



Full wwPDB EM Validation Report ⓘ

Jan 29, 2024 – 06:48 pm GMT

PDB ID : 8CDD
EMDB ID : EMD-16569
Title : PfRH5-PfCyRPA-PfRIPR complex from Plasmodium falciparum bound to antibody Cy.003
Authors : Farrell, B.; Higgins, M.K.
Deposited on : 2023-01-30
Resolution : 3.00 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:

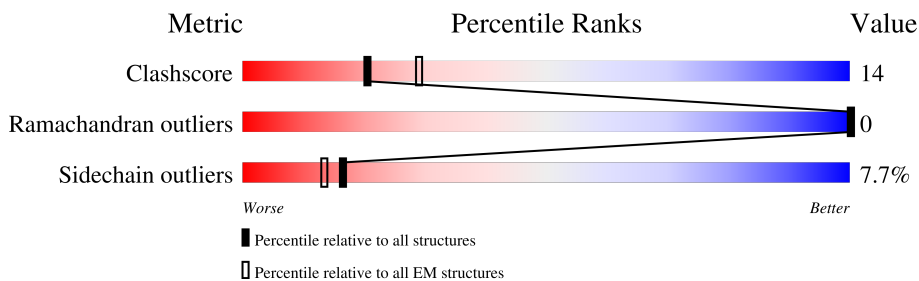
EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

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 3.00 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	1070	
2	B	343	
3	C	502	
4	D	207	
5	E	226	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 13139 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 Rh5-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	590	4793	3014	800	926	53	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	103	GLN	ASN	conflict	UNP O97302
A	144	GLN	ASN	conflict	UNP O97302
A	228	GLN	ASN	conflict	UNP O97302
A	334	GLN	ASN	conflict	UNP O97302
A	480	GLN	ASN	conflict	UNP O97302
A	498	GLN	ASN	conflict	UNP O97302
A	506	GLN	ASN	conflict	UNP O97302
A	526	GLN	ASN	conflict	UNP O97302
A	646	GLN	ASN	conflict	UNP O97302
A	647	GLN	ASN	conflict	UNP O97302
A	964	GLN	ASN	conflict	UNP O97302
A	1021	GLN	ASN	conflict	UNP O97302
A	1087	GLU	-	expression tag	UNP O97302
A	1088	PRO	-	expression tag	UNP O97302
A	1089	GLU	-	expression tag	UNP O97302
A	1090	ALA	-	expression tag	UNP O97302

- Molecule 2 is a protein called Cysteine-rich protective antigen.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	326	2710	1743	434	520	13	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	147	ALA	SER	conflict	UNP Q8IFM8

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Chain	Residue	Modelled	Actual	Comment	Reference
B	324	ALA	THR	conflict	UNP Q8IFM8
B	340	ALA	THR	conflict	UNP Q8IFM8
B	363	GLY	-	expression tag	UNP Q8IFM8
B	364	GLY	-	expression tag	UNP Q8IFM8
B	365	GLY	-	expression tag	UNP Q8IFM8
B	366	GLY	-	expression tag	UNP Q8IFM8
B	367	SER	-	expression tag	UNP Q8IFM8
B	368	GLU	-	expression tag	UNP Q8IFM8
B	369	PRO	-	expression tag	UNP Q8IFM8
B	370	GLU	-	expression tag	UNP Q8IFM8
B	371	ALA	-	expression tag	UNP Q8IFM8

- Molecule 3 is a protein called Reticulocyte-binding protein homolog 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	296	2516	1625	420	456	15	0	0

There are 3 discrepancies between the modelled and reference sequences:

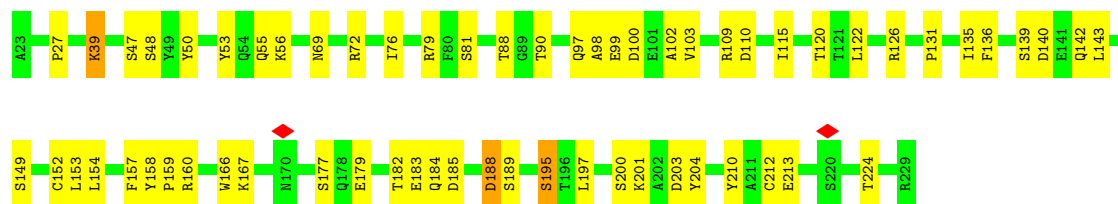
Chain	Residue	Modelled	Actual	Comment	Reference
C	203	TYR	CYS	conflict	UNP Q8IFM5
C	216	ALA	THR	conflict	UNP Q8IFM5
C	299	ALA	THR	conflict	UNP Q8IFM5

- Molecule 4 is a protein called Cy.003 light chain.

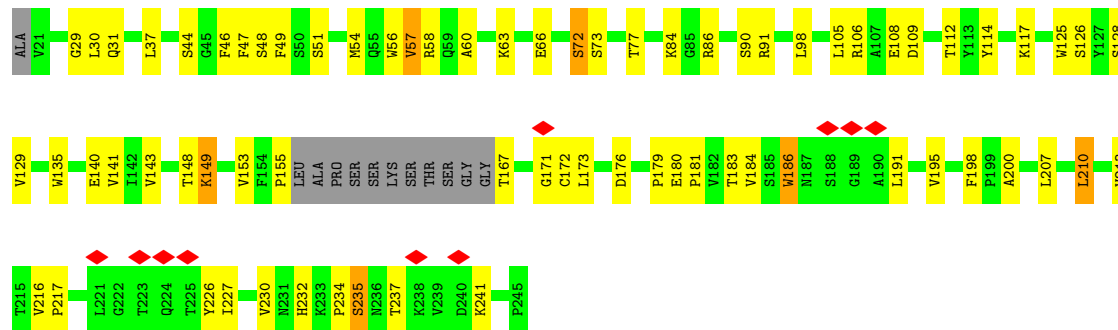
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	207	1552	963	263	322	4	0	0

- Molecule 5 is a protein called Cy.003 heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	E	214	1568	982	268	311	7	0	0



• Molecule 5: Cy.003 heavy chain



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	500277	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 ($e^-/\text{\AA}^2$)	48.97	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	78.650	Depositor
Minimum map value	-44.523	Depositor
Average map value	0.013	Depositor
Map value standard deviation	1.197	Depositor
Recommended contour level	8.0	Depositor
Map size (Å)	346.112, 346.112, 346.112	wwPDB
Map dimensions	416, 416, 416	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.832, 0.832, 0.832	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.27	0/4888	0.50	0/6587
2	B	0.29	0/2772	0.50	0/3743
3	C	0.27	0/2570	0.51	0/3449
4	D	0.29	0/1584	0.51	0/2153
5	E	0.27	0/1604	0.53	0/2184
All	All	0.28	0/13418	0.51	0/18116

There are no bond length outliers.

There are no bond angle outliers.

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	4793	0	4583	128	0
2	B	2710	0	2608	58	0
3	C	2516	0	2530	83	0
4	D	1552	0	1499	39	0
5	E	1568	0	1514	52	0
All	All	13139	0	12734	350	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.

