



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 03:31 PM UTC

PDB ID : 6TA7 / pdb_00006ta7
Title : CRYSTAL STRUCTURE OF HUMAN G3BP1-NTF2 IN COMPLEX WITH
HUMAN CAPRIN1-DERIVED SOLOMON MOTIF
Authors : Schulte, T.; Achour, A.; Panas, M.D.; McInerney, G.M.
Deposited on : 2019-10-29
Resolution : 1.93 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

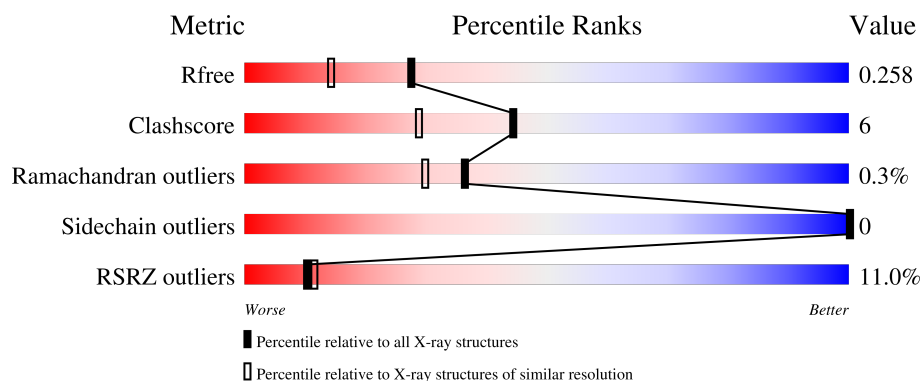
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.93 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.



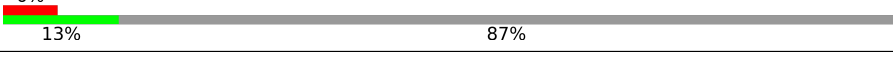
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1452 (1.94-1.94)
Clashscore	190562	1494 (1.94-1.94)
Ramachandran outliers	187476	1479 (1.94-1.94)
Sidechain outliers	187428	1479 (1.94-1.94)
RSRZ outliers	180081	1453 (1.94-1.94)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	140	4% 84% 10% 6%
1	B	140	7% 84% 9% 7%
1	C	140	11% 81% 10% 9%
1	D	140	8% 80% 9% 11%
1	E	140	10% 76% 14% 11%

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Mol	Chain	Length	Quality of chain
1	F	140	
2	G	31	
2	H	31	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 12163 atoms, of which 5647 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Ras GTPase-activating protein-binding protein 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	131	Total	C	H	N	O	S	0	1	0
			2058	671	999	190	191	7			
1	B	130	Total	C	H	N	O	S	0	0	1
			1979	647	960	185	182	5			
1	D	125	Total	C	H	N	O	S	0	0	1
			1936	639	928	185	179	5			
1	F	129	Total	C	H	N	O	S	0	1	0
			1833	629	841	184	172	7			
1	C	128	Total	C	H	N	O	S	0	0	0
			1907	639	904	180	179	5			
1	E	125	Total	C	H	N	O	S	0	0	0
			1918	632	921	183	177	5			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	SER	-	expression tag	UNP Q13283
B	0	SER	-	expression tag	UNP Q13283
D	0	SER	-	expression tag	UNP Q13283
F	0	SER	-	expression tag	UNP Q13283
C	0	SER	-	expression tag	UNP Q13283
E	0	SER	-	expression tag	UNP Q13283

- Molecule 2 is a protein called Caprin-1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	G	20	Total	C	H	N	O	S	0	0	0
			222	85	85	23	27	2			
2	H	4	Total	C	H	N	O		0	0	0
			32	15	9	4	4				

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Na 1	0	0
3	D	1	Total 1	Na 1	0	0

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	1	Total 1	Cl 1	0	0

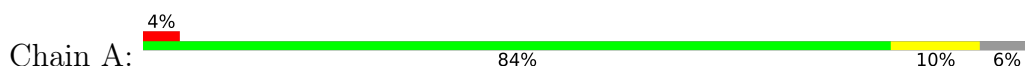
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	63	Total 63	O 63	0	0
5	B	34	Total 34	O 34	0	0
5	D	45	Total 45	O 45	0	0
5	F	40	Total 40	O 40	0	0
5	G	4	Total 4	O 4	0	0
5	C	38	Total 38	O 38	0	0
5	E	51	Total 51	O 51	0	0

