



Full wwPDB X-ray Structure Validation Report ⓘ

Jul 13, 2026 – 01:46 pm BST

PDB ID : 9RWU / pdb_00009rwu
Title : Crystal structure of the YqiI lectin domain
Authors : D'Hondt, A.K.; Remaut, H.K.
Deposited on : 2025-07-10
Resolution : 1.79 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	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

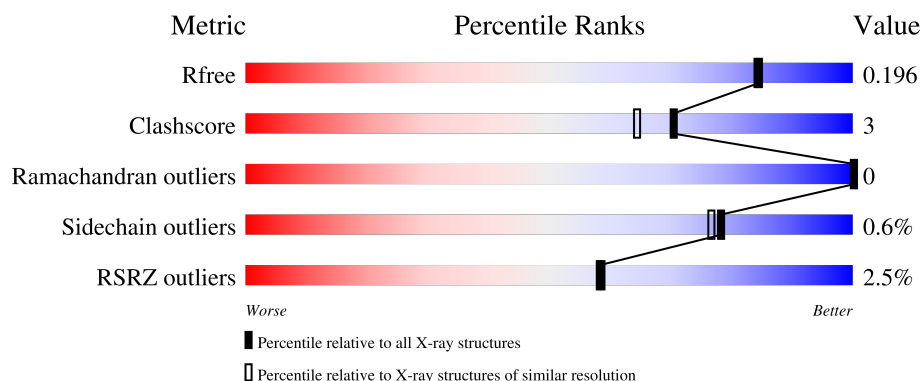
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.79 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	210	0% 81% 9% 10%
1	B	210	0% 82% 8% 10%
1	C	210	2% 85% 5% 10%
1	D	210	4% 83% 6% 10%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6746 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 Pilus assembly protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	189	Total	C	N	O	S	0	5	0
			1534	970	257	301	6			
1	B	189	Total	C	N	O	S	1	6	0
			1534	969	255	303	7			
1	C	189	Total	C	N	O	S	0	3	0
			1511	953	252	298	8			
1	D	189	Total	C	N	O	S	0	1	0
			1498	946	250	295	7			

There are 80 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	191	GLY	-	expression tag	UNP A0A0P7MFM4
A	192	ALA	-	expression tag	UNP A0A0P7MFM4
A	193	ALA	-	expression tag	UNP A0A0P7MFM4
A	194	ALA	-	expression tag	UNP A0A0P7MFM4
A	195	TYR	-	expression tag	UNP A0A0P7MFM4
A	196	PRO	-	expression tag	UNP A0A0P7MFM4
A	197	TYR	-	expression tag	UNP A0A0P7MFM4
A	198	ASP	-	expression tag	UNP A0A0P7MFM4
A	199	VAL	-	expression tag	UNP A0A0P7MFM4
A	200	PRO	-	expression tag	UNP A0A0P7MFM4
A	201	ASP	-	expression tag	UNP A0A0P7MFM4
A	202	TYR	-	expression tag	UNP A0A0P7MFM4
A	203	GLY	-	expression tag	UNP A0A0P7MFM4
A	204	SER	-	expression tag	UNP A0A0P7MFM4
A	205	HIS	-	expression tag	UNP A0A0P7MFM4
A	206	HIS	-	expression tag	UNP A0A0P7MFM4
A	207	HIS	-	expression tag	UNP A0A0P7MFM4
A	208	HIS	-	expression tag	UNP A0A0P7MFM4
A	209	HIS	-	expression tag	UNP A0A0P7MFM4
A	210	HIS	-	expression tag	UNP A0A0P7MFM4
B	191	GLY	-	expression tag	UNP A0A0P7MFM4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	192	ALA	-	expression tag	UNP A0A0P7MFM4
B	193	ALA	-	expression tag	UNP A0A0P7MFM4
B	194	ALA	-	expression tag	UNP A0A0P7MFM4
B	195	TYR	-	expression tag	UNP A0A0P7MFM4
B	196	PRO	-	expression tag	UNP A0A0P7MFM4
B	197	TYR	-	expression tag	UNP A0A0P7MFM4
B	198	ASP	-	expression tag	UNP A0A0P7MFM4
B	199	VAL	-	expression tag	UNP A0A0P7MFM4
B	200	PRO	-	expression tag	UNP A0A0P7MFM4
B	201	ASP	-	expression tag	UNP A0A0P7MFM4
B	202	TYR	-	expression tag	UNP A0A0P7MFM4
B	203	GLY	-	expression tag	UNP A0A0P7MFM4
B	204	SER	-	expression tag	UNP A0A0P7MFM4
B	205	HIS	-	expression tag	UNP A0A0P7MFM4
B	206	HIS	-	expression tag	UNP A0A0P7MFM4
B	207	HIS	-	expression tag	UNP A0A0P7MFM4
B	208	HIS	-	expression tag	UNP A0A0P7MFM4
B	209	HIS	-	expression tag	UNP A0A0P7MFM4
B	210	HIS	-	expression tag	UNP A0A0P7MFM4
C	191	GLY	-	expression tag	UNP A0A0P7MFM4
C	192	ALA	-	expression tag	UNP A0A0P7MFM4
C	193	ALA	-	expression tag	UNP A0A0P7MFM4
C	194	ALA	-	expression tag	UNP A0A0P7MFM4
C	195	TYR	-	expression tag	UNP A0A0P7MFM4
C	196	PRO	-	expression tag	UNP A0A0P7MFM4
C	197	TYR	-	expression tag	UNP A0A0P7MFM4
C	198	ASP	-	expression tag	UNP A0A0P7MFM4
C	199	VAL	-	expression tag	UNP A0A0P7MFM4
C	200	PRO	-	expression tag	UNP A0A0P7MFM4
C	201	ASP	-	expression tag	UNP A0A0P7MFM4
C	202	TYR	-	expression tag	UNP A0A0P7MFM4
C	203	GLY	-	expression tag	UNP A0A0P7MFM4
C	204	SER	-	expression tag	UNP A0A0P7MFM4
C	205	HIS	-	expression tag	UNP A0A0P7MFM4
C	206	HIS	-	expression tag	UNP A0A0P7MFM4
C	207	HIS	-	expression tag	UNP A0A0P7MFM4
C	208	HIS	-	expression tag	UNP A0A0P7MFM4
C	209	HIS	-	expression tag	UNP A0A0P7MFM4
C	210	HIS	-	expression tag	UNP A0A0P7MFM4
D	191	GLY	-	expression tag	UNP A0A0P7MFM4
D	192	ALA	-	expression tag	UNP A0A0P7MFM4
D	193	ALA	-	expression tag	UNP A0A0P7MFM4