All (350) 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)
3:C:366:LYS:H	3:C:366:LYS:HE2	1.46	0.81
1:A:410:ILE:HD11	1:A:473:LEU:HB2	1.64	0.79
1:A:65:LEU:HD23	1:A:157:LEU:HD13	1.65	0.77
1:A:621:PHE:O	1:A:629:GLN:NE2	2.20	0.74
3:C:342:GLN:N	3:C:342:GLN:OE1	2.20	0.74
1:A:241:GLN:NE2	2:B:37:THR:O	2.23	0.71
3:C:512:MET:SD	3:C:512:MET:N	2.64	0.71
5:E:56:TRP:HE1	5:E:98:LEU:HD22	1.55	0.70
1:A:587:ILE:HD13	1:A:589:LYS:HG3	1.74	0.69
1:A:624:TYR:HB3	1:A:629:GLN:HE21	1.58	0.69
4:D:110:ASP:HB2	4:D:115:ILE:HD13	1.74	0.69
5:E:232:HIS:HB3	5:E:237:THR:HB	1.76	0.67
3:C:454:GLU:O	3:C:458:ARG:HG2	1.94	0.67
1:A:650:CYS:HA	1:A:659:CYS:HA	1.75	0.66
5:E:46:PHE:HE1	5:E:117:LYS:HD2	1.60	0.66
5:E:57:VAL:HG23	5:E:114:TYR:HB2	1.77	0.66
1:A:283:GLU:HB3	1:A:287:ARG:HE	1.61	0.66
5:E:29:GLY:H	5:E:141:VAL:HG12	1.60	0.66
5:E:60:ALA:HB3	5:E:63:LYS:HB3	1.78	0.66
3:C:474:HIS:NE2	3:C:478:MET:SD	2.69	0.65
1:A:694:LEU:HD22	1:A:695:PRO:HD2	1.78	0.65
1:A:73:LEU:HB3	1:A:148:ILE:HD11	1.78	0.65
1:A:59:GLU:HG3	1:A:258:VAL:HG11	1.76	0.65
1:A:187:LEU:HD21	1:A:190:VAL:HG23	1.79	0.65
1:A:40:LEU:HD22	1:A:625:CYS:HB2	1.78	0.65
4:D:183:GLU:OE1	4:D:183:GLU:N	2.28	0.64
1:A:296:ASN:ND2	1:A:618:ILE:O	2.30	0.64
1:A:364:LYS:NZ	1:A:368:GLU:OE1	2.30	0.64
5:E:86:ARG:NH2	5:E:109:ASP:OD2	2.31	0.64
1:A:188:ARG:NH1	1:A:243:GLN:OE1	2.31	0.63
1:A:328:VAL:HG13	1:A:617:LEU:HD21	1.80	0.63
1:A:40:LEU:HG	1:A:286:TYR:HB2	1.80	0.63
1:A:349:LYS:NZ	1:A:350:CYS:O	2.32	0.63
3:C:366:LYS:H	3:C:366:LYS:CE	2.11	0.63
3:C:387:LEU:HD21	3:C:418:LYS:HA	1.81	0.62
1:A:577:GLN:O	1:A:577:GLN:NE2	2.33	0.61
1:A:708:LYS:HE2	1:A:708:LYS:H	1.65	0.61
2:B:283:VAL:HG22	2:B:292:VAL:HG12	1.81	0.61
5:E:73:SER:HA	5:E:91:ARG:HH22	1.66	0.61
4:D:153:LEU:HD11	5:E:213:VAL:HG11	1.83	0.60
2:B:64:CYS:SG	2:B:65:LEU:N	2.75	0.60
5:E:72:SER:O	5:E:91:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:446:ILE:HG13	3:C:447:TRP:CD1	2.37	0.60
5:E:37:LEU:HD11	5:E:141:VAL:HG11	1.84	0.59
3:C:431:ILE:HG13	3:C:472:SER:HB2	1.84	0.58
1:A:64:TYR:HE1	1:A:153:ILE:HG23	1.68	0.58
3:C:313:LYS:O	3:C:316:LYS:HG3	2.04	0.58
3:C:193:ILE:HG23	3:C:202:LYS:HZ3	1.69	0.58
1:A:676:ARG:NH2	1:A:678:ASN:O	2.36	0.58
3:C:212:LYS:O	3:C:212:LYS:NZ	2.34	0.58
3:C:309:THR:OG1	3:C:310:LYS:NZ	2.36	0.58
3:C:420:ILE:O	3:C:424:ILE:HG22	2.04	0.58
2:B:251:LYS:NZ	2:B:297:ASP:OD2	2.37	0.58
4:D:126:ARG:NH1	4:D:188:ASP:O	2.37	0.58
1:A:212:ASP:OD1	1:A:214:LYS:NZ	2.37	0.58
2:B:159:LYS:NZ	2:B:194:ASP:OD2	2.36	0.58
1:A:347:GLU:HB2	1:A:610:LEU:HD11	1.84	0.57
3:C:194:TYR:OH	3:C:363:TYR:OH	2.19	0.57
3:C:456:LEU:O	3:C:460:LEU:HD23	2.04	0.57
2:B:244:GLY:O	2:B:252:ASN:ND2	2.36	0.57
2:B:284:SER:HB3	2:B:332:PHE:HD1	1.69	0.57
1:A:271:GLY:O	1:A:285:ASN:N	2.37	0.57
3:C:462:MET:SD	3:C:462:MET:N	2.78	0.57
4:D:50:TYR:N	4:D:69:ASN:OD1	2.35	0.57
1:A:40:LEU:N	1:A:624:TYR:O	2.39	0.56
2:B:56:TYR:OH	2:B:139:ASN:O	2.24	0.56
1:A:205:THR:O	1:A:209:ASN:ND2	2.39	0.56
4:D:53:TYR:OH	5:E:129:VAL:O	2.17	0.56
5:E:48:SER:OG	5:E:51:SER:OG	2.22	0.56
1:A:309:LYS:HG2	1:A:312:LEU:HD22	1.87	0.56
1:A:369:LEU:HA	1:A:372:LYS:HE3	1.86	0.56
1:A:688:ASN:ND2	1:A:714:CYS:O	2.38	0.56
1:A:53:ILE:HD11	1:A:56:ASN:HB2	1.86	0.56
3:C:216:ALA:O	3:C:220:VAL:HG23	2.06	0.56
1:A:196:ASN:HB3	1:A:199:LEU:HG	1.88	0.56
2:B:192:LYS:HE2	2:B:194:ASP:HB3	1.88	0.56
1:A:39:SER:HA	1:A:298:PHE:HA	1.87	0.55
1:A:473:LEU:HD21	1:A:563:VAL:HG11	1.87	0.55
3:C:444:LEU:O	3:C:458:ARG:NH2	2.39	0.55
5:E:180:GLU:CD	5:E:181:PRO:HA	2.26	0.55
1:A:191:HIS:HB3	1:A:239:ASN:HB3	1.87	0.55
2:B:107:ALA:HB3	2:B:165:VAL:HG22	1.88	0.55
2:B:343:ILE:HG23	2:B:353:ILE:HG13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:446:ILE:H	3:C:448:ARG:NH1	2.04	0.55
4:D:55:GLN:HB3	4:D:103:VAL:HB	1.88	0.55
2:B:198:CYS:HB2	2:B:212:ILE:HB	1.87	0.55
2:B:50:ARG:NH2	3:C:507:ASP:OD1	2.40	0.55
3:C:194:TYR:HH	3:C:363:TYR:HH	1.49	0.55
2:B:291:ILE:HG12	2:B:332:PHE:HE1	1.72	0.55
3:C:399:LYS:HG3	3:C:400:LYS:HG2	1.89	0.55
3:C:368:ILE:HD12	3:C:369:LEU:N	2.22	0.55
1:A:309:LYS:HB3	1:A:312:LEU:HB2	1.88	0.54
1:A:372:LYS:O	1:A:663:ASN:ND2	2.40	0.54
1:A:399:MET:HG2	1:A:472:TYR:CD1	2.42	0.54
1:A:111:ILE:O	1:A:115:LYS:NZ	2.39	0.54
3:C:322:GLU:HA	3:C:325:PHE:HD2	1.70	0.54
3:C:352:ASN:HA	3:C:449:THR:HG23	1.89	0.54
5:E:54:MET:HA	5:E:117:LYS:HA	1.90	0.54
3:C:428:THR:O	3:C:432:ASN:ND2	2.40	0.54
2:B:291:ILE:HG12	2:B:332:PHE:CE1	2.43	0.54
2:B:104:HIS:HB3	2:B:106:PHE:CE2	2.42	0.54
1:A:230:SER:HB3	1:A:232:THR:HG22	1.89	0.53
2:B:158:ASP:OD1	2:B:158:ASP:N	2.33	0.53
1:A:172:LYS:HZ2	1:A:232:THR:HB	1.73	0.53
3:C:210:ILE:O	3:C:213:ILE:HG22	2.09	0.53
4:D:182:THR:HG22	5:E:198:PHE:HA	1.90	0.53
1:A:575:GLN:OE1	1:A:575:GLN:HA	2.09	0.53
2:B:65:LEU:HD21	2:B:102:ARG:HG3	1.91	0.53
1:A:412:ALA:H	1:A:430:THR:HG22	1.73	0.53
4:D:140:ASP:OD1	4:D:140:ASP:N	2.34	0.53
4:D:72:ARG:NH1	4:D:76:ILE:O	2.41	0.53
4:D:204:TYR:O	4:D:210:TYR:OH	2.24	0.53
3:C:380:LEU:HD11	3:C:428:THR:HG21	1.90	0.53
5:E:235:SER:OG	5:E:237:THR:OG1	2.25	0.53
2:B:36:ARG:NH1	2:B:38:GLU:OE2	2.42	0.53
2:B:248:ASN:OD1	2:B:248:ASN:N	2.41	0.53
1:A:713:LYS:HD3	1:A:715:VAL:HG13	1.91	0.52
5:E:30:LEU:HD23	5:E:30:LEU:H	1.73	0.52
5:E:57:VAL:HG21	5:E:135:TRP:HZ3	1.74	0.52
