



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 30, 2021 – 06:24 PM EST

PDB ID : 3K12
Title : Crystal structure of an uncharacterized protein A6V7T0 from *Pseudomonas aeruginosa*
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Deposited on : 2009-09-25
Resolution : 1.49 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.16
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.16

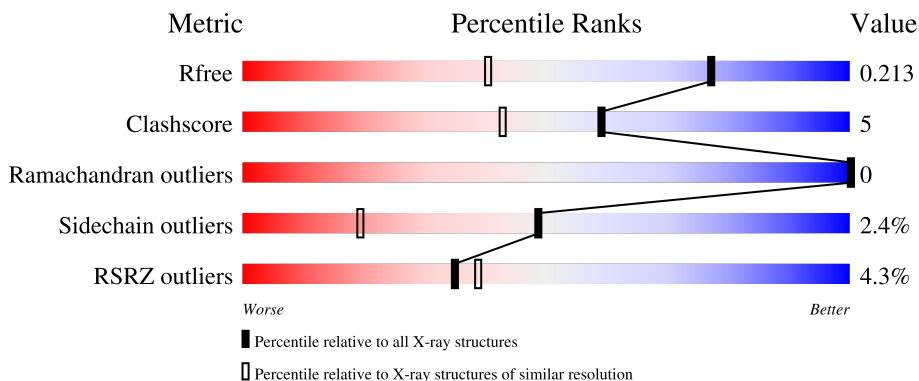
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.49 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.



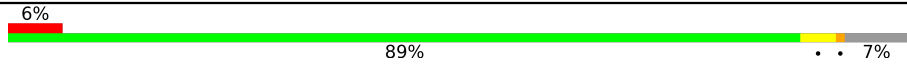
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2936 (1.50-1.50)
Clashscore	141614	3144 (1.50-1.50)
Ramachandran outliers	138981	3066 (1.50-1.50)
Sidechain outliers	138945	3064 (1.50-1.50)
RSRZ outliers	127900	2884 (1.50-1.50)

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	122	 2% 85% 8% • 6%
1	B	122	 4% 88% 5% • 7%
1	C	122	 2% 81% 11% • 6%
1	D	122	 6% 86% 11% • •
1	E	122	 3% 86% 7% • 6%

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Mol	Chain	Length	Quality of chain
1	F	122	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	GOL	C	1	-	-	X	-
2	GOL	E	1	-	-	X	-

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 6232 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 uncharacterized protein A6V7T0.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	115	965	600	184	178	1	2	0	7	0
1	B	114	920	572	175	170	1	2	0	1	0
1	C	115	933	579	176	175	1	2	0	2	0
1	D	120	981	608	191	179	1	2	0	2	0
1	E	115	929	577	176	173	1	2	0	1	0
1	F	114	933	580	179	171	1	2	0	3	0

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	118	GLU	-	expression tag	UNP Q9I3E9
A	119	GLY	-	expression tag	UNP Q9I3E9
A	120	HIS	-	expression tag	UNP Q9I3E9
A	121	HIS	-	expression tag	UNP Q9I3E9
A	122	HIS	-	expression tag	UNP Q9I3E9
A	123	HIS	-	expression tag	UNP Q9I3E9
A	124	HIS	-	expression tag	UNP Q9I3E9
A	125	HIS	-	expression tag	UNP Q9I3E9
B	118	GLU	-	expression tag	UNP Q9I3E9
B	119	GLY	-	expression tag	UNP Q9I3E9
B	120	HIS	-	expression tag	UNP Q9I3E9
B	121	HIS	-	expression tag	UNP Q9I3E9
B	122	HIS	-	expression tag	UNP Q9I3E9
B	123	HIS	-	expression tag	UNP Q9I3E9
B	124	HIS	-	expression tag	UNP Q9I3E9
B	125	HIS	-	expression tag	UNP Q9I3E9
C	118	GLU	-	expression tag	UNP Q9I3E9

