



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:31 PM UTC

PDB ID : 1VQR / pdb_00001vqr
Title : Crystal structure of a virulence factor (cj0248) from campylobacter jejuni subsp. jejuni at 2.25 Å resolution
Authors : Joint Center for Structural Genomics (JCSG)
Deposited on : 2004-12-17
Resolution : 2.25 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
Mogul	:	2022.3.0, CSD as543be (2022)
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

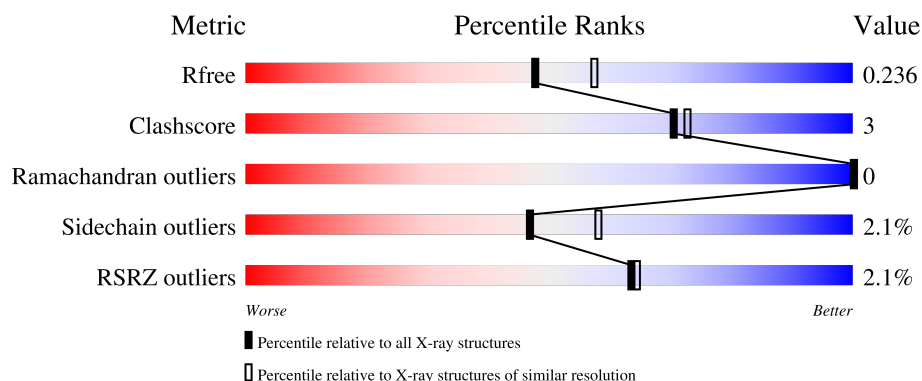
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.25 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	1898 (2.26-2.26)
Clashscore	190562	2005 (2.26-2.26)
Ramachandran outliers	187476	1965 (2.26-2.26)
Sidechain outliers	187428	1966 (2.26-2.26)
RSRZ outliers	180081	1898 (2.26-2.26)

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	297	84% 11% .
1	B	297	80% 10% 9%
1	C	297	2% 86% 7% 5%
1	D	297	3% 83% 6% 10%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 8688 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 hypothetical protein Cj0248.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	284	Total	C	N	O	S	Se	0	1	0
			2210	1424	362	415	3	6			
1	B	269	Total	C	N	O	S	Se	0	1	0
			2076	1351	338	379	3	5			
1	C	281	Total	C	N	O	S	Se	0	0	0
			2149	1392	350	398	3	6			
1	D	267	Total	C	N	O	S	Se	0	2	0
			2060	1339	337	377	3	4			