3:C:164:LEU:HB3	3:C:482:THR:HG21	1.91	0.52
4:D:47:SER:OG	4:D:48:SER:N	2.42	0.52
1:A:169:PHE:HD2	1:A:238:ILE:HD11	1.73	0.52
1:A:476:PHE:HD2	1:A:560:ILE:HG12	1.74	0.52
2:B:54:PHE:HE1	2:B:63:ILE:HG13	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:164:TYR:OH	2:B:178:LEU:O	2.27	0.52
2:B:138:SER:OG	2:B:140:ASP:O	2.20	0.52
3:C:451:GLN:NE2	3:C:453:ASP:H	2.07	0.51
1:A:275:ILE:HG22	1:A:277:LEU:H	1.75	0.51
3:C:431:ILE:O	3:C:435:THR:OG1	2.20	0.51
4:D:179:GLU:OE2	4:D:179:GLU:N	2.39	0.51
5:E:153:VAL:HG23	5:E:241:LYS:HG2	1.92	0.51
1:A:176:ASP:OD1	1:A:176:ASP:N	2.42	0.51
1:A:604:LYS:O	1:A:608:ASN:HB2	2.10	0.51
4:D:109:ARG:HB2	5:E:128:SER:HB2	1.92	0.51
1:A:344:LYS:HZ2	1:A:345:LYS:HB2	1.74	0.51
1:A:349:LYS:HG2	1:A:350:CYS:H	1.74	0.51
5:E:186:TRP:HB3	5:E:191:LEU:HB3	1.93	0.51
2:B:80:GLN:HE21	2:B:89:THR:HG22	1.76	0.51
2:B:253:VAL:HG11	2:B:270:ASN:HB3	1.92	0.51
1:A:462:ASN:O	1:A:465:ASN:ND2	2.43	0.51
2:B:317:PRO:HG2	2:B:326:GLY:HA2	1.92	0.51
5:E:176:ASP:HA	5:E:207:LEU:HB3	1.92	0.51
5:E:54:MET:HB2	5:E:98:LEU:HD12	1.93	0.50
1:A:676:ARG:NH1	1:A:697:ASP:O	2.44	0.50
5:E:216:VAL:HG21	5:E:226:TYR:HE2	1.76	0.50
1:A:181:GLN:OE1	1:A:418:ARG:HG3	2.12	0.50
3:C:229:ASN:HA	3:C:232:ILE:HG22	1.94	0.50
5:E:37:LEU:HB2	5:E:105:LEU:HD11	1.92	0.50
1:A:453:ASP:OD1	1:A:453:ASP:N	2.34	0.50
2:B:147:ALA:HB3	5:E:125:TRP:CH2	2.46	0.50
1:A:665:TYR:OH	1:A:699:LEU:N	2.43	0.50
1:A:445:TYR:OH	1:A:453:ASP:O	2.29	0.50
5:E:143:VAL:HG23	5:E:143:VAL:O	2.11	0.50
1:A:323:ASN:OD1	1:A:323:ASN:N	2.39	0.50
2:B:111:VAL:HG22	2:B:112:GLU:OE2	2.12	0.50
2:B:333:VAL:HG22	2:B:341:LEU:HB3	1.93	0.50
1:A:590:GLY:HA3	1:A:594:CYS:SG	2.52	0.49
4:D:142:GLN:NE2	4:D:149:SER:H	2.10	0.49
2:B:35:ILE:HG22	2:B:358:TYR:HA	1.93	0.49
3:C:431:ILE:HD13	3:C:476:ARG:HD3	1.94	0.49
4:D:131:PRO:HB3	4:D:157:PHE:HB3	1.95	0.49
1:A:355:TYR:N	1:A:362:TYR:O	2.46	0.49
5:E:72:SER:OG	5:E:73:SER:N	2.45	0.49
3:C:385:ASN:O	3:C:389:GLN:HG2	2.13	0.49
5:E:183:THR:O	5:E:230:VAL:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:624:TYR:HD2	1:A:629:GLN:HG2	1.77	0.49
4:D:143:LEU:HB3	4:D:201:LYS:HD3	1.95	0.48
4:D:131:PRO:HB2	4:D:154:LEU:HD12	1.94	0.48
4:D:166:TRP:HA	4:D:212:CYS:HA	1.94	0.48
1:A:55:ASN:HD21	1:A:267:THR:HA	1.79	0.48
1:A:625:CYS:H	1:A:629:GLN:NE2	2.11	0.48
3:C:478:MET:O	3:C:482:THR:HG23	2.14	0.48
1:A:118:CYS:HA	1:A:140:CYS:HA	1.96	0.48
1:A:324:ASP:OD2	1:A:327:THR:OG1	2.32	0.48
1:A:277:LEU:HD23	1:A:279:LYS:H	1.79	0.48
2:B:241:PHE:HE2	2:B:256:ILE:HG12	1.79	0.48
3:C:340:PHE:O	3:C:343:LEU:HD22	2.14	0.48
2:B:166:SER:OG	2:B:167:LEU:N	2.47	0.48
3:C:391:GLU:HG2	3:C:414:HIS:CE1	2.48	0.48
3:C:432:ASN:O	3:C:436:LYS:HD3	2.13	0.48
1:A:226:TYR:CG	1:A:227:GLU:N	2.82	0.47
1:A:644:CYS:SG	1:A:648:SER:OG	2.69	0.47
4:D:139:SER:H	4:D:142:GLN:HG3	1.78	0.47
5:E:46:PHE:CE1	5:E:117:LYS:HD2	2.46	0.47
2:B:93:LEU:HD23	2:B:118:LEU:HD11	1.97	0.47
2:B:97:THR:OG1	2:B:134:HIS:ND1	2.35	0.47
3:C:199:THR:HB	3:C:202:LYS:HZ1	1.79	0.47
1:A:615:ILE:HA	1:A:618:ILE:HD11	1.97	0.47
4:D:179:GLU:HA	4:D:195:SER:HA	1.96	0.47
1:A:363:THR:H	1:A:366:ASP:HB2	1.80	0.47
2:B:138:SER:OG	2:B:143:GLU:O	2.33	0.47
4:D:177:SER:HB2	4:D:197:LEU:HD23	1.96	0.47
3:C:357:ARG:H	3:C:357:ARG:HD2	1.79	0.47
4:D:47:SER:HB2	4:D:109:ARG:HB3	1.97	0.47
2:B:56:TYR:CD2	2:B:114:ILE:HD11	2.51	0.46
3:C:196:LYS:NZ	3:C:197:SER:OG	2.47	0.46
2:B:62:ASN:HB2	2:B:87:TRP:CZ2	2.51	0.46
1:A:454:ASP:OD1	1:A:455:LEU:N	2.49	0.46
3:C:314:LEU:O	3:C:318:ILE:HG12	2.15	0.46
2:B:169:LEU:HD22	2:B:171:ILE:HD13	1.97	0.46
2:B:184:PRO:HB3	3:C:498:ILE:HG21	1.97	0.46
5:E:112:THR:HA	5:E:140:GLU:HA	1.96	0.46
1:A:184:TYR:N	1:A:245:ILE:O	2.49	0.46
1:A:575:GLN:HE22	1:A:612:GLU:HB3	1.81	0.46
2:B:97:THR:HG1	2:B:134:HIS:CE1	2.26	0.46
2:B:275:LYS:HG3	2:B:294:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:196:LYS:O	3:C:199:THR:OG1	2.30	0.46
3:C:452:LYS:HE3	3:C:452:LYS:HB3	1.77	0.46
1:A:685:CYS:HB2	1:A:689:GLN:HG3	1.97	0.46
3:C:189:SER:HB3	3:C:339:LEU:HD11	1.98	0.46
5:E:155:PRO:HB3	5:E:172:CYS:HA	1.98	0.46
1:A:322:TYR:HE1	1:A:618:ILE:HG22	1.80	0.46
3:C:341:GLU:OE2	3:C:341:GLU:N	2.42	0.46
1:A:344:LYS:HZ1	1:A:605:SER:C	2.18	0.46
2:B:253:VAL:HB	2:B:270:ASN:HD22	1.81	0.46
4:D:100:ASP:HB3	4:D:122:LEU:HD23	1.98	0.46
5:E:200:ALA:HA	5:E:210:LEU:HB3	1.98	0.46
5:E:232:HIS:ND1	5:E:234:PRO:HD2	2.31	0.46
1:A:588:LEU:HD13	1:A:631:LEU:HG	1.98	0.45
4:D:97:GLN:OE1	4:D:99:GLU:N	2.49	0.45
5:E:180:GLU:OE2	5:E:181:PRO:HA	2.15	0.45
5:E:57:VAL:HG21	5:E:135:TRP:CZ3	2.52	0.45
1:A:39:SER:HB3	1:A:624:TYR:HA	1.99	0.45
1:A:319:ASN:OD1	1:A:320:CYS:N	2.45	0.45
5:E:191:LEU:HD21	5:E:214:VAL:HG11	1.99	0.45
1:A:652:GLY:HA3	1:A:657:TYR:HA	1.99	0.45
5:E:49:PHE:CZ	5:E:54:MET:HE1	2.52	0.45
1:A:204:LEU:HD11	2:B:312:SER:OG	2.16	0.45
1:A:115:LYS:HE2	1:A:115:LYS:HB2	1.82	0.45
2:B:260:HIS:HB2	2:B:266:PHE:CZ	2.52	0.45
4:D:56:LYS:HD2	4:D:102:ALA:HB2	1.99	0.45
1:A:164:VAL:HG22	1:A:243:GLN:HG2	1.99	0.45
3:C:309:THR:O	3:C:313:LYS:HG2	2.17	0.44
3:C:450:PHE:HB3	3:C:454:GLU:HG2	1.99	0.44
1:A:75:ARG:HH11	1:A:75:ARG:HB3	1.81	0.44
1:A:410:ILE:HG22	1:A:567:ARG:HH12	1.82	0.44
1:A:651:TYR:CD2	1:A:660:PHE:HB2	2.52	0.44
1:A:88:ASN:ND2	1:A:95:ASP:OD2	2.48	0.44
5:E:31:GLN:OE1	5:E:31:GLN:HA	2.18	0.44
