



Full wwPDB EM Validation Report ⓘ

Jun 16, 2025 – 04:45 PM JST

PDB ID : 7E6U / pdb_00007e6u
EMDB ID : EMD-30997
Title : the complex of inactive CaSR and NB2D11
Authors : Geng, Y.; Chen, X.C.; Wang, L.; Cui, Q.Q.; Ding, Z.Y.; Han, L.; Kou, Y.J.;
Zhang, W.Q.; Wang, H.N.; Jia, X.M.; Dai, M.; Shi, Z.Z.; Li, Y.Y.; Li, X.Y.
Deposited on : 2021-02-24
Resolution : 6.00 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:

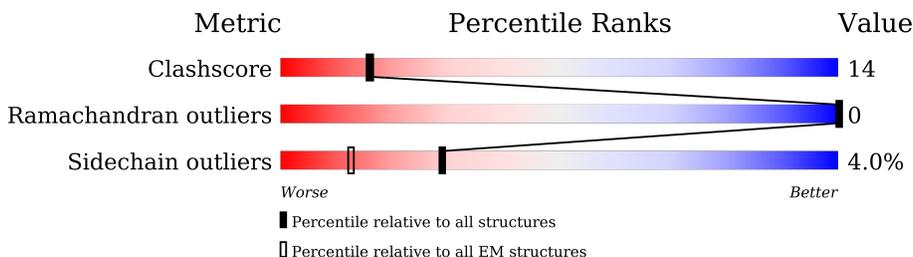
EMDB validation analysis : 0.0.1.dev118
MolProbity : 4-5-2 with Phenix2.0rc1
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.44

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 6.00 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	862	 12% 58% 30% 10%
1	C	862	 1% 58% 30% 10%
2	B	143	 1% 63% 23% 14%
2	D	143	 1% 65% 22% 13%

2 Entry composition i

There are 2 unique types of molecules in this entry. The entry contains 14228 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 Extracellular calcium-sensing receptor.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	773	6164	4017	998	1115	34	0	0
1	C	773	6164	4017	998	1115	34	0	0

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	871	ALA	-	expression tag	UNP P41180
A	872	ALA	-	expression tag	UNP P41180
A	873	ALA	-	expression tag	UNP P41180
A	874	ASP	-	expression tag	UNP P41180
A	875	TYR	-	expression tag	UNP P41180
A	876	LYS	-	expression tag	UNP P41180
A	877	ASP	-	expression tag	UNP P41180
A	878	ASP	-	expression tag	UNP P41180
A	879	ASP	-	expression tag	UNP P41180
A	880	ASP	-	expression tag	UNP P41180
A	881	LYS	-	expression tag	UNP P41180
C	871	ALA	-	expression tag	UNP P41180
C	872	ALA	-	expression tag	UNP P41180
C	873	ALA	-	expression tag	UNP P41180
C	874	ASP	-	expression tag	UNP P41180
C	875	TYR	-	expression tag	UNP P41180
C	876	LYS	-	expression tag	UNP P41180
C	877	ASP	-	expression tag	UNP P41180
C	878	ASP	-	expression tag	UNP P41180
C	879	ASP	-	expression tag	UNP P41180
C	880	ASP	-	expression tag	UNP P41180
C	881	LYS	-	expression tag	UNP P41180

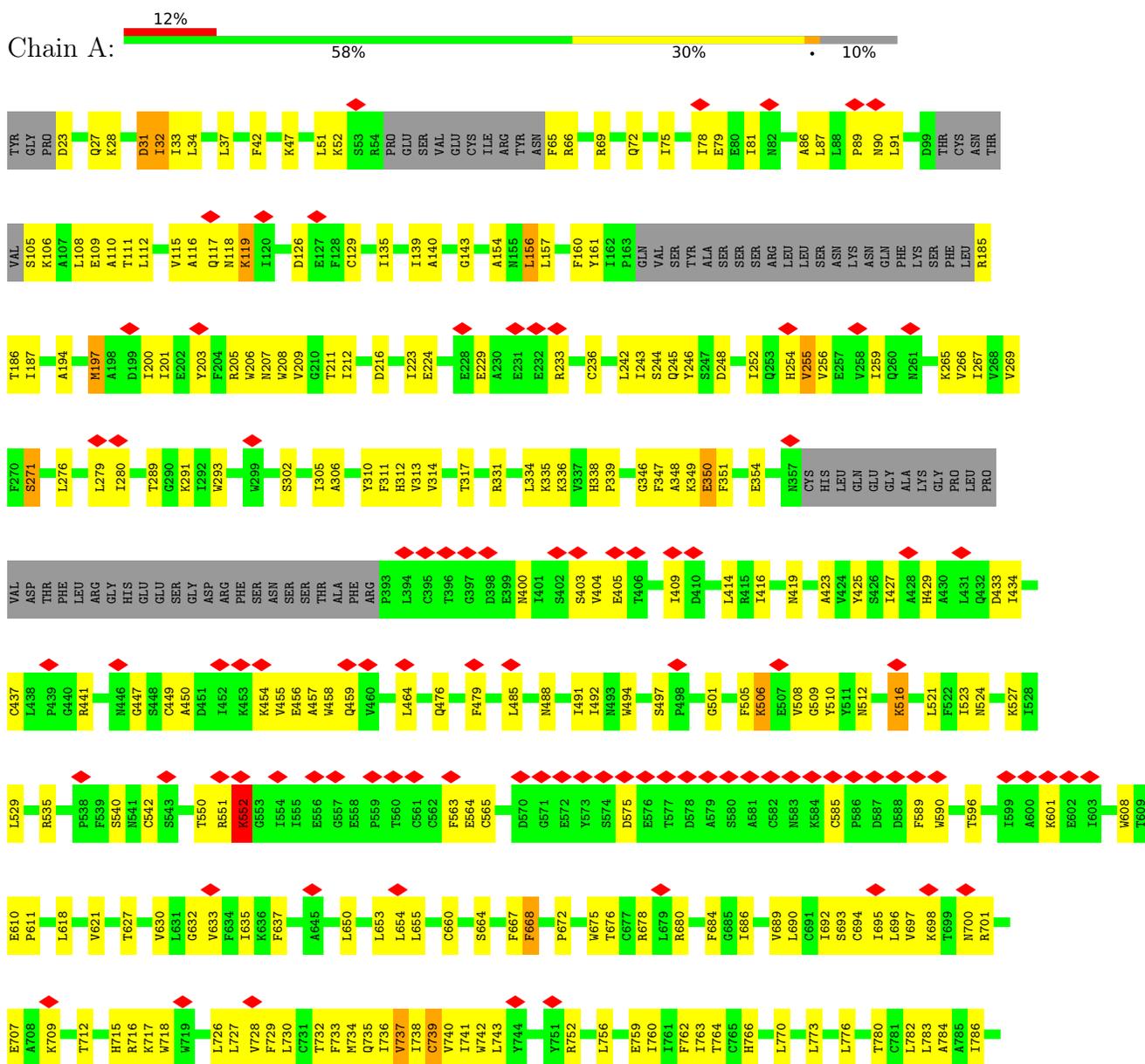
- Molecule 2 is a protein called NB-2D11.

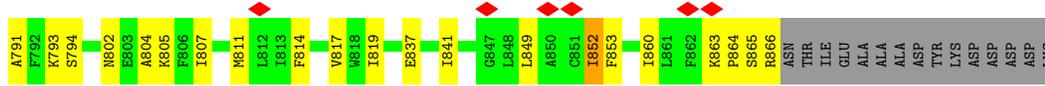
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	D	124	953	594	166	188	5	0	0
2	B	123	947	591	165	186	5	0	0

3 Residue-property plots

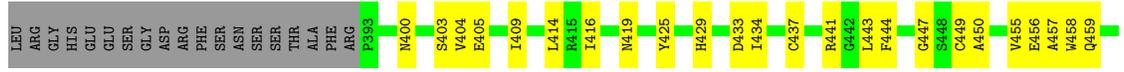
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Extracellular calcium-sensing receptor





• Molecule 1: Extracellular calcium-sensing receptor



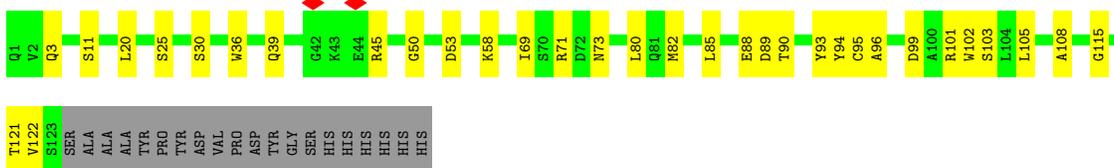
LYS

• Molecule 2: NB-2D11



TYR
ASP
VAL
PRO
ASP
TYR
GLY
SER
HIS
HIS
HIS
HIS
HIS

● Molecule 2: NB-2D11



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	1215058	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 ($e^-/\text{\AA}^2$)	70	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.049	Depositor
Minimum map value	-0.001	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.0104	Depositor
Map size (Å)	353.6, 353.6, 353.6	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.105, 1.105, 1.105	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	0.23	0/6324	0.53	2/8577 (0.0%)
1	C	0.23	0/6324	0.53	1/8577 (0.0%)
2	B	0.19	0/966	0.39	0/1303
2	D	0.25	0/972	0.47	0/1311
All	All	0.23	0/14586	0.52	3/19768 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	552	LYS	N-CA-C	-7.16	99.61	110.70
1	A	78	ILE	N-CA-C	-6.35	102.94	111.44
1	A	552	LYS	CA-C-O	-5.29	116.02	122.64

