



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 28, 2026 – 01:03 pm BST

PDB ID : 29WM / pdb_000029wm
Title : Crystal structure of the G3BP1 NTF2L domain homodimer in complex with
La Crosse virus nucleoprotein N-terminal peptide
Authors : Firdaus, M.E.R.; Gerlach, P.
Deposited on : 2026-04-10
Resolution : 2.40 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 Phenix2.2
Xtriage (Phenix) : 2.2
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.015 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.51

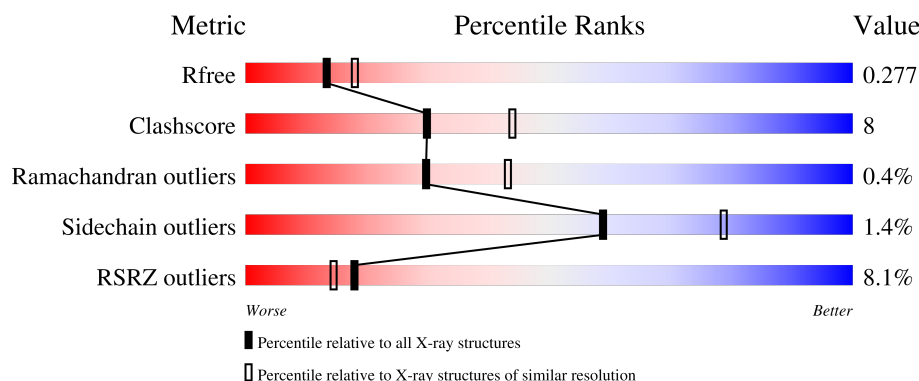
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	141	
1	B	141	
1	C	141	
1	D	141	
1	E	141	

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Mol	Chain	Length	Quality of chain
1	F	141	5% 74% 18% 8%
2	X	8	12% 62% 12% 25%
2	Y	8	25% 62% 12% 25%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 6179 atoms, of which 0 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	139	Total	C	N	O	S	0	0	0
			1081	683	197	194	7			
1	B	128	Total	C	N	O	S	0	0	0
			1013	643	182	183	5			
1	C	139	Total	C	N	O	S	0	0	0
			1079	684	191	197	7			
1	D	119	Total	C	N	O	S	0	0	0
			948	606	170	167	5			
1	E	121	Total	C	N	O	S	0	0	0
			948	605	170	168	5			
1	F	130	Total	C	N	O	S	0	0	0
			1028	651	187	185	5			

There are 6 discrepancies between the modelled and reference sequences:

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

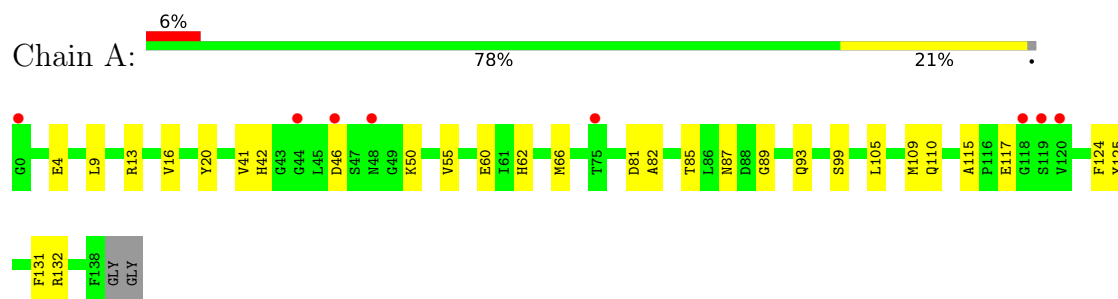
- Molecule 2 is a protein called Nucleoprotein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	X	6	Total	C	N	O	0	0	0
			41	29	6	6			
2	Y	6	Total	C	N	O	0	0	0
			41	29	6	6			