5:E:149:LYS:HE3	5:E:149:LYS:HB3	1.78	0.44
1:A:289:THR:OG1	1:A:290:GLN:N	2.51	0.44
5:E:179:PRO:HD2	5:E:232:HIS:HE1	1.81	0.44
1:A:45:ARG:HH21	1:A:273:ASN:HD21	1.65	0.44
1:A:578:GLY:HA3	1:A:650:CYS:O	2.18	0.44
2:B:56:TYR:HB3	2:B:61:TYR:CE1	2.53	0.44
2:B:264:LEU:O	2:B:264:LEU:HD23	2.18	0.44
2:B:104:HIS:NE2	2:B:121:ASP:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:155:PRO:HA	5:E:173:LEU:H	1.81	0.44
1:A:271:GLY:C	1:A:272:PHE:HD2	2.21	0.43
1:A:318:ASN:ND2	1:A:321:GLU:O	2.50	0.43
1:A:412:ALA:N	1:A:430:THR:HG22	2.33	0.43
3:C:211:LYS:HA	3:C:214:ASN:OD1	2.18	0.43
3:C:339:LEU:HA	3:C:342:GLN:HE22	1.83	0.43
4:D:79:ARG:H	4:D:79:ARG:HG3	1.59	0.43
1:A:583:ILE:HD13	1:A:603:LEU:HD23	2.00	0.43
5:E:106:ARG:NE	5:E:108:GLU:OE2	2.42	0.43
1:A:344:LYS:NZ	1:A:345:LYS:HB2	2.34	0.43
1:A:669:TYR:HE2	1:A:672:LYS:HB3	1.83	0.43
3:C:458:ARG:HB3	3:C:462:MET:CE	2.48	0.43
1:A:687:GLN:O	1:A:689:GLN:NE2	2.43	0.43
3:C:367:LEU:HD22	3:C:470:ILE:CD1	2.49	0.43
3:C:192:SER:HA	3:C:343:LEU:HD11	1.99	0.43
2:B:111:VAL:O	2:B:113:GLU:HG3	2.19	0.43
3:C:199:THR:HB	3:C:202:LYS:NZ	2.33	0.43
4:D:213:GLU:OE1	4:D:224:THR:OG1	2.25	0.43
1:A:51:ASP:OD2	1:A:276:GLU:HB3	2.18	0.43
2:B:271:ARG:HD2	2:B:271:ARG:HA	1.87	0.43
3:C:231:LEU:HD13	3:C:310:LYS:HB2	1.99	0.43
3:C:330:MET:SD	3:C:334:ASN:ND2	2.92	0.43
3:C:470:ILE:HD13	3:C:470:ILE:HA	1.88	0.43
4:D:135:ILE:HA	4:D:152:CYS:HA	2.01	0.43
5:E:184:VAL:HA	5:E:230:VAL:HG22	2.00	0.43
1:A:393:LYS:HE2	1:A:393:LYS:HB3	1.92	0.42
3:C:345:CYS:HB2	3:C:351:CYS:HB3	1.88	0.42
4:D:122:LEU:HD12	4:D:122:LEU:HA	1.81	0.42
5:E:167:THR:HA	5:E:217:PRO:HA	2.01	0.42
1:A:383:LYS:HG2	1:A:405:PHE:CE2	2.55	0.42
1:A:40:LEU:HB3	1:A:625:CYS:HB2	2.01	0.42
1:A:679:ASP:HB2	1:A:681:GLU:OE2	2.19	0.42
1:A:581:ILE:HG12	1:A:610:LEU:O	2.19	0.42
1:A:597:LEU:HD22	1:A:598:LEU:H	1.84	0.42
1:A:663:ASN:HA	1:A:664:PRO:HA	1.88	0.42
4:D:167:LYS:HD2	4:D:167:LYS:HA	1.79	0.42
1:A:143:PHE:HA	1:A:148:ILE:HG22	2.01	0.42
3:C:181:PHE:CZ	3:C:185:TYR:HE2	2.38	0.42
4:D:200:SER:OG	4:D:203:ASP:OD1	2.25	0.42
1:A:340:ILE:HG21	1:A:345:LYS:HZ1	1.84	0.42
3:C:308:ASN:O	3:C:312:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:494:PHE:HD1	3:C:494:PHE:HA	1.76	0.42
1:A:41:ASP:OD1	1:A:43:ARG:HG2	2.20	0.42
3:C:443:LYS:O	3:C:443:LYS:NZ	2.35	0.42
4:D:39:LYS:HE3	4:D:39:LYS:HB3	1.43	0.42
5:E:227:ILE:HD12	5:E:227:ILE:HA	1.97	0.42
4:D:56:LYS:HD2	4:D:56:LYS:HA	1.75	0.41
5:E:195:VAL:HG22	5:E:214:VAL:HG22	2.02	0.41
3:C:427:HIS:CE1	3:C:475:LEU:HD13	2.54	0.41
3:C:446:ILE:HG13	3:C:447:TRP:N	2.35	0.41
3:C:459:ILE:O	3:C:463:SER:OG	2.24	0.41
5:E:200:ALA:HB2	5:E:210:LEU:HD23	2.01	0.41
1:A:69:VAL:HG23	1:A:168:THR:HG21	2.02	0.41
1:A:380:LYS:HB3	1:A:382:TYR:CE1	2.55	0.41
3:C:185:TYR:HA	3:C:188:LEU:CD2	2.51	0.41
3:C:232:ILE:HA	3:C:235:ILE:HG22	2.02	0.41
5:E:58:ARG:O	5:E:66:GLU:N	2.50	0.41
1:A:225:LYS:HE2	1:A:225:LYS:HB3	1.84	0.41
2:B:196:ILE:O	2:B:214:ILE:HB	2.20	0.41
4:D:184:GLN:HE21	4:D:189:SER:HB3	1.85	0.41
4:D:97:GLN:OE1	4:D:98:ALA:N	2.54	0.41
4:D:158:TYR:CD1	4:D:159:PRO:HA	2.55	0.41
1:A:445:TYR:OH	1:A:455:LEU:HG	2.20	0.41
1:A:91:MET:HA	1:A:91:MET:CE	2.51	0.41
1:A:574:LEU:HD12	1:A:635:TYR:CD2	2.55	0.41
1:A:708:LYS:NZ	1:A:716:PRO:HA	2.36	0.41
2:B:256:ILE:HG22	2:B:270:ASN:HA	2.02	0.41
1:A:294:SER:H	1:A:297:GLN:HE21	1.67	0.41
1:A:694:LEU:HD12	1:A:696:ASN:CG	2.41	0.41
2:B:197:LEU:HD12	2:B:197:LEU:HA	1.85	0.41
2:B:282:ASP:OD1	2:B:283:VAL:N	2.53	0.41
3:C:501:LEU:O	3:C:505:PHE:HB2	2.21	0.41
1:A:64:TYR:CE1	1:A:153:ILE:HG23	2.53	0.41
2:B:52:MET:HE2	2:B:52:MET:HB2	1.94	0.41
2:B:127:ARG:NH1	2:B:157:LYS:O	2.43	0.41
2:B:155:ILE:H	2:B:155:ILE:HG12	1.56	0.41
1:A:357:HIS:HB3	1:A:362:TYR:CE1	2.56	0.41
1:A:363:THR:N	1:A:366:ASP:HB2	2.36	0.41
2:B:286:LEU:HD13	2:B:340:ALA:HB2	2.03	0.41
3:C:357:ARG:HD2	3:C:357:ARG:N	2.36	0.41
3:C:451:GLN:O	3:C:454:GLU:N	2.54	0.41
4:D:27:PRO:O	4:D:120:THR:OG1	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:142:GLN:HE22	4:D:149:SER:H	1.68	0.41
5:E:31:GLN:O	5:E:143:VAL:HA	2.20	0.41
1:A:75:ARG:HG2	1:A:148:ILE:HG23	2.02	0.40
1:A:146:THR:HG23	1:A:147:HIS:ND1	2.36	0.40
3:C:227:ILE:HD13	3:C:317:CYS:SG	2.61	0.40
3:C:424:ILE:HG13	3:C:476:ARG:HG3	2.03	0.40
3:C:434:LYS:O	3:C:438:ILE:HD13	2.21	0.40
1:A:192:VAL:HG11	1:A:200:GLN:HA	2.02	0.40
1:A:442:LYS:HE3	1:A:442:LYS:HB3	1.82	0.40
2:B:49:ILE:O	3:C:508:VAL:HG13	2.21	0.40
3:C:176:ILE:O	3:C:180:THR:OG1	2.33	0.40
3:C:185:TYR:O	3:C:188:LEU:HD23	2.21	0.40
1:A:421:PHE:HA	1:A:424:ASN:OD1	2.22	0.40
3:C:310:LYS:HZ3	3:C:310:LYS:HG2	1.81	0.40
5:E:171:GLY:HA2	5:E:186:TRP:HZ2	1.86	0.40
3:C:236:LYS:HD2	3:C:236:LYS:HA	1.85	0.40
3:C:393:LEU:HA	3:C:393:LEU:HD12	1.80	0.40
1:A:58:GLY:HA3	1:A:270:TYR:HA	2.04	0.40
1:A:624:TYR:CD2	1:A:625:CYS:HB3	2.57	0.40
3:C:239:GLU:HB2	3:C:409:THR:HG23	2.03	0.40
3:C:497:LEU:HD23	3:C:497:LEU:HA	1.95	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	584/1070 (55%)	540 (92%)	44 (8%)	0	100	100
2	B	324/343 (94%)	302 (93%)	22 (7%)	0	100	100
3	C	292/502 (58%)	288 (99%)	4 (1%)	0	100	100
4	D	205/207 (99%)	198 (97%)	7 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	E	210/226 (93%)	196 (93%)	14 (7%)	0	100	100
All	All	1615/2348 (69%)	1524 (94%)	91 (6%)	0	100	100