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	6164	0	6072	179	0
1	C	6164	0	6072	181	0
2	B	947	0	909	22	0
2	D	953	0	914	25	0
All	All	14228	0	13967	401	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 (401) 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:C:491:ILE:HB	1:C:509:GLY:HA3	1.58	0.86
1:A:491:ILE:HB	1:A:509:GLY:HA3	1.58	0.86
1:C:692:ILE:HD11	1:C:784:ALA:HB2	1.65	0.78
1:A:692:ILE:HD11	1:A:784:ALA:HB2	1.65	0.77
2:D:60:GLU:HG2	2:D:63:VAL:HG23	1.66	0.76
2:B:90:THR:HG23	2:B:121:THR:HA	1.78	0.65
1:C:116:ALA:H	1:C:119:LYS:HD2	1.64	0.63
1:A:552:LYS:HB3	1:A:563:PHE:CD2	2.33	0.63
1:C:783:LEU:HD23	1:C:786:ILE:HD12	1.81	0.63
2:B:94:TYR:HE1	2:B:115:GLY:H	1.44	0.62
1:A:783:LEU:HD23	1:A:786:ILE:HD12	1.81	0.62
1:A:197:MET:O	1:A:201:ILE:HG12	1.99	0.62
1:A:550:THR:HG21	1:A:565:CYS:HB2	1.82	0.62
1:C:608:TRP:HB3	1:C:610:GLU:HG3	1.81	0.62
1:C:197:MET:O	1:C:201:ILE:HG12	1.99	0.62
1:C:550:THR:HG21	1:C:565:CYS:HB2	1.82	0.62
1:A:608:TRP:HB3	1:A:610:GLU:HG3	1.81	0.61
1:A:675:TRP:HA	1:A:678:ARG:HE	1.65	0.61
1:A:116:ALA:H	1:A:119:LYS:HD2	1.64	0.61
1:C:346:GLY:HA2	1:C:349:LYS:HE2	1.82	0.61
2:B:58:LYS:HE2	2:B:102:TRP:HB2	1.82	0.61
2:D:6:GLU:OE1	2:D:116:GLN:NE2	2.34	0.61
1:C:675:TRP:HA	1:C:678:ARG:HE	1.65	0.61
1:C:265:LYS:HE3	1:C:291:LYS:HA	1.83	0.60
1:A:346:GLY:HA2	1:A:349:LYS:HE2	1.82	0.60
1:A:727:LEU:HD23	1:A:730:LEU:HD21	1.83	0.60
1:A:804:ALA:HA	1:A:807:ILE:HD12	1.84	0.60
1:A:207:ASN:OD1	1:A:208:TRP:N	2.33	0.60
1:A:265:LYS:HE3	1:A:291:LYS:HA	1.83	0.60
1:C:727:LEU:HD23	1:C:730:LEU:HD21	1.83	0.60
1:C:804:ALA:HA	1:C:807:ILE:HD12	1.84	0.60
2:D:63:VAL:HG13	2:D:67:PHE:HB2	1.83	0.60
1:C:660:CYS:SG	1:C:690:LEU:HD11	2.42	0.60
1:A:246:TYR:O	2:B:101:ARG:NH2	2.35	0.60
1:C:650:LEU:HB3	1:C:698:LYS:HE3	1.84	0.59
1:C:434:ILE:HD13	1:C:459:GLN:HG2	1.83	0.59
1:A:650:LEU:HB3	1:A:698:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:207:ASN:OD1	1:C:208:TRP:N	2.33	0.59
1:A:208:TRP:HB3	1:A:236:CYS:HB3	1.83	0.59
1:A:434:ILE:HD13	1:A:459:GLN:HG2	1.83	0.59
1:A:524:ASN:HD21	1:A:527:LYS:HE3	1.67	0.59
1:A:660:CYS:SG	1:A:690:LEU:HD11	2.42	0.59
1:C:208:TRP:HB3	1:C:236:CYS:HB3	1.83	0.59
1:C:601:LYS:NZ	1:C:759:GLU:OE1	2.34	0.59
1:C:524:ASN:HD21	1:C:527:LYS:HE3	1.67	0.59
1:A:735:GLN:HE21	1:A:776:LEU:HD13	1.68	0.58
2:D:101:ARG:H	2:D:104:LEU:HB2	1.67	0.58
1:A:692:ILE:HA	1:A:695:ILE:HD12	1.85	0.58
2:B:20:LEU:HB3	2:B:80:LEU:HB2	1.86	0.58
1:C:735:GLN:HE21	1:C:776:LEU:HD13	1.68	0.58
1:C:692:ILE:HA	1:C:695:ILE:HD12	1.85	0.57
1:C:697:VAL:HA	1:C:700:ASN:HD21	1.70	0.57
2:B:45:ARG:NH1	2:B:108:ALA:O	2.37	0.57
1:C:863:LYS:NZ	1:C:866:ARG:O	2.36	0.57
1:A:863:LYS:NZ	1:A:866:ARG:O	2.36	0.57
1:A:709:LYS:HE3	1:A:709:LYS:HA	1.87	0.56
2:D:17:SER:HA	2:D:82:MET:O	2.05	0.56
1:A:727:LEU:O	1:A:730:LEU:HG	2.05	0.56
1:C:28:LYS:HE3	1:C:34:LEU:HB2	1.87	0.56
1:C:709:LYS:HE3	1:C:709:LYS:HA	1.88	0.56
1:A:28:LYS:HE3	1:A:34:LEU:HB2	1.87	0.56
1:A:697:VAL:HA	1:A:700:ASN:HD21	1.70	0.56
1:A:756:LEU:HB3	1:A:760:ILE:HD13	1.87	0.56
1:C:727:LEU:O	1:C:730:LEU:HG	2.05	0.56
1:A:668:PHE:HE2	1:A:837:GLU:HG2	1.71	0.56
1:C:756:LEU:HB3	1:C:760:ILE:HD13	1.87	0.56
1:A:668:PHE:CE2	1:A:837:GLU:HG2	2.41	0.56
1:C:200:ILE:HA	1:C:203:TYR:CE1	2.41	0.56
1:C:289:THR:HG22	1:C:313:VAL:HG22	1.87	0.56
1:C:668:PHE:CE2	1:C:837:GLU:HG2	2.41	0.56
1:A:752:ARG:NH1	1:A:762:PHE:O	2.37	0.55
1:C:31:ASP:OD1	1:C:90:ASN:ND2	2.39	0.55
1:C:302:SER:HA	1:C:305:ILE:HG12	1.88	0.55
1:C:347:PHE:HA	1:C:350:GLU:HG2	1.87	0.55
1:A:31:ASP:OD1	1:A:90:ASN:ND2	2.39	0.55
1:A:187:ILE:HD11	1:A:416:ILE:HG22	1.88	0.55
1:A:81:ILE:HG12	1:A:87:LEU:HD23	1.88	0.55
1:A:208:TRP:HE1	1:A:542:CYS:HB2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:SER:HA	1:A:305:ILE:HG12	1.88	0.55
1:A:730:LEU:HA	1:A:733:PHE:CD2	2.42	0.55
1:A:65:PHE:O	1:A:69:ARG:NH1	2.39	0.55
1:A:289:THR:HG22	1:A:313:VAL:HG22	1.87	0.55
1:A:347:PHE:HA	1:A:350:GLU:HG2	1.87	0.55
1:C:81:ILE:HG12	1:C:87:LEU:HD23	1.88	0.55
1:C:730:LEU:HA	1:C:733:PHE:CD2	2.42	0.55
1:C:65:PHE:O	1:C:69:ARG:NH1	2.39	0.55
1:C:208:TRP:HE1	1:C:542:CYS:HB2	1.71	0.55
1:A:34:LEU:HD12	1:A:140:ALA:HB2	1.88	0.54
1:A:200:ILE:HA	1:A:203:TYR:CE1	2.41	0.54
1:A:601:LYS:NZ	1:A:759:GLU:OE1	2.34	0.54
1:A:66:ARG:HH21	1:A:334:LEU:HD23	1.72	0.54
1:C:668:PHE:HE2	1:C:837:GLU:HG2	1.71	0.54
1:C:66:ARG:HH21	1:C:334:LEU:HD23	1.72	0.54
1:C:187:ILE:HD11	1:C:416:ILE:HG22	1.88	0.54
1:C:752:ARG:NH1	1:C:762:PHE:O	2.37	0.54
1:C:34:LEU:HD12	1:C:140:ALA:HB2	1.88	0.54
1:A:492:ILE:HD12	1:A:505:PHE:HB3	1.90	0.54
1:A:630:VAL:HA	1:A:633:VAL:HG22	1.89	0.54