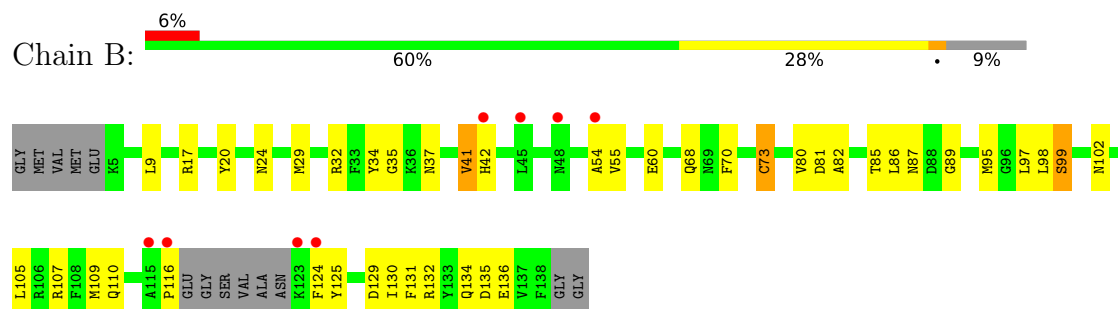
3 Residue-property plots [i](#)

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.

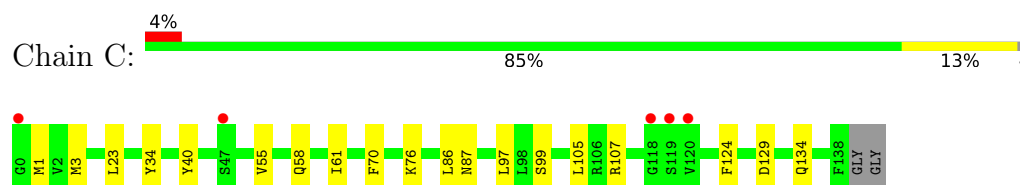
- Molecule 1: Ras GTPase-activating protein-binding protein 1



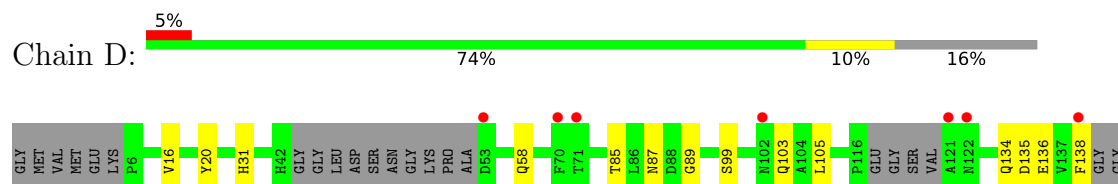
- Molecule 1: Ras GTPase-activating protein-binding protein 1



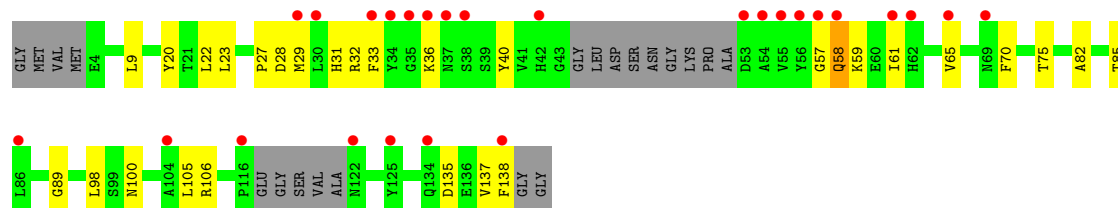
- Molecule 1: Ras GTPase-activating protein-binding protein 1



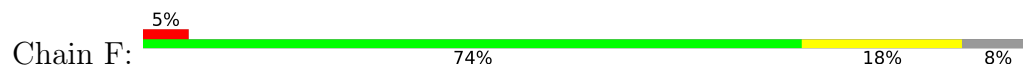
- Molecule 1: Ras GTPase-activating protein-binding protein 1