There are no Ramachandran outliers to report.

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	555/1011 (55%)	511 (92%)	44 (8%)	12	41
2	B	305/316 (96%)	283 (93%)	22 (7%)	14	45
3	C	287/486 (59%)	259 (90%)	28 (10%)	8	30
4	D	177/177 (100%)	168 (95%)	9 (5%)	24	60
5	E	173/181 (96%)	160 (92%)	13 (8%)	13	43
All	All	1497/2171 (69%)	1381 (92%)	116 (8%)	16	42

All (116) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	37	THR
1	A	45	ARG
1	A	53	ILE
1	A	54	LEU
1	A	61	ASP
1	A	115	LYS
1	A	176	ASP
1	A	184	TYR
1	A	217	CYS
1	A	219	PHE
1	A	225	LYS
1	A	250	LEU
1	A	254	GLU
1	A	255	MET

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Mol	Chain	Res	Type
1	A	270	TYR
1	A	274	LYS
1	A	293	CYS
1	A	322	TYR
1	A	326	CYS
1	A	330	ASN
1	A	345	LYS
1	A	350	CYS
1	A	377	LYS
1	A	383	LYS
1	A	408	GLU
1	A	421	PHE
1	A	426	LEU
1	A	434	LYS
1	A	436	MET
1	A	438	ASP
1	A	466	THR
1	A	471	ASP
1	A	476	PHE
1	A	558	MET
1	A	568	SER
1	A	575	GLN
1	A	577	GLN
1	A	606	TYR
1	A	621	PHE
1	A	625	CYS
1	A	635	TYR
1	A	644	CYS
1	A	702	GLN
1	A	708	LYS
2	B	36	ARG
2	B	52	MET
2	B	87	TRP
2	B	133	CYS
2	B	134	HIS
2	B	142	LYS
2	B	148	GLU
2	B	154	TYR
2	B	155	ILE
2	B	167	LEU
2	B	192	LYS
2	B	195	ASP

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Mol	Chain	Res	Type
2	B	202	HIS
2	B	227	PHE
2	B	278	LYS
2	B	288	ASP
2	B	309	ASN
2	B	311	ASN
2	B	312	SER
2	B	320	TYR
2	B	327	CYS
2	B	339	ARG
3	C	167	LYS
3	C	180	THR
3	C	186	LYS
3	C	195	HIS
3	C	203	TYR
3	C	217	TYR
3	C	238	LEU
3	C	304	MET
3	C	316	LYS
3	C	317	CYS
3	C	321	HIS
3	C	330	MET
3	C	357	ARG
3	C	366	LYS
3	C	390	SER
3	C	418	LYS
3	C	436	LYS
3	C	448	ARG
3	C	452	LYS
3	C	462	MET
3	C	485	SER
3	C	489	HIS
3	C	494	PHE
3	C	504	LYS
3	C	508	VAL
3	C	512	MET
3	C	513	GLU
3	C	515	PHE
4	D	39	LYS
4	D	81	SER
4	D	88	THR
4	D	90	THR

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Mol	Chain	Res	Type
4	D	136	PHE
4	D	160	ARG
4	D	185	ASP
4	D	188	ASP
4	D	195	SER
5	E	44	SER
5	E	47	PHE
5	E	57	VAL
5	E	72	SER
5	E	77	THR
5	E	84	LYS
5	E	90	SER
5	E	126	SER
5	E	148	THR
5	E	149	LYS
5	E	186	TRP
5	E	210	LEU
5	E	235	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	181	GLN
1	A	285	ASN
1	A	376	HIS
1	A	388	GLN
1	A	577	GLN
1	A	627	ASN
1	A	629	GLN
2	B	287	ASN
2	B	311	ASN
3	C	159	ASN
3	C	352	ASN
3	C	477	GLN
4	D	68	ASN
4	D	142	GLN
5	E	59	GLN

5.3.3 RNA

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](#)

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-16569. These allow visual inspection of the internal detail of the map and identification of artifacts.

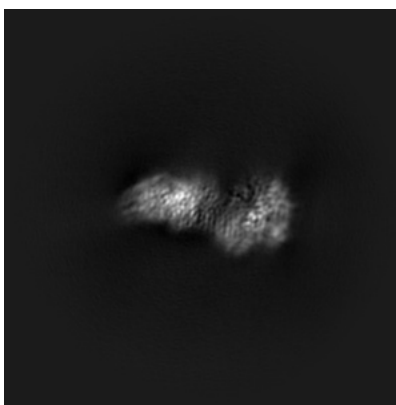
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

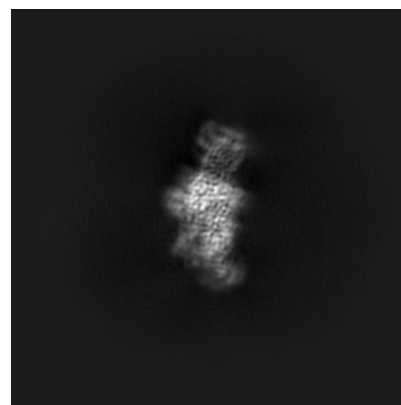
6.1.1 Primary map



X



Y

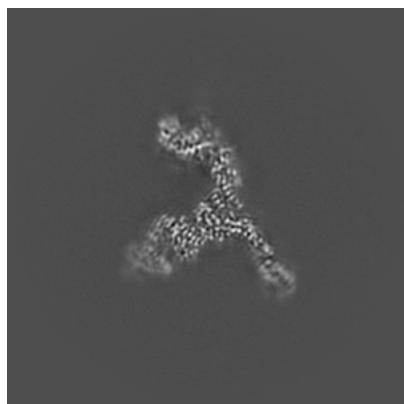


Z

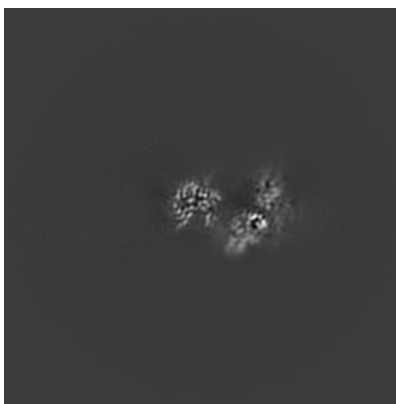
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