1:A:770:LEU:HB3	1:A:773:LEU:HB3	1.90	0.54
1:A:863:LYS:HD3	1:A:865:SER:HB3	1.89	0.54
1:C:492:ILE:HD12	1:C:505:PHE:HB3	1.90	0.54
1:C:863:LYS:HD3	1:C:865:SER:HB3	1.89	0.54
2:B:36:TRP:HE1	2:B:93:TYR:HB3	1.74	0.53
1:C:488:ASN:HD22	1:C:510:TYR:HE1	1.56	0.53
1:A:206:TRP:CD2	1:A:540:SER:HB3	2.43	0.53
1:A:255:VAL:O	1:A:259:ILE:HG12	2.09	0.53
1:A:488:ASN:HD22	1:A:510:TYR:HE1	1.56	0.53
1:C:243:ILE:HG21	1:C:279:LEU:HD21	1.90	0.53
1:A:243:ILE:HG21	1:A:279:LEU:HD21	1.90	0.53
1:A:161:TYR:OH	1:A:457:ALA:O	2.27	0.53
1:C:116:ALA:N	1:C:119:LYS:HD2	2.23	0.53
1:C:161:TYR:OH	1:C:457:ALA:O	2.27	0.53
1:C:206:TRP:CD2	1:C:540:SER:HB3	2.43	0.53
1:C:770:LEU:HB3	1:C:773:LEU:HB3	1.90	0.53
1:A:116:ALA:N	1:A:119:LYS:HD2	2.23	0.53
1:C:630:VAL:HA	1:C:633:VAL:HG22	1.89	0.53
1:C:449:CYS:HB2	1:C:455:VAL:HG11	1.91	0.52
1:C:740:VAL:HA	1:C:743:LEU:HB2	1.90	0.52
1:A:740:VAL:HA	1:A:743:LEU:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:255:VAL:O	1:C:259:ILE:HG12	2.09	0.52
1:C:269:VAL:HG22	1:C:271:SER:H	1.74	0.52
1:C:664:SER:HB2	1:C:684:PHE:HD1	1.74	0.52
1:A:269:VAL:HG22	1:A:271:SER:H	1.74	0.52
1:A:449:CYS:HB2	1:A:455:VAL:HG11	1.91	0.52
1:A:271:SER:HB3	1:A:276:LEU:HB3	1.91	0.52
2:D:61:ASP:OD1	2:D:61:ASP:N	2.42	0.52
2:B:53:ASP:O	2:B:71:ARG:NH2	2.43	0.52
1:A:664:SER:HB2	1:A:684:PHE:HD1	1.74	0.51
1:C:271:SER:HB3	1:C:276:LEU:HB3	1.91	0.51
1:A:254:HIS:C	1:A:254:HIS:HD1	2.18	0.51
1:A:712:THR:OG1	1:A:716:ARG:NH2	2.43	0.51
1:C:712:THR:OG1	1:C:716:ARG:NH2	2.43	0.51
1:A:814:PHE:HA	1:A:817:VAL:HG12	1.93	0.51
1:C:512:ASN:HD22	1:C:516:LYS:NZ	2.09	0.51
1:A:86:ALA:HB1	1:A:89:PRO:HG3	1.91	0.51
1:C:86:ALA:HB1	1:C:89:PRO:HG3	1.91	0.51
1:A:280:ILE:HD13	1:A:305:ILE:HG22	1.93	0.51
1:C:156:LEU:HD23	1:C:157:LEU:N	2.26	0.51
1:C:254:HIS:C	1:C:254:HIS:HD1	2.18	0.51
1:C:782:LEU:O	1:C:786:ILE:HG13	2.11	0.51
1:C:814:PHE:HA	1:C:817:VAL:HG12	1.93	0.51
1:A:782:LEU:O	1:A:786:ILE:HG13	2.11	0.50
1:A:512:ASN:HD22	1:A:516:LYS:NZ	2.09	0.50
1:C:280:ILE:HD13	1:C:305:ILE:HG22	1.93	0.50
1:A:156:LEU:HD23	1:A:157:LEU:N	2.26	0.50
1:C:654:LEU:HD11	1:C:698:LYS:HE2	1.93	0.50
1:A:216:ASP:OD1	1:A:216:ASP:N	2.44	0.50
1:C:729:PHE:HB3	1:C:733:PHE:CZ	2.47	0.50
1:A:654:LEU:HD11	1:A:698:LYS:HE2	1.93	0.50
1:A:791:ALA:O	1:A:794:SER:OG	2.24	0.50
1:C:216:ASP:N	1:C:216:ASP:OD1	2.44	0.50
1:A:802:ASN:OD1	1:A:805:LYS:NZ	2.44	0.50
1:A:117:GLN:HB3	1:C:128:PHE:HZ	1.77	0.50
1:A:729:PHE:HB3	1:A:733:PHE:CZ	2.47	0.50
1:C:348:ALA:HA	1:C:351:PHE:CD1	2.47	0.50
1:C:37:LEU:HB3	1:C:110:ALA:HA	1.94	0.49
1:A:37:LEU:HB3	1:A:110:ALA:HA	1.94	0.49
1:A:672:PRO:HG2	1:A:763:ILE:HG23	1.94	0.49
2:D:102:TRP:CZ3	1:C:251:GLU:HG2	2.47	0.49
1:C:37:LEU:HD23	1:C:110:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:672:PRO:HG2	1:C:763:ILE:HG23	1.94	0.49
2:B:11:SER:HA	2:B:122:VAL:HA	1.94	0.49
1:C:491:ILE:HD13	1:C:523:ILE:HD11	1.95	0.49
1:C:476:GLN:HB3	1:C:485:LEU:HD22	1.95	0.49
1:A:348:ALA:HA	1:A:351:PHE:CD1	2.47	0.49
1:A:585:CYS:HB2	1:A:589:PHE:HZ	1.77	0.49
1:C:205:ARG:O	1:C:205:ARG:HD3	2.13	0.49
1:A:476:GLN:HB3	1:A:485:LEU:HD22	1.95	0.49
1:A:491:ILE:HD13	1:A:523:ILE:HD11	1.95	0.49
1:C:590:TRP:O	1:C:596:THR:OG1	2.31	0.49
1:A:37:LEU:HD23	1:A:110:ALA:HB2	1.94	0.49
1:A:590:TRP:O	1:A:596:THR:OG1	2.31	0.49
2:D:20:LEU:HB3	2:D:80:LEU:HB2	1.94	0.49
2:D:68:THR:OG1	2:D:81:GLN:HB3	2.11	0.49
1:A:248:ASP:HB2	2:B:102:TRP:CE2	2.49	0.48
2:D:20:LEU:HD22	2:D:80:LEU:HD13	1.94	0.48
1:C:529:LEU:HA	1:C:535:ARG:HH22	1.78	0.48
1:C:585:CYS:HB2	1:C:589:PHE:HZ	1.77	0.48
1:A:289:THR:HG21	1:A:312:HIS:CE1	2.48	0.48
1:A:348:ALA:HA	1:A:351:PHE:CE1	2.49	0.48
1:A:739:CYS:HA	1:A:742:TRP:CE2	2.49	0.48
1:C:692:ILE:HG21	1:C:780:THR:HG23	1.95	0.48
1:A:205:ARG:O	1:A:205:ARG:HD3	2.13	0.48
1:A:414:LEU:HG	1:A:416:ILE:HG12	1.95	0.48
1:A:529:LEU:HA	1:A:535:ARG:HH22	1.78	0.48
1:A:733:PHE:O	1:A:734:MET:C	2.55	0.48
2:D:75:LYS:HZ3	2:D:77:ALA:HB3	1.79	0.48
1:A:692:ILE:HG21	1:A:780:THR:HG23	1.95	0.48
1:C:739:CYS:HA	1:C:742:TRP:CE2	2.49	0.48
1:A:126:ASP:HB2	1:A:129:CYS:HB2	1.95	0.48
1:C:289:THR:HG21	1:C:312:HIS:CE1	2.48	0.48
1:C:126:ASP:HB2	1:C:129:CYS:HB2	1.95	0.48
1:C:348:ALA:HA	1:C:351:PHE:CE1	2.49	0.48
1:C:414:LEU:HG	1:C:416:ILE:HG12	1.95	0.48
1:C:733:PHE:O	1:C:734:MET:C	2.55	0.48
2:D:5:GLN:HA	2:D:116:GLN:HE22	1.79	0.48
1:C:807:ILE:HD11	1:C:852:ILE:HD12	1.95	0.48
1:A:807:ILE:HD11	1:A:852:ILE:HD12	1.95	0.47
1:A:860:ILE:HG13	1:A:864:PRO:HA	1.96	0.47
1:A:118:ASN:HB3	1:A:135:ILE:HG12	1.96	0.47
1:C:78:ILE:O	1:C:82:ASN:ND2	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:94:TYR:CE2	2:B:96:ALA:HB2	2.48	0.47