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Chain	Residue	Modelled	Actual	Comment	Reference
C	119	GLY	-	expression tag	UNP Q9I3E9
C	120	HIS	-	expression tag	UNP Q9I3E9
C	121	HIS	-	expression tag	UNP Q9I3E9
C	122	HIS	-	expression tag	UNP Q9I3E9
C	123	HIS	-	expression tag	UNP Q9I3E9
C	124	HIS	-	expression tag	UNP Q9I3E9
C	125	HIS	-	expression tag	UNP Q9I3E9
D	118	GLU	-	expression tag	UNP Q9I3E9
D	119	GLY	-	expression tag	UNP Q9I3E9
D	120	HIS	-	expression tag	UNP Q9I3E9
D	121	HIS	-	expression tag	UNP Q9I3E9
D	122	HIS	-	expression tag	UNP Q9I3E9
D	123	HIS	-	expression tag	UNP Q9I3E9
D	124	HIS	-	expression tag	UNP Q9I3E9
D	125	HIS	-	expression tag	UNP Q9I3E9
E	118	GLU	-	expression tag	UNP Q9I3E9
E	119	GLY	-	expression tag	UNP Q9I3E9
E	120	HIS	-	expression tag	UNP Q9I3E9
E	121	HIS	-	expression tag	UNP Q9I3E9
E	122	HIS	-	expression tag	UNP Q9I3E9
E	123	HIS	-	expression tag	UNP Q9I3E9
E	124	HIS	-	expression tag	UNP Q9I3E9
E	125	HIS	-	expression tag	UNP Q9I3E9
F	118	GLU	-	expression tag	UNP Q9I3E9
F	119	GLY	-	expression tag	UNP Q9I3E9
F	120	HIS	-	expression tag	UNP Q9I3E9
F	121	HIS	-	expression tag	UNP Q9I3E9
F	122	HIS	-	expression tag	UNP Q9I3E9
F	123	HIS	-	expression tag	UNP Q9I3E9
F	124	HIS	-	expression tag	UNP Q9I3E9
F	125	HIS	-	expression tag	UNP Q9I3E9


- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

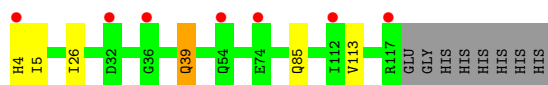


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	C	1	Total C O 6 3 3	0	0
2	E	1	Total C O 6 3 3	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	116	Total O 116 116	0	0
3	B	90	Total O 90 90	0	0
3	C	83	Total O 83 83	0	0
3	D	89	Total O 89 89	0	0
3	E	114	Total O 114 114	0	0
3	F	67	Total O 67 67	0	0

Chain F:  6% 89% 7%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	78.72Å 86.55Å 104.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.49 37.92 – 1.49	Depositor EDS
% Data completeness (in resolution range)	99.8 (50.00-1.49) 99.8 (37.92-1.49)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.95 (at 1.49Å)	Xtrriage
Refinement program	REFMAC 5.5.0089	Depositor
R, R_{free}	0.188 , 0.214 0.187 , 0.213	Depositor DCC
R_{free} test set	5868 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	18.0	Xtrriage
Anisotropy	0.022	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 49.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6232	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.78% 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: GOL

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	0.60	0/1000	0.78	3/1349 (0.2%)
1	B	0.54	0/937	0.67	0/1266
1	C	0.58	0/953	0.70	0/1288
1	D	0.58	0/1005	0.71	1/1357 (0.1%)
1	E	0.58	0/946	0.71	0/1278
1	F	0.54	0/956	0.66	0/1291
All	All	0.57	0/5797	0.71	4/7829 (0.1%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	D	19	LEU	CA-CB-CG	5.59	128.15	115.30
1	A	106	ARG	NE-CZ-NH1	-5.53	117.54	120.30
1	A	95	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	A	37	ASP	CB-CG-OD1	5.05	122.84	118.30

