



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 12, 2017 – 08:58 pm GMT

PDB ID : 2E1B
Title : Crystal structure of the AlaX-M trans-editing enzyme from *Pyrococcus horikoshii*
Authors : Fukunaga, R.; Yokoyama, S.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2006-10-20
Resolution : 2.70 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	:	trunk28620
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)	:	recalc28949

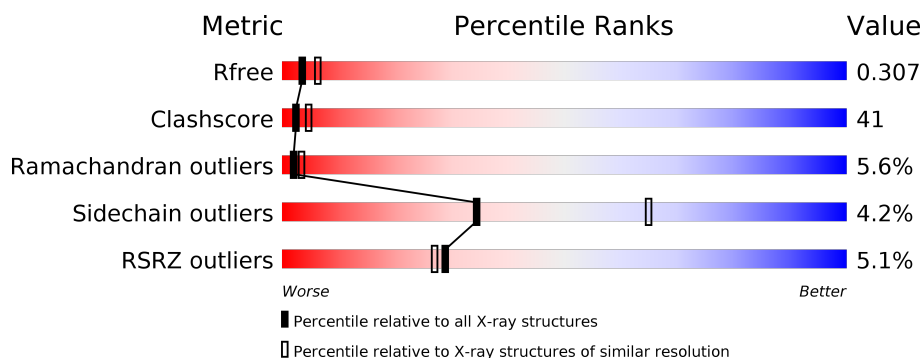
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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	2259 (2.70-2.70)
Clashscore	112137	2590 (2.70-2.70)
Ramachandran outliers	110173	2550 (2.70-2.70)
Sidechain outliers	110143	2550 (2.70-2.70)
RSRZ outliers	101464	2275 (2.70-2.70)

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	<div> <div>5%</div> <div>44%</div> <div>50%</div> <div>..</div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1787 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 216aa long hypothetical alanyl-tRNA synthetase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	216	Total	C	N	O	S	0	0	0
			1786	1140	310	330	6			

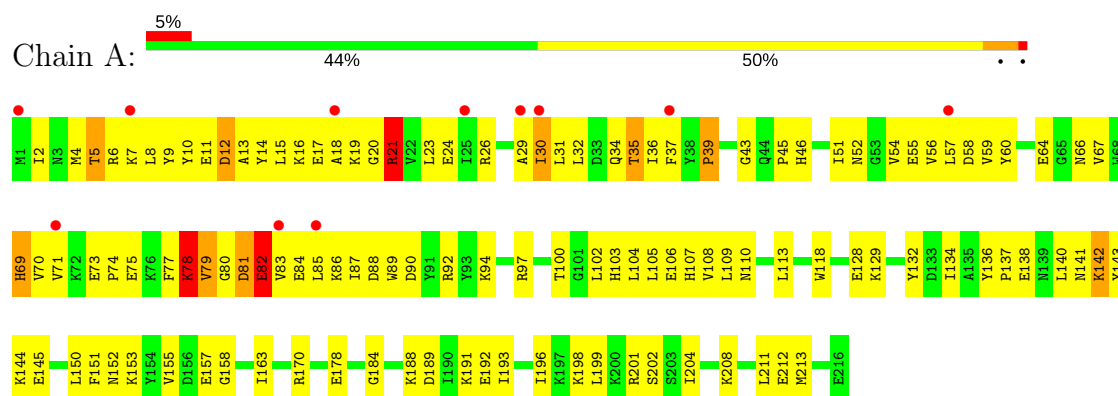
- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		

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: 216aa long hypothetical alanyl-tRNA synthetase



4 Data and refinement statistics

Property	Value	Source
Space group	P 62	Depositor
Cell constants a, b, c, α , β , γ	80.22Å 80.22Å 72.27Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.11 – 2.70 40.11 – 2.70	Depositor EDS
% Data completeness (in resolution range)	97.6 (40.11-2.70) 97.7 (40.11-2.70)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.95 (at 2.69Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.227 , 0.313 0.221 , 0.307	Depositor DCC
R_{free} test set	781 reflections (10.90%)	DCC
Wilson B-factor (Å ²)	83.3	Xtriage
Anisotropy	0.131	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 51.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.083 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	1787	wwPDB-VP
Average B, all atoms (Å ²)	82.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.75% 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: ZN

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	0.32	0/1825	0.59	0/2455

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 [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	1786	0	1774	146	0
2	A	1	0	0	0	0
All	All	1787	0	1774	146	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 41.