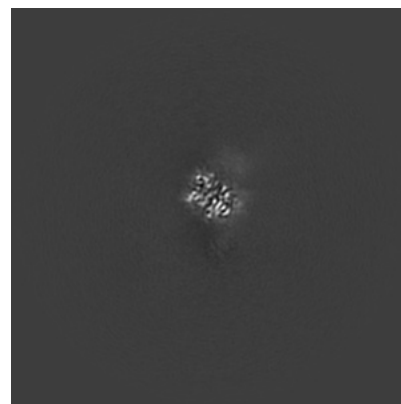
6.2.1 Primary map



X Index: 208



Y Index: 208

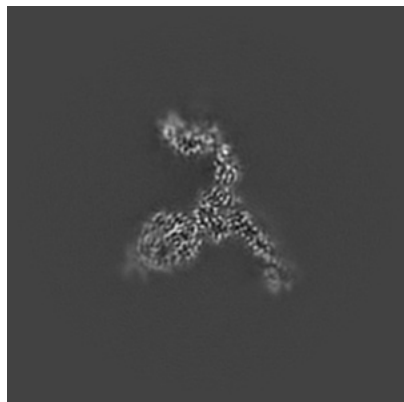


Z Index: 208

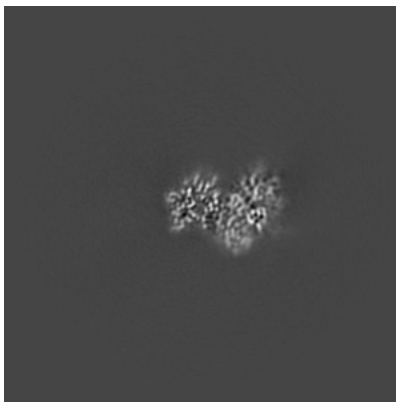
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

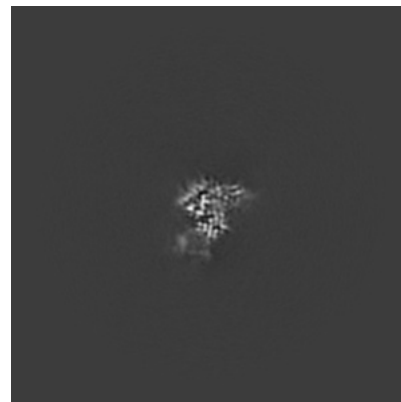
6.3.1 Primary map



X Index: 214



Y Index: 219



Z Index: 266

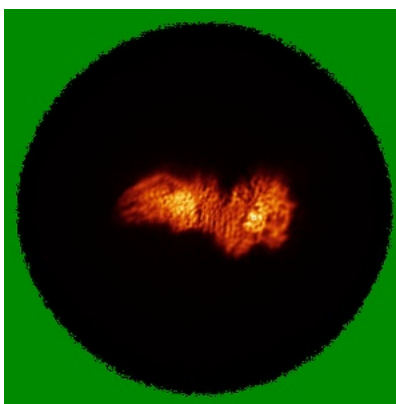
The images above show the largest variance slices of the map in three orthogonal directions.

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

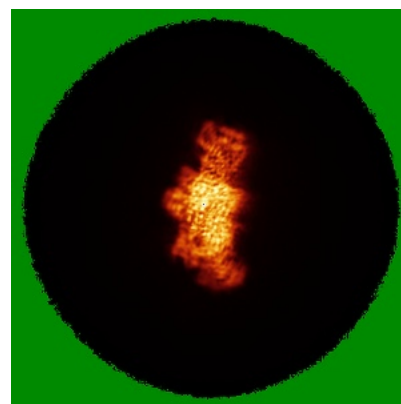
6.4.1 Primary map



X



Y



Z

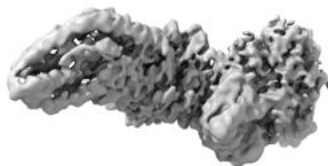
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

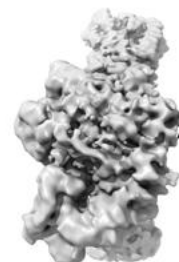
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 8.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

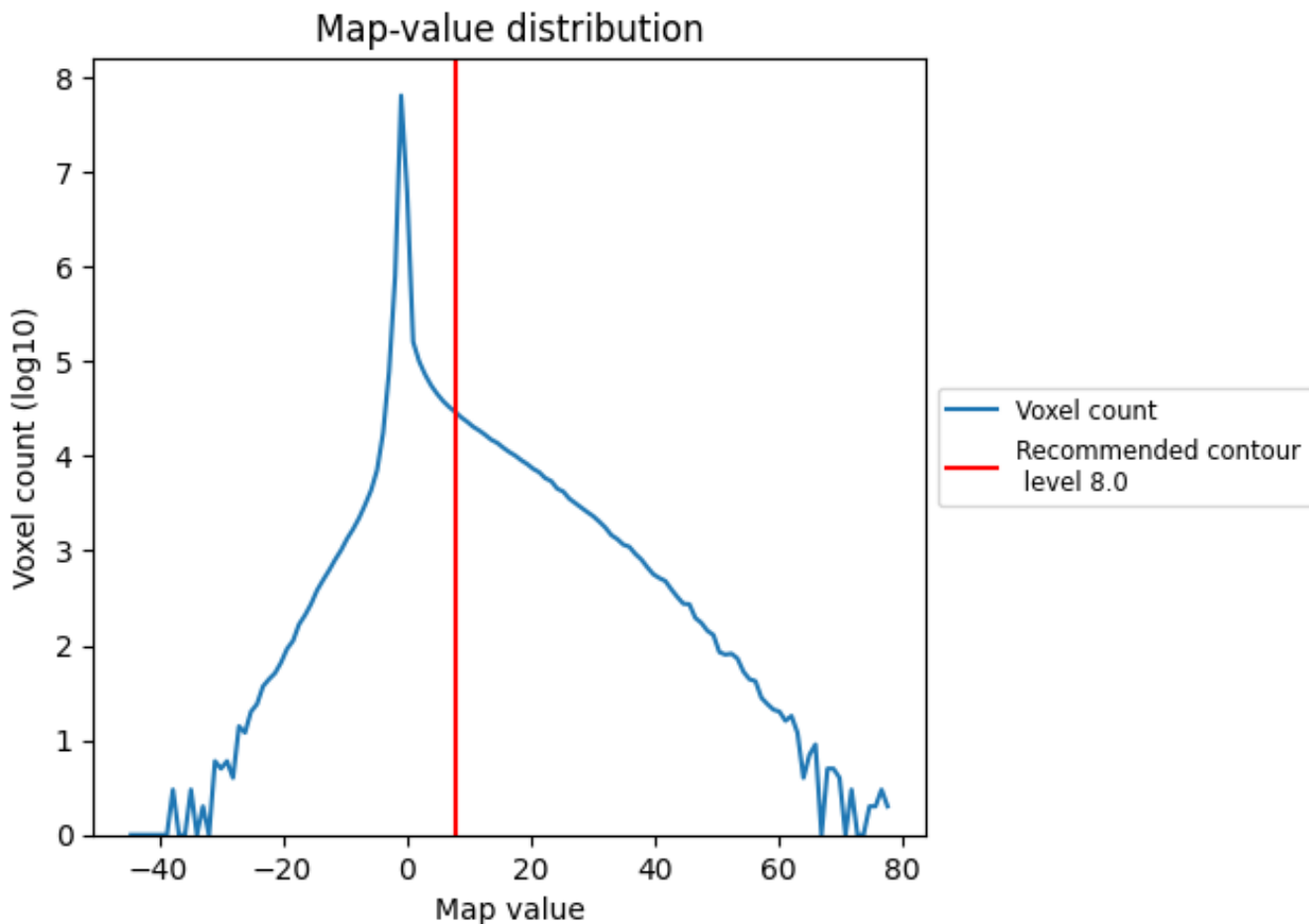
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