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	965	0	967	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	920	0	910	6	0
1	C	933	0	918	13	0
1	D	981	0	958	13	0
1	E	929	0	916	14	0
1	F	933	0	929	5	0
2	C	6	0	8	6	0
2	E	6	0	8	6	0
3	A	116	0	0	0	0
3	B	90	0	0	1	0
3	C	83	0	0	1	0
3	D	89	0	0	1	0
3	E	114	0	0	2	0
3	F	67	0	0	1	0
All	All	6232	0	5614	53	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 (53) 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:48:ASN:OD1	1:A:51[A]:ARG:NH2	1.94	0.99
1:E:97:CYS:H	2:E:1:GOL:H32	1.27	0.99
1:D:62:GLN:HE22	1:D:118:GLU:H	1.02	0.93
1:C:48[B]:ASN:ND2	3:C:489:HOH:O	2.05	0.88
1:E:85[A]:GLN:HG3	3:E:152:HOH:O	1.78	0.82
1:C:39:GLN:H	1:C:39:GLN:HE21	1.28	0.82
1:B:87:PHE:O	3:B:558:HOH:O	1.99	0.80
2:C:1:GOL:O1	1:D:14:ARG:NH2	2.15	0.80
1:A:39:GLN:HE21	1:A:39:GLN:H	1.27	0.79
1:C:95:ARG:HE	2:C:1:GOL:H11	1.48	0.77
1:F:39:GLN:HE21	1:F:39:GLN:H	1.35	0.75
1:C:97:CYS:HB3	2:C:1:GOL:H2	1.69	0.75
1:B:39:GLN:HE21	1:B:39:GLN:H	1.33	0.74
1:E:39:GLN:HE21	1:E:39:GLN:H	1.32	0.73
1:C:95:ARG:HE	2:C:1:GOL:C1	2.05	0.69
1:D:39:GLN:HE21	1:D:39:GLN:H	1.41	0.67
1:E:97:CYS:N	2:E:1:GOL:H32	2.08	0.62
1:E:97:CYS:H	2:E:1:GOL:C3	2.09	0.62
1:D:39:GLN:O	1:D:43:ARG:HG3	2.00	0.61
1:D:43:ARG:O	1:D:47[B]:GLU:HG3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:GLN:NE2	1:D:118:GLU:H	1.87	0.59
1:E:97:CYS:HB3	2:E:1:GOL:C1	2.33	0.59
1:E:56:VAL:O	1:E:117:ARG:HD2	2.05	0.56
1:A:35[A]:SER:OG	1:E:73:ARG:NH1	2.39	0.56
1:E:97:CYS:HB3	2:E:1:GOL:H12	1.89	0.55
1:F:85[B]:GLN:HG3	3:F:525:HOH:O	2.07	0.55
1:F:39:GLN:NE2	1:F:39:GLN:H	2.02	0.54
1:C:62:GLN:HE22	1:C:118:GLU:H	1.56	0.54
1:C:39:GLN:NE2	1:C:39:GLN:H	2.01	0.53
1:A:17:MSE:HG2	1:A:26:ILE:HG12	1.92	0.52
1:B:56:VAL:O	1:B:117:ARG:HD3	2.09	0.51
1:A:39:GLN:NE2	1:A:39:GLN:H	2.03	0.50
2:C:1:GOL:O1	1:D:14:ARG:CZ	2.63	0.47
1:E:97:CYS:HB3	2:E:1:GOL:H11	1.96	0.47
1:C:26:ILE:HB	1:C:113:VAL:HB	1.96	0.46
1:C:34:PRO:HG2	1:C:106:ARG:HE	1.80	0.46
1:D:121:HIS:HB2	3:D:340:HOH:O	2.16	0.46
1:D:119:GLY:HA3	1:D:121:HIS:CE1	2.51	0.46
1:B:39:GLN:NE2	1:B:39:GLN:H	2.09	0.46
1:B:19:LEU:HD22	1:B:24:VAL:HG22	1.99	0.45
1:C:99:LEU:HD12	1:D:101:GLU:CD	2.36	0.45
1:E:26:ILE:HB	1:E:113:VAL:HB	1.99	0.45
1:E:85[A]:GLN:CG	3:E:152:HOH:O	2.49	0.45
1:E:39:GLN:NE2	1:E:39:GLN:H	2.05	0.45
1:C:4:HIS:N	1:C:4:HIS:CD2	2.84	0.45
1:D:104:ASP:HB3	1:D:107:TRP:CD2	2.52	0.44
1:F:26:ILE:HB	1:F:113:VAL:HB	2.01	0.43
1:D:43:ARG:HG2	1:D:43:ARG:NH2	2.34	0.43
1:D:26:ILE:HB	1:D:113:VAL:HB	2.02	0.41
1:C:95:ARG:NE	2:C:1:GOL:H11	2.26	0.41
1:C:104:ASP:HB3	1:C:107:TRP:CD2	2.55	0.41
1:E:104:ASP:HB3	1:E:107:TRP:CD2	2.55	0.41
1:B:116:ALA:HB3	1:F:5:ILE:HD11	2.03	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	120/122 (98%)	119 (99%)	1 (1%)	0	100	100
1	B	113/122 (93%)	112 (99%)	1 (1%)	0	100	100
1	C	115/122 (94%)	112 (97%)	3 (3%)	0	100	100
1	D	120/122 (98%)	117 (98%)	3 (2%)	0	100	100
1	E	114/122 (93%)	111 (97%)	3 (3%)	0	100	100
1	F	115/122 (94%)	113 (98%)	2 (2%)	0	100	100
All	All	697/732 (95%)	684 (98%)	13 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	104/101 (103%)	101 (97%)	3 (3%)	42	13
1	B	97/101 (96%)	96 (99%)	1 (1%)	76	57
1	C	99/101 (98%)	95 (96%)	4 (4%)	31	6
1	D	103/101 (102%)	100 (97%)	3 (3%)	42	13
1	E	98/101 (97%)	97 (99%)	1 (1%)	76	57
1	F	99/101 (98%)	97 (98%)	2 (2%)	55	25
All	All	600/606 (99%)	586 (98%)	14 (2%)	49	20