1:C:802:ASN:OD1	1:C:805:LYS:NZ	2.44	0.47
1:C:860:ILE:HG13	1:C:864:PRO:HA	1.96	0.47
1:A:733:PHE:O	1:A:737:VAL:HG13	2.15	0.47
2:D:102:TRP:O	2:D:105:LEU:HG	2.15	0.47
1:A:400:ASN:N	1:A:403:SER:OG	2.48	0.47
1:C:118:ASN:HB3	1:C:135:ILE:HG12	1.96	0.47
1:C:331:ARG:O	1:C:335:LYS:HG2	2.15	0.47
1:C:627:THR:HA	1:C:630:VAL:HG12	1.97	0.47
1:C:733:PHE:O	1:C:737:VAL:HG13	2.15	0.47
1:A:434:ILE:HD11	1:A:450:ALA:HB1	1.97	0.46
1:A:627:THR:HA	1:A:630:VAL:HG12	1.97	0.46
1:A:331:ARG:O	1:A:335:LYS:HG2	2.15	0.46
1:A:512:ASN:HD22	1:A:516:LYS:HZ2	1.63	0.46
1:C:400:ASN:N	1:C:403:SER:OG	2.48	0.46
1:C:497:SER:O	1:C:501:GLY:N	2.45	0.46
1:C:186:THR:HG23	1:C:419:ASN:HB3	1.98	0.46
1:C:512:ASN:HD22	1:C:516:LYS:HZ2	1.63	0.46
1:C:632:GLY:O	1:C:635:ILE:HG22	2.16	0.46
1:A:242:LEU:HB2	2:B:99:ASP:CG	2.40	0.46
1:C:434:ILE:HD11	1:C:450:ALA:HB1	1.97	0.46
1:A:186:THR:HG23	1:A:419:ASN:HB3	1.98	0.46
1:A:212:ILE:HG12	1:A:267:ILE:HD11	1.97	0.46
1:A:223:ILE:HG13	1:A:224:GLU:N	2.31	0.46
1:A:632:GLY:O	1:A:635:ILE:HG22	2.16	0.46
1:C:223:ILE:HG13	1:C:224:GLU:N	2.31	0.46
2:B:36:TRP:NE1	2:B:93:TYR:HB3	2.30	0.46
1:A:455:VAL:HG23	1:A:456:GLU:H	1.80	0.46
1:A:637:PHE:CD1	1:A:860:ILE:HD13	2.51	0.46
1:C:212:ILE:HG12	1:C:267:ILE:HD11	1.97	0.46
1:C:637:PHE:CD1	1:C:860:ILE:HD13	2.51	0.46
2:D:67:PHE:CD1	2:D:82:MET:HG3	2.51	0.46
1:C:455:VAL:HG23	1:C:456:GLU:H	1.80	0.46
1:C:552:LYS:HB3	1:C:563:PHE:CD2	2.51	0.46
1:C:350:GLU:HG3	1:C:351:PHE:N	2.31	0.46
2:B:39:GLN:HB2	2:B:45:ARG:HA	1.97	0.45
1:A:400:ASN:O	1:A:404:VAL:HG23	2.16	0.45
1:A:350:GLU:HG3	1:A:351:PHE:N	2.31	0.45
2:D:101:ARG:NH1	2:D:103:SER:OG	2.49	0.45
1:C:425:TYR:O	1:C:429:HIS:ND1	2.34	0.45
1:A:712:THR:H	1:A:716:ARG:CZ	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:ILE:HA	1:C:689:VAL:HG22	1.98	0.45
1:A:564:GLU:OE1	1:A:564:GLU:N	2.50	0.45
1:C:564:GLU:N	1:C:564:GLU:OE1	2.50	0.45
1:C:735:GLN:NE2	1:C:776:LEU:HD13	2.31	0.45
1:A:737:VAL:O	1:A:741:ILE:HG13	2.17	0.45
2:D:19:ARG:NH2	2:D:79:TYR:HB3	2.31	0.45
1:C:244:SER:OG	1:C:245:GLN:N	2.49	0.45
1:C:737:VAL:O	1:C:741:ILE:HG13	2.17	0.45
2:B:69:ILE:HG13	2:B:80:LEU:HG	1.98	0.45
1:A:28:LYS:NZ	1:A:34:LEU:HD23	2.32	0.45
2:D:100:ALA:HB1	2:D:104:LEU:HB3	1.99	0.45
1:C:28:LYS:NZ	1:C:34:LEU:HD23	2.32	0.45
1:C:712:THR:H	1:C:716:ARG:CZ	2.30	0.45
1:A:139:ILE:HG23	1:A:161:TYR:CG	2.52	0.44
1:A:306:ALA:HA	1:A:311:PHE:HZ	1.82	0.44
1:A:686:ILE:HA	1:A:689:VAL:HG22	1.98	0.44
1:C:400:ASN:O	1:C:404:VAL:HG23	2.17	0.44
1:C:551:ARG:HD2	1:C:551:ARG:HA	1.80	0.44
1:A:32:ILE:H	1:A:32:ILE:HG12	1.62	0.44
1:A:425:TYR:O	1:A:429:HIS:ND1	2.34	0.44
1:C:108:LEU:HD12	1:C:109:GLU:N	2.33	0.44
1:C:139:ILE:HG23	1:C:161:TYR:CG	2.52	0.44
1:C:306:ALA:HA	1:C:311:PHE:HZ	1.82	0.44
1:A:447:GLY:O	1:A:458:TRP:NE1	2.50	0.44
2:B:30:SER:HB3	2:B:73:ASN:HB3	2.00	0.44
2:B:101:ARG:NH1	2:B:103:SER:OG	2.40	0.44
1:C:52:LYS:HG2	1:C:66:ARG:HA	2.00	0.44
1:A:244:SER:OG	1:A:245:GLN:N	2.50	0.44
1:C:447:GLY:O	1:C:458:TRP:NE1	2.50	0.44
1:C:738:ILE:HD12	1:C:741:ILE:HD12	2.00	0.44
1:A:52:LYS:HG2	1:A:66:ARG:HA	2.00	0.44
1:C:42:PHE:C	1:C:106:LYS:HD2	2.42	0.44
1:A:550:THR:CG2	1:A:565:CYS:HB2	2.47	0.44
2:B:36:TRP:CZ3	2:B:95:CYS:HB3	2.53	0.44
1:A:42:PHE:C	1:A:106:LYS:HD2	2.42	0.44
1:C:550:THR:CG2	1:C:565:CYS:HB2	2.47	0.44
1:C:726:LEU:HA	1:C:729:PHE:HB2	1.98	0.44
1:A:108:LEU:HD12	1:A:109:GLU:N	2.33	0.44
1:A:680:ARG:HB3	1:A:684:PHE:CE2	2.53	0.44
1:A:738:ILE:HD12	1:A:741:ILE:HD12	2.00	0.44
1:C:676:THR:HB	1:C:680:ARG:CZ	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:THR:HB	1:A:680:ARG:CZ	2.48	0.43
1:A:707:GLU:OE2	1:A:709:LYS:NZ	2.51	0.43
1:A:735:GLN:NE2	1:A:776:LEU:HD13	2.31	0.43
1:A:209:VAL:HA	1:A:266:VAL:HG23	1.99	0.43
1:A:351:PHE:HA	1:A:354:GLU:HG3	2.00	0.43
1:A:726:LEU:HA	1:A:729:PHE:HB2	1.98	0.43
1:A:849:LEU:HA	1:A:853:PHE:HD2	1.83	0.43
1:C:209:VAL:HA	1:C:266:VAL:HG23	1.99	0.43
1:A:51:LEU:HD22	1:A:65:PHE:HB3	2.00	0.43
1:A:506:LYS:C	1:A:508:VAL:H	2.26	0.43
1:C:51:LEU:HD22	1:C:65:PHE:HB3	2.00	0.43
1:C:610:GLU:HB2	1:C:611:PRO:HD2	2.01	0.43
1:A:610:GLU:HB2	1:A:611:PRO:HD2	2.00	0.43
1:C:194:ALA:O	1:C:197:MET:HG3	2.18	0.43
1:C:252:ILE:HA	1:C:255:VAL:HG13	2.01	0.43
1:C:291:LYS:NZ	1:C:292:ILE:O	2.45	0.43
1:C:351:PHE:HA	1:C:354:GLU:HG3	2.00	0.43
1:C:464:LEU:HB3	1:C:479:PHE:CD2	2.53	0.43
1:C:849:LEU:HA	1:C:853:PHE:HD2	1.83	0.43
1:A:194:ALA:O	1:A:197:MET:HG3	2.18	0.43
1:A:27:GLN:HA	1:A:33:ILE:HG12	2.00	0.43
1:A:252:ILE:HA	1:A:255:VAL:HG13	2.01	0.43
1:C:27:GLN:HA	1:C:33:ILE:HG12	2.00	0.43
1:A:728:VAL:O	1:A:732:THR:HG23	2.19	0.43