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Chain	Residue	Modelled	Actual	Comment	Reference
D	194	ALA	-	expression tag	UNP A0A0P7MFM4
D	195	TYR	-	expression tag	UNP A0A0P7MFM4
D	196	PRO	-	expression tag	UNP A0A0P7MFM4
D	197	TYR	-	expression tag	UNP A0A0P7MFM4
D	198	ASP	-	expression tag	UNP A0A0P7MFM4
D	199	VAL	-	expression tag	UNP A0A0P7MFM4
D	200	PRO	-	expression tag	UNP A0A0P7MFM4
D	201	ASP	-	expression tag	UNP A0A0P7MFM4
D	202	TYR	-	expression tag	UNP A0A0P7MFM4
D	203	GLY	-	expression tag	UNP A0A0P7MFM4
D	204	SER	-	expression tag	UNP A0A0P7MFM4
D	205	HIS	-	expression tag	UNP A0A0P7MFM4
D	206	HIS	-	expression tag	UNP A0A0P7MFM4
D	207	HIS	-	expression tag	UNP A0A0P7MFM4
D	208	HIS	-	expression tag	UNP A0A0P7MFM4
D	209	HIS	-	expression tag	UNP A0A0P7MFM4
D	210	HIS	-	expression tag	UNP A0A0P7MFM4

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Ca 1 1	0	0
2	B	1	Total Ca 1 1	0	0
2	C	1	Total Ca 1 1	0	0
2	D	1	Total Ca 1 1	0	0

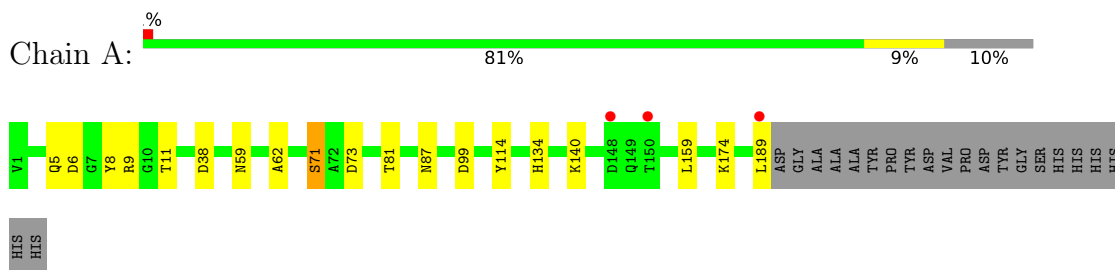
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	169	Total O 169 169	0	0
3	B	156	Total O 156 156	0	0
3	C	222	Total O 222 222	0	0
3	D	118	Total O 118 118	0	0

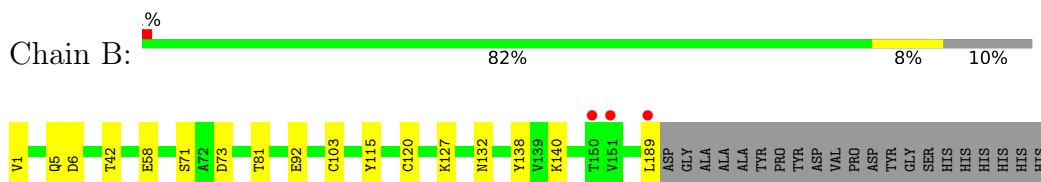
3 Residue-property plots [i](#)

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.

