



Full wwPDB EM Validation Report ⓘ

Jun 26, 2025 – 07:47 AM JST

PDB ID : 7DUR / pdb_00007dur
EMDB ID : EMD-30867
Title : Cryo-EM structure of the compound 2-bound human GLP-1 receptor-Gs complex
Authors : Cong, Z.; Chen, L.; Ma, H.; Zhou, Q.; Zou, X.; Ye, C.; Dai, A.; Liu, Q.; Huang, W.; Sun, X.; Wang, X.; Xu, P.; Zhao, L.; Xia, T.; Zhong, W.; Yang, D.; Xu, H.E.; Zhang, Y.; Wang, M.
Deposited on : 2021-01-11
Resolution : 3.30 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
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

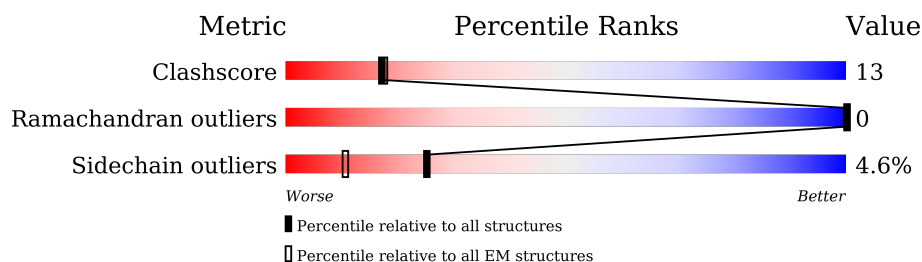
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.30 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	394	9% 40% 19% • 40%
2	B	345	17% 65% 33% •
3	G	70	53% 70% 10% 20%
4	N	140	13% 57% 31% • 10%
5	R	440	18% 59% 21% 5% 16%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 9211 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 Guanine nucleotide-binding protein G(s) subunit alpha isoforms short.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	235	Total	C	N	O	S	0	0
			1957	1236	357	357	7		

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	54	ASN	SER	engineered mutation	UNP P63092
A	226	ALA	GLY	engineered mutation	UNP P63092
A	268	ALA	GLU	engineered mutation	UNP P63092
A	271	LYS	ASN	engineered mutation	UNP P63092
A	274	ASP	LYS	engineered mutation	UNP P63092
A	280	LYS	ARG	engineered mutation	UNP P63092
A	284	ASP	THR	engineered mutation	UNP P63092
A	285	THR	ILE	engineered mutation	UNP P63092

- Molecule 2 is a protein called Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	338	Total	C	N	O	S	0	0
			2600	1604	467	508	21		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-4	MET	-	initiating methionine	UNP P54311
B	-3	GLY	-	expression tag	UNP P54311
B	-2	SER	-	expression tag	UNP P54311
B	-1	LEU	-	expression tag	UNP P54311
B	0	LEU	-	expression tag	UNP P54311
B	1	GLN	-	expression tag	UNP P54311

- Molecule 3 is a protein called Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	G	56	Total	C	N	O	S	0	0
			429	269	76	81	3		

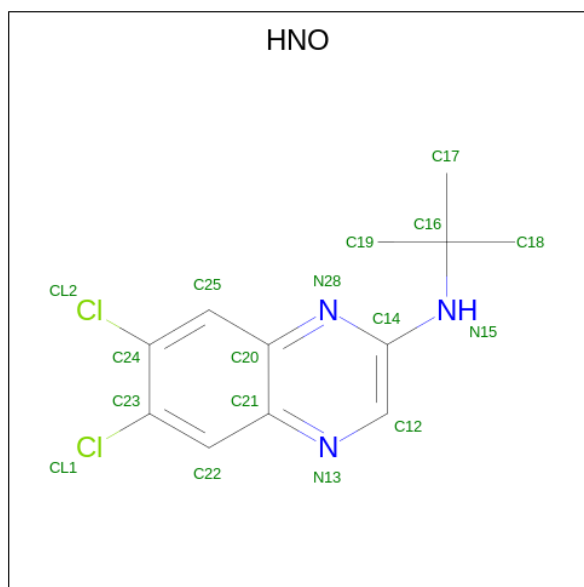
- Molecule 4 is a protein called Nanobody-35.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	N	126	Total	C	N	O	S	0	0
			961	599	168	188	6		

- Molecule 5 is a protein called Glucagon-like peptide 1 receptor.

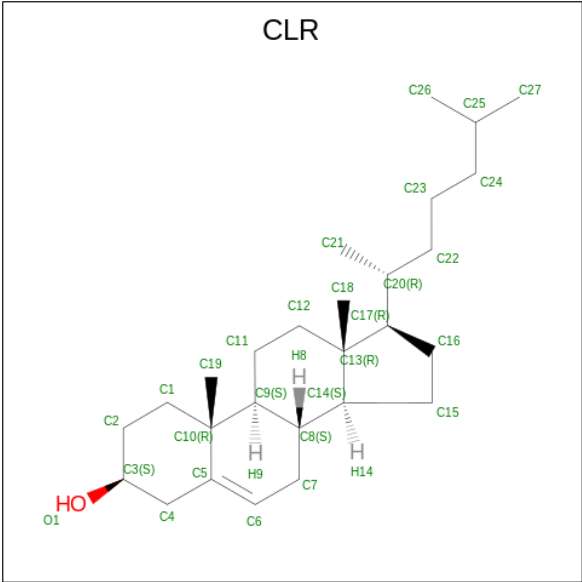
Mol	Chain	Residues	Atoms					AltConf	Trace
5	R	371	Total	C	N	O	S	0	0
			3079	2038	500	524	17		

- Molecule 6 is N-tert-butyl-6,7-bis(chloranyl)quinoxalin-2-amine (CCD ID: HNO) (formula: $C_{12}H_{13}Cl_2N_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
6	R	1	Total	C	Cl	N	0
			17	12	2	3	

- Molecule 7 is CHOLESTEROL (CCD ID: CLR) (formula: $C_{27}H_{46}O$).

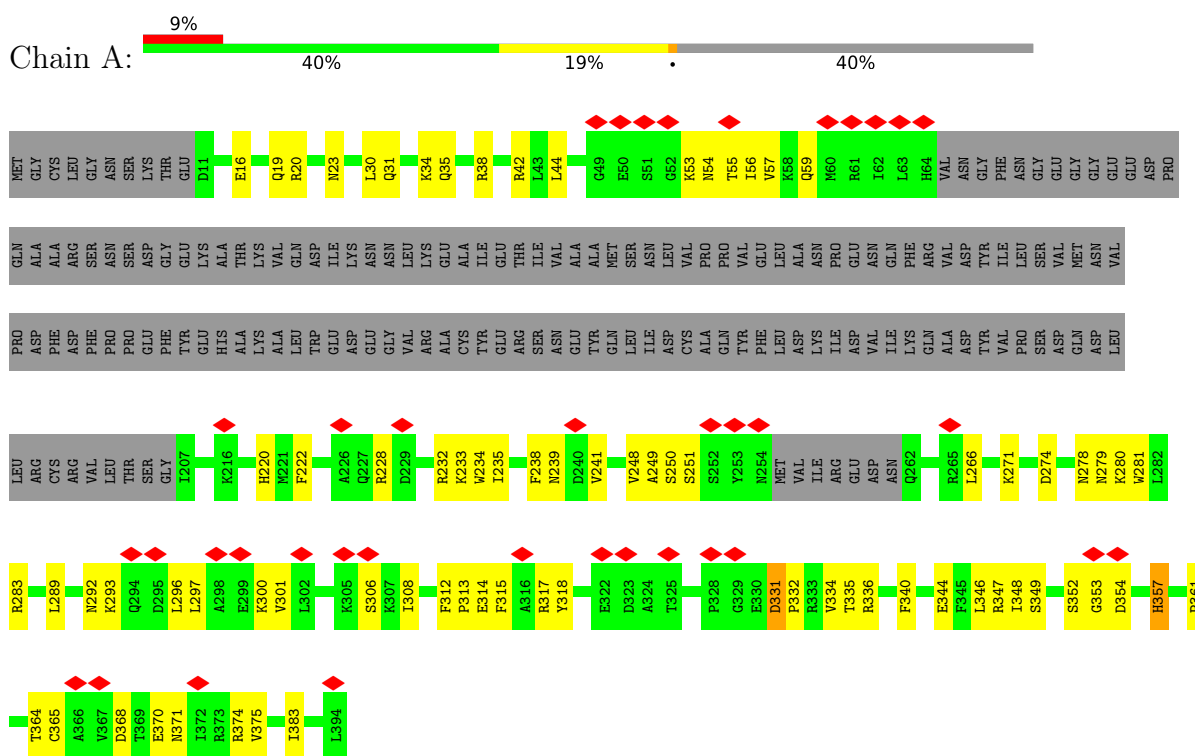


Mol	Chain	Residues	Atoms			AltConf
7	R	1	Total	C	O	0
			28	27	1	
7	R	1	Total	C	O	0
			28	27	1	
7	R	1	Total	C	O	0
			28	27	1	
7	R	1	Total	C	O	0
			28	27	1	
7	R	1	Total	C	O	0
			28	27	1	
7	R	1	Total	C	O	0
			28	27	1	

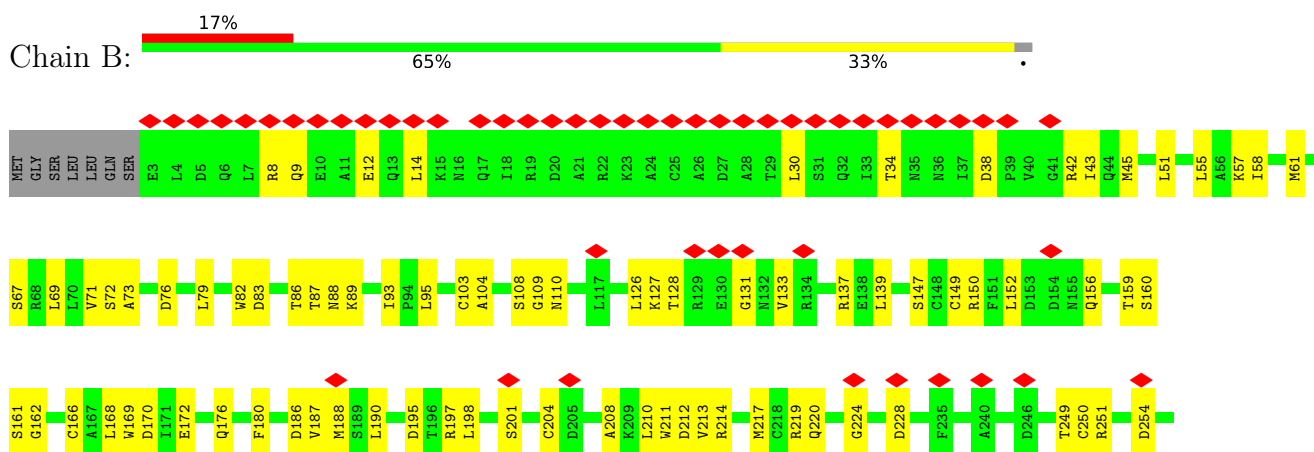
3 Residue-property plots

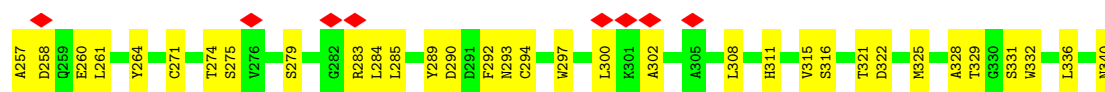
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Guanine nucleotide-binding protein G(s) subunit alpha isoforms short