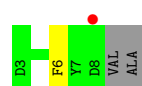
- Molecule 1: Ras GTPase-activating protein-binding protein 1



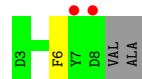
- Molecule 1: Ras GTPase-activating protein-binding protein 1



- Molecule 2: Nucleoprotein



- Molecule 2: Nucleoprotein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	83.10Å 94.51Å 113.33Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	72.58 – 2.40 72.58 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.8 (72.58-2.40) 99.8 (72.58-2.40)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.39 (at 2.40Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, R_{free}	0.229 , 0.278 0.229 , 0.277	Depositor DCC
R_{free} test set	1687 reflections (4.74%)	wwPDB-VP
Wilson B-factor (Å ²)	54.0	Xtriage
Anisotropy	0.463	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 29.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6179	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.55% 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](#)

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	0.36	0/1107	0.55	0/1502
1	B	0.33	0/1038	0.53	0/1409
1	C	0.35	0/1105	0.53	0/1500
1	D	0.32	0/971	0.50	0/1317
1	E	0.34	0/971	0.51	0/1319
1	F	0.32	0/1053	0.51	0/1429
2	X	0.29	0/41	0.42	0/55
2	Y	0.32	0/41	0.62	0/55
All	All	0.34	0/6327	0.52	0/8586

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1081	0	1007	24	0
1	B	1013	0	948	37	0
1	C	1079	0	1014	16	0
1	D	948	0	885	12	0
1	E	948	0	868	20	0
1	F	1028	0	961	13	0
2	X	41	0	34	1	0
2	Y	41	0	34	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	6179	0	5751	101	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 8.

