



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 04:24 AM UTC

PDB ID : 2O0Y / pdb_00002o0y
Title : Crystal structure of putative transcriptional regulator RHA1_ro06953 (IclR-family) from Rhodococcus sp.
Authors : Chruszcz, M.; Wang, S.; Skarina, T.; Onopriyenko, O.; Cymborowski, M.; Savchenko, A.; Edwards, A.; Joachimiak, A.; Minor, W.; Midwest Center for Structural Genomics (MCSG)
Deposited on : 2006-11-28
Resolution : 2.00 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

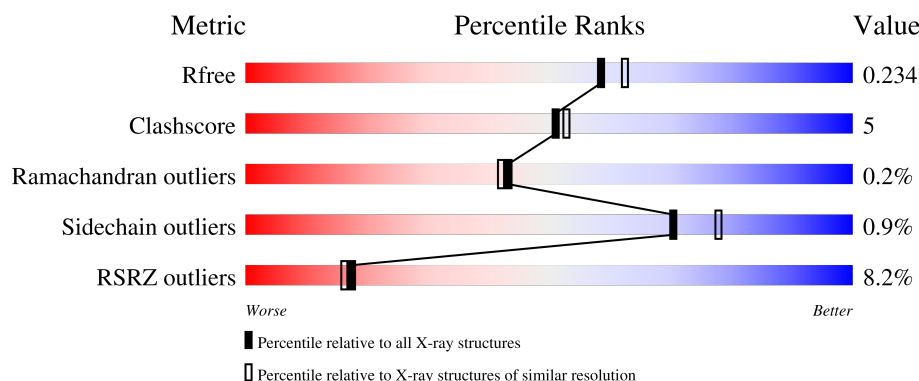
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	260	6% 85% 8% 7%
1	B	260	3% 84% 10% 6%
1	C	260	15% 83% 15% ..
1	D	260	8% 86% 12% .

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 7907 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 Transcriptional regulator.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	242	Total	C	N	O	S	Se	0	6	0
			1848	1163	333	346	3	3			
1	B	244	Total	C	N	O	S	Se	0	1	0
			1827	1152	326	343	3	3			
1	C	255	Total	C	N	O	S	Se	0	3	0
			1885	1183	337	359	3	3			
1	D	253	Total	C	N	O	S	Se	0	0	0
			1867	1174	336	351	3	3			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	VAL	-	cloning artifact	UNP Q0S167
A	62	MSE	MET	modified residue	UNP Q0S167
A	82	MSE	MET	modified residue	UNP Q0S167
A	103	MSE	MET	modified residue	UNP Q0S167
B	1	VAL	-	cloning artifact	UNP Q0S167
B	62	MSE	MET	modified residue	UNP Q0S167
B	82	MSE	MET	modified residue	UNP Q0S167
B	103	MSE	MET	modified residue	UNP Q0S167
C	1	VAL	-	cloning artifact	UNP Q0S167
C	62	MSE	MET	modified residue	UNP Q0S167
C	82	MSE	MET	modified residue	UNP Q0S167
C	103	MSE	MET	modified residue	UNP Q0S167
D	1	VAL	-	cloning artifact	UNP Q0S167
D	62	MSE	MET	modified residue	UNP Q0S167
D	82	MSE	MET	modified residue	UNP Q0S167
D	103	MSE	MET	modified residue	UNP Q0S167

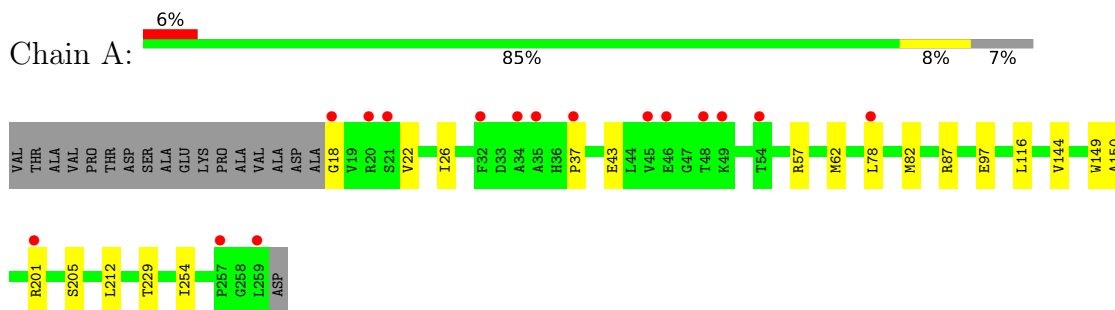
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	141	Total 141	O 141	0	0
2	B	140	Total 140	O 140	0	0
2	C	92	Total 92	O 92	0	0
2	D	107	Total 107	O 107	0	0