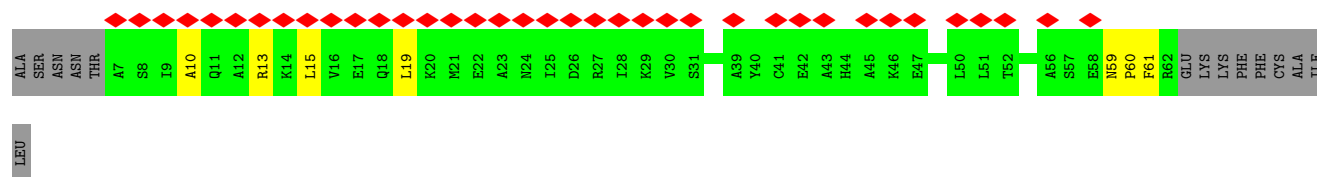


- Molecule 2: Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1

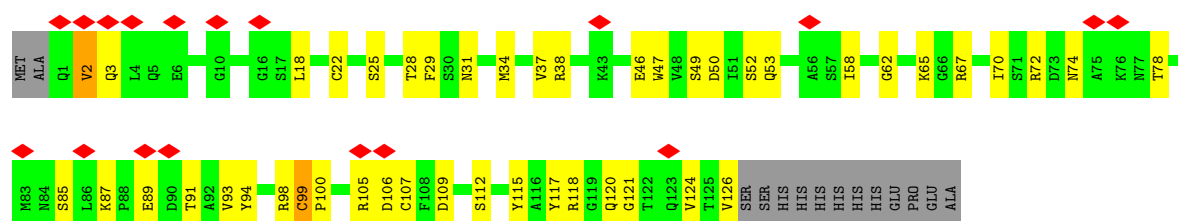




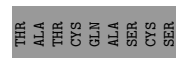
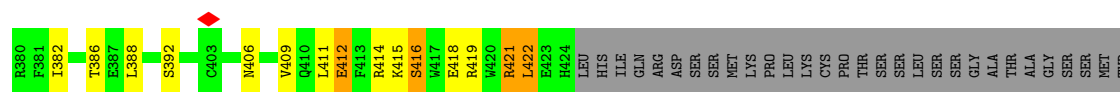
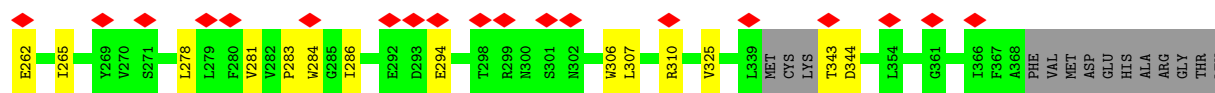
- Molecule 3: Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2



- Molecule 4: Nanobody-35



- Molecule 5: Glucagon-like peptide 1 receptor



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	147173	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 ($e^-/\text{\AA}^2$)	80	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.447	Depositor
Minimum map value	-0.226	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.017	Depositor
Recommended contour level	0.11	Depositor
Map size (Å)	267.52, 267.52, 267.52	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.045, 1.045, 1.045	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: HNO, CLR

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	0.39	0/1994	0.62	0/2681
2	B	0.35	0/2647	0.60	0/3589
3	G	0.20	0/435	0.56	0/587
4	N	0.29	0/981	0.62	0/1329
5	R	0.34	0/3173	0.67	2/4322 (0.0%)
All	All	0.35	0/9230	0.63	2/12508 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	32	LEU	N-CA-C	-7.72	103.96	113.15
5	R	212	HIS	N-CA-C	-5.29	104.59	111.74

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	1957	0	1942	60	0
2	B	2600	0	2505	89	0
3	G	429	0	441	6	0
4	N	961	0	928	37	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	R	3079	0	3038	73	0
6	R	17	0	0	0	0
7	R	168	0	276	12	0
All	All	9211	0	9130	247	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 13.

