



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 8, 2017 – 09:40 PM EST

PDB ID : 4M9C
Title : WeeI from *Acinetobacter baumannii* AYE
Authors : Morrison, M.J.; Imperiali, B.
Deposited on : unknown
Resolution : 2.10 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

<http://wwpdb.org/validation/2016/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
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030345
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030345

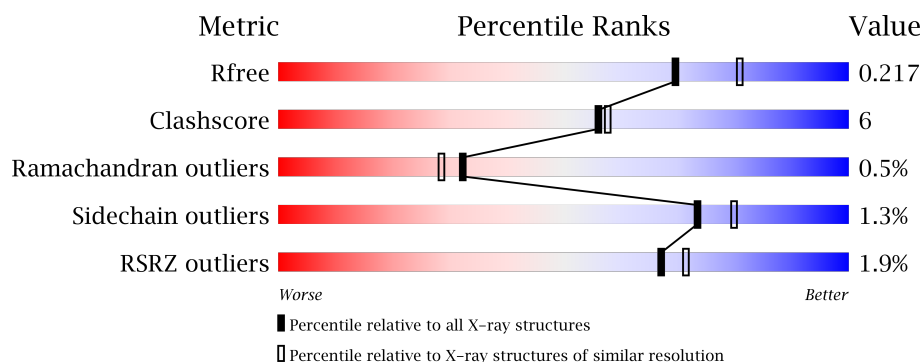
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


The reported resolution of this entry is 2.10 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}	100719	4243 (2.10-2.10)
Clashscore	112137	4788 (2.10-2.10)
Ramachandran outliers	110173	4740 (2.10-2.10)
Sidechain outliers	110143	4741 (2.10-2.10)
RSRZ outliers	101464	4275 (2.10-2.10)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	216	
1	B	216	
1	C	216	
1	D	216	
1	E	216	

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Mol	Chain	Length	Quality of chain
1	F	216	<div><div></div><div>3%</div><div>87%</div><div>13%</div></div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 10138 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 Bacterial transferase hexapeptide (Three repeats) family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	216	Total	C	N	O	S	0	1	0
			1592	1027	259	299	7			
1	B	213	Total	C	N	O	S	0	0	0
			1567	1010	253	296	8			
1	C	216	Total	C	N	O	S	0	0	0
			1597	1028	261	300	8			
1	D	214	Total	C	N	O	S	0	0	0
			1577	1017	255	297	8			
1	E	212	Total	C	N	O	S	0	1	0
			1564	1009	252	296	7			
1	F	216	Total	C	N	O	S	0	1	0
			1601	1037	260	296	8			


- Molecule 2 is water.

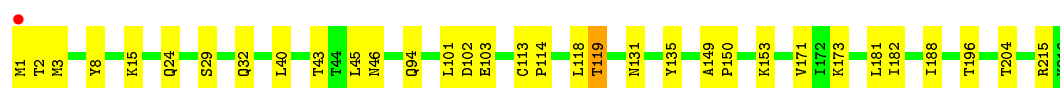
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	122	Total	O	0	0
			122	122		
2	B	94	Total	O	0	0
			94	94		
2	C	116	Total	O	0	0
			116	116		
2	D	114	Total	O	0	0
			114	114		
2	E	74	Total	O	0	0
			74	74		
2	F	120	Total	O	0	0
			120	120		

3 Residue-property plots [i](#)


These plots are drawn for all protein, RNA and DNA 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.

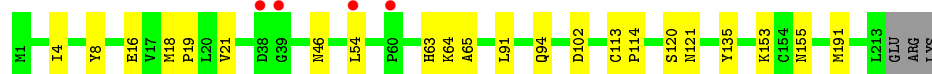
- Molecule 1: Bacterial transferase hexapeptide (Three repeats) family protein

Chain A: 




- Molecule 1: Bacterial transferase hexapeptide (Three repeats) family protein

Chain B: 




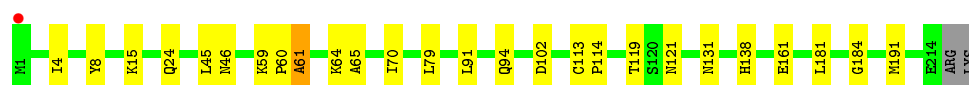
- Molecule 1: Bacterial transferase hexapeptide (Three repeats) family protein

