250\AA^{-1}

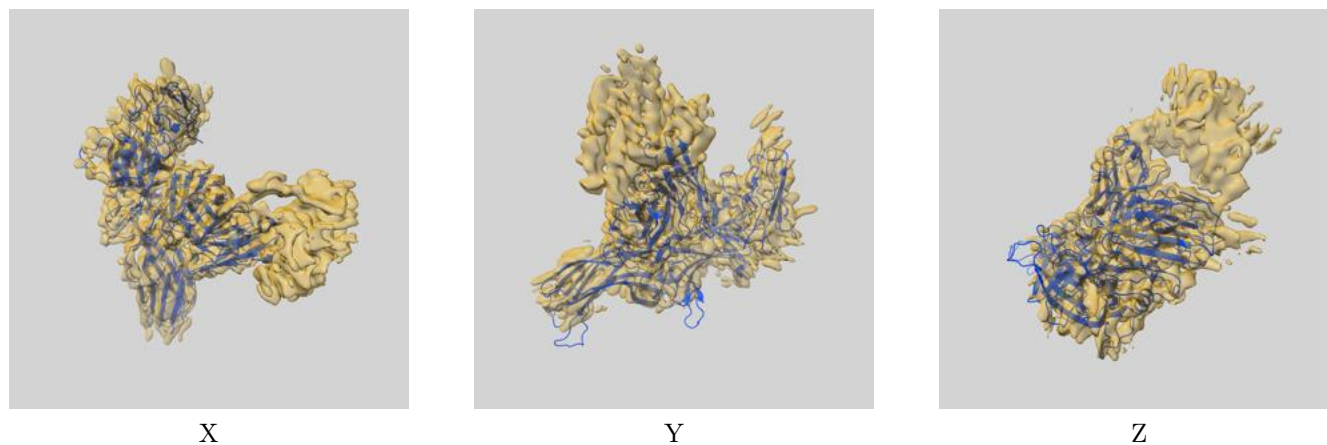
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

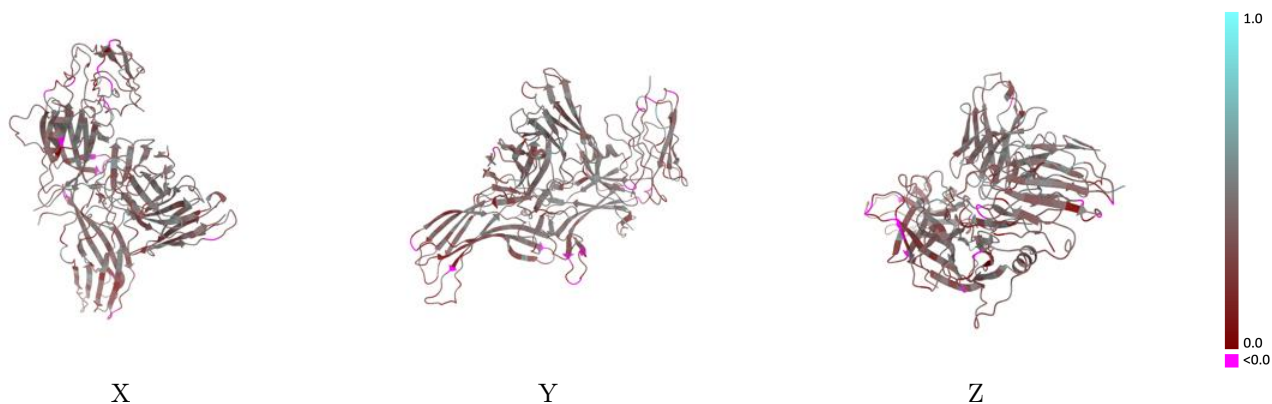
This section contains information regarding the fit between EMDB map EMD-9375 and PDB model 6NI2. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)



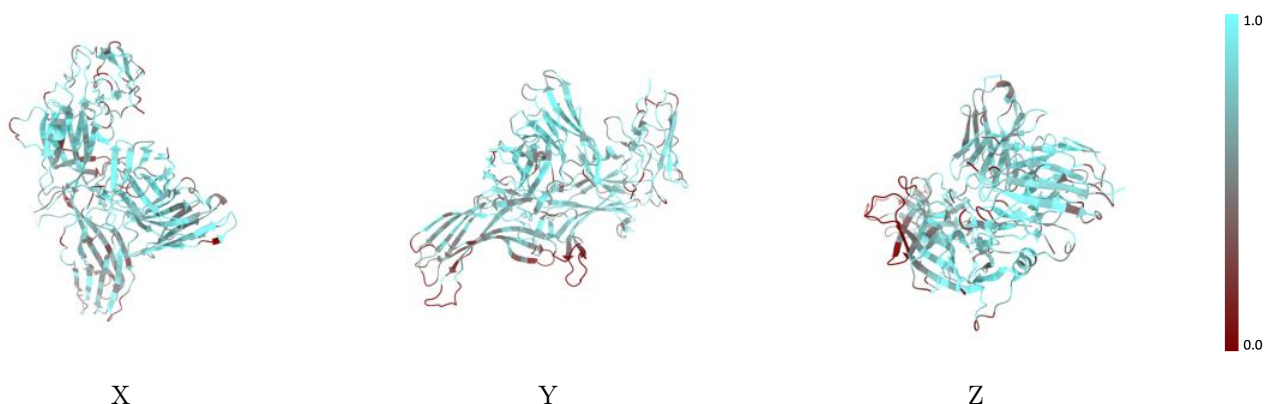
The images above show the 3D surface view of the map at the recommended contour level 0.22 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