There are 72 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-11	MSE	-	expression tag	UNP Q9PIP7
A	-10	GLY	-	expression tag	UNP Q9PIP7
A	-9	SER	-	expression tag	UNP Q9PIP7
A	-8	ASP	-	expression tag	UNP Q9PIP7
A	-7	LYS	-	expression tag	UNP Q9PIP7
A	-6	ILE	-	expression tag	UNP Q9PIP7
A	-5	HIS	-	expression tag	UNP Q9PIP7
A	-4	HIS	-	expression tag	UNP Q9PIP7
A	-3	HIS	-	expression tag	UNP Q9PIP7
A	-2	HIS	-	expression tag	UNP Q9PIP7
A	-1	HIS	-	expression tag	UNP Q9PIP7
A	0	HIS	-	expression tag	UNP Q9PIP7
A	1	MSE	MET	modified residue	UNP Q9PIP7
A	5	MSE	MET	modified residue	UNP Q9PIP7
A	40	MSE	MET	modified residue	UNP Q9PIP7
A	52	MSE	MET	modified residue	UNP Q9PIP7
A	91	MSE	MET	modified residue	UNP Q9PIP7
A	144	MSE	MET	modified residue	UNP Q9PIP7
B	-11	MSE	-	expression tag	UNP Q9PIP7
B	-10	GLY	-	expression tag	UNP Q9PIP7
B	-9	SER	-	expression tag	UNP Q9PIP7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-8	ASP	-	expression tag	UNP Q9PIP7
B	-7	LYS	-	expression tag	UNP Q9PIP7
B	-6	ILE	-	expression tag	UNP Q9PIP7
B	-5	HIS	-	expression tag	UNP Q9PIP7
B	-4	HIS	-	expression tag	UNP Q9PIP7
B	-3	HIS	-	expression tag	UNP Q9PIP7
B	-2	HIS	-	expression tag	UNP Q9PIP7
B	-1	HIS	-	expression tag	UNP Q9PIP7
B	0	HIS	-	expression tag	UNP Q9PIP7
B	1	MSE	MET	modified residue	UNP Q9PIP7
B	5	MSE	MET	modified residue	UNP Q9PIP7
B	40	MSE	MET	modified residue	UNP Q9PIP7
B	52	MSE	MET	modified residue	UNP Q9PIP7
B	91	MSE	MET	modified residue	UNP Q9PIP7
B	144	MSE	MET	modified residue	UNP Q9PIP7
C	-11	MSE	-	expression tag	UNP Q9PIP7
C	-10	GLY	-	expression tag	UNP Q9PIP7
C	-9	SER	-	expression tag	UNP Q9PIP7
C	-8	ASP	-	expression tag	UNP Q9PIP7
C	-7	LYS	-	expression tag	UNP Q9PIP7
C	-6	ILE	-	expression tag	UNP Q9PIP7
C	-5	HIS	-	expression tag	UNP Q9PIP7
C	-4	HIS	-	expression tag	UNP Q9PIP7
C	-3	HIS	-	expression tag	UNP Q9PIP7
C	-2	HIS	-	expression tag	UNP Q9PIP7
C	-1	HIS	-	expression tag	UNP Q9PIP7
C	0	HIS	-	expression tag	UNP Q9PIP7
C	1	MSE	MET	modified residue	UNP Q9PIP7
C	5	MSE	MET	modified residue	UNP Q9PIP7
C	40	MSE	MET	modified residue	UNP Q9PIP7
C	52	MSE	MET	modified residue	UNP Q9PIP7
C	91	MSE	MET	modified residue	UNP Q9PIP7
C	144	MSE	MET	modified residue	UNP Q9PIP7
D	-11	MSE	-	expression tag	UNP Q9PIP7
D	-10	GLY	-	expression tag	UNP Q9PIP7
D	-9	SER	-	expression tag	UNP Q9PIP7
D	-8	ASP	-	expression tag	UNP Q9PIP7
D	-7	LYS	-	expression tag	UNP Q9PIP7
D	-6	ILE	-	expression tag	UNP Q9PIP7
D	-5	HIS	-	expression tag	UNP Q9PIP7
D	-4	HIS	-	expression tag	UNP Q9PIP7
D	-3	HIS	-	expression tag	UNP Q9PIP7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-2	HIS	-	expression tag	UNP Q9PIP7
D	-1	HIS	-	expression tag	UNP Q9PIP7
D	0	HIS	-	expression tag	UNP Q9PIP7
D	1	MSE	MET	modified residue	UNP Q9PIP7
D	5	MSE	MET	modified residue	UNP Q9PIP7
D	40	MSE	MET	modified residue	UNP Q9PIP7
D	52	MSE	MET	modified residue	UNP Q9PIP7
D	91	MSE	MET	modified residue	UNP Q9PIP7
D	144	MSE	MET	modified residue	UNP Q9PIP7

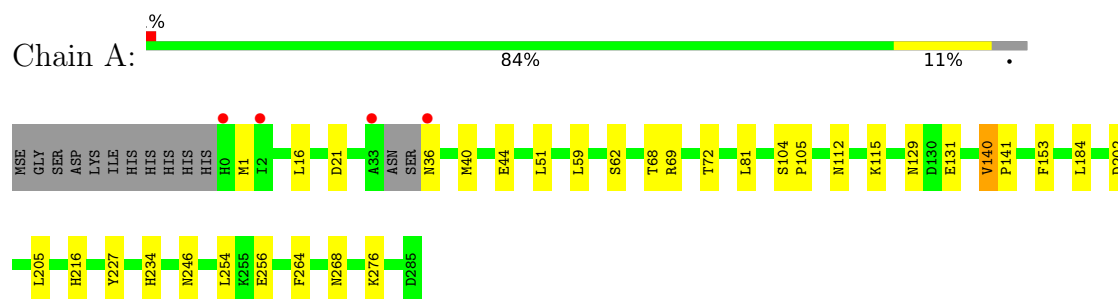
- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	68	Total O 68 68	0	0
2	B	47	Total O 47 47	0	0
2	C	36	Total O 36 36	0	0
2	D	42	Total O 42 42	0	0