Chain C: 




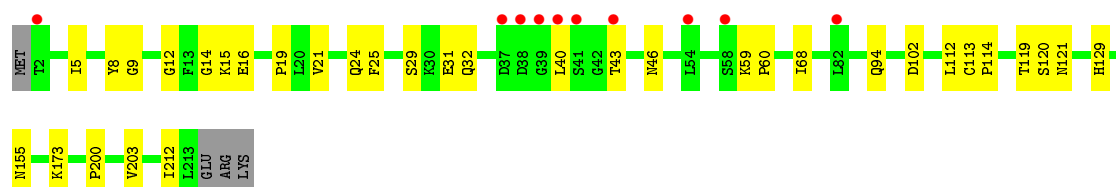
- Molecule 1: Bacterial transferase hexapeptide (Three repeats) family protein

Chain D: 

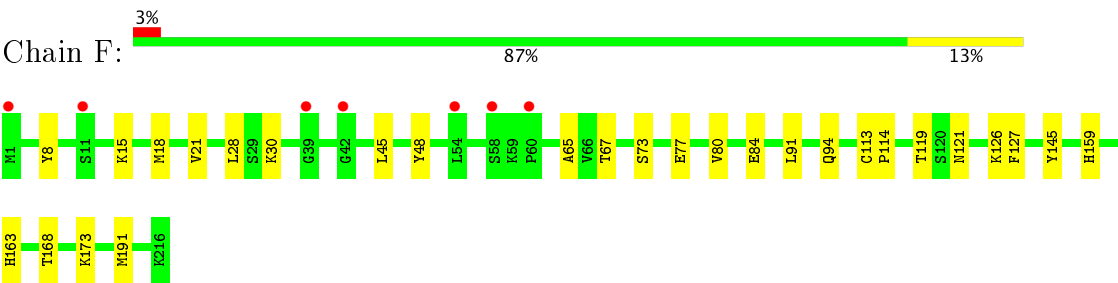


- Molecule 1: Bacterial transferase hexapeptide (Three repeats) family protein

Chain E: 



- Molecule 1: Bacterial transferase hexapeptide (Three repeats) family protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	148.29Å 148.29Å 182.41Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	48.50 – 2.10 48.54 – 1.90	Depositor EDS
% Data completeness (in resolution range)	96.4 (48.50-2.10) 92.1 (48.54-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.06 (at 1.90Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.191 , 0.226 0.179 , 0.217	Depositor DCC
R_{free} test set	6491 reflections (5.01%)	DCC
Wilson B-factor (Å ²)	27.4	Xtriage
Anisotropy	0.540	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 44.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.022 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10138	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.19% 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	0.37	0/1626	0.53	0/2212
1	B	0.35	0/1598	0.53	0/2178
1	C	0.38	0/1628	0.55	0/2214
1	D	0.39	0/1608	0.55	0/2189
1	E	0.33	0/1598	0.51	0/2178
1	F	0.36	0/1636	0.53	0/2223
All	All	0.36	0/9694	0.53	0/13194

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	1592	0	1597	30	0
1	B	1567	0	1561	24	0
1	C	1597	0	1600	19	0
1	D	1577	0	1583	18	0
1	E	1564	0	1562	24	0
1	F	1601	0	1616	20	0
2	A	122	0	0	2	0
2	B	94	0	0	1	0
2	C	116	0	0	1	0
2	D	114	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E	74	0	0	2	0
2	F	120	0	0	2	0
All	All	10138	0	9519	111	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 6.