All (146) 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:78:LYS:CD	1:A:78:LYS:H	1.91	0.84
1:A:8:LEU:HD23	1:A:35:THR:H	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:ILE:HD11	1:A:140:LEU:HD11	1.66	0.78
1:A:57:LEU:HD12	1:A:58:ASP:HB2	1.64	0.77
1:A:78:LYS:HD2	1:A:78:LYS:H	1.49	0.76
1:A:78:LYS:HG2	1:A:79:VAL:H	1.51	0.75
1:A:78:LYS:CE	1:A:78:LYS:H	2.00	0.74
1:A:5:THR:CG2	1:A:66:ASN:HA	2.19	0.73
1:A:20:GLY:HA3	1:A:34:GLN:HB2	1.72	0.72
1:A:21:ARG:NE	1:A:21:ARG:H	1.88	0.71
1:A:163:ILE:HG21	1:A:170:ARG:NH1	2.06	0.70
1:A:141:ASN:HA	1:A:144:LYS:HG2	1.74	0.69
1:A:78:LYS:N	1:A:78:LYS:HD2	2.07	0.69
1:A:78:LYS:HG2	1:A:80:GLY:H	1.57	0.69
1:A:170:ARG:NH2	1:A:184:GLY:O	2.27	0.68
1:A:35:THR:HG21	1:A:67:VAL:HG11	1.75	0.67
1:A:16:LYS:HE3	1:A:89:TRP:CE2	2.31	0.66
1:A:110:ASN:HD22	1:A:118:TRP:HE1	1.42	0.66
1:A:201:ARG:HD3	1:A:202:SER:N	2.10	0.66
1:A:5:THR:HG21	1:A:67:VAL:H	1.60	0.65
1:A:136:TYR:HE2	1:A:138:GLU:HB2	1.62	0.64
1:A:15:LEU:HD12	1:A:15:LEU:O	1.97	0.64
1:A:9:TYR:O	1:A:12:ASP:HB2	1.98	0.64
1:A:39:PRO:HA	1:A:59:VAL:HG12	1.80	0.63
1:A:158:GLY:HA3	1:A:191:LYS:HE2	1.78	0.63
1:A:5:THR:HG21	1:A:66:ASN:HA	1.79	0.63
1:A:144:LYS:HE3	1:A:199:LEU:O	1.99	0.62
1:A:136:TYR:CE2	1:A:138:GLU:HB2	2.35	0.62
1:A:97:ARG:HG2	1:A:192:GLU:O	1.98	0.62
1:A:152:ASN:HD21	1:A:196:ILE:H	1.47	0.62
1:A:113:LEU:HD22	1:A:136:TYR:CZ	2.36	0.60
1:A:78:LYS:HG2	1:A:79:VAL:N	2.16	0.60
1:A:105:LEU:HD22	1:A:213:MET:HE1	1.81	0.60
1:A:134:ILE:CD1	1:A:140:LEU:HD11	2.31	0.60
1:A:151:PHE:O	1:A:155:VAL:HG23	2.02	0.59
1:A:18:ALA:HB3	1:A:85:LEU:HD12	1.85	0.59
1:A:77:PHE:HA	1:A:78:LYS:NZ	2.17	0.59
1:A:163:ILE:HG21	1:A:170:ARG:HH12	1.67	0.58
1:A:81:ASP:O	1:A:82:GLU:HB3	2.02	0.58
1:A:104:LEU:HD23	1:A:151:PHE:CE1	2.39	0.57
1:A:201:ARG:C	1:A:201:ARG:HD3	2.24	0.57
1:A:37:PHE:CE1	1:A:87:ILE:HG22	2.40	0.57
1:A:84:GLU:OE1	1:A:86:LYS:HE3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:ILE:HG22	1:A:2:ILE:O	2.05	0.57
1:A:78:LYS:HD3	1:A:81:ASP:OD1	2.05	0.57
1:A:30:ILE:O	1:A:32:LEU:HD13	2.05	0.56
1:A:110:ASN:ND2	1:A:118:TRP:HE1	2.03	0.56
1:A:20:GLY:HA2	1:A:21:ARG:NH1	2.21	0.56
1:A:7:LYS:HD3	1:A:9:TYR:OH	2.05	0.55
1:A:31:LEU:HD23	1:A:32:LEU:N	2.21	0.55
1:A:128:GLU:HG3	1:A:129:LYS:N	2.22	0.55