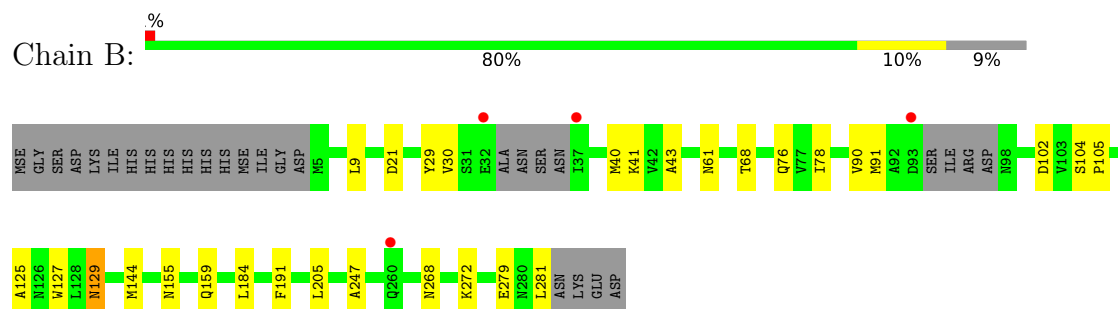
3 Residue-property plots

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 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.

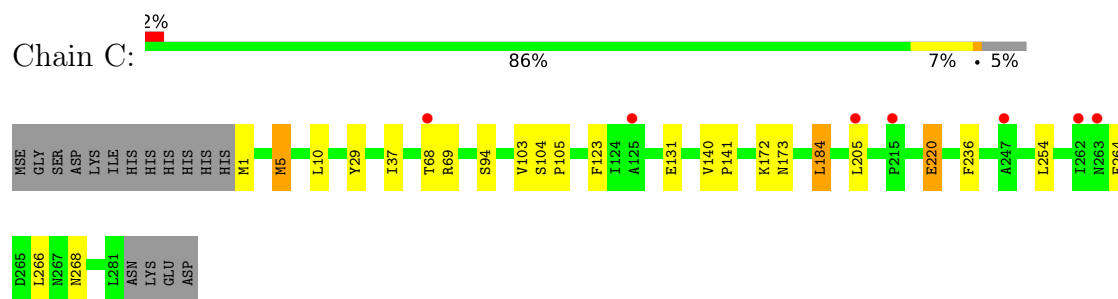
• Molecule 1: hypothetical protein Cj0248



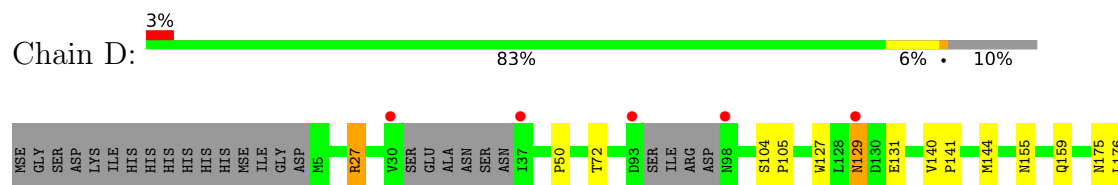
• Molecule 1: hypothetical protein Cj0248



• Molecule 1: hypothetical protein Cj0248



• Molecule 1: hypothetical protein Cj0248





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	123.14Å 122.09Å 96.90Å 90.00° 120.58° 90.00°	Depositor
Resolution (Å)	61.04 – 2.25 61.04 – 2.25	Depositor EDS
% Data completeness (in resolution range)	97.3 (61.04-2.25) 97.3 (61.04-2.25)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.91 (at 2.25Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.193 , 0.233 0.199 , 0.236	Depositor DCC
R_{free} test set	2850 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å ²)	44.5	Xtriage
Anisotropy	0.160	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 48.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8688	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.75% 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	0.95	2/2249 (0.1%)	0.96	0/3044
1	B	0.89	1/2117 (0.0%)	0.91	0/2873
1	C	0.89	2/2186 (0.1%)	0.91	0/2970
1	D	0.82	0/2105	0.91	0/2859
All	All	0.89	5/8657 (0.1%)	0.92	0/11746

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	140	VAL	CA-CB	9.35	1.59	1.54
1	C	5	MSE	SE-CE	6.92	2.16	1.95
1	B	144	MSE	SE-CE	6.13	2.13	1.95
1	A	40	MSE	SE-CE	6.00	2.13	1.95
1	C	220	GLU	CD-OE2	5.55	1.35	1.25

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	2210	0	2187	16	0
1	B	2076	0	2048	16	0
1	C	2149	0	2110	14	0
1	D	2060	0	2021	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	68	0	0	2	0
2	B	47	0	0	1	0
2	C	36	0	0	1	0
2	D	42	0	0	2	0
All	All	8688	0	8366	58	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 3.