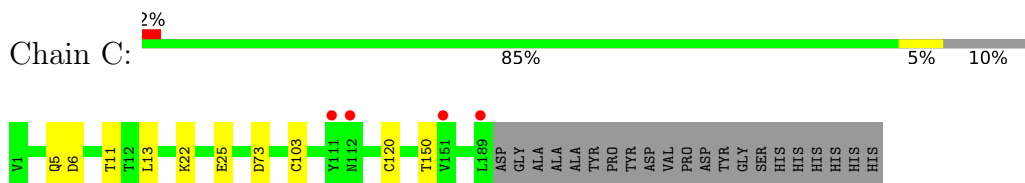
- Molecule 1: Pilus assembly protein



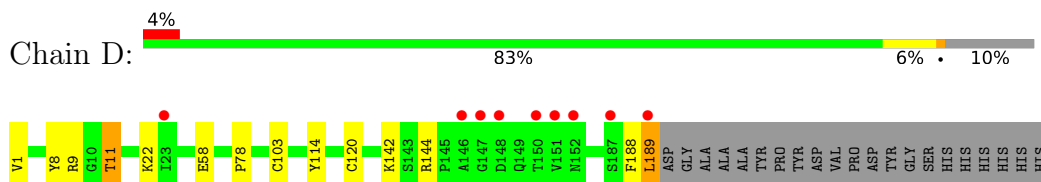
- Molecule 1: Pilus assembly protein



- Molecule 1: Pilus assembly protein



- Molecule 1: Pilus assembly protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	83.57Å 39.75Å 135.16Å 90.00° 95.39° 90.00°	Depositor
Resolution (Å)	44.85 – 1.79 44.85 – 1.79	Depositor EDS
% Data completeness (in resolution range)	99.1 (44.85-1.79) 99.6 (44.85-1.79)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.04 (at 1.78Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.167 , 0.199 0.167 , 0.196	Depositor DCC
R_{free} test set	4206 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	28.5	Xtriage
Anisotropy	0.422	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 39.5	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	0.97	EDS
Total number of atoms	6746	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.87% 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: CA

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	0.34	0/1574	0.53	0/2147
1	B	0.32	0/1574	0.51	0/2149
1	C	0.34	0/1551	0.57	0/2116
1	D	0.34	1/1538 (0.1%)	0.50	0/2098
All	All	0.33	1/6237 (0.0%)	0.53	0/8510

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	189	LEU	C-O	6.11	1.35	1.23

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	1534	0	1435	11	0
1	B	1534	0	1433	12	0
1	C	1511	0	1403	7	0
1	D	1498	0	1394	10	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	169	0	0	3	0
3	B	156	0	0	2	0
3	C	222	0	0	3	3
3	D	118	0	0	3	2
All	All	6746	0	5665	40	3