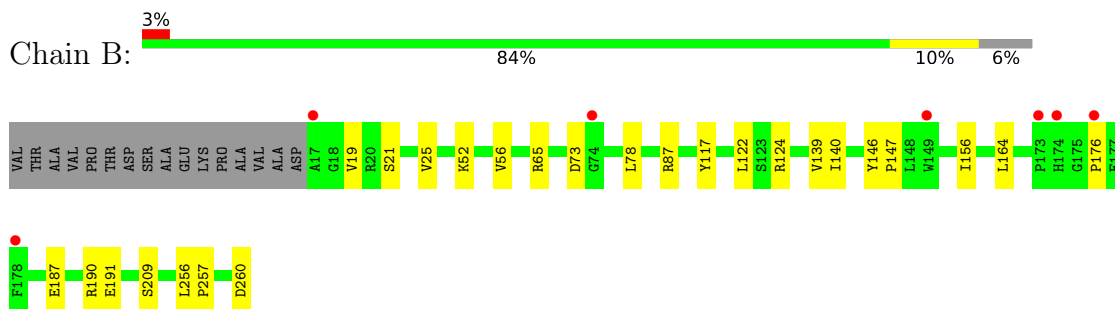
3 Residue-property plots [i](#)

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.

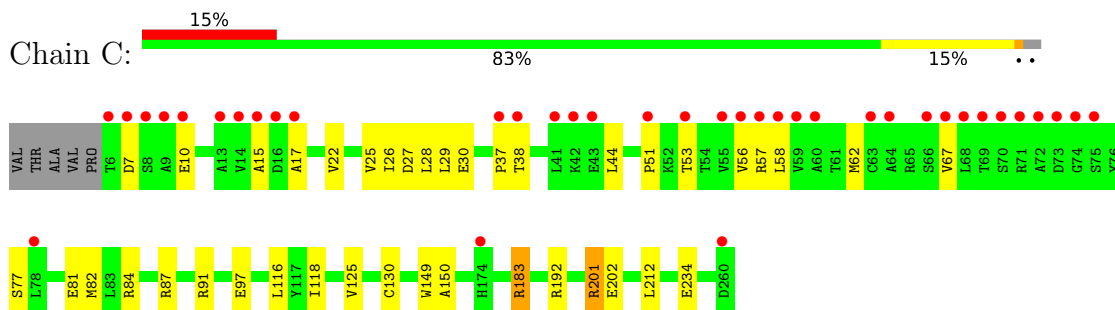
- Molecule 1: Transcriptional regulator



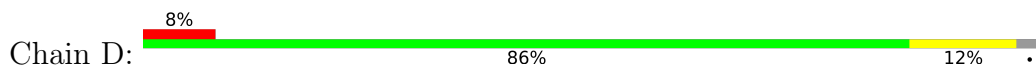
- Molecule 1: Transcriptional regulator

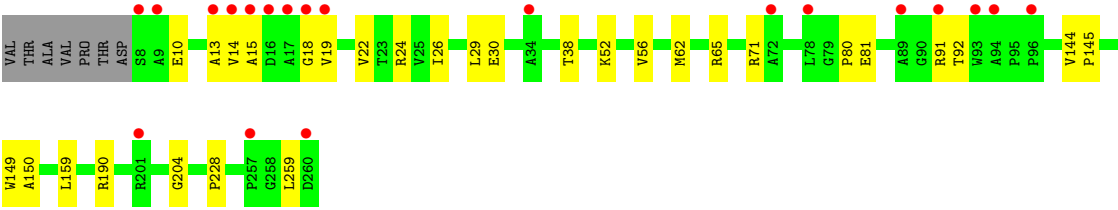


- Molecule 1: Transcriptional regulator



- Molecule 1: Transcriptional regulator





4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	60.25Å 69.03Å 79.21Å 74.88° 71.47° 68.87°	Depositor
Resolution (Å)	36.25 – 2.00 36.25 – 2.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (36.25-2.00) 97.3 (36.25-2.00)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	37.67 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.182 , 0.234 0.182 , 0.234	Depositor DCC
R_{free} test set	3697 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	26.7	Xtriage
Anisotropy	0.029	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 46.6	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	7907	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.56% 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