1:A:31:LEU:O	1:A:32:LEU:HD12	2.07	0.55
1:A:8:LEU:HB2	1:A:35:THR:O	2.06	0.55
1:A:5:THR:HG22	1:A:66:ASN:HA	1.89	0.55
1:A:15:LEU:HD11	1:A:36:ILE:HB	1.89	0.55
1:A:14:TYR:O	1:A:16:LYS:HD2	2.07	0.54
1:A:141:ASN:HA	1:A:144:LYS:CG	2.37	0.54
1:A:30:ILE:HG22	1:A:32:LEU:CD1	2.38	0.54
1:A:20:GLY:HA3	1:A:34:GLN:CB	2.37	0.54
1:A:14:TYR:OH	1:A:188:LYS:HG2	2.07	0.54
1:A:108:VAL:HG13	1:A:150:LEU:HD23	1.91	0.53
1:A:105:LEU:HD22	1:A:213:MET:CE	2.38	0.53
1:A:141:ASN:C	1:A:143:TYR:H	2.12	0.53
1:A:78:LYS:CG	1:A:79:VAL:H	2.16	0.52
1:A:16:LYS:HE3	1:A:89:TRP:CD2	2.43	0.52
1:A:153:LYS:O	1:A:157:GLU:HG3	2.08	0.52
1:A:54:VAL:HG21	1:A:77:PHE:CZ	2.44	0.51
1:A:39:PRO:O	1:A:46:HIS:HB3	2.10	0.51
1:A:52:ASN:O	1:A:54:VAL:HG23	2.10	0.51
1:A:136:TYR:CD1	1:A:137:PRO:HD2	2.45	0.51
1:A:142:LYS:O	1:A:142:LYS:HG2	2.10	0.51
1:A:67:VAL:HG22	1:A:69:HIS:CE1	2.45	0.51
1:A:54:VAL:HG12	1:A:55:GLU:N	2.27	0.50
1:A:87:ILE:O	1:A:89:TRP:N	2.44	0.50
1:A:23:LEU:HD12	1:A:32:LEU:O	2.11	0.50
1:A:107:HIS:HB2	1:A:178:GLU:OE2	2.12	0.50
1:A:189:ASP:O	1:A:192:GLU:HB2	2.11	0.49
1:A:204:ILE:HG13	1:A:208:LYS:HB2	1.94	0.49
1:A:128:GLU:HG3	1:A:129:LYS:H	1.78	0.49
1:A:6:ARG:HD3	1:A:34:GLN:HE22	1.77	0.49
1:A:79:VAL:HG22	1:A:79:VAL:O	2.13	0.49
1:A:77:PHE:HA	1:A:78:LYS:HZ2	1.78	0.49
1:A:100:THR:HG22	1:A:193:ILE:HD11	1.95	0.48
1:A:18:ALA:O	1:A:85:LEU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:LYS:HG3	1:A:89:TRP:CE3	2.49	0.48
1:A:51:ILE:HG23	1:A:51:ILE:O	2.13	0.47
1:A:104:LEU:HD23	1:A:151:PHE:CD1	2.49	0.47
1:A:9:TYR:CD2	1:A:10:TYR:N	2.82	0.47
1:A:151:PHE:CD2	1:A:196:ILE:HG12	2.49	0.47
1:A:199:LEU:HD12	1:A:212:GLU:O	2.14	0.47
1:A:19:LYS:HD3	1:A:82:GLU:OE1	2.13	0.47
1:A:46:HIS:HB2	1:A:59:VAL:HB	1.97	0.47
1:A:54:VAL:HG13	1:A:73:GLU:HB2	1.96	0.47
1:A:46:HIS:O	1:A:46:HIS:ND1	2.48	0.47
1:A:2:ILE:C	1:A:4:MET:H	2.18	0.47
1:A:64:GLU:HB2	1:A:66:ASN:ND2	2.30	0.47
1:A:34:GLN:O	1:A:35:THR:HB	2.15	0.47
1:A:57:LEU:HD11	1:A:70:VAL:HG11	1.97	0.47
1:A:51:ILE:O	1:A:52:ASN:HB2	2.13	0.46
1:A:81:ASP:CG	1:A:82:GLU:H	2.18	0.46
1:A:69:HIS:O	1:A:71:VAL:HG13	2.15	0.46
1:A:89:TRP:O	1:A:92:ARG:HB3	2.15	0.46
1:A:21:ARG:NE	1:A:21:ARG:N	2.61	0.46
1:A:30:ILE:HD11	1:A:71:VAL:HG22	1.97	0.46