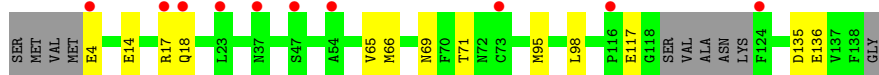
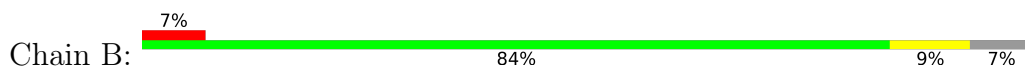
3 Residue-property plots [i](#)

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

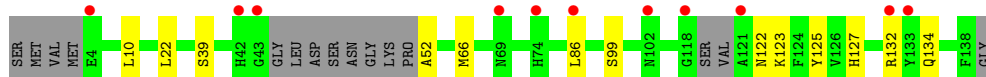
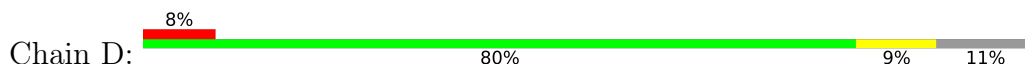
- Molecule 1: Ras GTPase-activating protein-binding protein 1



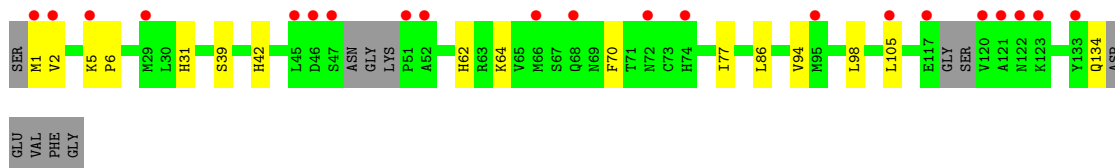
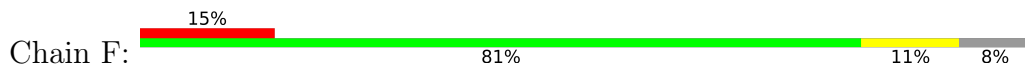
- Molecule 1: Ras GTPase-activating protein-binding protein 1



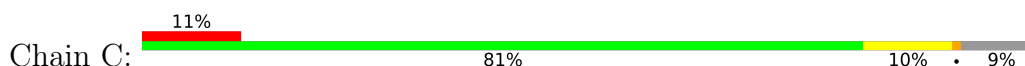
- Molecule 1: Ras GTPase-activating protein-binding protein 1



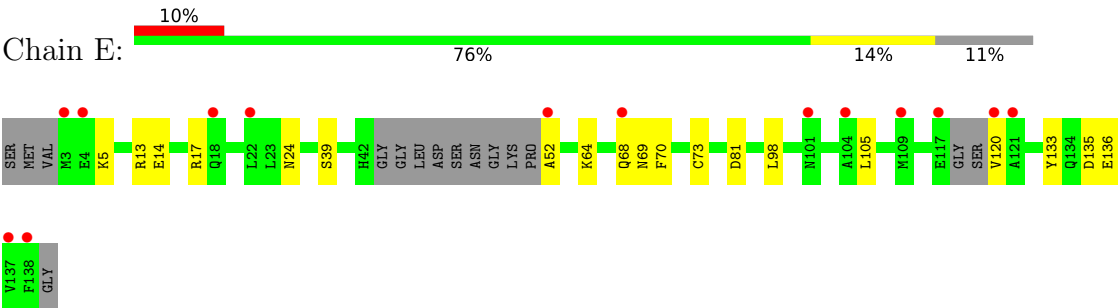
- Molecule 1: Ras GTPase-activating protein-binding protein 1



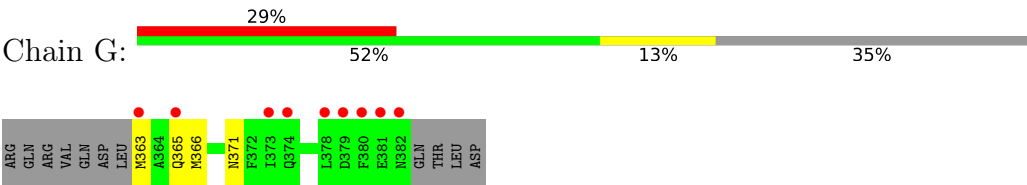
- Molecule 1: Ras GTPase-activating protein-binding protein 1