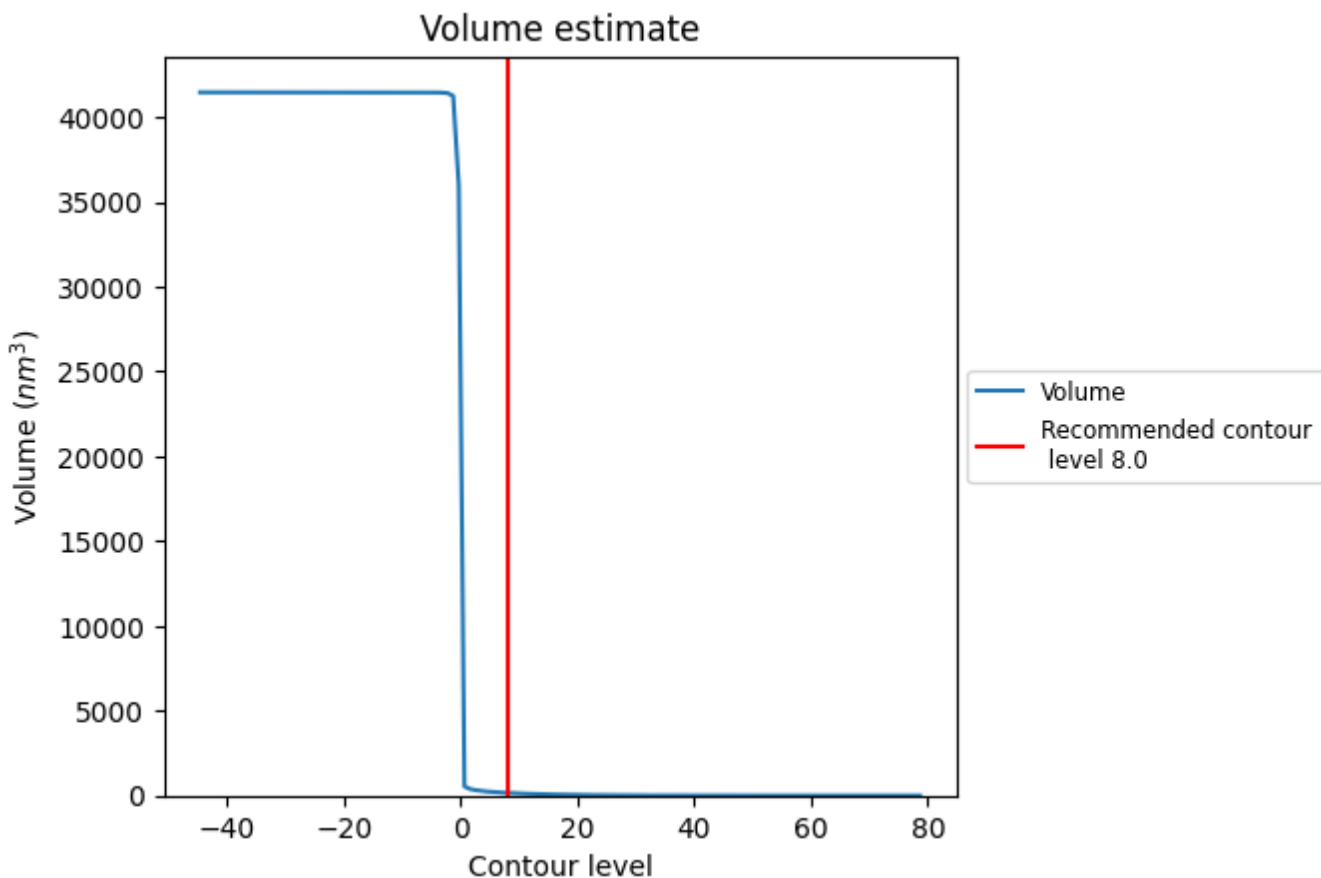
This section contains the results of statistical analysis of the map.

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.

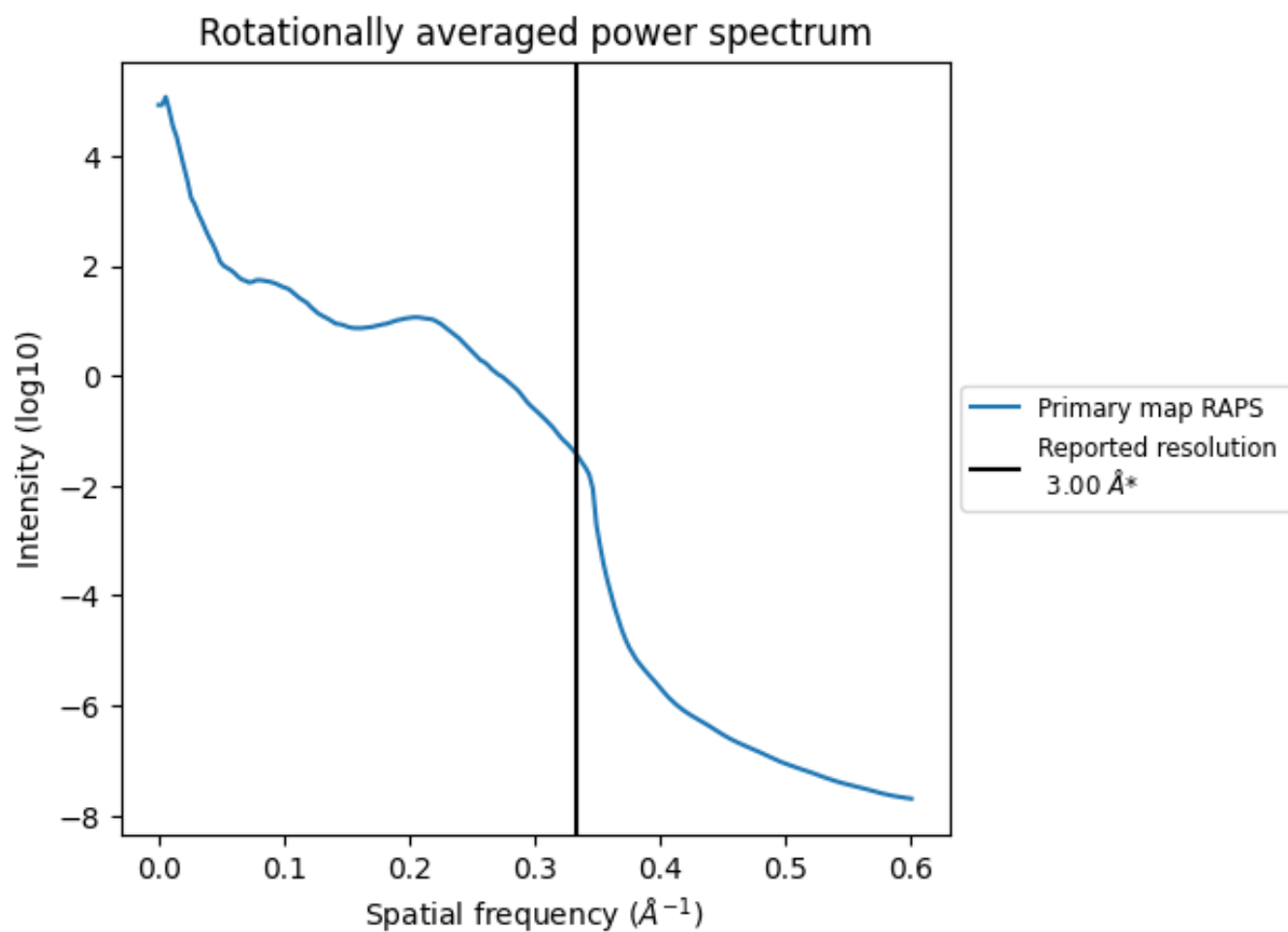
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 157 nm^3 ; this corresponds to an approximate mass of 142 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 0.333 Å⁻¹

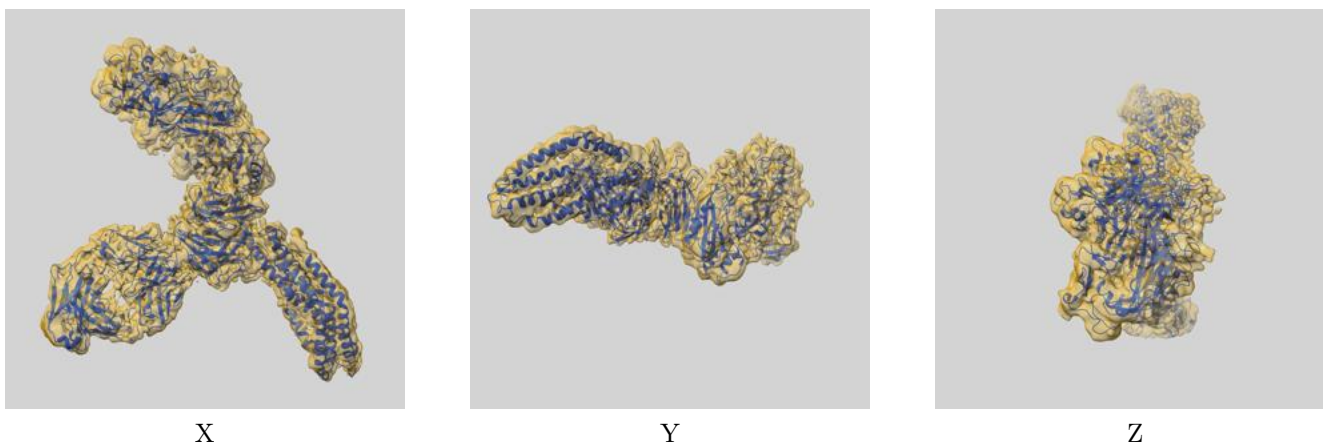
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