All (58) 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:5:MSE:CE	1:C:5:MSE:SE	2.16	1.44
1:D:129[B]:ASN:ND2	2:D:325:HOH:O	2.25	0.70
1:C:5:MSE:HG2	1:C:184:LEU:O	2.03	0.59
1:D:155:ASN:O	1:D:159:GLN:HG2	2.04	0.58
1:A:227:TYR:OH	1:A:256:GLU:OE2	2.21	0.56
1:C:5:MSE:HA	1:C:5:MSE:HE2	1.88	0.56
1:A:36:ASN:ND2	1:B:76:GLN:HE21	2.03	0.55
1:D:72:THR:HG21	2:D:318:HOH:O	2.06	0.55
1:B:125:ALA:O	1:B:129:ASN:HB2	2.08	0.53
1:D:27:ARG:HG3	1:D:27:ARG:NH1	2.22	0.52
1:C:104:SER:N	1:C:105:PRO:CD	2.73	0.52
1:B:61:ASN:O	1:B:68:THR:HG23	2.11	0.51
1:A:59:LEU:O	1:A:62:SER:HB3	2.10	0.50
1:C:220:GLU:HG2	2:C:310:HOH:O	2.11	0.50
1:D:131:GLU:OE1	1:D:268:ASN:ND2	2.45	0.50
1:B:127:TRP:O	1:B:268:ASN:ND2	2.37	0.50
1:D:140:VAL:HB	1:D:141:PRO:HD3	1.95	0.48
1:A:205:LEU:C	1:A:205:LEU:HD23	2.38	0.48
1:A:140:VAL:HB	1:A:141:PRO:HD3	1.96	0.47
1:C:205:LEU:C	1:C:205:LEU:HD23	2.39	0.47
1:C:254:LEU:HG	1:C:264:PHE:HB2	1.97	0.47
1:A:254:LEU:HG	1:A:264:PHE:HB2	1.97	0.46
1:D:127:TRP:HA	1:D:272:LYS:HD3	1.97	0.46
1:B:29:TYR:CZ	1:B:41:LYS:CB	2.98	0.46
1:A:131:GLU:OE1	1:A:268:ASN:ND2	2.48	0.46
1:D:205:LEU:HD23	1:D:205:LEU:C	2.40	0.46
1:A:72:THR:HG22	1:A:202:ASP:HB3	1.99	0.45
1:D:27:ARG:HG3	1:D:27:ARG:HH11	1.82	0.45
1:B:90:VAL:HG12	1:B:91:MSE:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:THR:HG22	1:C:69:ARG:HG3	1.98	0.45
1:A:153:PHE:CD2	1:A:184:LEU:HD12	2.52	0.44
1:C:29:TYR:HE2	1:C:37:ILE:HG23	1.83	0.44
1:A:234:HIS:O	1:A:246:ASN:HB3	2.18	0.43
1:B:30:VAL:HG12	1:B:30:VAL:O	2.19	0.43
1:D:50:PRO:HB3	1:D:144:MSE:O	2.18	0.43
1:C:131:GLU:OE1	1:C:268:ASN:ND2	2.50	0.43
1:A:36:ASN:OD1	1:A:36:ASN:C	2.61	0.43
1:B:43:ALA:HB2	1:B:78:ILE:CD1	2.47	0.43
1:A:68:THR:HG22	1:A:69:ARG:HG3	2.01	0.42
1:B:102:ASP:OD1	1:B:102:ASP:C	2.62	0.42
1:D:234:HIS:O	1:D:246:ASN:HB3	2.18	0.42
1:B:155:ASN:O	1:B:159:GLN:HG2	2.20	0.42
1:B:247:ALA:HB1	1:B:281:LEU:HD13	2.01	0.42
1:C:172:LYS:C	1:C:173:ASN:HD22	2.26	0.41
1:D:175:ASN:O	1:D:176:LEU:C	2.61	0.41
1:A:276:LYS:NZ	2:A:341:HOH:O	2.53	0.41
1:C:140:VAL:HB	1:C:141:PRO:HD3	2.02	0.41
1:A:104:SER:N	1:A:105:PRO:CD	2.83	0.41
1:C:123:PHE:CD2	1:C:236:PHE:HE2	2.39	0.41
1:A:16:LEU:HD22	1:A:51:LEU:HD23	2.03	0.41
1:B:9:LEU:HB3	1:B:191:PHE:CZ	2.56	0.41
1:B:104:SER:N	1:B:105:PRO:CD	2.84	0.41
1:C:103:VAL:C	1:C:105:PRO:HD2	2.46	0.41
1:D:104:SER:N	1:D:105:PRO:CD	2.85	0.40
1:B:127:TRP:HA	1:B:272:LYS:HD3	2.04	0.40
1:B:205:LEU:HD23	1:B:205:LEU:C	2.47	0.40
1:A:216:HIS:ND1	2:A:343:HOH:O	2.28	0.40
1:B:21:ASP:HB2	2:B:293:HOH:O	2.22	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	281/297 (95%)	279 (99%)	2 (1%)	0	100	100
1	B	264/297 (89%)	258 (98%)	6 (2%)	0	100	100
1	C	279/297 (94%)	273 (98%)	6 (2%)	0	100	100
1	D	263/297 (89%)	259 (98%)	4 (2%)	0	100	100
All	All	1087/1188 (92%)	1069 (98%)	18 (2%)	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 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	237/256 (93%)	230 (97%)	7 (3%)	36	45
1	B	218/256 (85%)	214 (98%)	4 (2%)	51	63
1	C	224/256 (88%)	219 (98%)	5 (2%)	45	56
1	D	216/256 (84%)	212 (98%)	4 (2%)	50	61
All	All	895/1024 (87%)	875 (98%)	20 (2%)	47	56