All (101) 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:70:PHE:HA	1:E:100:ASN:HD21	1.35	0.88
1:B:20:TYR:OH	1:B:110:GLN:OE1	1.95	0.84
1:A:42:HIS:HA	1:A:131:PHE:HB3	1.69	0.73
1:E:40:TYR:HB2	1:E:61:ILE:HD13	1.70	0.72
1:A:20:TYR:OH	1:A:110:GLN:OE1	2.07	0.70
1:E:31:HIS:HB2	1:E:58:GLN:HG2	1.77	0.66
1:B:42:HIS:HA	1:B:131:PHE:HB3	1.77	0.66
1:D:99:SER:HB3	1:D:105:LEU:HD23	1.78	0.66
1:C:87:ASN:ND2	1:D:87:ASN:HB2	2.13	0.64
1:E:137:VAL:HG22	1:E:138:PHE:HD2	1.63	0.64
1:B:41:VAL:HG12	1:B:54:ALA:HA	1.80	0.63
1:E:36:LYS:HA	1:E:57:GLY:HA2	1.81	0.63
1:D:135:ASP:OD2	1:D:136:GLU:N	2.33	0.62
1:F:101:ASN:HB3	1:F:103:GLN:HE21	1.66	0.60
1:A:87:ASN:ND2	1:B:87:ASN:HB2	2.16	0.60
1:E:106:ARG:NH2	1:E:135:ASP:OD2	2.29	0.58
1:B:73:CYS:SG	1:B:98:LEU:HD21	2.43	0.57
1:C:107:ARG:HD2	1:D:134:GLN:HE21	1.69	0.55
1:B:41:VAL:HG22	1:B:130:ILE:HA	1.89	0.55
1:E:20:TYR:CD1	1:E:75:THR:HG21	2.43	0.54
1:E:57:GLY:O	1:E:59:LYS:N	2.40	0.54
1:B:107:ARG:HB2	1:B:134:GLN:HG2	1.89	0.54
1:B:68:GLN:HG2	1:B:70:PHE:CZ	2.43	0.53
1:A:87:ASN:HD21	1:B:87:ASN:HB2	1.74	0.53
1:F:85:THR:HG22	1:F:89:GLY:C	2.34	0.53
1:A:117:GLU:HB2	1:A:125:TYR:HD1	1.75	0.52
1:C:124:PHE:O	2:Y:6:PHE:HA	2.09	0.52
1:B:89:GLY:HA2	1:B:116:PRO:HD3	1.90	0.52
1:B:102:ASN:HA	1:F:32:ARG:HH22	1.75	0.52
1:B:37:ASN:OD1	1:B:125:TYR:OH	2.28	0.52
1:B:17:ARG:CZ	1:C:3:MET:HE3	2.40	0.51
1:D:99:SER:HB2	1:D:103:GLN:O	2.10	0.51
1:A:62:HIS:O	1:A:66:MET:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:MET:SD	1:B:109:MET:HB3	2.50	0.51
1:E:85:THR:HG22	1:E:89:GLY:C	2.36	0.51
1:A:115:ALA:CB	1:B:86:LEU:HD21	2.42	0.50
1:C:40:TYR:HB3	1:C:61:ILE:HG12	1.93	0.50
1:A:55:VAL:HB	1:A:60:GLU:HB3	1.92	0.50
1:A:93:GLN:NE2	1:B:109:MET:HE2	2.27	0.50
1:A:9:LEU:HA	1:A:82:ALA:HB3	1.93	0.50
1:E:40:TYR:HB2	1:E:61:ILE:CD1	2.38	0.50
1:F:9:LEU:HA	1:F:82:ALA:HB3	1.94	0.49
1:A:41:VAL:HG11	1:A:132:ARG:NH2	2.28	0.49
1:A:115:ALA:HB2	1:B:86:LEU:HD21	1.95	0.49
1:F:28:ASP:OD1	1:F:28:ASP:N	2.36	0.49
1:A:109:MET:SD	1:B:95:MET:HE3	2.53	0.48
1:B:55:VAL:HB	1:B:60:GLU:HG3	1.96	0.47
1:C:107:ARG:HD2	1:D:134:GLN:NE2	2.29	0.47
1:B:97:LEU:HB3	1:B:105:LEU:HB3	1.97	0.46
1:A:124:PHE:O	2:X:6:PHE:HA	2.15	0.46
1:B:135:ASP:OD1	1:B:136:GLU:N	2.48	0.46
1:B:132:ARG:HA	1:B:132:ARG:HD3	1.70	0.46
1:E:22:LEU:HD12	1:E:33:PHE:CE2	2.51	0.46
1:B:35:GLY:N	1:B:125:TYR:HE1	2.13	0.46
1:E:9:LEU:HA	1:E:82:ALA:HB3	1.97	0.45