5.1 Standard geometry

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	1.08	3/1891 (0.2%)	1.02	1/2572 (0.0%)
1	B	1.02	0/1862	1.03	1/2532 (0.0%)
1	C	0.93	1/1923 (0.1%)	1.04	0/2621
1	D	0.96	0/1899	1.05	1/2585 (0.0%)
All	All	1.00	4/7575 (0.1%)	1.03	3/10310 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	D	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	62	MSE	SE-CE	-11.41	1.61	1.95
1	C	51	PRO	CA-CB	-5.97	1.46	1.53
1	A	144	VAL	N-CA	5.67	1.52	1.46
1	A	18	GLY	N-CA	5.17	1.53	1.45

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	78	LEU	N-CA-C	-5.61	102.59	110.50
1	A	43	GLU	N-CA-C	5.57	118.88	111.75
1	D	19	VAL	N-CA-C	-5.21	105.30	110.62

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	18	GLY	Peptide
1	D	259	LEU	Peptide

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	1848	0	1859	14	0
1	B	1827	0	1842	21	0
1	C	1885	0	1853	37	0
1	D	1867	0	1865	24	0
2	A	141	0	0	2	0
2	B	140	0	0	2	0
2	C	92	0	0	5	0
2	D	107	0	0	2	0
All	All	7907	0	7419	77	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 5.