All (247) 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)
4:N:91:THR:HG22	4:N:126:VAL:H	1.39	0.86
2:B:271:CYS:HB3	2:B:290:ASP:HB2	1.60	0.83
4:N:62:GLY:HA2	4:N:65:LYS:HE3	1.63	0.79
2:B:110:ASN:HA	2:B:127:LYS:HG2	1.66	0.78
4:N:3:GLN:HB3	4:N:25:SER:O	1.85	0.76
2:B:58:ILE:O	2:B:316:SER:OG	2.05	0.74
1:A:278:ASN:HB3	4:N:105:ARG:HB2	1.71	0.72
1:A:232:ARG:HH12	4:N:115:TYR:HE1	1.38	0.70
5:R:212:HIS:ND1	5:R:212:HIS:O	2.25	0.69
5:R:102:ARG:HD2	5:R:121:ARG:HH21	1.58	0.69
1:A:331:ASP:OD1	1:A:331:ASP:N	2.27	0.68
2:B:79:LEU:HB3	2:B:93:ILE:HB	1.75	0.68
5:R:43:ARG:O	5:R:47:GLN:HB2	1.93	0.68
5:R:406:ASN:HB3	5:R:409:VAL:HG12	1.74	0.68
2:B:250:CYS:HB2	2:B:264:TYR:HB2	1.77	0.66
5:R:204:MET:SD	5:R:204:MET:N	2.67	0.66
4:N:112:SER:O	4:N:118:ARG:NH2	2.30	0.65
5:R:32:LEU:HB3	5:R:205:TYR:HD2	1.62	0.65
4:N:22:CYS:O	4:N:78:THR:HA	1.97	0.64
1:A:248:VAL:O	1:A:292:ASN:N	2.30	0.64
4:N:87:LYS:HD3	4:N:89:GLU:H	1.62	0.64
1:A:318:TYR:O	1:A:336:ARG:NH2	2.30	0.64
2:B:328:ALA:HB1	2:B:336:LEU:HD11	1.79	0.64
5:R:416:SER:HA	5:R:419:ARG:HH11	1.62	0.64
5:R:31:SER:C	5:R:33:TRP:H	2.04	0.64
5:R:91:TRP:O	5:R:94:SER:OG	2.11	0.64
2:B:8:ARG:NH2	4:N:120:GLN:OE1	2.31	0.64
2:B:224:GLY:O	2:B:251:ARG:NH1	2.31	0.64
1:A:352:SER:OG	4:N:105:ARG:NH1	2.32	0.63
5:R:262:GLU:HA	5:R:265:ILE:HG22	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:46:CYS:HA	5:R:49:SER:HB3	1.79	0.63
2:B:210:LEU:O	2:B:219:ARG:N	2.32	0.63
5:R:208:ALA:HB2	5:R:217:LEU:HD21	1.82	0.62
5:R:278:LEU:HA	5:R:281:VAL:HG12	1.80	0.61
1:A:23:ASN:ND2	2:B:88:ASN:OD1	2.31	0.61
2:B:169:TRP:HA	2:B:176:GLN:HA	1.81	0.61
1:A:271:LYS:NZ	4:N:50:ASP:OD2	2.24	0.61
1:A:300:LYS:NZ	1:A:306:SER:O	2.33	0.60
5:R:235:TYR:HB2	5:R:281:VAL:HG11	1.84	0.60
4:N:29:PHE:HD2	4:N:74:ASN:HA	1.65	0.60
4:N:67:ARG:HH22	4:N:87:LYS:HB2	1.66	0.59
1:A:314:GLU:OE1	1:A:317:ARG:NH2	2.35	0.59
5:R:156:PHE:HE2	7:R:705:CLR:H213	1.67	0.59
1:A:332:PRO:HA	1:A:335:THR:HG22	1.84	0.59
2:B:137:ARG:NH2	2:B:172:GLU:O	2.31	0.59
1:A:34:LYS:HD3	2:B:55:LEU:HD22	1.86	0.58
2:B:275:SER:OG	2:B:316:SER:O	2.20	0.58
1:A:16:GLU:OE1	1:A:20:ARG:NH1	2.36	0.58
4:N:52:SER:O	4:N:72:ARG:NH1	2.36	0.58
4:N:94:TYR:O	4:N:121:GLY:HA2	2.03	0.58
1:A:228:ARG:NH1	2:B:186:ASP:OD1	2.37	0.58
2:B:197:ARG:HG3	2:B:214:ARG:HE	1.69	0.58
2:B:126:LEU:HA	2:B:133:VAL:HG12	1.86	0.58
4:N:91:THR:HA	4:N:124:VAL:O	2.04	0.57
4:N:67:ARG:NH2	4:N:85:SER:O	2.37	0.57
1:A:238:PHE:HD1	1:A:241:VAL:HG21	1.70	0.57
5:R:283:PRO:HA	5:R:286:ILE:HG12	1.86	0.57
1:A:232:ARG:HD3	4:N:100:PRO:HG3	1.85	0.57
2:B:51:LEU:HD12	2:B:336:LEU:HG	1.87	0.56
5:R:159:LEU:HD23	5:R:188:ILE:HG13	1.87	0.56
1:A:344:GLU:OE2	1:A:347:ARG:NH1	2.39	0.56
1:A:314:GLU:HG2	4:N:65:LYS:NZ	2.21	0.56
2:B:166:CYS:HB2	2:B:180:PHE:HB2	1.88	0.56
4:N:34:MET:SD	4:N:98:ARG:HB3	2.46	0.56
5:R:155:SER:O	5:R:159:LEU:HB2	2.06	0.56
1:A:250:SER:HA	1:A:266:LEU:HD21	1.88	0.55
1:A:274:ASP:HB2	1:A:348:ILE:HD13	1.87	0.55
2:B:156:GLN:HB3	2:B:168:LEU:HD11	1.88	0.55
5:R:84:SER:HA	5:R:99:HIS:HA	1.88	0.54
2:B:67:SER:HB2	2:B:322:ASP:HB2	1.89	0.54
2:B:147:SER:OG	2:B:188:MET:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:103:CYS:O	2:B:150:ARG:NH1	2.34	0.53
2:B:156:GLN:NE2	2:B:170:ASP:OD1	2.41	0.53
5:R:110:TRP:HB2	5:R:120:TRP:H	1.74	0.53
2:B:159:THR:OG1	2:B:169:TRP:NE1	2.39	0.53
2:B:57:LYS:HD2	2:B:332:TRP:CD2	2.44	0.52
2:B:61:MET:HA	2:B:71:VAL:O	2.10	0.52
2:B:14:LEU:HD22	3:G:19:LEU:HB3	1.91	0.52
5:R:307:LEU:HA	5:R:310:ARG:HB3	1.91	0.52
2:B:331:SER:OG	2:B:332:TRP:N	2.39	0.52
5:R:148:TYR:CE2	5:R:388:LEU:HD12	2.45	0.52
1:A:235:ILE:HA	1:A:238:PHE:HD2	1.74	0.52
4:N:62:GLY:O	4:N:65:LYS:HG2	2.10	0.52
5:R:211:GLN:HB2	5:R:213:GLN:HB2	1.92	0.52
2:B:160:SER:HB2	2:B:187:VAL:HG12	1.92	0.52
1:A:234:TRP:HD1	1:A:238:PHE:HE2	1.57	0.51
2:B:152:LEU:HB3	2:B:156:GLN:HB2	1.92	0.51
1:A:353:GLY:HA3	1:A:357:HIS:HE1	1.74	0.51
1:A:308:ILE:O	1:A:312:PHE:N	2.44	0.51
5:R:32:LEU:HB3	5:R:205:TYR:CD2	2.43	0.51
2:B:161:SER:OG	2:B:162:GLY:N	2.44	0.51
5:R:189:LEU:HB3	5:R:236:CYS:SG	2.51	0.50
4:N:99:CYS:HB3	4:N:107:CYS:HA	1.94	0.50
5:R:55:PRO:HD2	5:R:64:ARG:HE	1.76	0.50
2:B:160:SER:HB3	2:B:190:LEU:HG	1.93	0.50
2:B:217:MET:HE3	2:B:219:ARG:HG2	1.94	0.50
2:B:264:TYR:HD1	2:B:302:ALA:HA	1.77	0.50
4:N:52:SER:OG	4:N:53:GLN:N	2.45	0.50
5:R:38:LYS:O	5:R:42:TYR:HB3	2.12	0.49
2:B:254:ASP:HB2	2:B:261:LEU:HD11	1.93	0.49
4:N:38:ARG:NE	4:N:46:GLU:OE1	2.32	0.49
1:A:314:GLU:HG2	4:N:65:LYS:HZ3	1.77	0.49
5:R:80:PHE:HE1	5:R:103:PHE:HA	1.78	0.49
1:A:249:ALA:HB1	1:A:293:LYS:HD2	1.93	0.49
5:R:31:SER:C	5:R:33:TRP:N	2.71	0.49
2:B:30:LEU:O	2:B:34:THR:OG1	2.29	0.49
2:B:325:MET:HG2	3:G:60:PRO:HD2	1.94	0.48
5:R:152:TYR:CE1	5:R:392:SER:HA	2.48	0.48
2:B:9:GLN:O	2:B:12:GLU:HG3	2.13	0.48
2:B:139:LEU:HB3	2:B:169:TRP:CE3	2.48	0.48
5:R:412:GLU:HA	5:R:415:LYS:HE2	1.96	0.48
1:A:53:LYS:O	1:A:57:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:128:THR:HG23	2:B:131:GLY:H	1.79	0.48
5:R:343:THR:OG1	5:R:344:ASP:N	2.47	0.48
7:R:703:CLR:H222	7:R:703:CLR:H162	1.55	0.48
1:A:271:LYS:HE3	4:N:47:TRP:CD2	2.48	0.47
2:B:321:THR:OG1	2:B:325:MET:N	2.46	0.47
2:B:42:ARG:HH22	5:R:422:LEU:HD13	1.79	0.47
2:B:79:LEU:HB2	2:B:95:LEU:HD21	1.96	0.47
5:R:416:SER:HA	5:R:419:ARG:HD3	1.97	0.47
1:A:34:LYS:HB2	2:B:55:LEU:HD22	1.95	0.47
2:B:311:HIS:NE2	2:B:329:THR:OG1	2.41	0.47
2:B:197:ARG:O	2:B:213:VAL:HG12	2.14	0.47
5:R:156:PHE:CE2	7:R:705:CLR:H213	2.48	0.47
4:N:28:THR:OG1	4:N:31:ASN:ND2	2.48	0.47
5:R:325:VAL:HG23	7:R:703:CLR:H112	1.96	0.47
5:R:43:ARG:HE	5:R:43:ARG:HB2	1.35	0.47
5:R:46:CYS:HB2	5:R:71:CYS:HB2	1.73	0.47
2:B:73:ALA:HB2	2:B:103:CYS:HB3	1.96	0.47
5:R:226:CYS:HA	5:R:229:VAL:HG12	1.97	0.47
1:A:313:PRO:HB2	1:A:317:ARG:HH22	1.81	0.46
2:B:325:MET:O	2:B:340:ASN:ND2	2.48	0.46
2:B:251:ARG:NH1	2:B:260:GLU:OE2	2.36	0.46
5:R:206:SER:O	5:R:210:GLN:HB3	2.15	0.46
5:R:231:LEU:HD12	5:R:231:LEU:HA	1.78	0.46
2:B:254:ASP:HB3	2:B:257:ALA:HB3	1.97	0.46
4:N:29:PHE:CD2	4:N:74:ASN:HA	2.50	0.46
7:R:706:CLR:H183	7:R:706:CLR:H20	1.85	0.46
4:N:58:ILE:HG23	4:N:70:ILE:HD11	1.97	0.46
2:B:69:LEU:HA	2:B:82:TRP:O	2.17	0.45
5:R:45:GLN:HG3	5:R:48:ARG:HH21	1.82	0.45
5:R:167:LEU:HD21	7:R:704:CLR:H112	1.96	0.45
2:B:83:ASP:O	2:B:87:THR:N	2.50	0.45
1:A:371:ASN:O	1:A:375:VAL:HG12	2.16	0.45
2:B:186:ASP:HB2	2:B:204:CYS:SG	2.56	0.45
2:B:289:TYR:OH	2:B:297:TRP:NE1	2.47	0.45
4:N:18:LEU:HD12	4:N:18:LEU:HA	1.81	0.45
5:R:85:CYS:HA	5:R:100:VAL:HG23	1.97	0.45
1:A:289:LEU:HB3	1:A:361:PRO:HA	1.98	0.45
2:B:104:ALA:HB2	2:B:149:CYS:O	2.17	0.45
1:A:297:LEU:HD12	1:A:300:LYS:HE3	1.98	0.45
2:B:83:ASP:O	2:B:87:THR:HA	2.17	0.45
1:A:44:LEU:HB2	1:A:238:PHE:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:38:ASP:O	2:B:283:ARG:NH2	2.49	0.45
2:B:325:MET:HB3	3:G:61:PHE:HE2	1.81	0.45
5:R:38:LYS:HB3	5:R:88:TYR:HB2	1.99	0.45
5:R:203:TRP:O	5:R:207:THR:HG23	2.17	0.45
1:A:315:PHE:O	1:A:336:ARG:NH2	2.50	0.45
2:B:220:GLN:NE2	2:B:258:ASP:OD1	2.43	0.44
5:R:260:LEU:HD13	5:R:265:ILE:HG12	1.99	0.44
1:A:56:ILE:HA	1:A:59:GLN:HE21	1.83	0.44
1:A:297:LEU:O	1:A:301:VAL:HG12	2.18	0.44
1:A:233:LYS:HD3	1:A:233:LYS:HA	1.73	0.44
1:A:280:LYS:HA	1:A:283:ARG:HG3	2.00	0.44
5:R:36:VAL:HG22	5:R:40:ARG:HH21	1.83	0.44
5:R:111:LEU:HD13	5:R:117:SER:HA	1.98	0.44
1:A:370:GLU:OE2	1:A:374:ARG:NH2	2.50	0.44
5:R:382:ILE:O	5:R:386:THR:HG22	2.18	0.44
4:N:37:VAL:HG12	4:N:47:TRP:HA	1.99	0.44
7:R:706:CLR:H222	7:R:706:CLR:H162	1.55	0.44
1:A:220:HIS:HB3	1:A:222:PHE:CZ	2.53	0.43
2:B:279:SER:HB3	2:B:284:LEU:HB2	2.00	0.43
2:B:294:CYS:HB2	2:B:308:LEU:HB2	2.00	0.43
5:R:72:TRP:NE1	5:R:102:ARG:HH12	2.17	0.43
7:R:705:CLR:H182	7:R:705:CLR:H8	1.82	0.43
4:N:49:SER:OG	4:N:70:ILE:HD13	2.19	0.43
1:A:354:ASP:OD1	1:A:354:ASP:N	2.42	0.43
4:N:115:TYR:H	4:N:118:ARG:NH2	2.17	0.43
1:A:279:ASN:HA	4:N:106:ASP:OD2	2.18	0.43
2:B:149:CYS:O	2:B:150:ARG:HD3	2.18	0.43
5:R:156:PHE:CE1	5:R:192:LEU:HG	2.53	0.43
2:B:72:SER:OG	2:B:82:TRP:NE1	2.41	0.43
2:B:109:GLY:O	2:B:127:LYS:HE2	2.19	0.43
2:B:61:MET:HE3	2:B:61:MET:HB3	1.67	0.43
2:B:198:LEU:HD23	2:B:212:ASP:HA	2.01	0.43
1:A:346:LEU:HA	1:A:349:SER:HB3	2.00	0.43
5:R:421:ARG:HA	5:R:421:ARG:NE	2.34	0.43
1:A:31:GLN:O	1:A:35:GLN:HG3	2.18	0.43
1:A:239:ASN:HD21	1:A:281:TRP:HB3	1.84	0.43
5:R:109:LEU:HD13	5:R:109:LEU:HA	1.92	0.43
2:B:201:SER:O	2:B:208:ALA:HA	2.19	0.42
7:R:702:CLR:H183	7:R:702:CLR:H20	1.88	0.42
2:B:76:ASP:OD1	2:B:76:ASP:N	2.52	0.42
5:R:156:PHE:CE1	5:R:188:ILE:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:THR:OG1	1:A:365:CYS:N	2.52	0.42
1:A:340:PHE:O	1:A:344:GLU:HG2	2.19	0.42
2:B:292:PHE:HB3	2:B:311:HIS:O	2.19	0.42
5:R:189:LEU:HD23	5:R:189:LEU:HA	1.88	0.42
1:A:19:GLN:HB3	2:B:88:ASN:HD22	1.85	0.42
5:R:226:CYS:SG	5:R:227:ARG:N	2.93	0.42
2:B:180:PHE:HB3	2:B:211:TRP:CE3	2.55	0.42
5:R:38:LYS:HB3	5:R:38:LYS:HE2	1.59	0.42
1:A:30:LEU:HD12	2:B:89:LYS:HE3	2.02	0.42
2:B:195:ASP:OD1	2:B:195:ASP:N	2.53	0.42
2:B:289:TYR:HB2	2:B:293:ASN:O	2.20	0.42
5:R:55:PRO:HD2	5:R:64:ARG:NE	2.34	0.42
2:B:160:SER:HB2	2:B:187:VAL:CG1	2.49	0.41
2:B:283:ARG:HD2	2:B:300:LEU:HG	2.02	0.41
5:R:172:LEU:O	5:R:177:ASN:ND2	2.33	0.41
5:R:40:ARG:HA	5:R:43:ARG:NE	2.35	0.41
5:R:213:GLN:C	5:R:215:ASP:H	2.27	0.41
1:A:19:GLN:OE1	2:B:86:THR:OG1	2.26	0.41
5:R:42:TYR:HE1	5:R:70:ALA:HA	1.85	0.41
5:R:154:LEU:HA	5:R:154:LEU:HD23	1.73	0.41
1:A:232:ARG:N	4:N:109:ASP:OD2	2.54	0.41
1:A:251:SER:OG	1:A:296:LEU:HB3	2.19	0.41
2:B:42:ARG:NH2	5:R:422:LEU:HD13	2.36	0.41
2:B:249:THR:HG21	2:B:251:ARG:HH21	1.85	0.41
2:B:264:TYR:CD1	2:B:302:ALA:HA	2.54	0.41
3:G:10:ALA:HA	3:G:13:ARG:HG2	2.01	0.41
7:R:704:CLR:H222	7:R:704:CLR:H162	1.79	0.41
2:B:43:ILE:HG22	2:B:45:MET:HG3	2.02	0.41
2:B:83:ASP:O	2:B:87:THR:CA	2.69	0.41
2:B:274:THR:OG1	2:B:315:VAL:O	2.34	0.41
5:R:227:ARG:HH21	5:R:294:GLU:HA	1.85	0.41
1:A:54:ASN:OD1	1:A:55:THR:N	2.53	0.41
1:A:365:CYS:SG	1:A:368:ASP:HB2	2.61	0.41
2:B:108:SER:OG	2:B:110:ASN:ND2	2.54	0.41
2:B:340:ASN:ND2	3:G:59:ASN:OD1	2.54	0.41
5:R:193:SER:OG	5:R:233:MET:HG2	2.21	0.41
2:B:251:ARG:HD2	2:B:260:GLU:CD	2.45	0.41
5:R:156:PHE:HE1	5:R:188:ILE:HG23	1.86	0.41
5:R:284:TRP:HE1	5:R:306:TRP:HA	1.85	0.41
1:A:42:ARG:O	1:A:241:VAL:HG13	2.21	0.41
1:A:383:ILE:HD13	1:A:383:ILE:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:102:ARG:HD2	5:R:121:ARG:NH2	2.30	0.41
1:A:278:ASN:C	4:N:106:ASP:HB3	2.47	0.40
1:A:301:VAL:HG13	1:A:334:VAL:HG22	2.02	0.40
5:R:121:ARG:HB3	5:R:123:LEU:HD23	2.03	0.40
4:N:2:VAL:HG11	4:N:117:TYR:CD1	2.57	0.40
5:R:39:TRP:HA	5:R:39:TRP:CE3	2.56	0.40
2:B:180:PHE:HB3	2:B:211:TRP:CD2	2.56	0.40
7:R:704:CLR:H182	7:R:704:CLR:H8	1.86	0.40
7:R:704:CLR:H193	7:R:704:CLR:H111	1.88	0.40
1:A:38:ARG:HH22	5:R:261:SER:HA	1.87	0.40
2:B:79:LEU:HD11	2:B:103:CYS:HB2	2.04	0.40
3:G:15:LEU:O	3:G:19:LEU:HG	2.21	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	229/394 (58%)	219 (96%)	10 (4%)	0	100	100
2	B	336/345 (97%)	327 (97%)	9 (3%)	0	100	100
3	G	54/70 (77%)	54 (100%)	0	0	100	100
4	N	124/140 (89%)	116 (94%)	8 (6%)	0	100	100
5	R	361/440 (82%)	344 (95%)	17 (5%)	0	100	100
All	All	1104/1389 (80%)	1060 (96%)	44 (4%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	211/349 (60%)	209 (99%)	2 (1%)	75	85
2	B	281/287 (98%)	279 (99%)	2 (1%)	81	88
3	G	45/57 (79%)	45 (100%)	0	100	100
4	N	104/116 (90%)	101 (97%)	3 (3%)	37	63
5	R	335/392 (86%)	297 (89%)	38 (11%)	4	18
All	All	976/1201 (81%)	931 (95%)	45 (5%)	25	52