● Molecule 1: Ras GTPase-activating protein-binding protein 1



● Molecule 2: Caprin-1



● Molecule 2: Caprin-1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	81.56Å 100.04Å 113.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.54 – 1.93 46.54 – 1.93	Depositor EDS
% Data completeness (in resolution range)	94.2 (46.54-1.93) 94.4 (46.54-1.93)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.01 (at 1.92Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.207 , 0.252 0.215 , 0.258	Depositor DCC
R_{free} test set	2100 reflections (2.98%)	wwPDB-VP
Wilson B-factor (Å ²)	40.1	Xtriage
Anisotropy	0.393	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 74.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	12163	wwPDB-VP
Average B, all atoms (Å ²)	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.26% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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: NA, CL

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	0.29	0/1083	0.46	0/1462
1	B	0.29	0/1044	0.46	0/1413
1	C	0.28	0/1027	0.47	0/1388
1	D	0.28	0/1031	0.54	1/1393 (0.1%)
1	E	0.28	0/1020	0.47	0/1378
1	F	0.41	1/1015 (0.1%)	0.47	0/1364
2	G	0.24	0/139	0.41	0/185
2	H	0.13	0/23	0.11	0/28
All	All	0.31	1/6382 (0.0%)	0.48	1/8611 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	2	VAL	CB-CG1	-5.18	1.35	1.52

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	132	ARG	CG-CD-NE	6.31	125.88	112.00

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	1059	999	1013	11	0
1	B	1019	960	961	9	0
1	C	1003	904	940	12	0
1	D	1008	928	962	12	0
1	E	997	921	936	18	0
1	F	992	841	933	15	0
2	G	137	85	111	3	0
2	H	23	9	11	0	0
3	A	1	0	0	0	0
3	D	1	0	0	0	0
4	D	1	0	0	0	0
5	A	63	0	0	5	0
5	B	34	0	0	2	0
5	C	38	0	0	2	0
5	D	45	0	0	3	0
5	E	51	0	0	9	0
5	F	40	0	0	5	0
5	G	4	0	0	0	0
All	All	6516	5647	5867	72	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 6.