2:D:6:GLU:HA	2:D:22:CYS:SG	2.59	0.43
1:C:680:ARG:HB3	1:C:684:PHE:CE2	2.53	0.43
1:C:154:ALA:HB1	1:C:160:PHE:HA	2.00	0.43
1:C:506:LYS:C	1:C:508:VAL:H	2.27	0.43
1:A:464:LEU:O	1:A:479:PHE:HB3	2.19	0.42
1:A:693:SER:HB2	1:A:728:VAL:HG22	2.00	0.42
1:C:28:LYS:HZ2	1:C:34:LEU:H	1.67	0.42
1:A:280:ILE:HD12	1:A:310:TYR:HD2	1.84	0.42
1:A:464:LEU:HB3	1:A:479:PHE:CD2	2.53	0.42
1:C:700:ASN:OD1	1:C:701:ARG:N	2.52	0.42
2:B:3:GLN:HB2	2:B:25:SER:HB2	2.01	0.42
1:A:700:ASN:OD1	1:A:701:ARG:N	2.52	0.42
2:D:19:ARG:NH2	2:D:81:GLN:HB2	2.34	0.42
1:C:464:LEU:O	1:C:479:PHE:HB3	2.19	0.42
1:C:23:ASP:N	1:C:37:LEU:HB2	2.34	0.42
1:A:433:ASP:O	1:A:437:CYS:N	2.52	0.42
1:A:694:CYS:O	1:A:698:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:154:ALA:HB1	1:A:160:PHE:HA	2.00	0.42
1:A:497:SER:O	1:A:501:GLY:N	2.45	0.42
1:C:697:VAL:HA	1:C:700:ASN:ND2	2.32	0.42
1:C:728:VAL:O	1:C:732:THR:HG23	2.19	0.42
1:A:715:HIS:HB3	1:A:718:TRP:CZ3	2.55	0.42
1:A:197:MET:HE2	1:A:197:MET:HB2	1.79	0.42
1:A:697:VAL:HA	1:A:700:ASN:ND2	2.32	0.42
1:A:773:LEU:HD12	1:A:776:LEU:HD11	2.01	0.42
1:C:693:SER:HB2	1:C:728:VAL:HG22	2.00	0.42
1:A:105:SER:OG	1:A:106:LYS:N	2.53	0.42
1:C:28:LYS:HZ2	1:C:34:LEU:N	2.18	0.42
1:C:694:CYS:O	1:C:698:LYS:HD3	2.19	0.42
1:C:735:GLN:O	1:C:738:ILE:HG22	2.20	0.42
2:B:82:MET:HB3	2:B:85:LEU:HD11	2.01	0.42
2:B:89:ASP:N	2:B:89:ASP:OD1	2.53	0.42
1:C:338:HIS:CG	1:C:339:PRO:HD2	2.55	0.42
1:A:837:GLU:O	1:A:841:ILE:HG12	2.20	0.41
2:D:34:MET:SD	2:D:97:ALA:HB2	2.60	0.41
1:C:667:PHE:O	1:C:680:ARG:NE	2.53	0.41
1:A:72:GLN:HA	1:A:75:ILE:HD12	2.03	0.41
2:D:75:LYS:CD	2:D:77:ALA:HB3	2.50	0.41
2:D:86:LYS:NZ	2:D:88:GLU:O	2.53	0.41
1:C:111:THR:O	1:C:115:VAL:HG23	2.20	0.41
1:A:256:VAL:O	1:A:259:ILE:HB	2.20	0.41
1:A:317:THR:HB	1:A:494:TRP:CE3	2.55	0.41
1:C:72:GLN:HA	1:C:75:ILE:HD12	2.03	0.41
1:C:105:SER:OG	1:C:106:LYS:N	2.53	0.41
1:C:280:ILE:HD12	1:C:310:TYR:HD2	1.84	0.41
2:B:50:GLY:HA3	2:B:105:LEU:HD13	2.02	0.41
1:C:317:THR:HB	1:C:494:TRP:CE3	2.55	0.41
1:C:433:ASP:O	1:C:437:CYS:N	2.52	0.41
1:C:773:LEU:HD12	1:C:776:LEU:HD11	2.01	0.41
1:A:667:PHE:O	1:A:680:ARG:NE	2.53	0.41
1:A:735:GLN:O	1:A:738:ILE:HG22	2.20	0.41
2:D:12:VAL:O	2:D:124:SER:OG	2.33	0.41
1:C:310:TYR:O	1:C:314:VAL:HG22	2.21	0.41
1:A:23:ASP:N	1:A:37:LEU:HB2	2.34	0.41
1:A:112:LEU:HD11	1:C:124:ASN:OD1	2.20	0.41
1:C:256:VAL:O	1:C:259:ILE:HB	2.20	0.41
1:A:47:LYS:HB2	1:A:52:LYS:HZ3	1.85	0.41
1:A:692:ILE:O	1:A:696:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:715:HIS:HB3	1:C:718:TRP:CZ3	2.55	0.41
1:A:521:LEU:HD11	1:A:523:ILE:HB	2.02	0.41
1:C:707:GLU:OE2	1:C:709:LYS:NZ	2.51	0.41
1:A:111:THR:O	1:A:115:VAL:HG23	2.20	0.41
1:A:454:LYS:HD2	1:A:454:LYS:HA	1.88	0.41
1:A:819:ILE:HD12	1:A:819:ILE:HA	1.92	0.41
1:C:78:ILE:HG13	1:C:79:GLU:N	2.36	0.41
1:C:618:LEU:HA	1:C:621:VAL:HG22	2.01	0.41
1:C:756:LEU:HG	1:C:758:ASP:H	1.86	0.41
1:A:310:TYR:O	1:A:314:VAL:HG22	2.21	0.41
1:A:404:VAL:HG12	1:A:405:GLU:H	1.86	0.41
1:C:404:VAL:HG12	1:C:405:GLU:H	1.86	0.41
1:A:28:LYS:NZ	1:A:32:ILE:O	2.54	0.40
1:A:66:ARG:HB2	1:A:351:PHE:CZ	2.56	0.40
1:A:75:ILE:HD11	1:A:336:LYS:HE2	2.02	0.40
1:A:143:GLY:H	1:A:185:ARG:CZ	2.34	0.40
1:A:423:ALA:O	1:A:427:ILE:HG12	2.21	0.40
2:D:68:THR:HG1	2:D:81:GLN:HB3	1.86	0.40
1:C:66:ARG:HB2	1:C:351:PHE:CZ	2.56	0.40
1:C:75:ILE:HD11	1:C:336:LYS:HE2	2.02	0.40
1:C:143:GLY:H	1:C:185:ARG:CZ	2.34	0.40
1:C:343:VAL:HG23	1:C:344:HIS:ND1	2.36	0.40
1:A:618:LEU:HA	1:A:621:VAL:HG22	2.01	0.40
1:C:644:LYS:HA	1:C:644:LYS:HD2	1.84	0.40
1:A:338:HIS:CG	1:A:339:PRO:HD2	2.55	0.40
1:A:764:THR:O	1:A:766:HIS:ND1	2.53	0.40
1:C:28:LYS:NZ	1:C:32:ILE:O	2.54	0.40
1:C:293:TRP:CZ3	1:C:314:VAL:HA	2.57	0.40
1:C:692:ILE:O	1:C:696:LEU:HD23	2.21	0.40
1:C:743:LEU:HD23	1:C:743:LEU:HA	1.93	0.40
1:C:791:ALA:O	1:C:794:SER:OG	2.24	0.40
1:A:293:TRP:CZ3	1:A:314:VAL:HA	2.57	0.40
2:D:101:ARG:HB2	2:D:104:LEU:HB2	2.02	0.40
1:C:521:LEU:HD11	1:C:523:ILE:HB	2.02	0.40
1:C:591:SER:HA	1:C:596:THR:H	1.87	0.40
1:C:723:LEU:HA	1:C:726:LEU:HG	2.04	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	763/862 (88%)	712 (93%)	51 (7%)	0	100	100
1	C	763/862 (88%)	711 (93%)	52 (7%)	0	100	100
2	B	121/143 (85%)	118 (98%)	3 (2%)	0	100	100
2	D	122/143 (85%)	118 (97%)	4 (3%)	0	100	100
All	All	1769/2010 (88%)	1659 (94%)	110 (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	670/748 (90%)	640 (96%)	30 (4%)	23	45
1	C	670/748 (90%)	640 (96%)	30 (4%)	23	45
2	B	98/114 (86%)	97 (99%)	1 (1%)	73	82
2	D	99/114 (87%)	98 (99%)	1 (1%)	73	82
All	All	1537/1724 (89%)	1475 (96%)	62 (4%)	29	47