All (45) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	331	ASP
1	A	357	HIS
2	B	228	ASP
2	B	285	LEU
4	N	2	VAL
4	N	93	VAL
4	N	99	CYS
5	R	29	THR
5	R	30	VAL
5	R	31	SER
5	R	32	LEU
5	R	33	TRP
5	R	34	GLU
5	R	35	THR
5	R	37	GLN
5	R	38	LYS
5	R	39	TRP
5	R	40	ARG
5	R	42	TYR
5	R	43	ARG
5	R	46	CYS
5	R	48	ARG
5	R	49	SER

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Mol	Chain	Res	Type
5	R	52	GLU
5	R	64	ARG
5	R	138	GLU
5	R	139	GLU
5	R	140	GLN
5	R	142	LEU
5	R	145	TYR
5	R	146	ILE
5	R	147	ILE
5	R	148	TYR
5	R	149	THR
5	R	203	TRP
5	R	204	MET
5	R	206	SER
5	R	210	GLN
5	R	411	LEU
5	R	412	GLU
5	R	414	ARG
5	R	416	SER
5	R	418	GLU
5	R	421	ARG
5	R	422	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	GLN
1	A	213	GLN
1	A	239	ASN
1	A	371	ASN
2	B	91	HIS
2	B	110	ASN
2	B	340	ASN
4	N	31	ASN
5	R	99	HIS
5	R	173	HIS
5	R	180	HIS
5	R	407	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

7 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
7	CLR	R	702	-	31,31,31	0.69	0	48,48,48	1.45	6 (12%)
7	CLR	R	707	-	31,31,31	0.60	0	48,48,48	1.20	2 (4%)
7	CLR	R	704	-	31,31,31	0.73	0	48,48,48	1.41	4 (8%)
7	CLR	R	706	-	31,31,31	0.65	0	48,48,48	1.29	4 (8%)
7	CLR	R	705	-	31,31,31	0.95	1 (3%)	48,48,48	1.37	7 (14%)
7	CLR	R	703	-	31,31,31	0.78	0	48,48,48	1.45	6 (12%)
6	HNO	R	701	5	17,18,18	1.31	3 (17%)	25,27,27	2.10	5 (20%)

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
7	CLR	R	702	-	-	6/10/68/68	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	CLR	R	707	-	-	4/10/68/68	0/4/4/4
7	CLR	R	704	-	-	5/10/68/68	0/4/4/4
7	CLR	R	706	-	-	4/10/68/68	0/4/4/4
7	CLR	R	705	-	-	2/10/68/68	0/4/4/4
7	CLR	R	703	-	-	10/10/68/68	0/4/4/4
6	HNO	R	701	5	-	0/5/5/5	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	R	701	HNO	C21-C20	-2.92	1.36	1.42
7	R	705	CLR	C20-C17	2.70	1.59	1.54
6	R	701	HNO	C23-CL1	2.14	1.78	1.73
6	R	701	HNO	C24-CL2	2.11	1.78	1.73

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	R	701	HNO	C12-C14-N28	-8.79	118.20	121.96
7	R	704	CLR	C13-C17-C20	-4.43	112.54	119.49
7	R	706	CLR	C13-C17-C20	-4.26	112.81	119.49
7	R	703	CLR	C13-C17-C20	-4.23	112.87	119.49
7	R	702	CLR	C13-C17-C20	-4.05	113.14	119.49
7	R	705	CLR	C13-C14-C8	-3.93	108.56	114.38
7	R	702	CLR	C10-C9-C8	-3.92	106.86	112.73
7	R	703	CLR	C13-C14-C8	-3.81	108.73	114.38
7	R	704	CLR	C13-C14-C8	-3.73	108.86	114.38
7	R	705	CLR	C7-C8-C9	3.65	114.14	109.71
7	R	707	CLR	C13-C17-C20	-3.61	113.84	119.49
7	R	704	CLR	C7-C8-C9	3.49	113.95	109.71
7	R	703	CLR	C10-C9-C8	-3.33	107.74	112.73
7	R	704	CLR	C10-C9-C8	-3.21	107.92	112.73
7	R	703	CLR	C21-C20-C17	-3.11	108.16	112.92
7	R	702	CLR	C13-C14-C8	-2.91	110.07	114.38
6	R	701	HNO	C22-C21-N13	2.81	121.17	117.97
7	R	703	CLR	C7-C8-C9	2.77	113.07	109.71
6	R	701	HNO	C14-N28-C20	2.71	120.62	117.13
7	R	705	CLR	C21-C20-C22	-2.54	106.38	110.36
6	R	701	HNO	C12-N13-C21	2.50	119.92	116.91
7	R	706	CLR	C10-C9-C8	-2.50	108.99	112.73
7	R	702	CLR	C21-C20-C17	-2.49	109.10	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	R	705	CLR	C21-C20-C17	2.47	116.70	112.92
7	R	706	CLR	C23-C22-C20	-2.45	107.99	115.03
7	R	705	CLR	C23-C22-C20	-2.41	108.12	115.03
7	R	706	CLR	C8-C7-C6	-2.37	109.33	112.73
7	R	705	CLR	C14-C8-C9	-2.30	106.00	109.09
7	R	703	CLR	C16-C17-C20	2.18	115.52	112.15
6	R	701	HNO	C20-C21-N13	-2.15	118.95	121.00
7	R	707	CLR	C8-C7-C6	-2.11	109.69	112.73
7	R	702	CLR	C23-C22-C20	-2.09	109.03	115.03
7	R	705	CLR	C11-C9-C10	-2.05	110.38	113.08
7	R	702	CLR	C3-C4-C5	-2.00	108.63	112.03

There are no chirality outliers.

All (31) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	R	702	CLR	C13-C17-C20-C21
7	R	702	CLR	C16-C17-C20-C22
7	R	703	CLR	C13-C17-C20-C21
7	R	703	CLR	C13-C17-C20-C22
7	R	703	CLR	C16-C17-C20-C22
7	R	704	CLR	C13-C17-C20-C21
7	R	702	CLR	C16-C17-C20-C21
7	R	703	CLR	C16-C17-C20-C21
7	R	702	CLR	C13-C17-C20-C22
7	R	704	CLR	C13-C17-C20-C22
7	R	704	CLR	C16-C17-C20-C21
7	R	704	CLR	C16-C17-C20-C22
7	R	707	CLR	C13-C17-C20-C21
7	R	706	CLR	C13-C17-C20-C22
7	R	707	CLR	C13-C17-C20-C22
7	R	706	CLR	C13-C17-C20-C21
7	R	702	CLR	C22-C23-C24-C25
7	R	703	CLR	C21-C20-C22-C23
7	R	704	CLR	C20-C22-C23-C24
7	R	703	CLR	C17-C20-C22-C23
7	R	705	CLR	C23-C24-C25-C26
7	R	705	CLR	C23-C24-C25-C27
7	R	707	CLR	C16-C17-C20-C21
7	R	706	CLR	C16-C17-C20-C21
7	R	707	CLR	C16-C17-C20-C22
7	R	703	CLR	C22-C23-C24-C25

Continued on next page...

Continued from previous page...