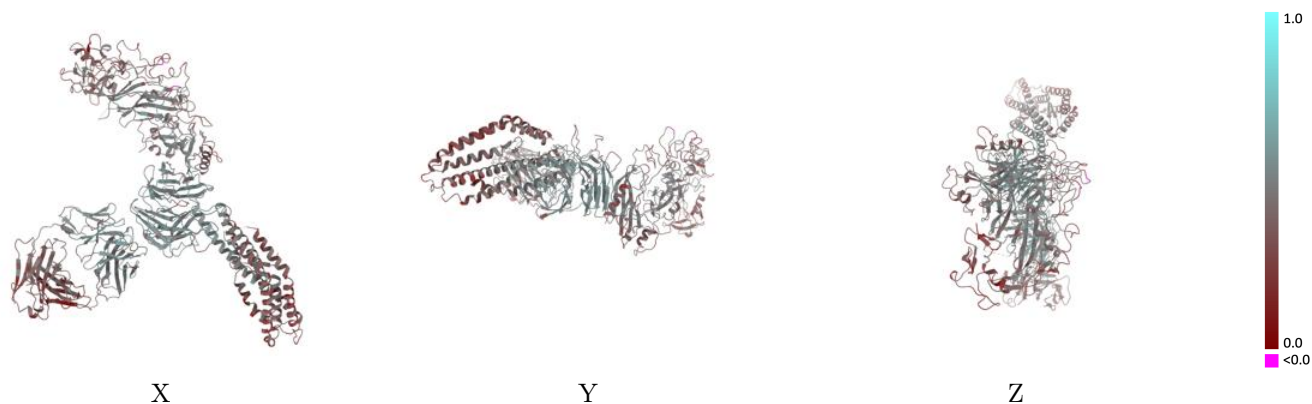
This section contains information regarding the fit between EMDB map EMD-16569 and PDB model 8CDD. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



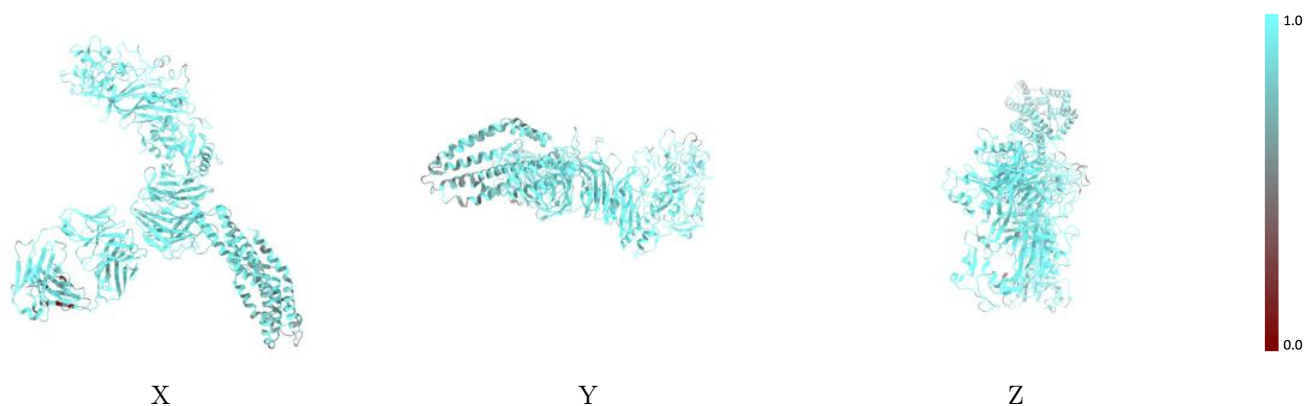
The images above show the 3D surface view of the map at the recommended contour level 8.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



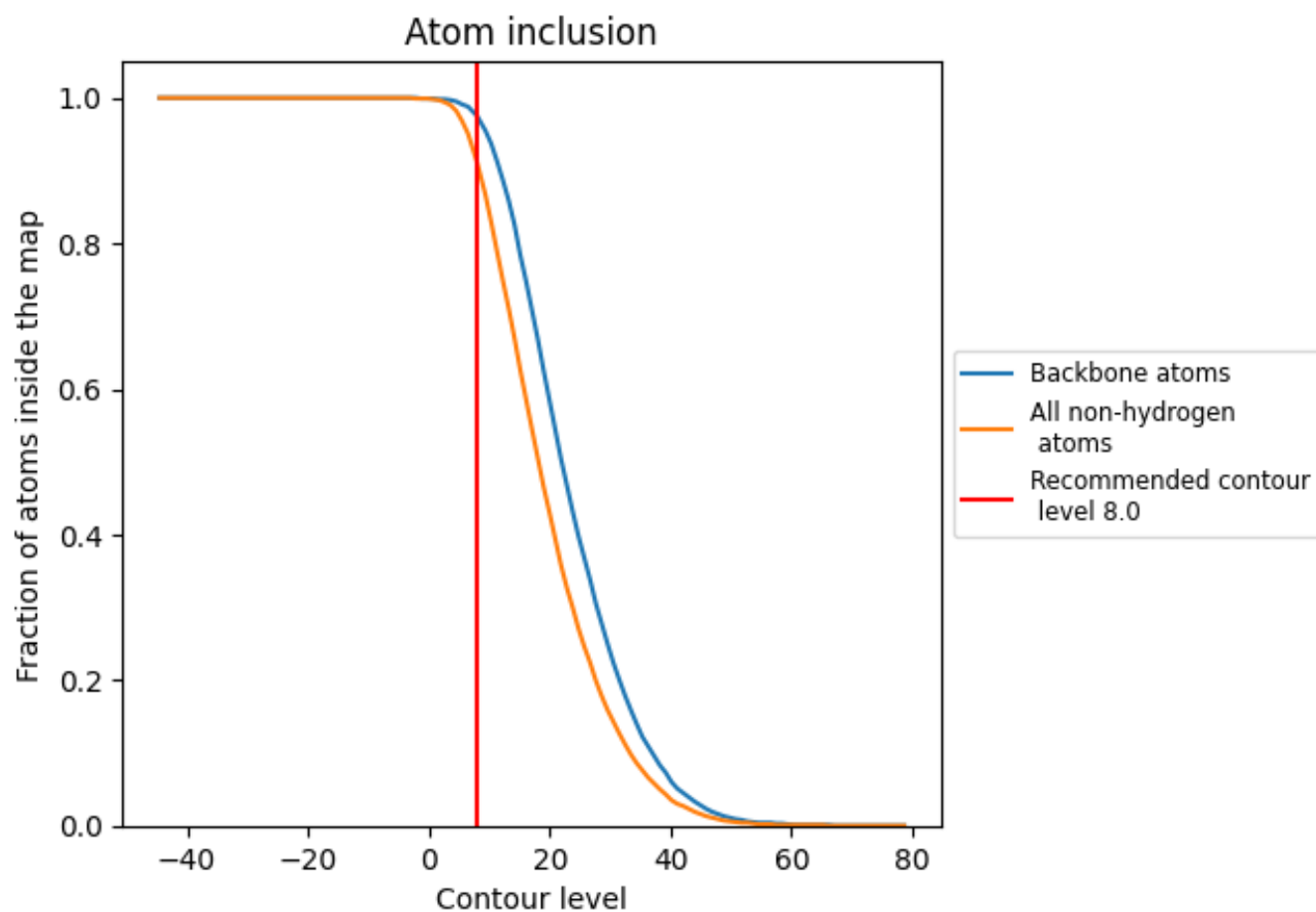
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (8.0).













9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 91% 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 (8.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9110	 0.4250
A	 0.9460	 0.3970
B	 0.9310	 0.5090
C	 0.8290	 0.3890
D	 0.9290	 0.4340
E	 0.8830	 0.4160