1:E:29:MET:O	1:E:32:ARG:HG2	2.16	0.45
1:B:85:THR:HG22	1:B:89:GLY:C	2.40	0.45
1:B:24:ASN:HB2	1:B:73:CYS:O	2.16	0.45
1:A:9:LEU:HD21	1:A:13:ARG:NH1	2.32	0.45
1:C:76:LYS:HB2	1:C:76:LYS:HE2	1.80	0.45
1:E:27:PRO:C	1:E:29:MET:H	2.25	0.45
1:B:34:TYR:OH	1:B:129:ASP:OD2	2.35	0.45
1:E:70:PHE:HD2	1:E:100:ASN:ND2	2.15	0.44
1:F:64:LYS:O	1:F:68:GLN:HG2	2.17	0.44
1:A:16:VAL:HG13	1:A:20:TYR:CE2	2.52	0.44
1:A:85:THR:HG22	1:A:89:GLY:C	2.42	0.44
1:A:99:SER:HB2	1:A:105:LEU:HD23	1.99	0.44
1:D:16:VAL:HG13	1:D:20:TYR:CD2	2.53	0.44
1:B:17:ARG:NH2	1:C:3:MET:HE3	2.33	0.44
1:C:97:LEU:HB3	1:C:105:LEU:HB3	1.99	0.43
1:B:17:ARG:HG3	1:C:1:MET:HE2	2.00	0.43
1:A:46:ASP:N	1:A:50:LYS:O	2.46	0.43
1:A:132:ARG:HA	1:A:132:ARG:HD3	1.84	0.43
1:C:34:TYR:OH	1:C:129:ASP:OD2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:85:THR:HG22	1:D:89:GLY:C	2.43	0.43
1:B:17:ARG:HG3	1:C:1:MET:CE	2.49	0.43
1:B:29:MET:O	1:B:32:ARG:HG2	2.18	0.43
1:F:42:HIS:HA	1:F:131:PHE:HB3	1.99	0.43
1:F:76:LYS:HD3	1:F:78:ARG:NH2	2.33	0.43
1:F:135:ASP:OD1	1:F:136:GLU:N	2.52	0.43
1:B:9:LEU:HA	1:B:82:ALA:HB3	1.99	0.42
1:E:61:ILE:O	1:E:65:VAL:HG13	2.19	0.42
1:A:81:ASP:CG	1:B:132:ARG:HH21	2.27	0.42
1:F:115:ALA:HB3	1:F:125:TYR:CE2	2.55	0.42
1:F:23:LEU:HD11	1:F:70:PHE:CE2	2.55	0.42
1:C:86:LEU:HD12	1:C:86:LEU:HA	1.84	0.42
1:B:55:VAL:HB	1:B:60:GLU:CG	2.50	0.42
1:D:31:HIS:O	1:D:58:GLN:NE2	2.46	0.42
1:E:23:LEU:HD23	1:E:23:LEU:HA	1.89	0.41
1:A:109:MET:HB3	1:B:109:MET:SD	2.60	0.41
1:E:98:LEU:O	1:E:106:ARG:N	2.43	0.41
1:C:107:ARG:NH1	1:D:138:PHE:HB2	2.36	0.41
1:B:98:LEU:HD23	1:B:99:SER:N	2.35	0.41
1:D:87:ASN:O	1:D:87:ASN:CG	2.64	0.41
1:B:29:MET:SD	1:E:105:LEU:HD11	2.62	0.40
1:C:23:LEU:HD11	1:C:70:PHE:CE2	2.57	0.40
1:E:29:MET:HG2	1:E:32:ARG:HD2	2.02	0.40
1:F:40:TYR:HB3	1:F:61:ILE:HG12	2.04	0.40
1:A:132:ARG:NH2	1:B:81:ASP:OD2	2.53	0.40
1:C:134:GLN:HE22	1:D:134:GLN:HG3	1.86	0.40
1:F:110:GLN:HA	1:F:130:ILE: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	137/141 (97%)	132 (96%)	4 (3%)	1 (1%)	18	28
1	B	124/141 (88%)	120 (97%)	4 (3%)	0	100	100
1	C	137/141 (97%)	130 (95%)	7 (5%)	0	100	100
1	D	113/141 (80%)	106 (94%)	7 (6%)	0	100	100
1	E	115/141 (82%)	107 (93%)	6 (5%)	2 (2%)	7	10
1	F	126/141 (89%)	123 (98%)	3 (2%)	0	100	100
2	X	4/8 (50%)	3 (75%)	1 (25%)	0	100	100
2	Y	4/8 (50%)	4 (100%)	0	0	100	100
All	All	760/862 (88%)	725 (95%)	32 (4%)	3 (0%)	30	43