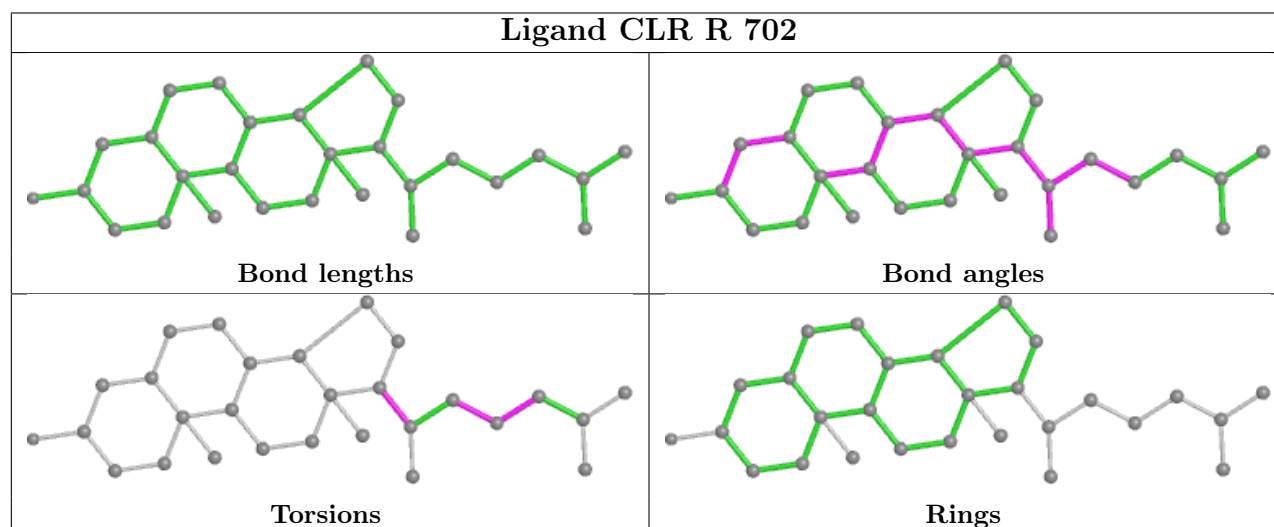
Mol	Chain	Res	Type	Atoms
7	R	702	CLR	C20-C22-C23-C24
7	R	706	CLR	C16-C17-C20-C22
7	R	703	CLR	C20-C22-C23-C24
7	R	703	CLR	C23-C24-C25-C26
7	R	703	CLR	C23-C24-C25-C27

There are no ring outliers.

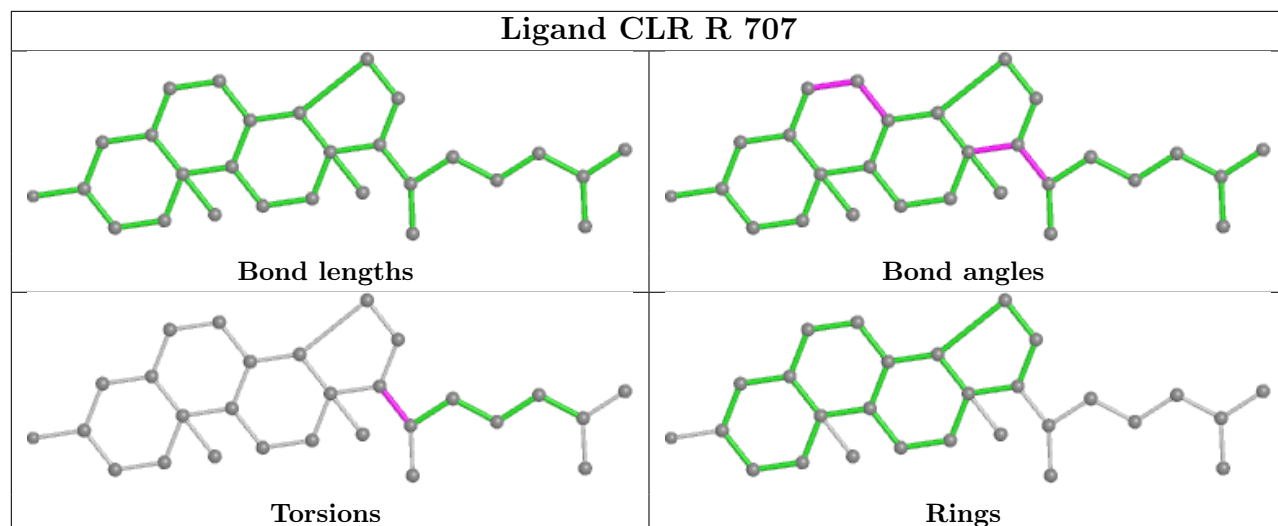
5 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	R	702	CLR	1	0
7	R	704	CLR	4	0
7	R	706	CLR	2	0
7	R	705	CLR	3	0
7	R	703	CLR	2	0

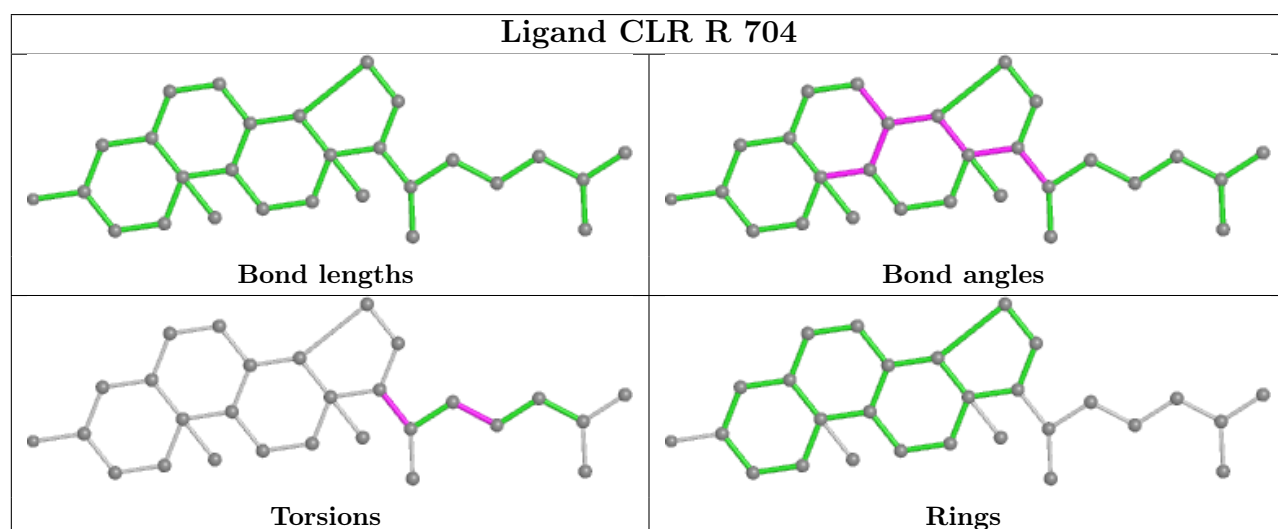
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