All (111) 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:46:ASN:HD21	1:C:121:ASN:HD21	1.12	0.95
1:D:24:GLN:HE22	1:D:94:GLN:NE2	1.67	0.93
1:B:121:ASN:HD21	1:C:46:ASN:HD21	1.19	0.88
1:D:121:ASN:HD21	1:E:46:ASN:HD21	1.20	0.87
1:D:46:ASN:HD21	1:F:121:ASN:HD21	1.23	0.84
1:A:1:MET:O	1:A:2:THR:HG22	1.78	0.83
1:A:40:LEU:O	1:A:43:THR:HG22	1.79	0.83
1:D:121:ASN:ND2	1:E:15:LYS:HD2	1.96	0.81
1:A:173:LYS:HB2	1:B:191:MET:CE	2.16	0.75
1:C:24:GLN:NE2	1:C:94:GLN:H	1.85	0.74
1:E:200:PRO:HG2	1:E:203:VAL:HG21	1.70	0.74
1:D:15:LYS:HD3	1:D:45:LEU:HD11	1.70	0.72
1:E:40:LEU:O	1:E:43:THR:HG22	1.89	0.72
1:B:155:ASN:HD21	1:C:168:THR:HG21	1.56	0.70
1:E:59:LYS:HG3	1:E:60:PRO:HD2	1.74	0.70
1:F:73:SER:OG	1:F:163:HIS:HD2	1.75	0.69
1:D:138:HIS:CE1	1:E:12:GLY:HA2	2.27	0.69
1:C:15:LYS:HD3	1:C:45:LEU:HD11	1.76	0.66
1:A:173:LYS:HB2	1:B:191:MET:HE1	1.78	0.65
1:E:121:ASN:ND2	1:F:15:LYS:HD2	2.12	0.64
1:E:155:ASN:HD21	1:F:168:THR:HG21	1.63	0.63
1:A:24:GLN:HE22	1:A:94:GLN:HE22	1.47	0.61
1:D:4:ILE:HD11	1:D:64:LYS:HD3	1.81	0.61
1:F:159:HIS:HE1	2:F:347:HOH:O	1.84	0.61
1:C:210:ALA:O	1:C:211:ARG:HD3	2.02	0.60
1:A:196:THR:HG22	1:B:191:MET:HE3	1.84	0.60
1:A:131[B]:ASN:ND2	2:A:404:HOH:O	2.34	0.59
1:A:24:GLN:HE22	1:A:94:GLN:NE2	2.00	0.59
1:D:102:ASP:OD2	1:E:19:PRO:HG3	2.02	0.59
1:A:103:GLU:HG3	1:B:46:ASN:ND2	2.18	0.58
1:A:135:TYR:CE2	1:A:153:LYS:HG2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:24:GLN:HE22	1:C:94:GLN:NE2	2.04	0.55
1:A:29:SER:H	1:A:32:GLN:HE21	1.53	0.55
1:B:18:MET:O	1:B:21:VAL:HG12	2.07	0.54
1:E:29:SER:H	1:E:32:GLN:HE21	1.56	0.54
1:B:121:ASN:ND2	1:C:15:LYS:HD2	2.23	0.53
1:D:65:ALA:HB1	1:D:91:LEU:HD13	1.90	0.53
1:F:65:ALA:HB1	1:F:91:LEU:HD13	1.90	0.53
1:D:15:LYS:HD2	1:F:121:ASN:ND2	2.24	0.53
1:A:173:LYS:HB2	1:B:191:MET:HE2	1.91	0.52
1:B:4:ILE:HG22	1:B:64:LYS:HG2	1.91	0.52
1:C:80:VAL:O	1:C:84:GLU:HG3	2.09	0.52
1:D:24:GLN:HE22	1:D:94:GLN:HE22	1.54	0.52
1:D:191:MET:HE1	1:F:173:LYS:HB2	1.90	0.52
1:F:18:MET:O	1:F:21:VAL:HG22	2.11	0.51
1:F:94:GLN:HG3	2:F:334:HOH:O	2.09	0.51
1:A:113:CYS:HB3	1:A:114:PRO:HD2	1.92	0.51
1:B:113:CYS:HB3	1:B:114:PRO:CD	2.41	0.51
1:A:188:ILE:HB	1:A:204:THR:HG22	1.93	0.51
1:E:9:GLY:O	1:E:14:GLY:HA3	2.11	0.51
1:C:113:CYS:HB3	1:C:114:PRO:HD2	1.93	0.51
1:D:4:ILE:HG23	1:D:61:ALA:HB2	1.92	0.50
1:F:113:CYS:HB3	1:F:114:PRO:CD	2.41	0.50
1:E:94[A]:GLN:HG3	2:E:308:HOH:O	2.11	0.50
1:E:94[B]:GLN:HG3	2:E:308:HOH:O	2.12	0.49
1:D:70:ILE:HD13	1:D:79:LEU:CD1	2.43	0.49
1:F:113:CYS:HB3	1:F:114:PRO:HD2	1.93	0.49
1:D:161:GLU:HG3	1:D:184:GLY:HA2	1.94	0.49
1:F:73:SER:OG	1:F:163:HIS:CD2	2.63	0.48