All (77) 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:67:VAL:HG13	1:C:82:MSE:HE2	1.45	0.97
1:B:139:VAL:O	1:B:139:VAL:HG22	1.80	0.79
1:C:130:CYS:SG	2:C:276:HOH:O	2.40	0.78
1:C:15:ALA:HB1	1:D:65:ARG:HD3	1.66	0.77
1:C:81:GLU:CD	1:C:84:ARG:HH21	1.92	0.77
1:C:58:LEU:HD23	1:D:22:VAL:HG21	1.71	0.73
1:B:176:PRO:HG2	1:C:17:ALA:CB	2.20	0.71
1:C:25:VAL:HG22	1:C:62:MSE:HE2	1.72	0.70
1:D:26:ILE:O	1:D:30:GLU:HG3	1.93	0.68
1:B:176:PRO:HG2	1:C:17:ALA:HB1	1.76	0.68
1:A:254:ILE:HD11	1:C:57:ARG:HG3	1.77	0.66
1:A:87[B]:ARG:HH12	1:B:260:ASP:CG	2.04	0.65
1:B:117:TYR:CE1	1:B:124:ARG:HD2	2.32	0.64
1:D:24:ARG:NH1	2:D:350:HOH:O	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:VAL:HG22	1:B:25:VAL:HG21	1.81	0.62
1:B:87:ARG:NH2	2:B:353:HOH:O	2.32	0.62
1:C:67:VAL:HG13	1:C:82:MSE:CE	2.25	0.61
1:C:183:ARG:HD3	2:C:318:HOH:O	2.00	0.61
1:C:81:GLU:CD	1:C:84:ARG:NH2	2.60	0.60
1:C:15:ALA:CB	1:D:65:ARG:HD3	2.31	0.59
1:C:53:THR:O	1:C:56:VAL:HG22	2.02	0.59
1:A:201:ARG:NH2	1:A:205:SER:OG	2.35	0.59
1:D:65:ARG:NH1	2:D:367:HOH:O	2.36	0.58
1:B:176:PRO:CG	1:C:17:ALA:HB1	2.34	0.57
1:C:10:GLU:CD	1:C:201:ARG:HG2	2.30	0.56
1:B:176:PRO:CB	1:C:17:ALA:HB1	2.36	0.55
1:C:87:ARG:HG2	1:C:91:ARG:NH1	2.22	0.55
1:C:58:LEU:CD2	1:D:22:VAL:HG21	2.37	0.54
1:A:116[B]:LEU:HD11	1:A:212:LEU:HD12	1.90	0.53
1:C:149:TRP:CE3	1:C:150:ALA:HB2	2.43	0.53
1:C:30:GLU:OE2	1:D:81:GLU:OE2	2.27	0.52
1:C:7:ASP:O	1:C:202:GLU:HA	2.10	0.51
1:D:13:ALA:C	1:D:15:ALA:H	2.19	0.50
1:B:124:ARG:NH2	1:D:10:GLU:OE2	2.43	0.50
1:A:116[B]:LEU:HD11	1:A:212:LEU:CD1	2.41	0.50
1:A:149:TRP:CZ3	1:A:150:ALA:HB2	2.46	0.50
1:A:149:TRP:CE3	1:A:150:ALA:HB2	2.47	0.50
1:C:22:VAL:O	1:C:26:ILE:HG12	2.11	0.49
1:A:37:PRO:HD2	2:A:307:HOH:O	2.13	0.49
1:B:139:VAL:O	1:B:139:VAL:CG2	2.54	0.49
1:B:146:TYR:HB3	1:B:147:PRO:HD2	1.93	0.49
1:C:125:VAL:HG11	1:D:80:PRO:HB2	1.94	0.48
1:C:15:ALA:CB	1:D:65:ARG:CD	2.92	0.47
1:C:87:ARG:HG2	1:C:91:ARG:HH12	1.79	0.47
1:C:37:PRO:HB3	1:D:92:THR:HG21	1.97	0.47
1:D:149:TRP:CE3	1:D:150:ALA:HB2	2.49	0.47
1:B:156:ILE:HG13	1:B:209:SER:HB3	1.97	0.46
1:C:28:LEU:HD12	1:C:58:LEU:HD13	1.97	0.46
1:C:192[B]:ARG:NH2	2:C:338:HOH:O	2.27	0.46
1:B:257:PRO:HA	2:B:347:HOH:O	2.15	0.46
1:D:149:TRP:CZ3	1:D:150:ALA:HB2	2.51	0.46
1:B:256:LEU:O	1:B:260:ASP:N	2.42	0.45
1:A:116[B]:LEU:CD1	1:A:212:LEU:CD1	2.95	0.45
1:A:229[A]:THR:HG21	2:A:318:HOH:O	2.17	0.45
1:B:52:LYS:O	1:B:56:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:295:HOH:O	1:D:91:ARG:HD2	2.17	0.44
1:D:29:LEU:HG	1:D:62:MSE:HE1	2.00	0.44
1:A:26:ILE:HD13	1:B:65:ARG:HG2	1.99	0.44
1:D:38:THR:HG21	1:D:71:ARG:HH11	1.83	0.43
1:B:21:SER:O	1:B:25:VAL:HG23	2.17	0.43
1:C:27:ASP:OD1	1:D:65:ARG:NH2	2.51	0.43
1:D:159:LEU:HD22	1:D:190:ARG:HB2	2.00	0.43
1:C:38:THR:HG22	1:C:77:SER:HB3	1.99	0.43
1:C:234:GLU:HG2	2:C:304:HOH:O	2.18	0.43
1:A:57:ARG:HG2	1:B:19:VAL:HG21	2.01	0.42
1:C:56:VAL:HG23	1:C:57:ARG:N	2.35	0.42
1:B:122:LEU:HD23	1:B:164:LEU:HD13	2.02	0.41
1:B:187:GLU:OE2	1:B:190:ARG:HD2	2.20	0.41
1:A:78:LEU:HD22	1:A:82:MSE:HG2	2.03	0.41
1:C:44:LEU:HD23	1:C:44:LEU:HA	1.95	0.41
1:C:116:LEU:HD11	1:C:212:LEU:HD12	2.04	0.40
1:D:52:LYS:O	1:D:56:VAL:HG23	2.21	0.40
1:C:25:VAL:O	1:C:29:LEU:HG	2.20	0.40
1:D:144:VAL:HA	1:D:145:PRO:HD3	1.91	0.40
1:C:28:LEU:CD1	1:C:58:LEU:HD13	2.52	0.40
1:D:38:THR:HG21	1:D:71:ARG:NH1	2.36	0.40
1:D:204:GLY:O	1:D:228:PRO:HA	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 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	246/260 (95%)	241 (98%)	5 (2%)	0	100	100
1	B	243/260 (94%)	241 (99%)	1 (0%)	1 (0%)	30	27
1	C	256/260 (98%)	252 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	251/260 (96%)	244 (97%)	6 (2%)	1 (0%)	30	27
All	All	996/1040 (96%)	978 (98%)	16 (2%)	2 (0%)	43	42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	14	VAL
1	B	73	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	193/206 (94%)	192 (100%)	1 (0%)	81	87
1	B	191/206 (93%)	189 (99%)	2 (1%)	68	75
1	C	190/206 (92%)	186 (98%)	4 (2%)	47	52
1	D	191/206 (93%)	191 (100%)	0	100	100
All	All	765/824 (93%)	758 (99%)	7 (1%)	70	78