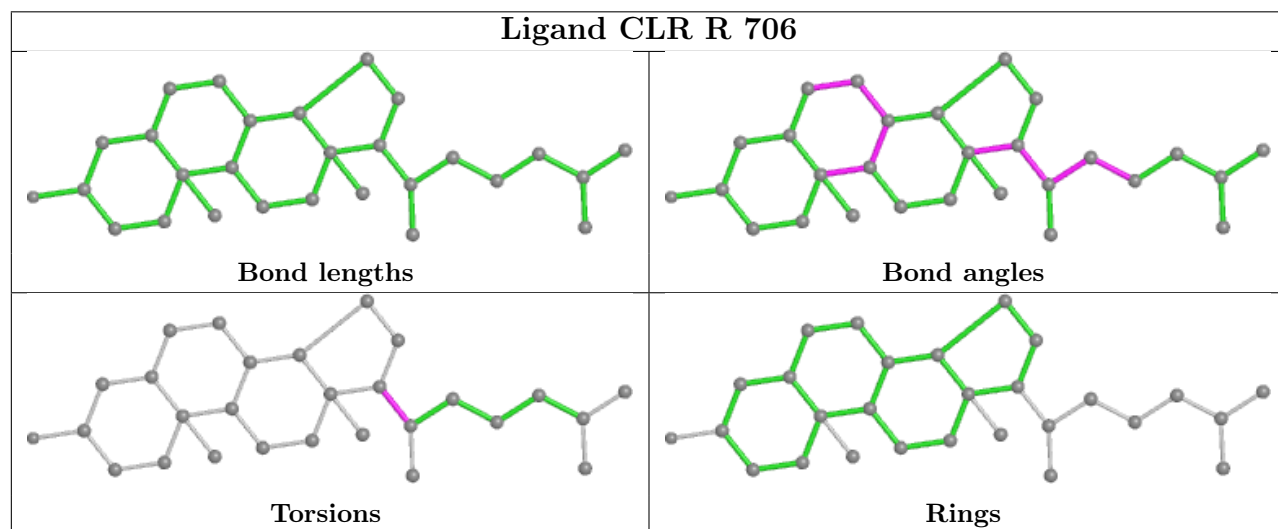
Ligand CLR R 707

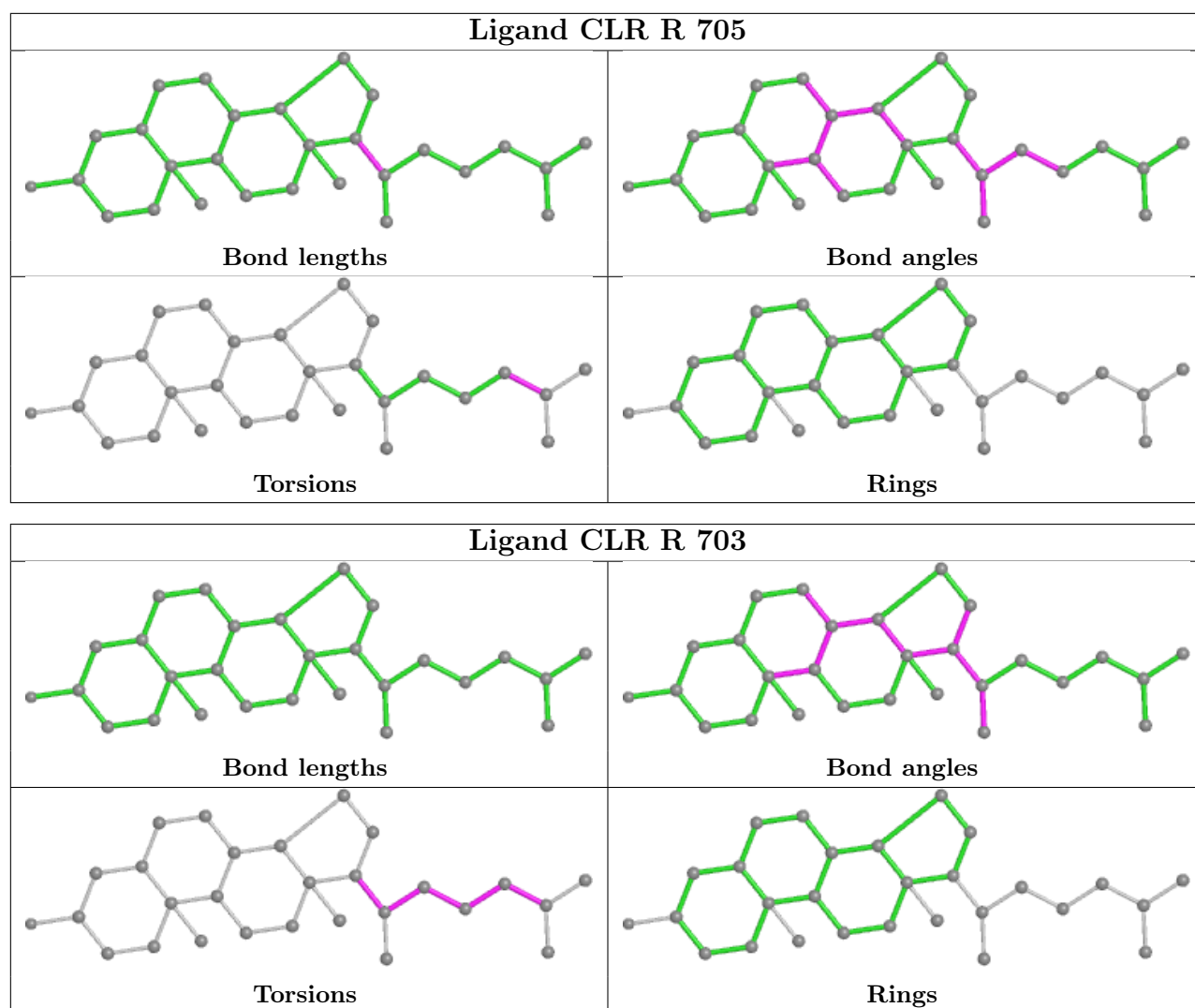


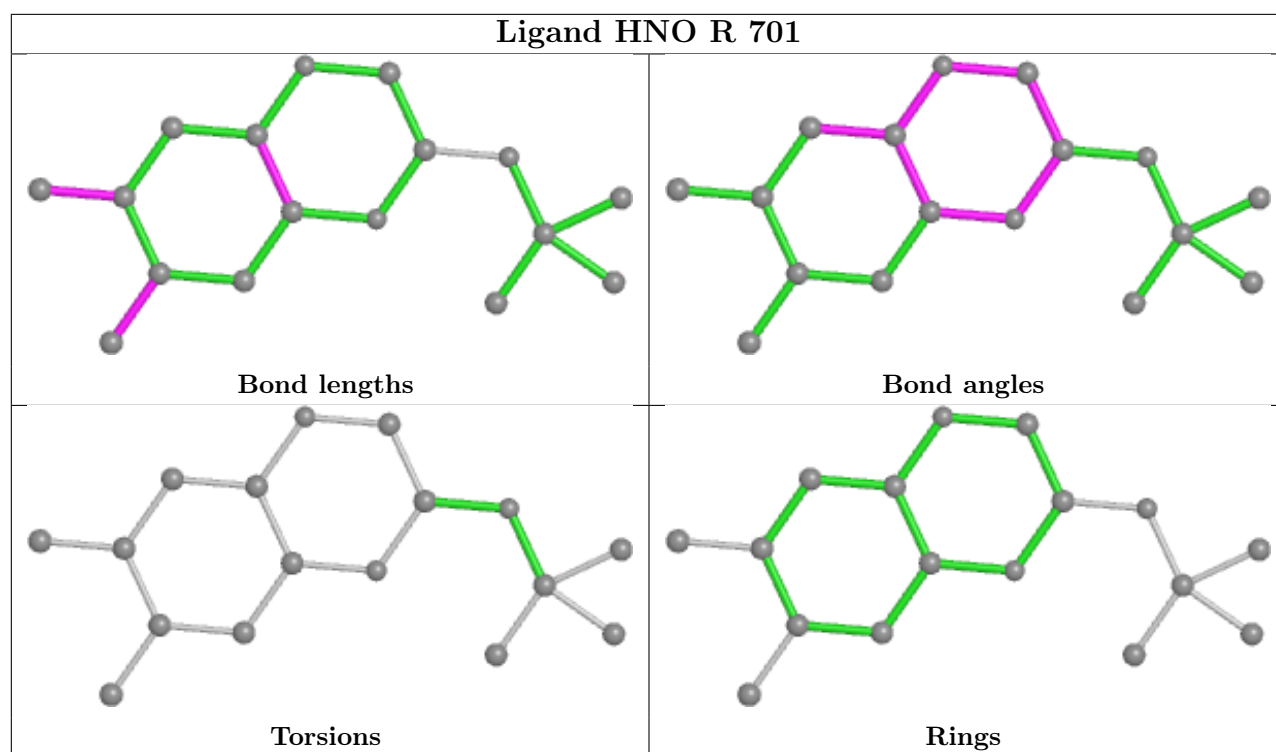
Ligand CLR R 704



Ligand CLR R 706







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.

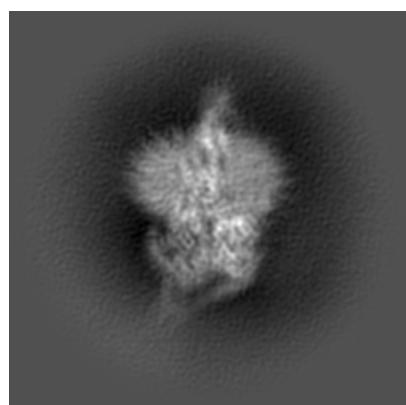
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-30867. These allow visual inspection of the internal detail of the map and identification of artifacts.

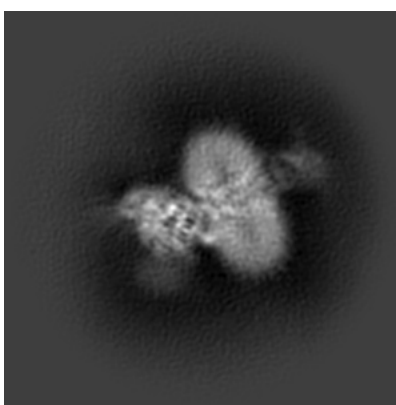
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

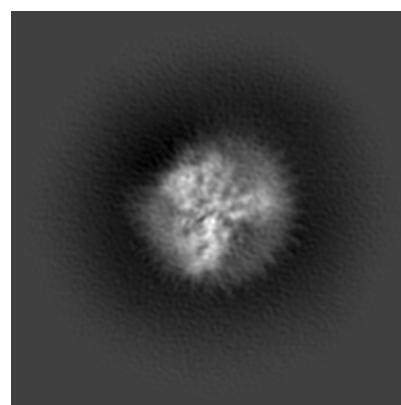
6.1.1 Primary map



X



Y

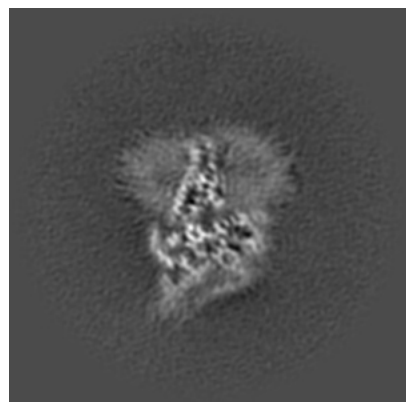


Z

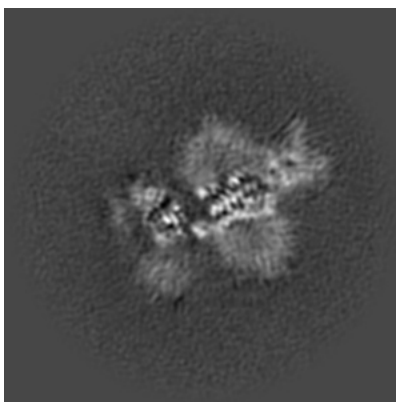
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

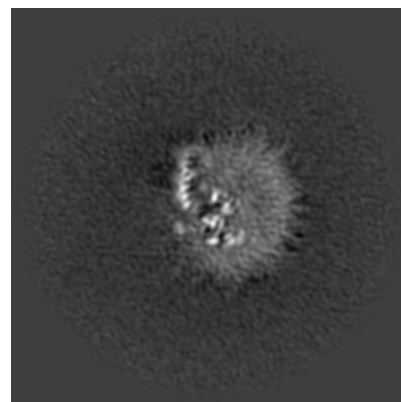
6.2.1 Primary map



X Index: 128



Y Index: 128

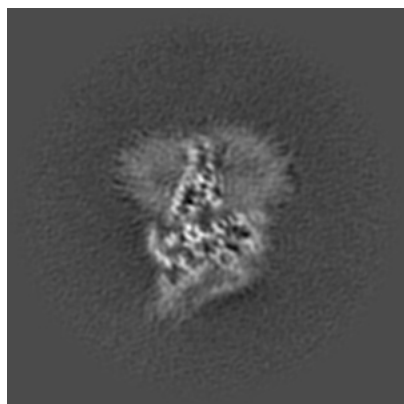


Z Index: 128

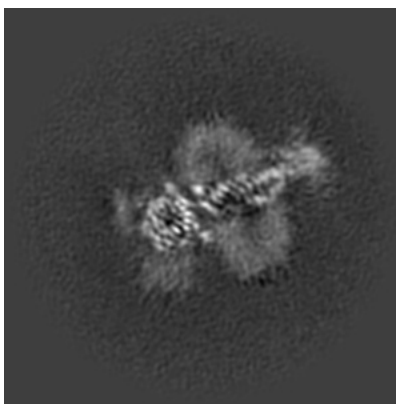
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

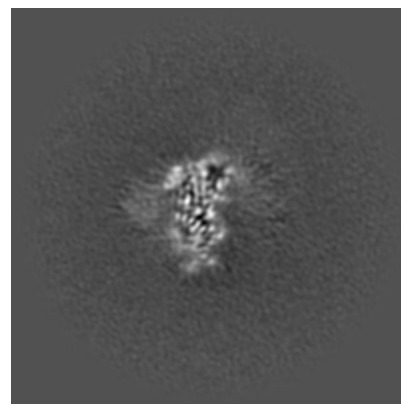
6.3.1 Primary map



X Index: 128



Y Index: 134

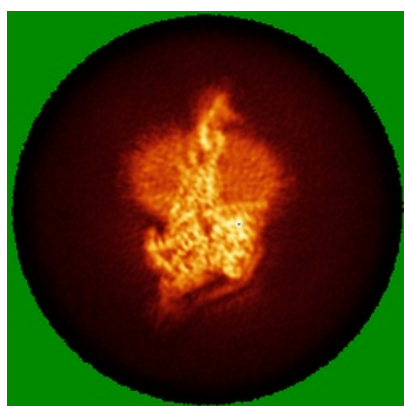


Z Index: 111

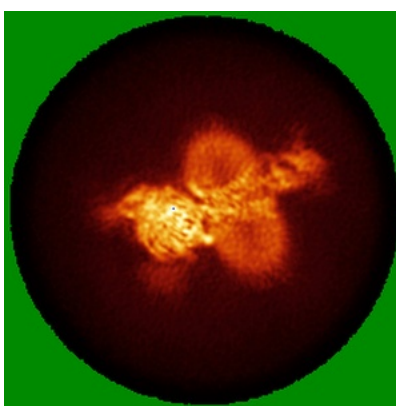
The images above show the largest variance slices of the map in three orthogonal directions.