All (62) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	31	ASP
1	A	32	ILE

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Mol	Chain	Res	Type
1	A	79	GLU
1	A	91	LEU
1	A	119	LYS
1	A	156	LEU
1	A	197	MET
1	A	211	THR
1	A	229	GLU
1	A	233	ARG
1	A	255	VAL
1	A	271	SER
1	A	350	GLU
1	A	409	ILE
1	A	441	ARG
1	A	506	LYS
1	A	516	LYS
1	A	551	ARG
1	A	552	LYS
1	A	575	ASP
1	A	653	LEU
1	A	655	LEU
1	A	668	PHE
1	A	717	LYS
1	A	736	ILE
1	A	737	VAL
1	A	739	CYS
1	A	793	LYS
1	A	811	MET
1	A	852	ILE
2	D	78	LEU
1	C	31	ASP
1	C	32	ILE
1	C	91	LEU
1	C	119	LYS
1	C	156	LEU
1	C	197	MET
1	C	211	THR
1	C	229	GLU
1	C	233	ARG
1	C	255	VAL
1	C	271	SER
1	C	350	GLU
1	C	409	ILE

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Mol	Chain	Res	Type
1	C	441	ARG
1	C	443	LEU
1	C	444	PHE
1	C	506	LYS
1	C	516	LYS
1	C	575	ASP
1	C	653	LEU
1	C	655	LEU
1	C	668	PHE
1	C	717	LYS
1	C	736	ILE
1	C	737	VAL
1	C	739	CYS
1	C	793	LYS
1	C	795	ARG
1	C	811	MET
1	C	852	ILE
2	B	88	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	82	ASN
1	A	130	ASN
1	A	357	ASN
1	A	493	ASN
1	A	524	ASN
1	A	592	ASN
2	D	3	GLN
1	C	82	ASN
1	C	312	HIS
1	C	357	ASN
1	C	493	ASN
1	C	524	ASN
2	B	83	ASN

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 oligosaccharides 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-30997. These allow visual inspection of the internal detail of the map and identification of artifacts.

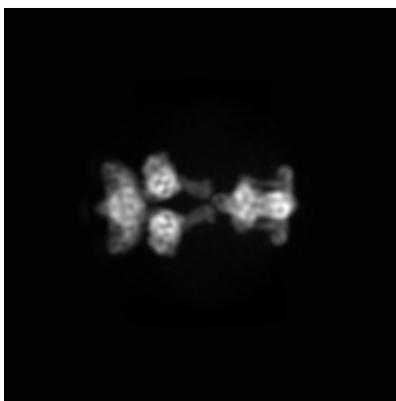
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

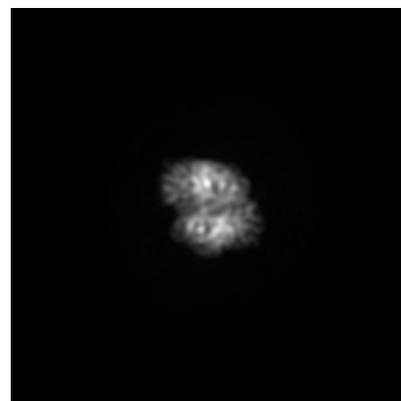
6.1.1 Primary map



X



Y



Z

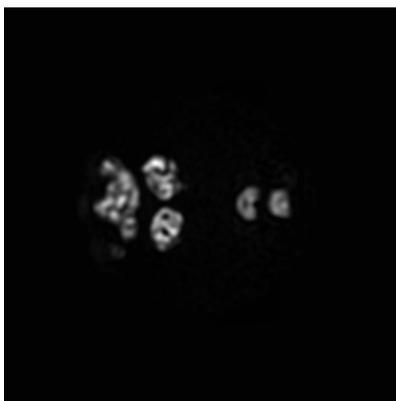
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

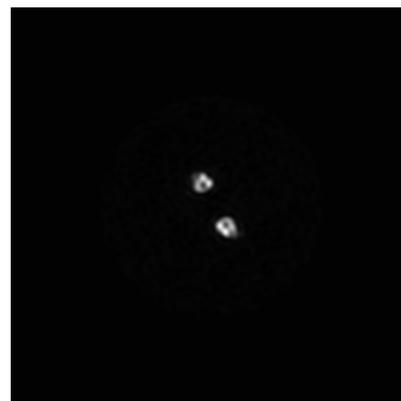
6.2.1 Primary map



X Index: 160



Y Index: 160



Z Index: 160

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: 154



Y Index: 141

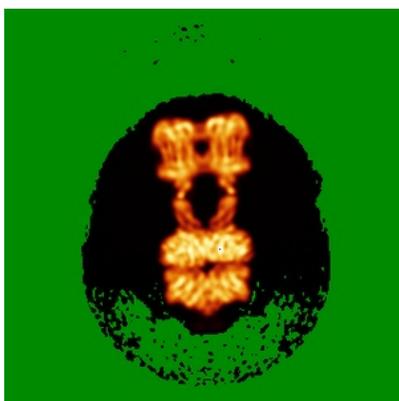


Z Index: 125

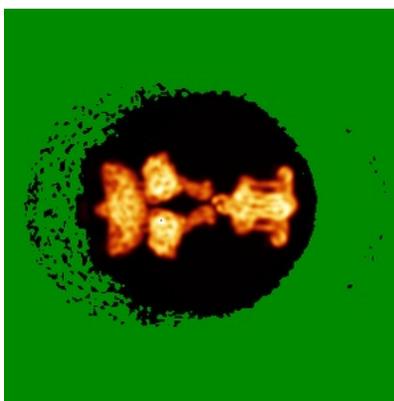
The images above show the largest variance slices of the map in three orthogonal directions.

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

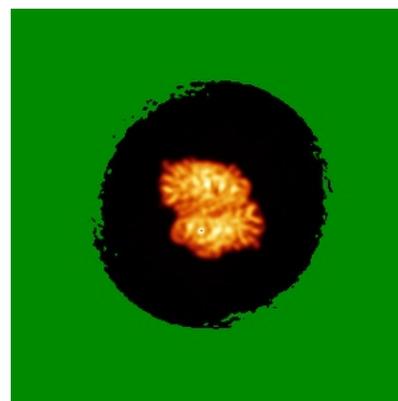
6.4.1 Primary map



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](#)

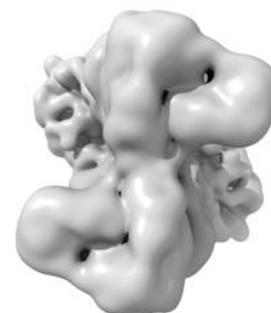
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0104. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

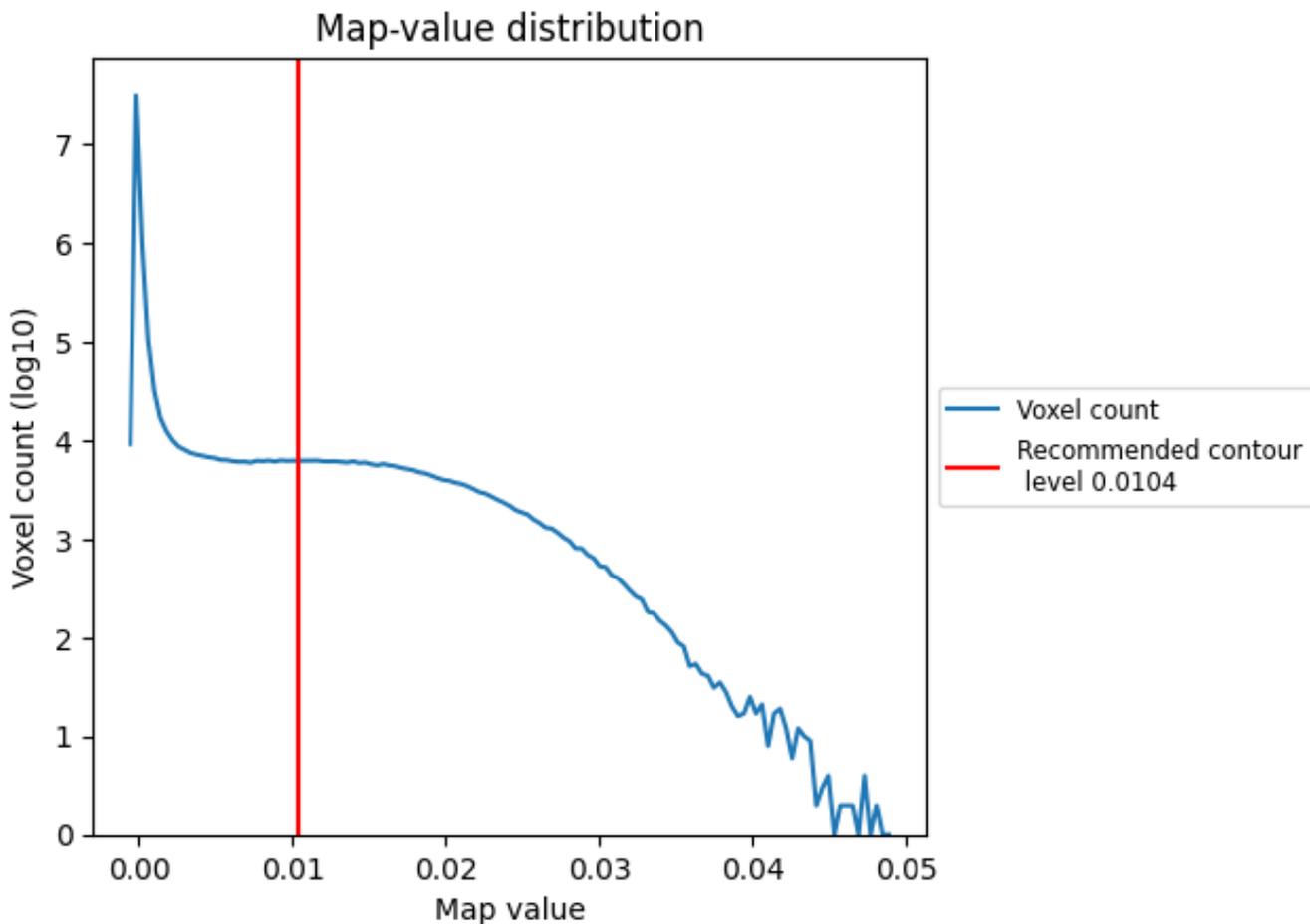
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