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	4	GLU
1	E	58	GLN
1	E	28	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	109/121 (90%)	109 (100%)	0	100	100
1	B	106/121 (88%)	101 (95%)	5 (5%)	23	41
1	C	112/121 (93%)	109 (97%)	3 (3%)	39	62
1	D	98/121 (81%)	98 (100%)	0	100	100
1	E	96/121 (79%)	96 (100%)	0	100	100
1	F	107/121 (88%)	106 (99%)	1 (1%)	70	85
2	X	3/7 (43%)	3 (100%)	0	100	100
2	Y	3/7 (43%)	3 (100%)	0	100	100
All	All	634/740 (86%)	625 (99%)	9 (1%)	59	79

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	41	VAL
1	B	73	CYS
1	B	80	VAL
1	B	99	SER
1	B	124	PHE
1	C	55	VAL
1	C	58	GLN
1	C	99	SER
1	F	99	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	31	HIS
1	A	87	ASN
1	B	18	GLN
1	B	87	ASN
1	B	127	HIS
1	C	25	GLN
1	C	58	GLN
1	C	72	ASN
1	C	87	ASN
1	C	93	GLN
1	C	101	ASN
1	C	102	ASN
1	C	110	GLN
1	C	122	ASN
1	C	127	HIS
1	D	93	GLN
1	D	127	HIS
1	E	74	HIS
1	E	100	ASN
1	E	103	GLN
1	F	25	GLN
1	F	69	ASN
1	F	93	GLN
1	F	102	ASN
1	F	103	GLN
1	F	127	HIS

5.3.3 RNA [i](#)

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 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	139/141 (98%)	0.58	8 (5%)	29 25	39, 55, 78, 87	0
1	B	128/141 (90%)	0.64	8 (6%)	26 22	39, 56, 79, 101	0
1	C	139/141 (98%)	0.36	5 (3%)	46 42	36, 52, 73, 85	0
1	D	119/141 (84%)	0.52	7 (5%)	28 24	36, 57, 77, 84	0
1	E	121/141 (85%)	1.18	26 (21%)	2 2	44, 66, 87, 91	0
1	F	130/141 (92%)	0.55	7 (5%)	31 28	43, 58, 76, 80	0
2	X	6/8 (75%)	1.64	1 (16%)	4 3	56, 67, 77, 79	0
2	Y	6/8 (75%)	1.29	2 (33%)	1 1	53, 61, 69, 84	0
All	All	788/862 (91%)	0.64	64 (8%)	18 14	36, 56, 81, 101	0

All (64) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	37	ASN	5.6
2	X	8	ASP	4.0
1	B	124	PHE	3.9
1	E	138	PHE	3.9
1	D	138	PHE	3.8
1	C	0	GLY	3.7
1	C	120	VAL	3.7
1	E	57	GLY	3.7
1	F	125	TYR	3.6
1	F	117	GLU	3.5
1	E	122	ASN	3.5
1	D	121	ALA	3.4
1	E	30	LEU	3.3
1	E	55	VAL	3.1
1	B	115	ALA	3.0
1	E	53	ASP	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	116	PRO	2.9
1	A	0	GLY	2.9
1	E	65	VAL	2.9
1	E	69	ASN	2.9
1	E	125	TYR	2.9
1	C	119	SER	2.9
1	E	61	ILE	2.9
1	F	116	PRO	2.9
1	D	102	ASN	2.8
1	A	48	ASN	2.8
1	D	122	ASN	2.8
1	A	120	VAL	2.8
1	E	36	LYS	2.8
1	E	29	MET	2.8
1	E	86	LEU	2.7
1	B	42	HIS	2.7
1	B	45	LEU	2.7
1	C	118	GLY	2.6
1	E	33	PHE	2.6
1	E	42	HIS	2.6
1	E	35	GLY	2.5
2	Y	8	ASP	2.5
2	Y	7	TYR	2.5
1	E	38	SER	2.4
1	B	54	ALA	2.4
1	F	35	GLY	2.4
1	E	104	ALA	2.4
1	A	119	SER	2.3
1	A	118	GLY	2.3
1	E	62	HIS	2.3
1	F	26	ALA	2.3
1	D	70	PHE	2.3
1	E	34	TYR	2.2
1	A	46	ASP	2.2
1	A	75	THR	2.2
1	D	53	ASP	2.2
1	E	56	TYR	2.1
1	B	123	LYS	2.1
1	E	116	PRO	2.1
1	F	4	GLU	2.1
1	C	47	SER	2.1
1	E	58	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	E	54	ALA	2.1
1	F	115	ALA	2.1
1	D	71	THR	2.0
1	E	134	GLN	2.0
1	A	44	GLY	2.0
1	B	48	ASN	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.