



Full wwPDB X-ray Structure Validation Report i

Feb 18, 2024 – 11:23 PM EST

PDB ID : 4HWC
Title : Structure of ATBAG1
Authors : Shen, Y.; Fang, S.
Deposited on : 2012-11-07
Resolution : 1.80 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 i 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](#) ①) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

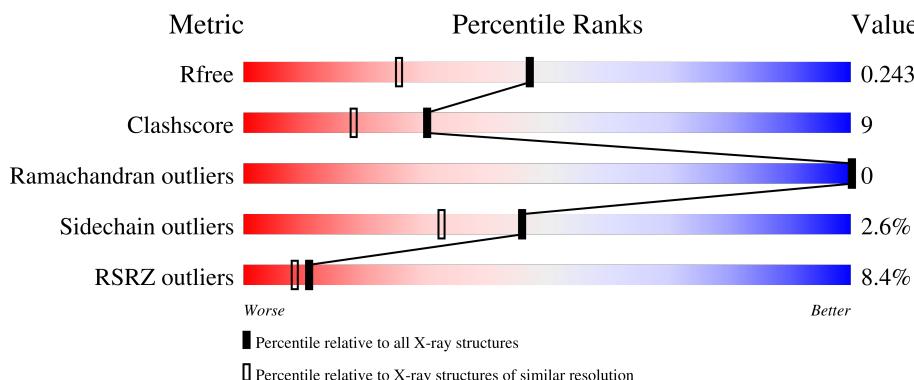
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

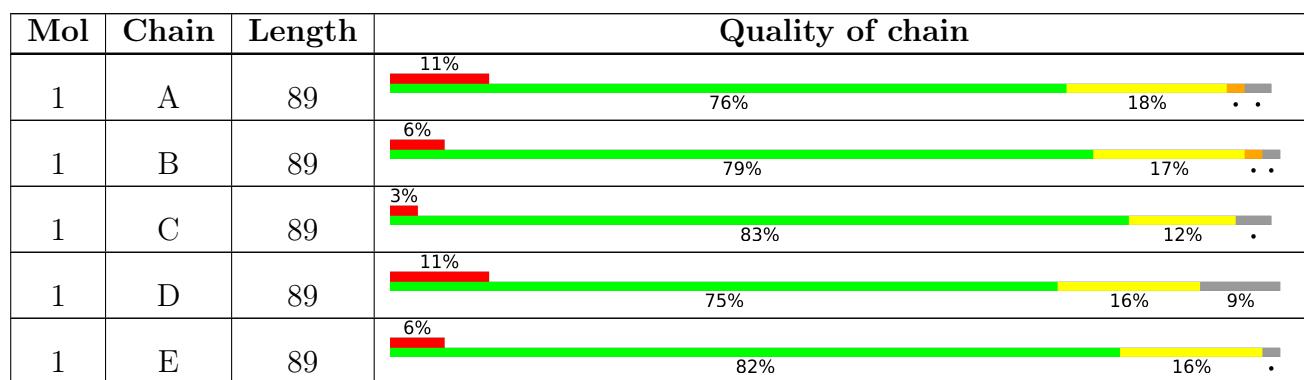
The reported resolution of this entry is 1.80 Å.

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	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (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.



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Mol	Chain	Length	Quality of chain		
1	F	89	11%	72%	20% • 6%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 4407 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 BAG family molecular chaperone regulator 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	86	Total	C	N	O	S	0	0	0
			656	414	113	126	3			
1	B	87	Total	C	N	O	S	0	0	0
			655	414	114	124	3			
1	C	85	Total	C	N	O	S	0	0	0
			651	411	112	125	3			
1	D	81	Total	C	N	O	S	0	0	0
			615	388	106	119	2			
1	E	87	Total	C	N	O	S	0	0	0
			651	410	113	125	3			
1	F	84	Total	C	N	O	S	0	0	0
			634	400	109	122	3			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	153	GLY	-	expression tag	UNP Q0WUQ1
A	154	PRO	-	expression tag	UNP Q0WUQ1
A	155	GLY	-	expression tag	UNP Q0WUQ1
A	156	SER	-	expression tag	UNP Q0WUQ1
B	153	GLY	-	expression tag	UNP Q0WUQ1
B	154	PRO	-	expression tag	UNP Q0WUQ1
B	155	GLY	-	expression tag	UNP Q0WUQ1
B	156	SER	-	expression tag	UNP Q0WUQ1
C	153	GLY	-	expression tag	UNP Q0WUQ1
C	154	PRO	-	expression tag	UNP Q0WUQ1
C	155	GLY	-	expression tag	UNP Q0WUQ1
C	156	SER	-	expression tag	UNP Q0WUQ1
D	153	GLY	-	expression tag	UNP Q0WUQ1
D	154	PRO	-	expression tag	UNP Q0WUQ1
D	155	GLY	-	expression tag	UNP Q0WUQ1
D	156	SER	-	expression tag	UNP Q0WUQ1
E	153	GLY	-	expression tag	UNP Q0WUQ1