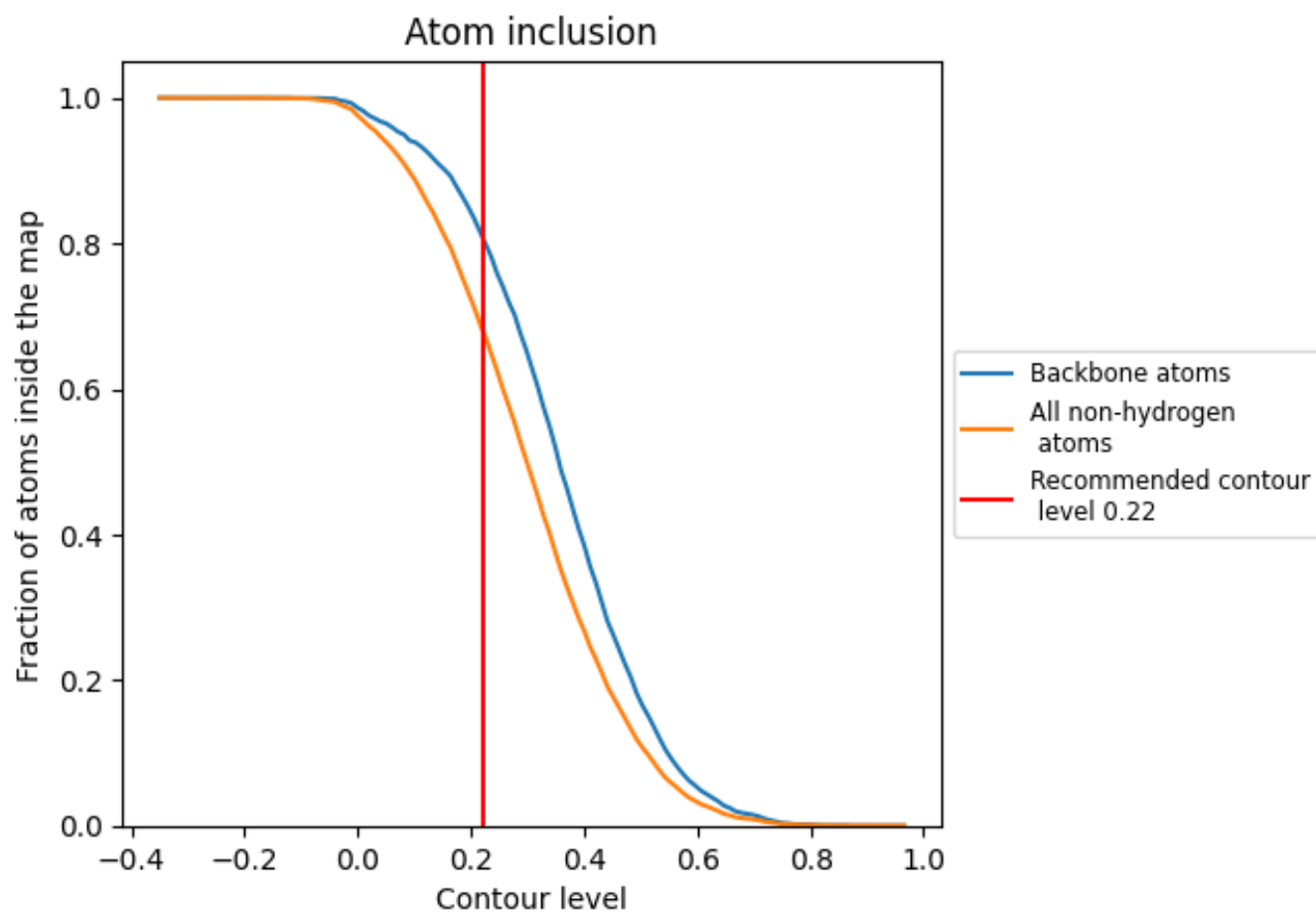
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.22).













9.4 Atom inclusion [i](#)



At the recommended contour level, 81% of all backbone atoms, 68% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.22) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6813	 0.3480
A	 0.6588	 0.3290
B	 0.6216	 0.3230
H	 0.7582	 0.3820
L	 0.8023	 0.4050
V	 0.8165	 0.4320