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

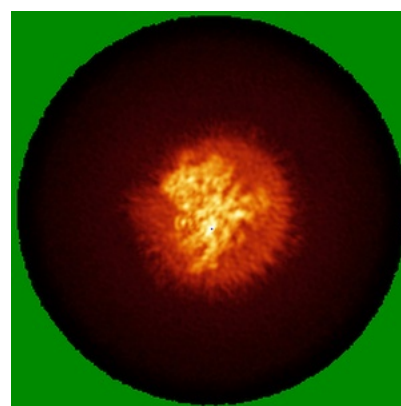
6.4.1 Primary map



X



Y



Z

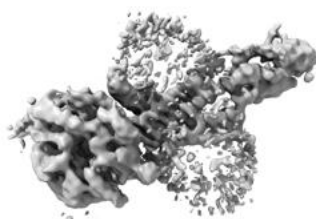
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

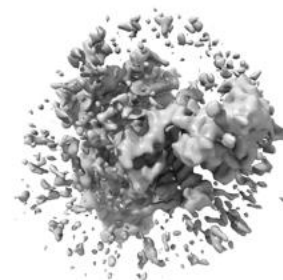
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.11. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

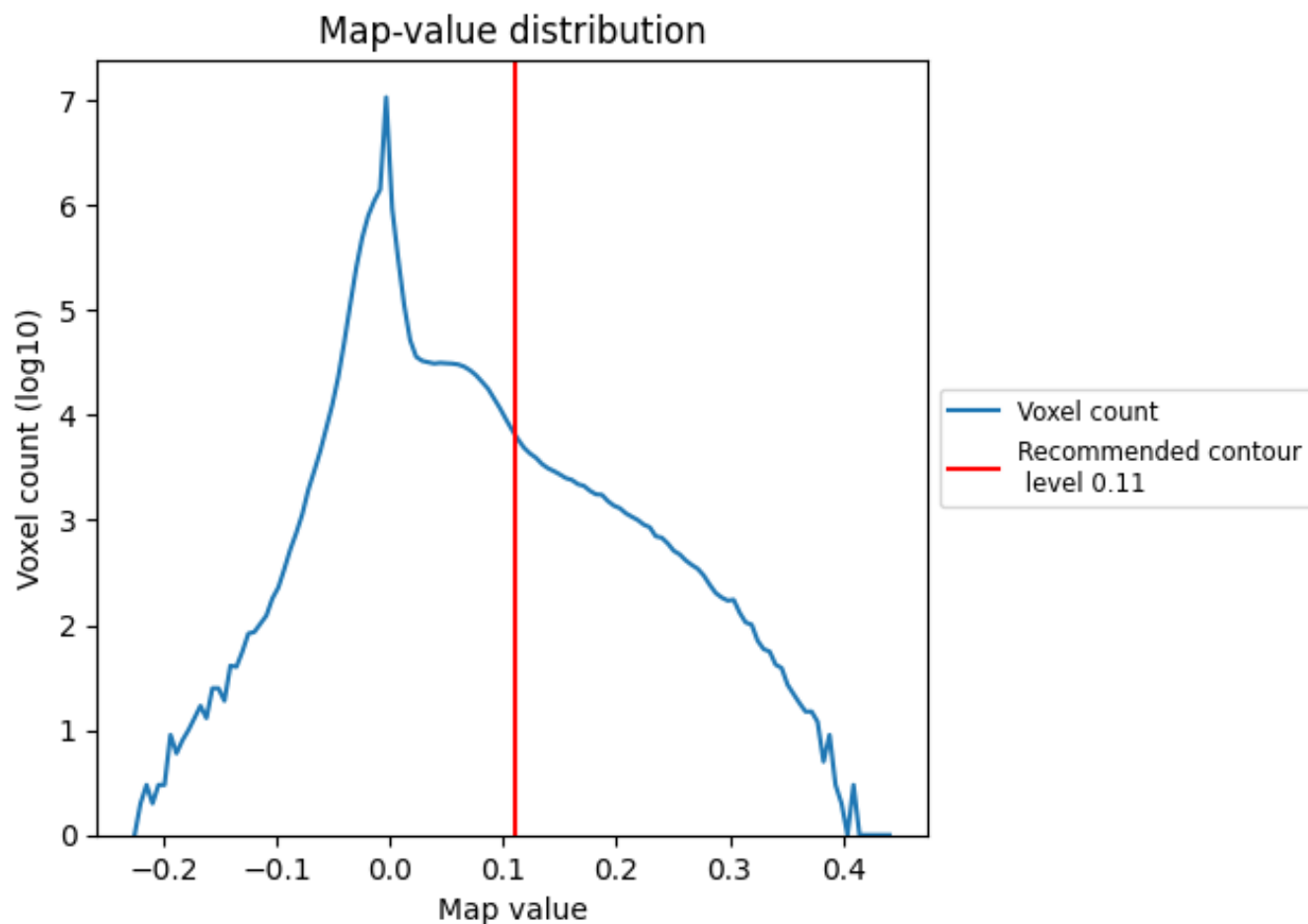
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

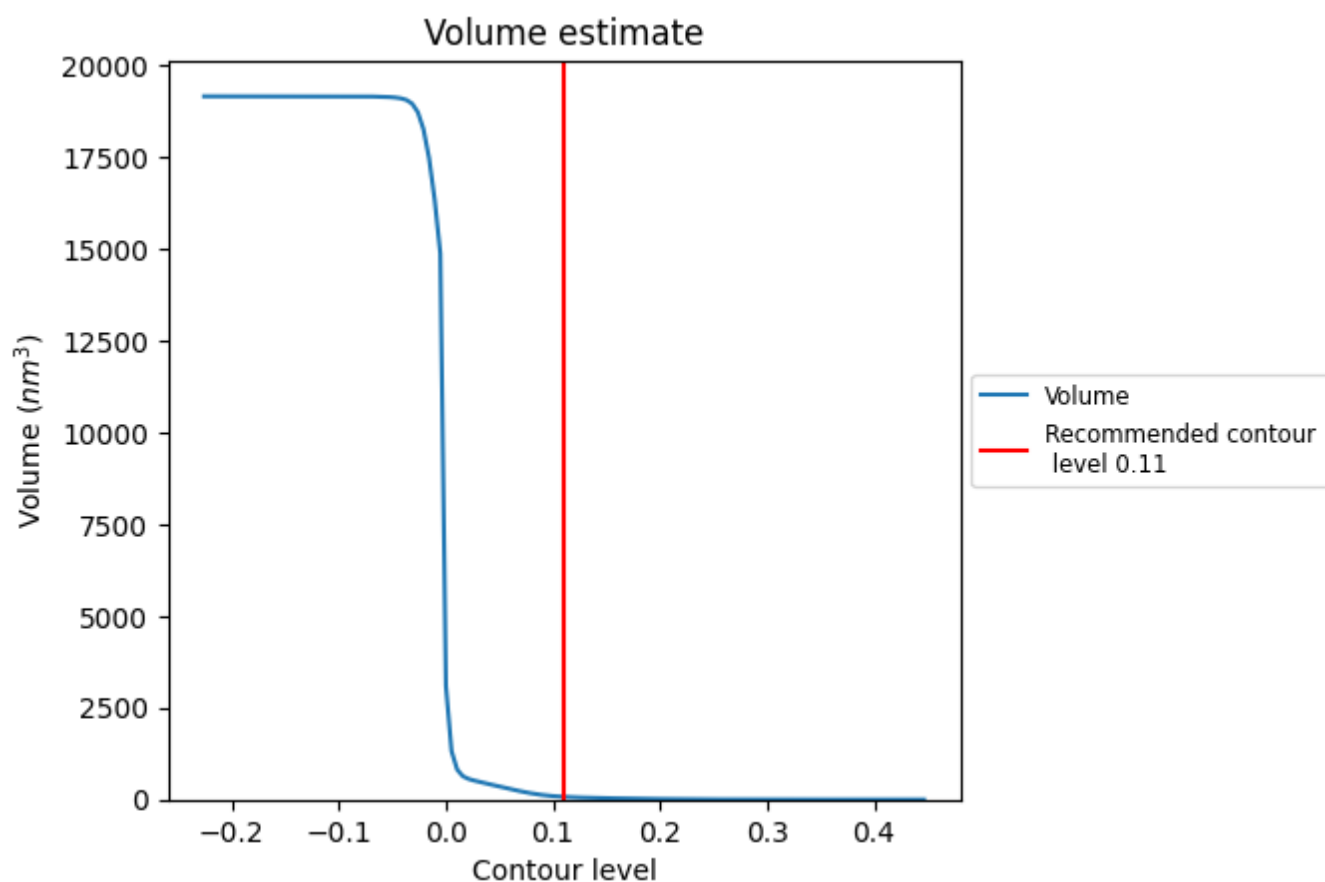
This section contains the results of statistical analysis of the map.

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.

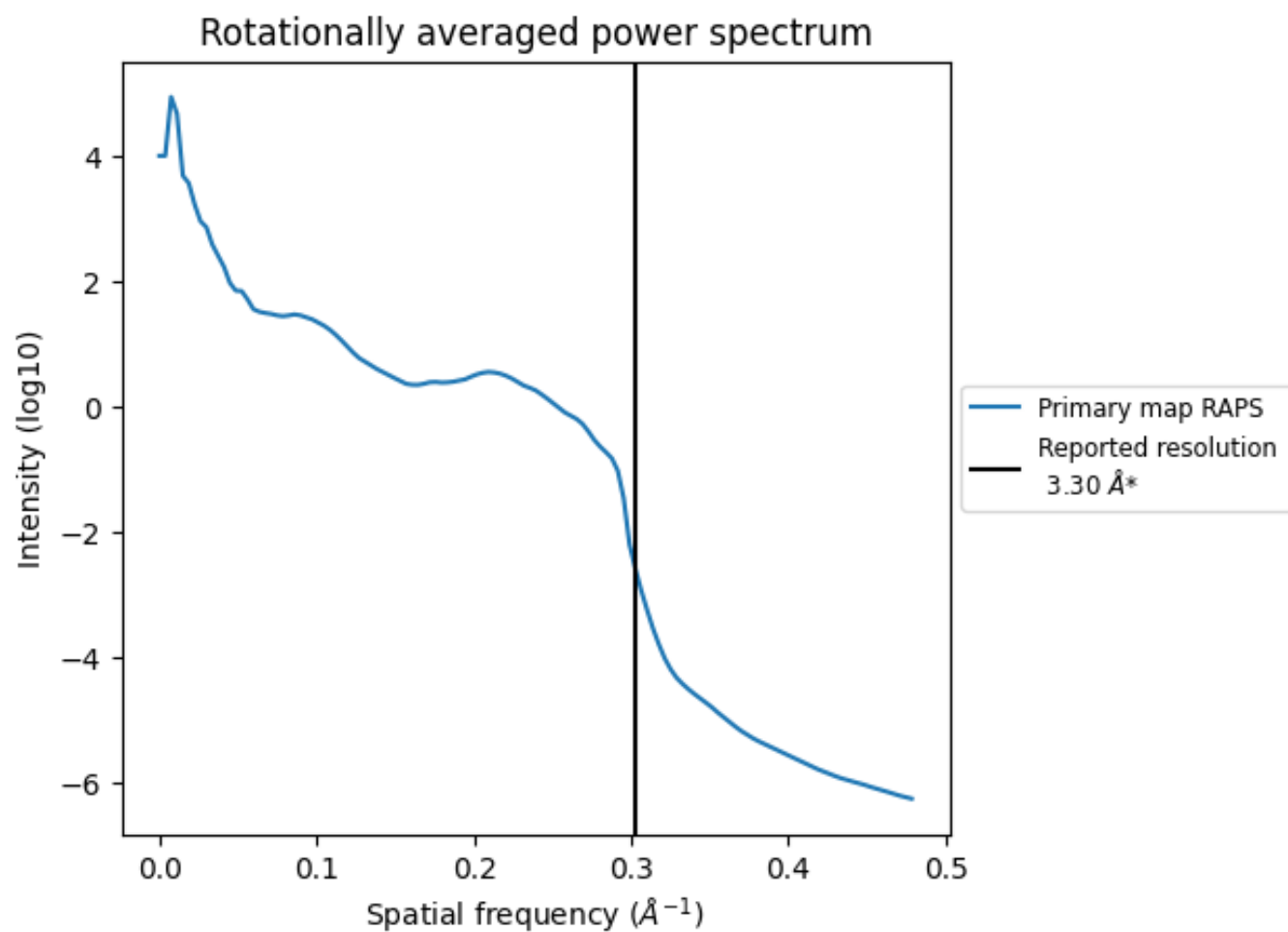
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 74 nm³; this corresponds to an approximate mass of 67 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.303 Å⁻¹