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Chain	Residue	Modelled	Actual	Comment	Reference
E	154	PRO	-	expression tag	UNP Q0WUQ1
E	155	GLY	-	expression tag	UNP Q0WUQ1
E	156	SER	-	expression tag	UNP Q0WUQ1
F	153	GLY	-	expression tag	UNP Q0WUQ1
F	154	PRO	-	expression tag	UNP Q0WUQ1
F	155	GLY	-	expression tag	UNP Q0WUQ1
F	156	SER	-	expression tag	UNP Q0WUQ1

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Cl 1 1	0	0
2	E	1	Total Cl 1 1	0	0

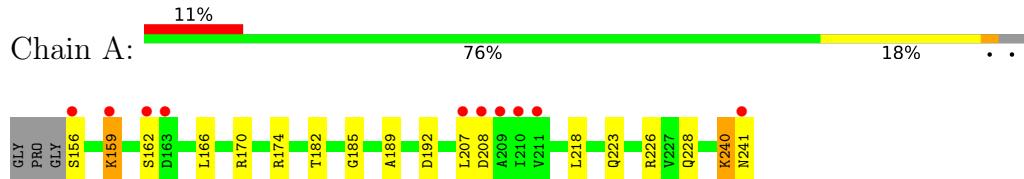
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	92	Total O 92 92	0	0
3	B	78	Total O 78 78	0	0
3	C	123	Total O 123 123	0	0
3	D	78	Total O 78 78	0	0
3	E	99	Total O 99 99	0	0
3	F	73	Total O 73 73	0	0

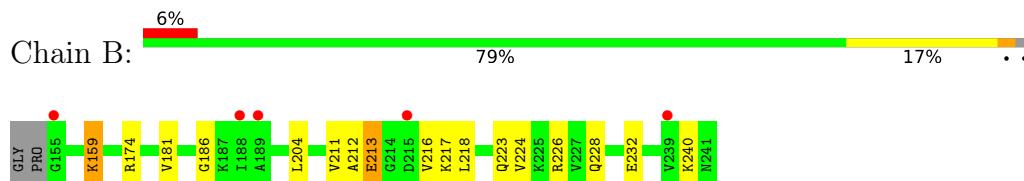
3 Residue-property plots [\(i\)](#)

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.

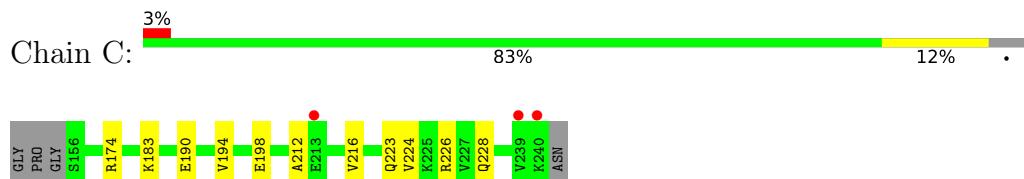
- Molecule 1: BAG family molecular chaperone regulator 1



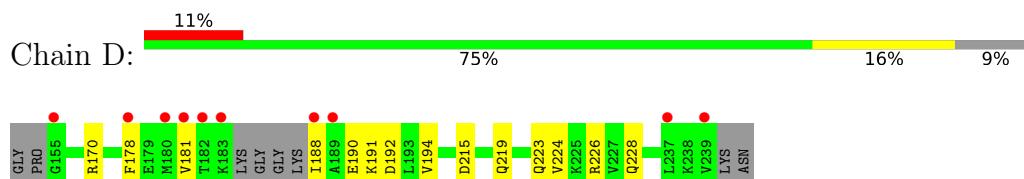
- Molecule 1: BAG family molecular chaperone regulator 1