All (72) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:5:LYS:O	5:E:201:HOH:O	1.68	1.07
1:A:20:TYR:O	5:A:301:HOH:O	1.79	1.01
1:A:78:ARG:NH2	5:A:302:HOH:O	1.93	0.99
1:B:4:GLU:N	5:B:202:HOH:O	1.95	0.99
1:B:65:VAL:O	5:B:201:HOH:O	1.81	0.98
1:C:81:ASP:OD2	5:C:201:HOH:O	1.85	0.92
1:E:39:SER:OG	5:E:202:HOH:O	1.69	0.88
1:A:13:ARG:NH1	5:A:303:HOH:O	2.06	0.88
1:C:105:LEU:O	5:C:202:HOH:O	1.91	0.87
1:C:46:ASP:HA	1:C:47:SER:CB	2.09	0.82
1:F:42:HIS:O	1:F:64:LYS:NZ	2.14	0.80
1:B:14:GLU:OE2	1:B:18:GLN:NE2	2.15	0.78
1:F:1:MET:SD	1:F:1:MET:C	2.68	0.77
1:F:39:SER:OG	5:F:201:HOH:O	2.05	0.74
1:E:98:LEU:HD22	1:E:133:TYR:OH	1.91	0.71
1:A:76:LYS:HG2	5:A:302:HOH:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:29:MET:SD	1:A:32:ARG:NH1	2.65	0.68
1:F:1:MET:HB2	5:F:203:HOH:O	1.94	0.68
1:D:99:SER:HA	5:D:306:HOH:O	1.94	0.67
1:D:52:ALA:O	5:D:302:HOH:O	2.13	0.66
1:E:120:VAL:N	5:E:205:HOH:O	2.30	0.64
1:E:13:ARG:NE	5:E:206:HOH:O	2.31	0.64
1:D:123:LYS:HE2	2:G:371:ASN:OD1	1.98	0.63
1:F:70:PHE:C	5:F:204:HOH:O	2.41	0.63
1:A:46:ASP:OD1	1:A:48:ASN:N	2.33	0.62
1:F:1:MET:N	5:F:203:HOH:O	2.31	0.62
1:C:46:ASP:CA	1:C:47:SER:CB	2.78	0.61
1:F:105:LEU:H	1:F:105:LEU:HD23	1.65	0.61
1:A:1:MET:HE1	1:B:17:ARG:HG3	1.85	0.59
1:F:86:LEU:H	1:F:86:LEU:HD23	1.67	0.59
1:B:95:MET:HE1	1:F:134:GLN:HA	1.84	0.58
1:D:86:LEU:HD23	1:D:86:LEU:H	1.68	0.58
1:E:81:ASP:OD1	5:E:204:HOH:O	2.17	0.57
1:D:134:GLN:OE1	1:C:107:ARG:NH1	2.38	0.55
1:F:5:LYS:HB3	1:F:6:PRO:HD2	1.89	0.55
1:D:22:LEU:HD13	2:G:366:MET:SD	2.47	0.54
1:C:46:ASP:N	1:C:50:LYS:O	2.36	0.54
1:E:70:PHE:N	5:E:203:HOH:O	2.10	0.52
1:C:66:MET:HE3	1:C:66:MET:HA	1.91	0.52
1:A:78:ARG:CZ	5:A:302:HOH:O	2.48	0.51
1:E:52:ALA:N	5:E:208:HOH:O	2.41	0.51
1:B:66:MET:HA	1:B:66:MET:HE2	1.91	0.51
1:D:10:LEU:HD11	1:E:13:ARG:HD3	1.93	0.51
1:E:98:LEU:C	1:E:105:LEU:HD23	2.37	0.50
1:D:122:ASN:HD21	1:E:17:ARG:NH2	2.10	0.50
1:D:39:SER:OG	5:D:301:HOH:O	1.87	0.49
1:E:98:LEU:HD22	1:E:133:TYR:HH	1.78	0.48
1:D:66:MET:HA	1:D:66:MET:HE2	1.96	0.47
1:B:135:ASP:OD1	1:B:136:GLU:N	2.49	0.46
1:E:14:GLU:OE1	1:E:17:ARG:NH2	2.43	0.45
1:A:110:GLN:HA	1:A:130:ILE:O	2.16	0.44
1:D:86:LEU:HD11	1:C:86:LEU:O	2.17	0.44
1:B:69:ASN:O	1:B:71:THR:HG23	2.18	0.44
1:F:1:MET:CA	5:F:203:HOH:O	2.64	0.44
2:G:363:MET:HB3	2:G:365:GLN:HG2	2.00	0.43
1:F:31:HIS:HD2	1:F:62:HIS:ND1	2.16	0.43
1:F:1:MET:SD	1:F:1:MET:O	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:125:TYR:OH	1:D:127:HIS:HD2	2.01	0.43
1:A:66:MET:HE2	1:A:66:MET:HA	2.00	0.42
1:E:24:ASN:HB2	1:E:73:CYS:O	2.19	0.42
1:E:69:ASN:CA	5:E:203:HOH:O	2.68	0.42
1:B:98:LEU:HD23	1:B:98:LEU:C	2.44	0.42
1:E:135:ASP:OD1	1:E:136:GLU:N	2.53	0.41
1:C:97:LEU:HB3	1:C:105:LEU:HB3	2.00	0.41
1:A:135:ASP:OD1	1:A:136:GLU:N	2.53	0.41
1:C:110:GLN:HA	1:C:130:ILE:O	2.21	0.41
1:F:77:ILE:HD12	1:F:94:VAL:CG1	2.51	0.41
1:C:135:ASP:OD1	1:C:136:GLU:N	2.54	0.41
1:F:98:LEU:O	1:F:105:LEU:HA	2.21	0.40
1:E:69:ASN:N	5:E:203:HOH:O	2.54	0.40
1:E:64:LYS:O	1:E:68:GLN:HG3	2.20	0.40
1:C:38:SER:HA	1:C:127:HIS:O	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	126/140 (90%)	124 (98%)	2 (2%)	0	100	100
1	B	126/140 (90%)	120 (95%)	5 (4%)	1 (1%)	16	7
1	C	122/140 (87%)	117 (96%)	4 (3%)	1 (1%)	16	7
1	D	119/140 (85%)	117 (98%)	2 (2%)	0	100	100
1	E	119/140 (85%)	116 (98%)	3 (2%)	0	100	100
1	F	123/140 (88%)	118 (96%)	5 (4%)	0	100	100
2	G	18/31 (58%)	18 (100%)	0	0	100	100
2	H	2/31 (6%)	2 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	755/902 (84%)	732 (97%)	21 (3%)	2 (0%)	36	30

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	117	GLU
1	C	46	ASP

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 X-ray entries followed by that with respect to entries of similar resolution.