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 (40) 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:A:8:TYR:OH	3:A:401:HOH:O	1.80	0.96
1:B:189:LEU:O	3:B:401:HOH:O	1.88	0.91
1:C:73:ASP:OD2	3:C:401:HOH:O	2.01	0.78
1:A:62:ALA:HB1	1:A:159[B]:LEU:HD11	1.71	0.73
1:A:71:SER:OG	1:A:73:ASP:OD1	2.07	0.70
1:A:87:ASN:OD1	3:A:402:HOH:O	2.10	0.69
1:C:73:ASP:OD1	3:C:402:HOH:O	2.12	0.68
1:B:1[B]:VAL:HG11	1:B:58:GLU:HG2	1.80	0.64
1:C:103[B]:CYS:HB3	1:C:120:CYS:SG	2.40	0.62
1:D:22:LYS:HZ2	1:D:189:LEU:C	2.08	0.61
1:D:144:ARG:HG2	1:D:188:PHE:HB3	1.81	0.61
1:B:71:SER:OG	1:B:73:ASP:OD1	2.20	0.59
1:D:78:PRO:O	1:D:142:LYS:HG2	2.04	0.57
1:C:11[A]:THR:HG22	1:C:13:LEU:H	1.70	0.57
1:D:114:TYR:OH	3:D:401:HOH:O	2.18	0.56
1:C:150:THR:OG1	3:C:403:HOH:O	2.19	0.53
1:D:8:TYR:CE2	1:D:9:ARG:HD2	2.44	0.53
1:B:103[B]:CYS:HB3	1:B:120:CYS:SG	2.52	0.49
1:B:1[B]:VAL:CG1	1:B:58:GLU:HG2	2.44	0.48
1:D:103[B]:CYS:HB3	1:D:120:CYS:SG	2.53	0.48
1:A:8:TYR:CD2	1:A:9:ARG:HG3	2.50	0.46
1:B:115:TYR:CD2	1:B:127:LYS:HE2	2.50	0.46
1:D:1:VAL:CG2	1:D:58:GLU:HG2	2.46	0.46
1:C:22:LYS:HE2	1:C:25:GLU:OE2	2.16	0.46
1:D:188:PHE:O	1:D:189:LEU:C	2.59	0.45
1:A:114:TYR:OH	3:A:403:HOH:O	2.21	0.45
1:B:1[B]:VAL:HG13	3:B:447:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1:VAL:HG21	1:D:58:GLU:HG2	1.98	0.45
1:B:42[B]:THR:HG22	1:B:132:ASN:OD1	2.16	0.44
1:A:59:ASN:ND2	1:A:99:ASP:OD1	2.49	0.44
1:B:5:GLN:O	1:B:6:ASP:HB2	2.18	0.43
1:D:11:THR:HG23	3:D:453:HOH:O	2.17	0.43
1:A:5:GLN:O	1:A:6:ASP:HB2	2.18	0.43
1:B:92:GLU:HG2	1:B:138:TYR:OH	2.18	0.43
1:B:115:TYR:CZ	1:B:127:LYS:HG2	2.54	0.43
1:A:81:THR:HB	1:A:140:LYS:HB2	2.02	0.42
1:A:174:LYS:HE3	3:D:404:HOH:O	2.20	0.41
1:B:81:THR:HB	1:B:140:LYS:HB2	2.02	0.41
1:A:38:ASP:OD1	1:A:134:HIS:HE1	2.03	0.41
1:C:5:GLN:O	1:C:6:ASP:HB2	2.20	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:437:HOH:O	3:C:591:HOH:O[1_545]	2.04	0.16
3:C:573:HOH:O	3:D:460:HOH:O[1_645]	2.17	0.03
3:C:461:HOH:O	3:D:449:HOH:O[1_645]	2.19	0.01

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 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	192/210 (91%)	184 (96%)	8 (4%)	0	100	100
1	B	192/210 (91%)	183 (95%)	9 (5%)	0	100	100
1	C	190/210 (90%)	181 (95%)	9 (5%)	0	100	100
1	D	188/210 (90%)	181 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	762/840 (91%)	729 (96%)	33 (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 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	166/177 (94%)	163 (98%)	3 (2%)	51	43
1	B	167/177 (94%)	167 (100%)	0	100	100
1	C	164/177 (93%)	164 (100%)	0	100	100
1	D	162/177 (92%)	161 (99%)	1 (1%)	78	77
All	All	659/708 (93%)	655 (99%)	4 (1%)	78	77

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	THR
1	A	71	SER
1	A	189	LEU
1	D	11	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	87	ASN
1	A	128	ASN
1	A	134	HIS
1	B	15	ASN
1	C	132	ASN
1	D	31	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](#)

Of 4 ligands modelled in this entry, 4 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 [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	189/210 (90%)	-0.03	3 (1%) 70 71	11, 30, 49, 70	5 (2%)
1	B	189/210 (90%)	-0.01	3 (1%) 70 71	13, 31, 46, 60	9 (4%)
1	C	189/210 (90%)	-0.16	4 (2%) 63 64	12, 28, 44, 62	3 (1%)
1	D	189/210 (90%)	0.35	9 (4%) 35 34	17, 39, 69, 95	1 (0%)
All	All	756/840 (90%)	0.04	19 (2%) 58 58	11, 32, 56, 95	18 (2%)

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	189	LEU	4.7
1	A	189	LEU	4.0
1	B	189	LEU	3.8
1	D	146	ALA	3.0
1	D	151	VAL	3.0
1	D	147	GLY	2.7
1	C	112	ASN	2.7
1	C	189	LEU	2.6
1	B	150	THR	2.6
1	D	150	THR	2.6
1	B	151	VAL	2.6
1	D	187	SER	2.5
1	A	150	THR	2.4
1	A	148	ASP	2.3
1	D	148	ASP	2.1
1	D	152	ASN	2.1
1	C	111	TYR	2.1
1	D	23	ILE	2.1
1	C	151	VAL	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](#)

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($\text{\AA}^2$)	Q<0.9
2	CA	A	301	1/1	0.99	0.04	40,40,40,40	0
2	CA	B	301	1/1	0.99	0.05	33,33,33,33	0
2	CA	D	301	1/1	0.99	0.07	41,41,41,41	0
2	CA	C	301	1/1	1.00	0.02	23,23,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.