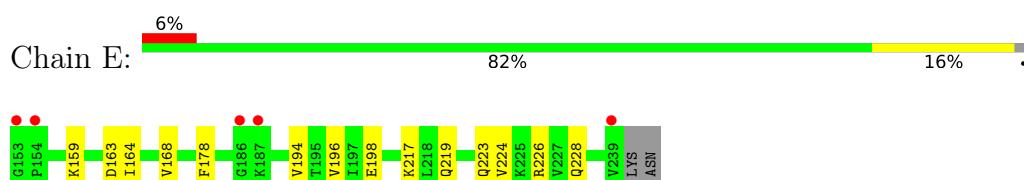
- Molecule 1: BAG family molecular chaperone regulator 1

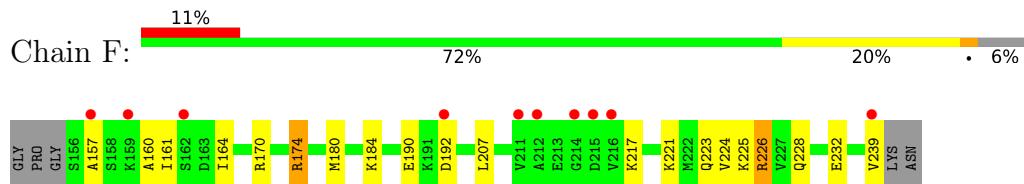


- Molecule 1: BAG family molecular chaperone regulator 1



- Molecule 1: BAG family molecular chaperone regulator 1





4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	56.72Å 96.85Å 103.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	35.48 – 1.80 35.48 – 1.80	Depositor EDS
% Data completeness (in resolution range)	96.3 (35.48-1.80) 99.2 (35.48-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	1.94 (at 1.79Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R , R_{free}	0.238 , 0.251 0.234 , 0.243	Depositor DCC
R_{free} test set	2692 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	22.5	Xtriage
Anisotropy	0.168	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 51.6	EDS
L-test for twinning ²	$< L > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4407	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 55.50 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.1349e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ 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: CL

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	0/657	0.61	1/879 (0.1%)
1	B	0.35	0/656	0.54	0/878
1	C	0.29	0/652	0.50	0/872
1	D	0.28	0/615	0.49	0/824
1	E	0.28	0/653	0.48	0/875
1	F	0.27	0/635	0.47	0/852
All	All	0.30	0/3868	0.52	1/5180 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	207	LEU	CB-CA-C	-5.77	99.23	110.20

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	656	0	703	16	0
1	B	655	0	699	15	0
1	C	651	0	701	9	0
1	D	615	0	651	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	651	0	690	10	0
1	F	634	0	673	15	0
2	A	1	0	0	0	0
2	E	1	0	0	1	0
3	A	92	0	0	4	0
3	B	78	0	0	4	0
3	C	123	0	0	4	0
3	D	78	0	0	2	0
3	E	99	0	0	0	0
3	F	73	0	0	4	0
All	All	4407	0	4117	74	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 9.