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	114/122 (93%)	114 (100%)	0	100	100
1	B	106/122 (87%)	106 (100%)	0	100	100
1	C	103/122 (84%)	103 (100%)	0	100	100
1	D	107/122 (88%)	107 (100%)	0	100	100
1	E	104/122 (85%)	104 (100%)	0	100	100
1	F	100/122 (82%)	100 (100%)	0	100	100
2	G	12/29 (41%)	12 (100%)	0	100	100
2	H	1/29 (3%)	1 (100%)	0	100	100
All	All	647/790 (82%)	647 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	31	HIS
1	B	58	GLN
1	D	68	GLN
1	D	101	ASN
1	D	102	ASN

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Mol	Chain	Res	Type
1	D	127	HIS
1	F	31	HIS
1	C	127	HIS

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 ⓘ

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	131/140 (93%)	0.31	5 (3%) 44 49	21, 53, 97, 158	1 (0%)
1	B	130/140 (92%)	0.54	10 (7%) 19 22	39, 67, 107, 134	0
1	C	128/140 (91%)	0.78	15 (11%) 9 10	38, 70, 109, 120	0
1	D	125/140 (89%)	0.53	11 (8%) 15 17	35, 54, 109, 235	0
1	E	125/140 (89%)	0.74	14 (11%) 10 11	32, 60, 106, 290	0
1	F	129/140 (92%)	1.03	21 (16%) 4 4	40, 76, 113, 136	0
2	G	20/31 (64%)	1.87	9 (45%) 0 0	37, 81, 114, 175	0
2	H	4/31 (12%)	2.45	2 (50%) 0 0	79, 79, 92, 96	0
All	All	792/902 (87%)	0.69	87 (10%) 10 11	21, 63, 110, 290	1 (0%)

All (87) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	2	VAL	6.5
1	D	132	ARG	5.7
1	E	3	MET	5.7
2	G	378	LEU	5.6
1	C	47	SER	5.2
1	F	45	LEU	5.1
1	F	51	PRO	5.0
1	F	1	MET	4.9
1	D	43	GLY	4.8
1	C	115	ALA	4.7
1	D	4	GLU	4.6
1	E	121	ALA	4.5
2	G	363	MET	4.2
2	H	370	TYR	4.1
1	B	124	PHE	4.1
2	G	380	PHE	3.8

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Mol	Chain	Res	Type	RSRZ
1	C	139	GLY	3.8
1	D	86	LEU	3.7
1	F	120	VAL	3.7
1	E	120	VAL	3.7
1	E	138	PHE	3.7
1	E	109	MET	3.6
1	B	4	GLU	3.5
1	A	29	MET	3.5
1	D	121	ALA	3.4
1	C	45	LEU	3.3
1	E	22	LEU	3.3
1	C	117	GLU	3.2
1	D	133	TYR	3.2
2	G	381	GLU	3.1
1	F	72	ASN	3.1
2	H	373	ILE	3.1
1	F	122	ASN	3.1
1	F	52	ALA	3.1
1	D	118	GLY	3.1
1	E	4	GLU	3.0
1	C	73	CYS	3.0
1	F	47	SER	2.9
1	C	56	TYR	2.9
1	C	116	PRO	2.9
1	E	52	ALA	2.9
1	C	46	ASP	2.9
1	A	48	ASN	2.8
1	E	117	GLU	2.8
2	G	374	GLN	2.8
1	B	73	CYS	2.7
1	F	133	TYR	2.6
1	C	124	PHE	2.6
1	F	66	MET	2.6
1	B	37	ASN	2.6
1	B	54	ALA	2.6
1	E	104	ALA	2.6
1	E	101	ASN	2.6
1	F	117	GLU	2.5
2	G	373	ILE	2.5
1	F	121	ALA	2.5
1	E	18	GLN	2.5
2	G	365	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	125	TYR	2.4
1	B	23	LEU	2.4
1	C	66	MET	2.4
1	D	69	ASN	2.4
1	C	50	LYS	2.4
1	F	46	ASP	2.3
1	B	17	ARG	2.3
1	C	67	SER	2.3
1	F	68	GLN	2.3
1	B	116	PRO	2.3
1	B	47	SER	2.3
1	B	18	GLN	2.3
1	F	74	HIS	2.3
2	G	379	ASP	2.3
1	F	95	MET	2.2
1	F	123	LYS	2.2
1	A	13	ARG	2.2
1	A	2	VAL	2.2
1	F	5	LYS	2.2
2	G	382	ASN	2.2
1	E	137	VAL	2.2
1	A	47	SER	2.2
1	F	105	LEU	2.1
1	D	42	HIS	2.1
1	D	74	HIS	2.1
1	D	102	ASN	2.1
1	E	68	GLN	2.1
1	F	29	MET	2.0
1	C	37	ASN	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	NA	A	201	1/1	0.93	0.10	65,65,65,65	0
3	NA	D	202	1/1	0.96	0.12	51,51,51,51	0
4	CL	D	201	1/1	0.99	0.09	43,43,43,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.