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	97	GLU
1	B	140	ILE
1	B	191	GLU
1	C	97	GLU
1	C	118	ILE
1	C	183	ARG
1	C	201	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	120	GLN
1	C	105	GLN
1	C	129	GLN
1	D	216	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	239/260 (91%)	0.59	16 (6%) 24 22	10, 29, 43, 52	6 (2%)
1	B	241/260 (92%)	0.34	7 (2%) 53 52	16, 29, 39, 51	1 (0%)
1	C	252/260 (96%)	0.89	38 (15%) 5 5	14, 30, 44, 60	3 (1%)
1	D	250/260 (96%)	0.47	20 (8%) 18 17	20, 30, 48, 69	0
All	All	982/1040 (94%)	0.57	81 (8%) 17 16	10, 30, 43, 69	10 (1%)

All (81) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	260	ASP	6.0
1	A	48	THR	5.8
1	D	19	VAL	5.4
1	D	15	ALA	5.1
1	D	17	ALA	5.1
1	D	14	VAL	4.9
1	C	72	ALA	4.6
1	D	16	ASP	4.6
1	C	64	ALA	4.5
1	C	73	ASP	4.4
1	C	41	LEU	4.4
1	C	16	ASP	4.2
1	C	15	ALA	4.2
1	A	21	SER	4.1
1	C	56	VAL	4.1
1	C	67	VAL	3.8
1	A	54	THR	3.6
1	A	49	LYS	3.6
1	C	7	ASP	3.5
1	A	201	ARG	3.5
1	C	17	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
1	C	42	LYS	3.5
1	C	69	THR	3.5
1	A	18	GLY	3.4
1	C	66	SER	3.4
1	D	18	GLY	3.4
1	D	9	ALA	3.4
1	C	63	CYS	3.3
1	D	91	ARG	3.2
1	D	13	ALA	3.2
1	D	34	ALA	3.2
1	C	75	SER	3.1
1	D	89	ALA	3.1
1	C	60	ALA	3.1
1	A	78	LEU	3.0
1	D	78	LEU	3.0
1	D	8	SER	3.0
1	C	14	VAL	3.0
1	C	6	THR	3.0
1	C	78	LEU	2.9
1	C	53	THR	2.9
1	C	260	ASP	2.8
1	B	178	PHE	2.8
1	A	34	ALA	2.7
1	C	55	VAL	2.7
1	A	32	PHE	2.7
1	C	38	THR	2.7
1	C	43	GLU	2.7
1	C	68	LEU	2.6
1	B	176	PRO	2.6
1	C	9	ALA	2.6
1	D	96	PRO	2.6
1	D	93	TRP	2.6
1	C	10	GLU	2.5
1	C	74	GLY	2.5
1	C	59	VAL	2.5
1	C	8	SER	2.5
1	C	58	LEU	2.5
1	A	46	GLU	2.4
1	A	257	PRO	2.4
1	C	37	PRO	2.4
1	D	72	ALA	2.4
1	C	70	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	C	174	HIS	2.4
1	B	17	ALA	2.3
1	A	35	ALA	2.3
1	C	13	ALA	2.3
1	A	259	LEU	2.3
1	C	51	PRO	2.3
1	A	37	PRO	2.2
1	C	71	ARG	2.2
1	B	149	TRP	2.2
1	D	201	ARG	2.2
1	A	45	VAL	2.1
1	D	257	PRO	2.1
1	D	94	ALA	2.1
1	A	20	ARG	2.0
1	B	173	PRO	2.0
1	B	74	GLY	2.0
1	C	57	ARG	2.0
1	B	174	HIS	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.