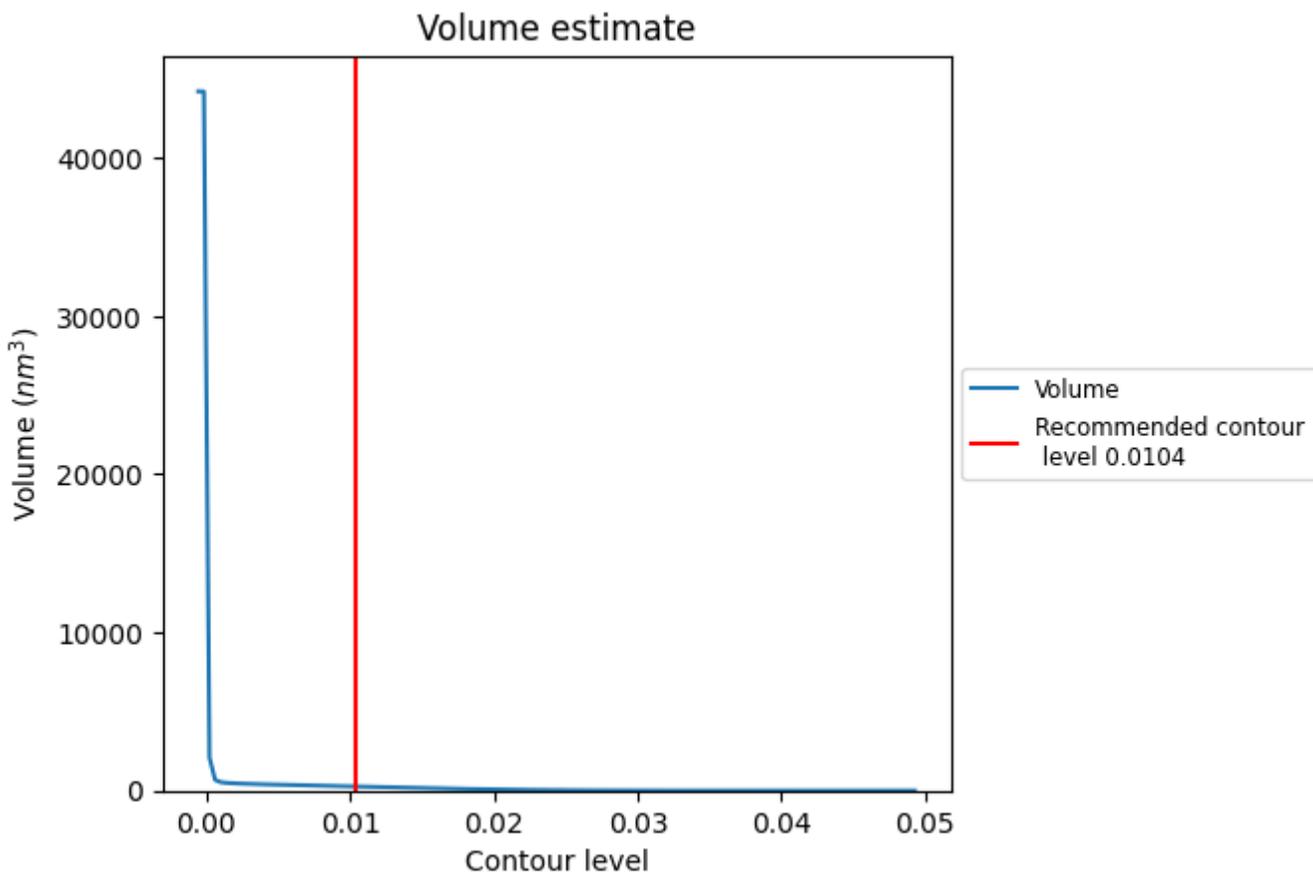
This section contains the results of statistical analysis of the map.

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.

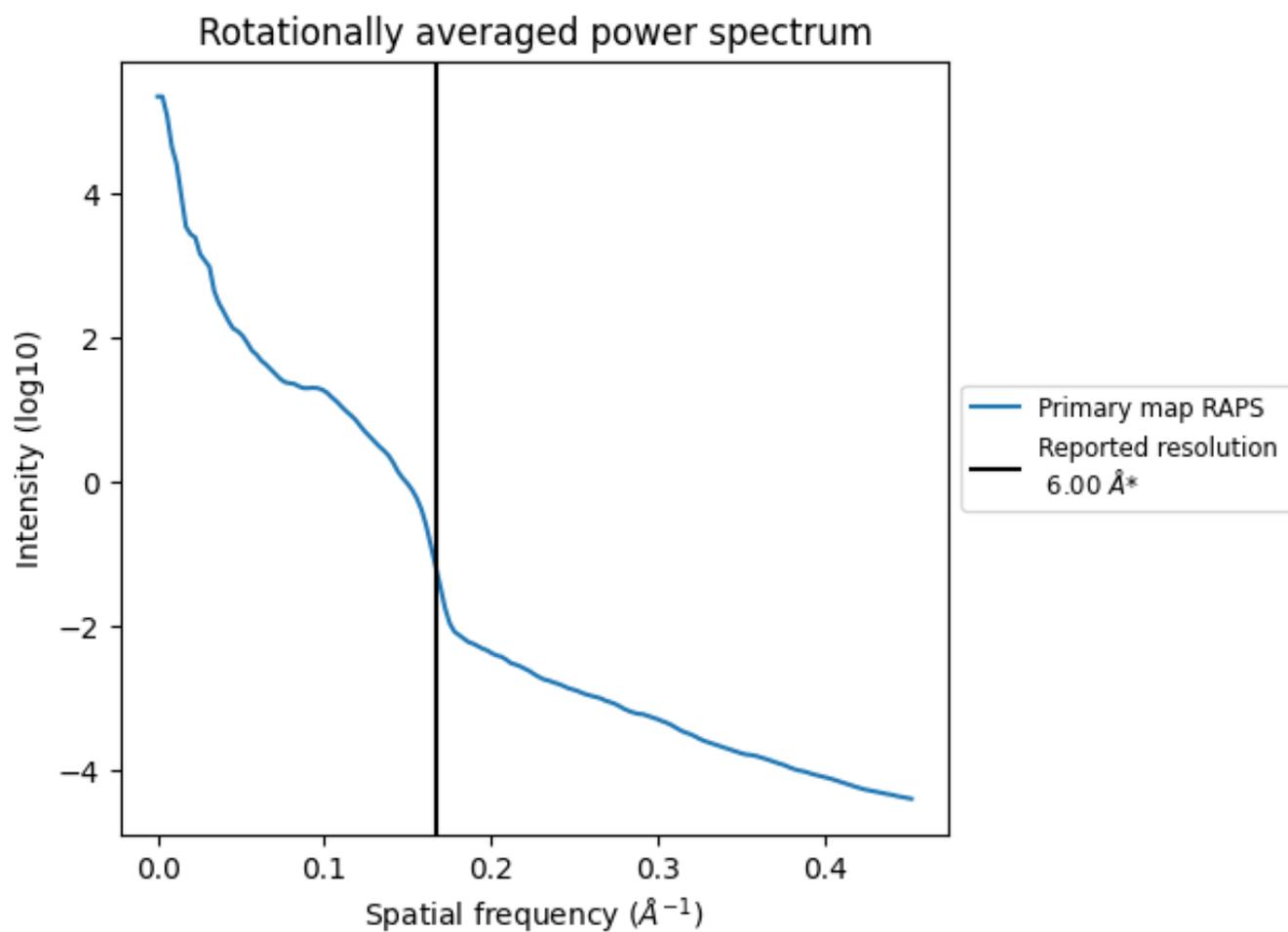
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 261 nm^3 ; this corresponds to an approximate mass of 236 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 0.167\AA^{-1}