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	HIS
1	A	39	GLN
1	A	117	ARG
1	B	39	GLN
1	C	4	HIS
1	C	39	GLN
1	C	54	GLN
1	C	117	ARG
1	D	19	LEU
1	D	39	GLN
1	D	50	ASP
1	E	39	GLN
1	F	4	HIS
1	F	39	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	4	HIS
1	A	22	ASN
1	A	39	GLN
1	A	81	GLN
1	B	39	GLN
1	B	81	GLN
1	C	4	HIS
1	C	22	ASN
1	C	39	GLN
1	C	54	GLN
1	C	62	GLN
1	C	81	GLN
1	D	39	GLN
1	D	62	GLN
1	D	81	GLN
1	D	121	HIS
1	E	39	GLN
1	E	81	GLN
1	F	39	GLN
1	F	81	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	GOL	E	1	-	5,5,5	0.65	0	5,5,5	0.70	0
2	GOL	C	1	-	5,5,5	0.28	0	5,5,5	1.20	1 (20%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GOL	E	1	-	-	3/4/4/4	-
2	GOL	C	1	-	-	1/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	C	1	GOL	O2-C2-C3	2.09	118.33	109.12

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	E	1	GOL	C1-C2-C3-O3
2	E	1	GOL	O2-C2-C3-O3
2	C	1	GOL	O1-C1-C2-C3
2	E	1	GOL	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	1	GOL	6	0
2	C	1	GOL	6	0

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	113/122 (92%)	0.19	3 (2%) 54 59	11, 16, 25, 38	0
1	B	112/122 (91%)	0.26	5 (4%) 33 36	12, 19, 27, 35	0
1	C	113/122 (92%)	0.29	3 (2%) 54 59	11, 18, 28, 36	0
1	D	118/122 (96%)	0.20	7 (5%) 22 24	11, 17, 29, 43	0
1	E	113/122 (92%)	0.09	4 (3%) 44 48	11, 16, 25, 37	0
1	F	112/122 (91%)	0.45	7 (6%) 20 21	12, 22, 31, 38	0
All	All	681/732 (93%)	0.25	29 (4%) 35 39	11, 18, 29, 43	0

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	120	HIS	6.2
1	F	4	HIS	5.9
1	C	4	HIS	5.6
1	A	4	HIS	5.5
1	B	4	HIS	5.3
1	D	121	HIS	5.2
1	E	4	HIS	5.1
1	D	122	HIS	3.9
1	A	118	GLU	3.9
1	D	4	HIS	3.6
1	D	119	GLY	3.0
1	C	112	ILE	2.9
1	C	118	GLU	2.8
1	F	74	GLU	2.7
1	F	54	GLN	2.7
1	B	114	VAL	2.6
1	F	32	ASP	2.4
1	B	21	GLY	2.4
1	F	117	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	F	112	ILE	2.3
1	E	118	GLU	2.3
1	B	66	VAL	2.2
1	E	112	ILE	2.2
1	F	36	GLY	2.1
1	B	112	ILE	2.0
1	D	112	ILE	2.0
1	E	66	VAL	2.0
1	A	66	VAL	2.0
1	D	35	SER	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 monosaccharides 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
2	GOL	E	1	6/6	0.66	0.25	28,31,33,35	0
2	GOL	C	1	6/6	0.78	0.18	29,32,33,34	0

6.5 Other polymers [i](#)

There are no such residues in this entry.