1:E:113:CYS:HB3	1:E:114:PRO:HD2	1.95	0.48
1:A:113:CYS:HB3	1:A:114:PRO:CD	2.44	0.48
1:E:5:ILE:HG21	1:E:21:VAL:HG11	1.95	0.48
1:B:113:CYS:HB3	1:B:114:PRO:HD2	1.97	0.47
1:E:173:LYS:HB2	1:F:191:MET:HE1	1.96	0.47
1:B:102:ASP:OD2	1:C:19:PRO:HG3	2.15	0.47
1:A:15:LYS:HD3	1:A:45:LEU:HD11	1.97	0.46
1:A:15:LYS:HD2	1:C:121:ASN:ND2	2.30	0.46
1:C:101:LEU:HB2	1:C:119:THR:O	2.15	0.45
1:B:4:ILE:CG2	1:B:64:LYS:HG2	2.47	0.45
1:C:113:CYS:HB3	1:C:114:PRO:CD	2.47	0.45
1:E:16:GLU:O	1:E:19:PRO:HD2	2.17	0.44
1:A:2:THR:HG23	1:A:3:MET:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:GLN:HG3	2:B:309:HOH:O	2.17	0.44
1:A:149:ALA:HB1	1:A:150:PRO:HD2	2.00	0.44
1:C:153:LYS:NZ	2:C:359:HOH:O	2.50	0.43
1:A:101:LEU:HB2	1:A:119:THR:O	2.18	0.43
1:B:135:TYR:CZ	1:B:153:LYS:HB3	2.52	0.43
1:E:68:ILE:O	1:E:129:HIS:CE1	2.72	0.43
1:A:215:ARG:HD2	2:A:400:HOH:O	2.18	0.43
1:D:113:CYS:HB3	1:D:114:PRO:HD2	2.00	0.43
1:A:29:SER:H	1:A:32:GLN:NE2	2.15	0.43
1:E:31:GLU:CD	1:E:31:GLU:H	2.22	0.43
1:E:203:VAL:HG11	1:E:212:ILE:HG12	2.00	0.42
1:A:196:THR:HG22	1:B:191:MET:CE	2.48	0.42
1:A:40:LEU:HD12	1:A:40:LEU:N	2.34	0.42
1:C:101:LEU:HB3	1:C:102:ASP:H	1.64	0.42
1:E:24:GLN:HG2	1:E:25:PHE:CE2	2.54	0.42
1:F:77:GLU:HA	1:F:145:TYR:CE1	2.54	0.42
1:E:102:ASP:O	1:E:120:SER:HA	2.20	0.42
1:F:15:LYS:HD3	1:F:45:LEU:HD11	2.01	0.42
1:D:113:CYS:HB3	1:D:114:PRO:CD	2.50	0.42
1:B:65:ALA:HB1	1:B:91:LEU:HD13	2.00	0.42
1:C:21:VAL:HG21	1:C:67:THR:HG21	2.01	0.42
1:A:181:LEU:C	1:A:181:LEU:HD23	2.40	0.41
1:B:63:HIS:HE1	2:D:379:HOH:O	2.03	0.41
1:A:102:ASP:OD2	1:B:19:PRO:HG3	2.20	0.41
1:E:200:PRO:HG2	1:E:203:VAL:CG2	2.44	0.41
1:E:68:ILE:O	1:E:129:HIS:HE1	2.03	0.41
1:F:80:VAL:O	1:F:84:GLU:HG3	2.21	0.41
1:D:59:LYS:HA	1:D:60:PRO:HD3	1.89	0.41
1:B:102:ASP:O	1:B:120:SER:HA	2.20	0.41
1:B:18:MET:HB3	1:B:19:PRO:HD3	2.03	0.41
1:A:102:ASP:CG	1:B:19:PRO:HG3	2.41	0.41
1:F:126:LYS:HB3	1:F:127:PHE:CD2	2.56	0.41
1:C:149:ALA:HB1	1:C:150:PRO:HD2	2.02	0.40
1:F:21:VAL:HG11	1:F:67:THR:HG21	2.04	0.40
1:A:181:LEU:HD23	1:A:182:ILE:N	2.37	0.40
1:C:18:MET:HB3	1:C:19:PRO:HD3	2.04	0.40
1:A:153:LYS:CE	1:A:171:VAL:HG22	2.51	0.40
1:B:16:GLU:O	1:B:19:PRO:HD2	2.21	0.40
1:F:30:LYS:HE3	1:F:48:TYR:CZ	2.56	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	215/216 (100%)	204 (95%)	10 (5%)	1 (0%)	32	28
1	B	211/216 (98%)	203 (96%)	8 (4%)	0	100	100
1	C	214/216 (99%)	207 (97%)	6 (3%)	1 (0%)	32	28
1	D	212/216 (98%)	207 (98%)	3 (1%)	2 (1%)	20	14
1	E	211/216 (98%)	202 (96%)	8 (4%)	1 (0%)	32	28
1	F	215/216 (100%)	208 (97%)	6 (3%)	1 (0%)	32	28
All	All	1278/1296 (99%)	1231 (96%)	41 (3%)	6 (0%)	32	28