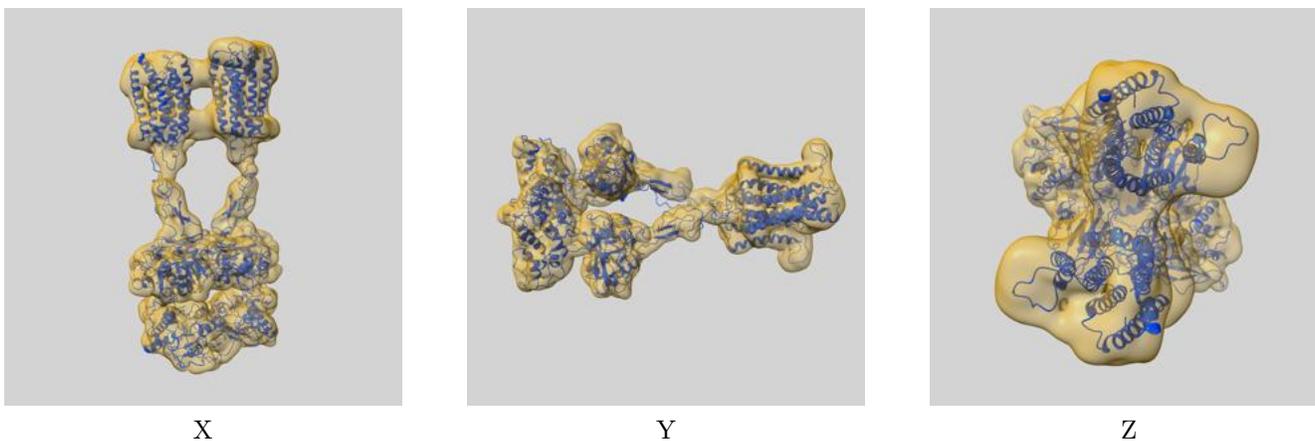
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

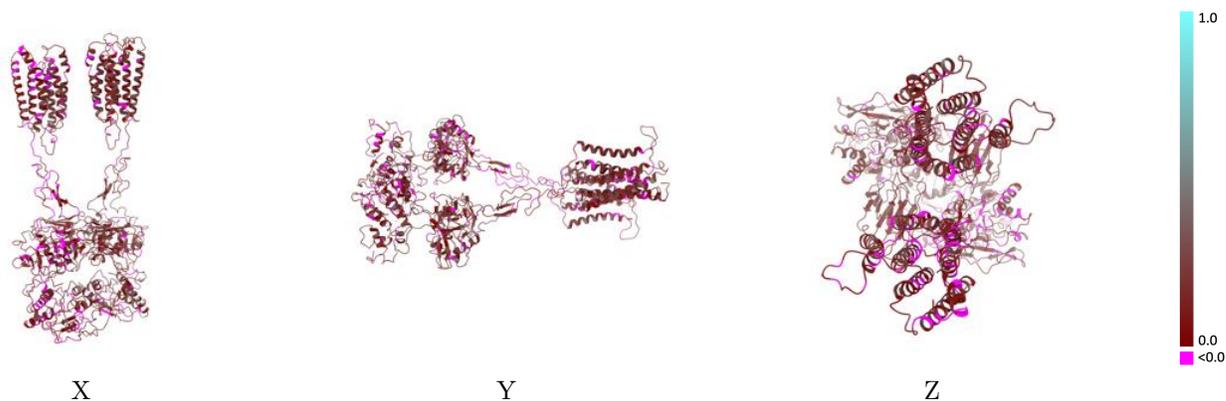
This section contains information regarding the fit between EMDB map EMD-30997 and PDB model 7E6U. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



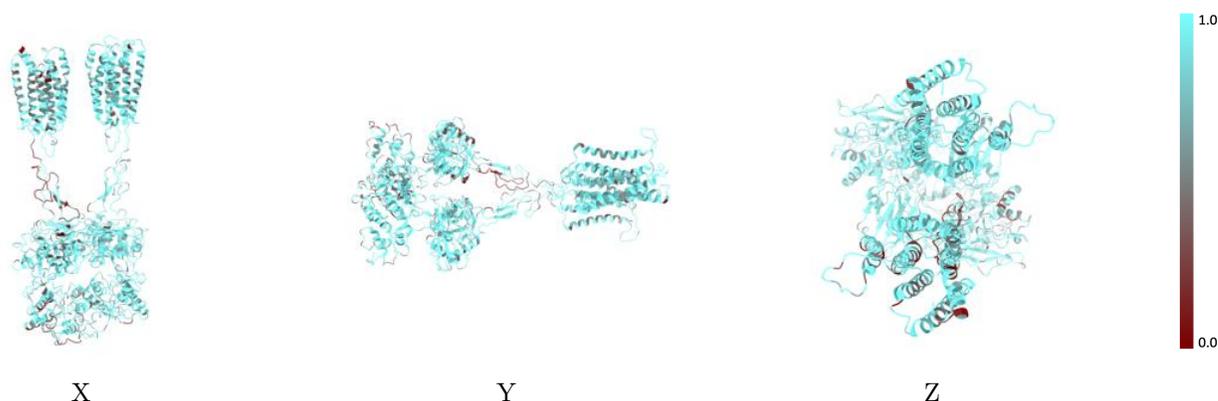
The images above show the 3D surface view of the map at the recommended contour level 0.0104 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



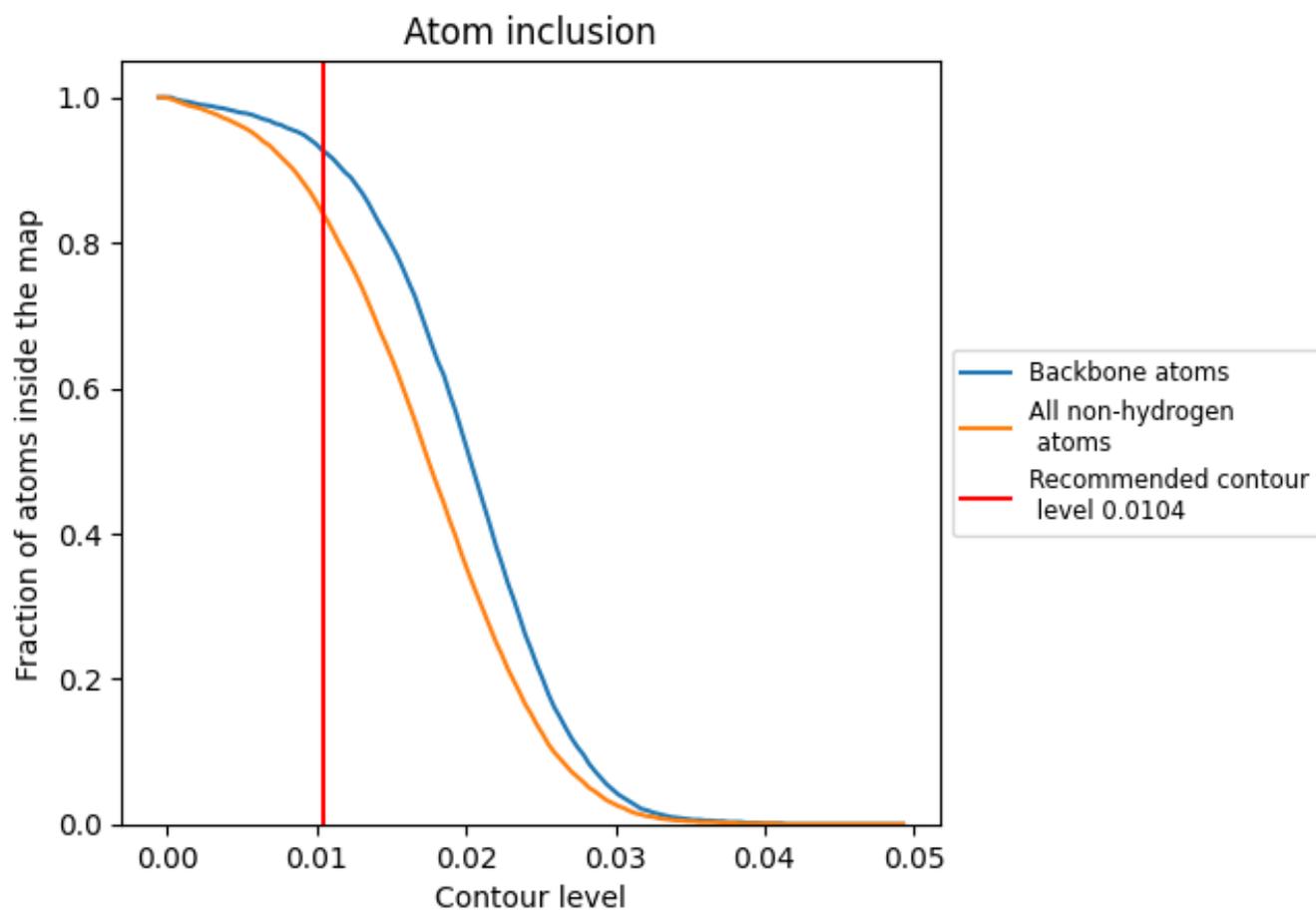
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0104).

9.4 Atom inclusion [i](#)



At the recommended contour level, 93% of all backbone atoms, 84% 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 (0.0104) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8410	 0.1460
A	 0.7840	 0.1080
B	 0.9170	 0.1840
C	 0.8780	 0.1720
D	 0.9010	 0.1850