All (74) 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:B:212:ALA:HB1	1:B:216:VAL:HG23	1.46	0.93
1:D:223:GLN:HE22	1:D:226:ARG:HH11	1.15	0.92
1:C:223:GLN:HE22	1:C:226:ARG:HH11	1.19	0.90
1:A:156:SER:OG	1:A:159:LYS:HB3	1.79	0.82
1:F:224:VAL:HG12	1:F:228:GLN:HE21	1.44	0.81
1:B:223:GLN:HE22	1:B:226:ARG:HH11	1.28	0.80
1:B:212:ALA:HB1	1:B:216:VAL:CG2	2.16	0.75
1:F:223:GLN:HE22	1:F:226:ARG:HH11	1.35	0.72
1:B:174:ARG:HD2	3:B:325:HOH:O	1.92	0.70
1:B:211:VAL:HG21	3:F:347:HOH:O	1.90	0.70
1:B:213:GLU:O	1:B:216:VAL:HG22	1.91	0.70
1:E:223:GLN:HE22	1:E:226:ARG:HH11	1.40	0.68
1:A:159:LYS:HE3	1:A:159:LYS:HA	1.78	0.65
1:F:228:GLN:O	1:F:232:GLU:HG3	1.98	0.64
1:B:228:GLN:O	1:B:232:GLU:HG3	2.00	0.62
1:E:159:LYS:HE2	1:E:163:ASP:OD2	2.03	0.59
1:B:217:LYS:HG3	3:B:359:HOH:O	2.04	0.58
1:A:223:GLN:HE22	1:A:226:ARG:HH11	1.53	0.57
1:B:159:LYS:O	1:B:159:LYS:HD3	2.05	0.56
1:D:219:GLN:HG3	3:D:360:HOH:O	2.06	0.55
1:B:216:VAL:HG21	3:B:338:HOH:O	2.06	0.55
1:C:198:GLU:HG2	3:C:402:HOH:O	2.06	0.55
1:A:182:THR:HG21	1:A:240:LYS:HD3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:159:LYS:HD3	1:B:159:LYS:C	2.28	0.53
1:A:226:ARG:HD2	3:A:445:HOH:O	2.08	0.53
1:A:170:ARG:HH22	1:A:174:ARG:HH21	1.57	0.52
1:A:240:LYS:HG2	1:A:241:ASN:N	2.18	0.52
1:D:190:GLU:O	1:D:194:VAL:HG23	2.09	0.52
1:C:212:ALA:HB1	1:C:216:VAL:HG12	1.93	0.51
1:F:174:ARG:HA	1:F:174:ARG:HE	1.75	0.51
1:E:217:LYS:HG3	2:E:301:CL:CL	2.49	0.50
1:A:185:GLY:HA2	1:C:183:LYS:HD2	1.93	0.49
1:A:228:GLN:NE2	3:A:473:HOH:O	2.45	0.49
1:F:225:LYS:O	1:F:225:LYS:HD3	2.13	0.49
1:F:157:ALA:O	1:F:161:ILE:HG13	2.13	0.48
1:F:174:ARG:NH2	3:F:315:HOH:O	2.46	0.48
1:D:223:GLN:HE22	1:D:226:ARG:NH1	1.96	0.48
1:A:189:ALA:HB3	1:A:192:ASP:OD2	2.14	0.48
1:A:208:ASP:HA	3:A:466:HOH:O	2.14	0.47
1:C:223:GLN:HE22	1:C:226:ARG:NH1	1.99	0.47
1:D:170:ARG:CZ	3:D:377:HOH:O	2.63	0.47
1:E:224:VAL:O	1:E:228:GLN:HG3	2.14	0.46
1:F:170:ARG:O	3:F:347:HOH:O	2.20	0.46
1:A:156:SER:OG	1:A:156:SER:O	2.30	0.46
1:B:226:ARG:HD2	3:B:312:HOH:O	2.15	0.46
1:E:198:GLU:OE2	1:E:198:GLU:HA	2.16	0.46
1:A:218:LEU:HB3	3:A:490:HOH:O	2.16	0.45
1:D:170:ARG:HH11	1:D:170:ARG:HG3	1.81	0.45
1:F:180:MET:CG	1:F:184:LYS:HE2	2.47	0.45
1:C:194:VAL:HG13	3:C:402:HOH:O	2.17	0.44
1:E:219:GLN:O	1:E:223:GLN:HG2	2.17	0.44
1:F:160:ALA:HA	3:F:350:HOH:O	2.16	0.44
1:F:224:VAL:O	1:F:228:GLN:HG3	2.17	0.44
1:C:190:GLU:HG2	3:C:423:HOH:O	2.18	0.44
1:A:162:SER:O	1:A:166:LEU:HG	2.18	0.43
1:B:204:LEU:HD11	1:B:224:VAL:HG13	1.99	0.43
1:F:164:ILE:HG21	1:F:207:LEU:HG	2.00	0.43
1:D:178:PHE:O	1:D:188:ILE:HD11	2.19	0.43
1:F:217:LYS:O	1:F:221:LYS:HG3	2.18	0.43
1:E:194:VAL:O	1:E:198:GLU:HG2	2.19	0.43
1:D:178:PHE:O	1:D:181:VAL:HB	2.18	0.43
1:D:224:VAL:O	1:D:228:GLN:HG3	2.18	0.43
1:C:226:ARG:CD	3:C:320:HOH:O	2.67	0.42
1:A:240:LYS:O	1:A:241:ASN:C	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:159:LYS:HE2	1:E:163:ASP:CG	2.38	0.42
1:A:159:LYS:HE3	1:A:159:LYS:CA	2.48	0.42
1:B:181:VAL:HG13	1:B:186:GLY:HA3	2.01	0.42
1:F:180:MET:HG2	1:F:184:LYS:HE2	2.01	0.42
1:C:224:VAL:O	1:C:228:GLN:HG3	2.20	0.41
1:E:164:ILE:O	1:E:168:VAL:HG23	2.20	0.41
1:E:178:PHE:HE2	1:E:196:VAL:HG21	1.85	0.41
1:F:190:GLU:OE2	1:F:239:VAL:HG23	2.21	0.41
1:D:191:LYS:HG3	1:D:192:ASP:N	2.36	0.41
1:B:223:GLN:HE22	1:B:226:ARG:NH1	2.06	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	84/89 (94%)	82 (98%)	2 (2%)	0	100	100
1	B	85/89 (96%)	85 (100%)	0	0	100	100
1	C	83/89 (93%)	83 (100%)	0	0	100	100
1	D	77/89 (86%)	77 (100%)	0	0	100	100
1	E	85/89 (96%)	85 (100%)	0	0	100	100
1	F	82/89 (92%)	82 (100%)	0	0	100	100
All	All	496/534 (93%)	494 (100%)	2 (0%)	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	72/75 (96%)	70 (97%)	2 (3%)	43 30
1	B	70/75 (93%)	66 (94%)	4 (6%)	20 8
1	C	72/75 (96%)	71 (99%)	1 (1%)	67 59
1	D	67/75 (89%)	66 (98%)	1 (2%)	65 56
1	E	70/75 (93%)	70 (100%)	0	100 100
1	F	69/75 (92%)	66 (96%)	3 (4%)	29 14
All	All	420/450 (93%)	409 (97%)	11 (3%)	46 32