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MSE
1	A	21	ASP
1	A	44	GLU
1	A	81	LEU
1	A	112	ASN
1	A	115	LYS
1	A	129	ASN
1	B	40	MSE
1	B	129	ASN
1	B	184	LEU
1	B	279	GLU
1	C	1	MSE
1	C	10	LEU

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Mol	Chain	Res	Type
1	C	94	SER
1	C	184	LEU
1	C	266	LEU
1	D	27	ARG
1	D	129[A]	ASN
1	D	129[B]	ASN
1	D	184	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	36	ASN
1	A	126	ASN
1	B	137	HIS
1	B	173	ASN
1	B	181	ASN
1	C	118	ASN
1	C	173	ASN
1	C	175	ASN
1	C	181	ASN
1	C	216	HIS
1	C	246	ASN
1	C	260	GLN

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	278/297 (93%)	0.27	4 (1%) 73 74	34, 47, 60, 72	1 (0%)
1	B	264/297 (88%)	0.30	4 (1%) 72 73	31, 47, 60, 69	1 (0%)
1	C	275/297 (92%)	0.68	7 (2%) 58 59	37, 47, 60, 70	0
1	D	262/297 (88%)	0.61	8 (3%) 51 51	29, 47, 58, 66	2 (0%)
All	All	1079/1188 (90%)	0.46	23 (2%) 63 64	29, 47, 60, 72	4 (0%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	37	ILE	5.5
1	B	37	ILE	5.0
1	D	30	VAL	3.6
1	D	93	ASP	3.2
1	B	32	GLU	3.1
1	C	247	ALA	3.1
1	D	98	ASN	2.8
1	A	33	ALA	2.8
1	A	0	HIS	2.6
1	C	263	ASN	2.4
1	A	2	ILE	2.4
1	C	262	ILE	2.4
1	D	183	PHE	2.4
1	D	129[A]	ASN	2.3
1	C	215	PRO	2.3
1	A	36	ASN	2.1
1	C	68	THR	2.1
1	D	275	ASN	2.1
1	D	221	LYS	2.1
1	B	93	ASP	2.1
1	B	260	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	205	LEU	2.1
1	C	125	ALA	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.