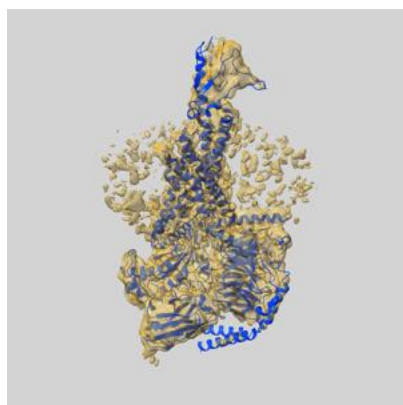
8 Fourier-Shell correlation ⓘ

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

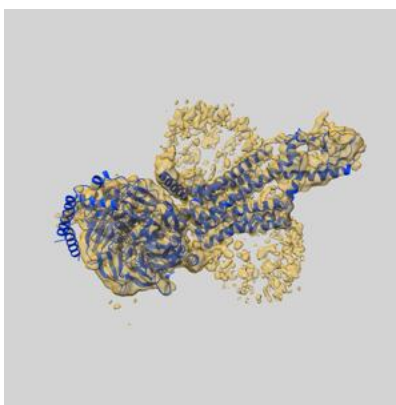
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-30867 and PDB model 7DUR. Per-residue inclusion information can be found in section [3](#) on page [6](#).

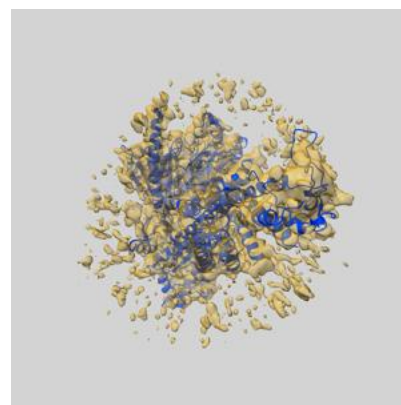
9.1 Map-model overlay [i](#)



X



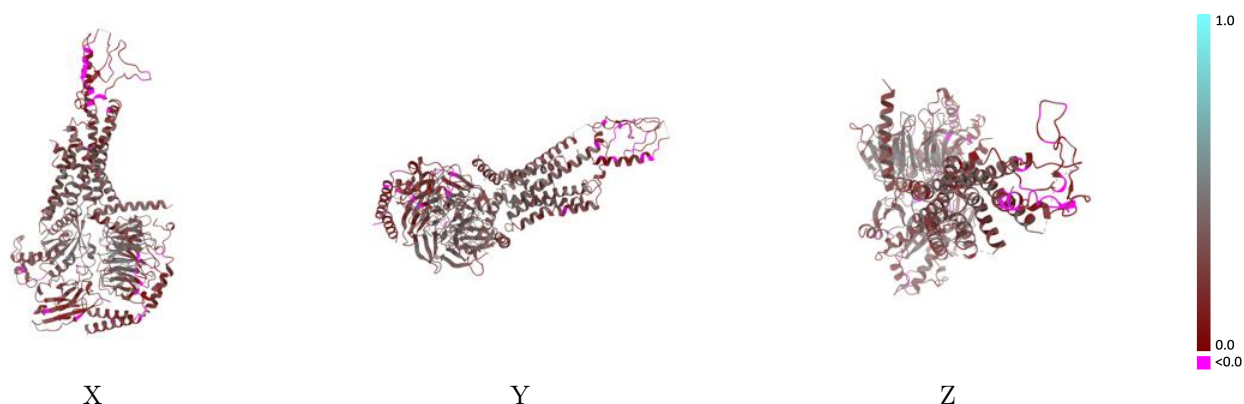
Y



Z

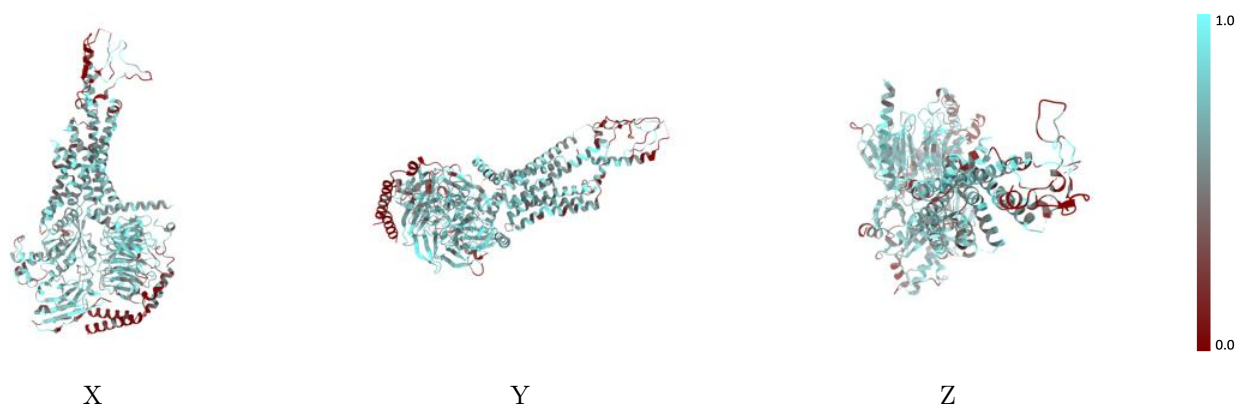
The images above show the 3D surface view of the map at the recommended contour level 0.11 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



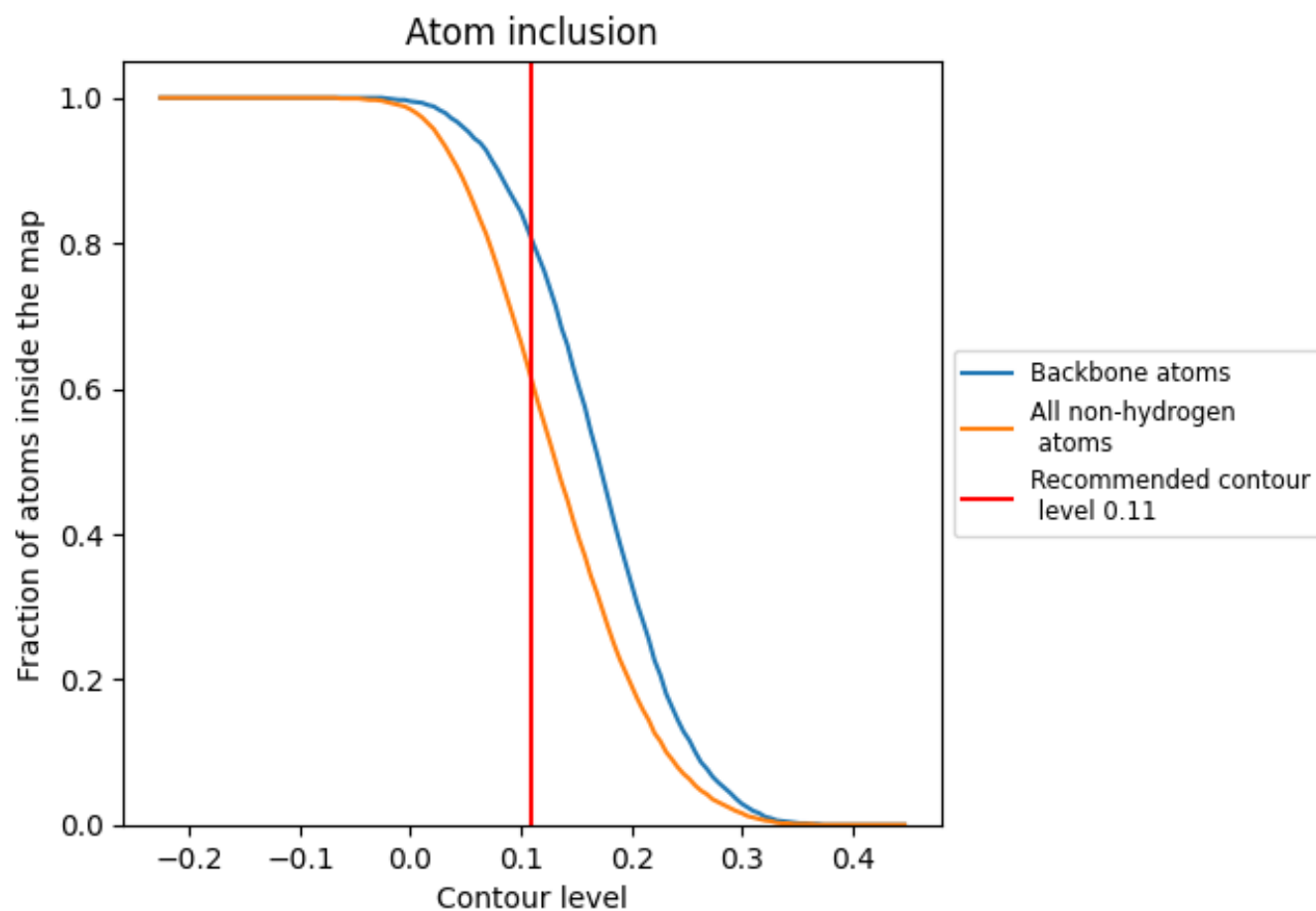
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.11).

9.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 61% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.11) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6090	0.2730
A	0.6460	0.2960
B	0.6510	0.2960
G	0.2910	0.1730
N	0.6760	0.2480
R	0.5760	0.2610