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	159	LYS
1	A	240	LYS
1	B	159	LYS
1	B	213	GLU
1	B	218	LEU
1	B	240	LYS
1	C	174	ARG
1	D	215	ASP
1	F	174	ARG
1	F	192	ASP
1	F	226	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	223	GLN
1	A	228	GLN
1	B	223	GLN
1	C	223	GLN
1	D	223	GLN
1	E	223	GLN

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Mol	Chain	Res	Type
1	F	223	GLN
1	F	228	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 [\(i\)](#)

Of 2 ligands modelled in this entry, 2 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 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	86/89 (96%)	0.87	10 (11%) 4 3	12, 24, 56, 98	0
1	B	87/89 (97%)	0.55	5 (5%) 23 19	11, 22, 49, 67	0
1	C	85/89 (95%)	0.35	3 (3%) 44 38	10, 19, 33, 114	0
1	D	81/89 (91%)	0.66	10 (12%) 4 3	15, 24, 54, 95	0
1	E	87/89 (97%)	0.41	5 (5%) 23 19	11, 21, 41, 63	0
1	F	84/89 (94%)	0.96	10 (11%) 4 3	17, 28, 50, 90	0
All	All	510/534 (95%)	0.63	43 (8%) 11 8	10, 24, 51, 114	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	239	VAL	6.4
1	A	156	SER	5.6
1	F	214	GLY	4.3
1	A	211	VAL	4.3
1	B	189	ALA	4.0
1	E	239	VAL	3.4
1	F	157	ALA	3.2
1	A	208	ASP	3.2
1	D	155	GLY	3.2
1	D	188	ILE	3.1
1	A	162	SER	3.1
1	E	153	GLY	3.0
1	E	154	PRO	3.0
1	A	159	LYS	3.0
1	E	186	GLY	3.0
1	B	155	GLY	2.9
1	F	162	SER	2.8
1	D	189	ALA	2.8
1	A	210	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	C	240	LYS	2.8
1	A	241	ASN	2.6
1	D	183	LYS	2.6
1	F	211	VAL	2.6
1	C	213	GLU	2.6
1	A	209	ALA	2.5
1	A	163	ASP	2.5
1	F	216	VAL	2.4
1	D	180	MET	2.4
1	D	181	VAL	2.4
1	B	239	VAL	2.4
1	C	239	VAL	2.4
1	F	215	ASP	2.4
1	F	239	VAL	2.3
1	F	192	ASP	2.3
1	D	237	LEU	2.3
1	F	159	LYS	2.2
1	E	187	LYS	2.2
1	F	212	ALA	2.2
1	A	207	LEU	2.2
1	B	188	ILE	2.1
1	D	182	THR	2.1
1	B	215	ASP	2.1
1	D	178	PHE	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	CL	A	301	1/1	0.97	0.06	27,27,27,27	0
2	CL	E	301	1/1	0.98	0.07	32,32,32,32	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.