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	61	ALA
1	C	119	THR
1	F	119	THR
1	A	119	THR
1	D	119	THR
1	E	119	THR

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	167/176 (95%)	165 (99%)	2 (1%)	75	81
1	B	165/176 (94%)	163 (99%)	2 (1%)	75	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	168/176 (96%)	166 (99%)	2 (1%)	75	81
1	D	167/176 (95%)	164 (98%)	3 (2%)	64	70
1	E	166/176 (94%)	164 (99%)	2 (1%)	75	81
1	F	168/176 (96%)	166 (99%)	2 (1%)	75	81
All	All	1001/1056 (95%)	988 (99%)	13 (1%)	73	80

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	TYR
1	A	118	LEU
1	B	8	TYR
1	B	54	LEU
1	C	8	TYR
1	C	101	LEU
1	D	8	TYR
1	D	131	ASN
1	D	181	LEU
1	E	8	TYR
1	E	112	LEU
1	F	8	TYR
1	F	28	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (28) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	23	GLN
1	A	32	GLN
1	A	89	GLN
1	A	94	GLN
1	A	121	ASN
1	A	159	HIS
1	B	46	ASN
1	B	121	ASN
1	C	24	GLN
1	C	94	GLN
1	C	121	ASN
1	D	23	GLN
1	D	94	GLN
1	D	121	ASN

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Mol	Chain	Res	Type
1	E	32	GLN
1	E	63	HIS
1	E	89	GLN
1	E	121	ASN
1	E	129	HIS
1	E	155	ASN
1	E	174	GLN
1	F	32	GLN
1	F	46	ASN
1	F	89	GLN
1	F	121	ASN
1	F	159	HIS
1	F	163	HIS
1	F	174	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 carbohydrates 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	216/216 (100%)	-0.42	1 (0%)	90 92	21, 29, 49, 70	0
1	B	213/216 (98%)	-0.22	4 (1%)	67 71	23, 34, 57, 66	0
1	C	216/216 (100%)	-0.36	2 (0%)	84 86	21, 30, 55, 69	0
1	D	214/216 (99%)	-0.43	1 (0%)	90 92	20, 30, 45, 73	0
1	E	212/216 (98%)	-0.01	10 (4%)	32 38	22, 37, 64, 72	0
1	F	216/216 (100%)	-0.30	7 (3%)	48 55	22, 30, 52, 72	0
All	All	1287/1296 (99%)	-0.29	25 (1%)	67 71	20, 32, 55, 73	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	1	MET	4.0
1	E	54	LEU	3.6
1	E	39	GLY	3.3
1	B	60	PRO	3.3
1	E	82	LEU	3.3
1	A	1	MET	3.1
1	F	54	LEU	3.1
1	E	2	THR	2.9
1	C	1	MET	2.8
1	D	1	MET	2.8
1	E	40	LEU	2.8
1	C	54	LEU	2.7
1	E	38	ASP	2.7
1	F	58	SER	2.7
1	B	54	LEU	2.7
1	E	41	SER	2.6
1	F	60	PRO	2.5
1	E	37	ASP	2.5
1	F	42	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	E	58	SER	2.3
1	E	43	THR	2.2
1	F	39	GLY	2.2
1	F	11	SER	2.1
1	B	39	GLY	2.1
1	B	38	ASP	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 carbohydrates 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.