1:A:196:ILE:HG22	1:A:198:LYS:N	2.31	0.45
1:A:151:PHE:HD2	1:A:196:ILE:HG12	1.82	0.45
1:A:103:HIS:O	1:A:106:GLU:HB3	2.17	0.45
1:A:37:PHE:CD1	1:A:87:ILE:HG22	2.52	0.45
1:A:19:LYS:HG3	1:A:83:VAL:O	2.17	0.45
1:A:105:LEU:O	1:A:109:LEU:HG	2.17	0.45
1:A:5:THR:HG21	1:A:67:VAL:N	2.31	0.45
1:A:69:HIS:ND1	1:A:69:HIS:N	2.64	0.44
1:A:21:ARG:HE	1:A:21:ARG:N	2.15	0.44
1:A:36:ILE:O	1:A:92:ARG:NH2	2.50	0.44
1:A:4:MET:HE2	1:A:7:LYS:HE2	1.99	0.44
1:A:4:MET:CE	1:A:7:LYS:HE2	2.47	0.44
1:A:35:THR:HA	1:A:85:LEU:HD13	1.99	0.44
1:A:30:ILE:HG22	1:A:30:ILE:O	2.18	0.43
1:A:9:TYR:C	1:A:12:ASP:H	2.21	0.43
1:A:189:ASP:OD1	1:A:191:LYS:HE3	2.18	0.43
1:A:78:LYS:HE3	1:A:78:LYS:H	1.81	0.43
1:A:12:ASP:C	1:A:14:TYR:N	2.70	0.43
1:A:43:GLY:O	1:A:45:PRO:HD3	2.18	0.43
1:A:107:HIS:O	1:A:110:ASN:HB2	2.18	0.43
1:A:39:PRO:O	1:A:46:HIS:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:ASP:HB3	1:A:70:VAL:HB	2.01	0.43
1:A:90:ASP:HB3	1:A:94:LYS:HE2	2.01	0.43
1:A:51:ILE:HG22	1:A:56:VAL:HG22	2.01	0.42
1:A:80:GLY:O	1:A:81:ASP:HB3	2.19	0.42
1:A:11:GLU:O	1:A:13:ALA:N	2.53	0.42
1:A:18:ALA:CB	1:A:85:LEU:HD12	2.49	0.42
1:A:15:LEU:HD12	1:A:15:LEU:C	2.40	0.42
1:A:9:TYR:CE1	1:A:39:PRO:HD3	2.55	0.42
1:A:81:ASP:N	1:A:81:ASP:OD1	2.53	0.42
1:A:11:GLU:O	1:A:12:ASP:C	2.58	0.42
1:A:74:PRO:HG2	1:A:75:GLU:CD	2.40	0.41
1:A:30:ILE:HD11	1:A:71:VAL:CG2	2.50	0.41
1:A:26:ARG:CB	1:A:29:ALA:HB3	2.51	0.41
1:A:140:LEU:HD13	1:A:211:LEU:HD21	2.03	0.41
1:A:57:LEU:HD12	1:A:58:ASP:CB	2.44	0.41
1:A:21:ARG:H	1:A:21:ARG:HE	1.65	0.41
1:A:102:LEU:HD23	1:A:213:MET:HE3	2.02	0.41
1:A:26:ARG:HB3	1:A:29:ALA:HB3	2.03	0.41
1:A:17:GLU:HA	1:A:85:LEU:O	2.21	0.40
1:A:8:LEU:HD22	1:A:8:LEU:N	2.35	0.40
1:A:204:ILE:HG12	1:A:208:LYS:O	2.21	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	214/216 (99%)	166 (78%)	36 (17%)	12 (6%)	2 3

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	12	ASP
1	A	39	PRO
1	A	78	LYS
1	A	79	VAL
1	A	81	ASP
1	A	88	ASP
1	A	21	ARG
1	A	24	GLU
1	A	82	GLU
1	A	142	LYS
1	A	35	THR
1	A	30	ILE

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	190/190 (100%)	182 (96%)	8 (4%)	34 65

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	THR
1	A	21	ARG
1	A	60	TYR
1	A	69	HIS
1	A	78	LYS
1	A	82	GLU
1	A	132	TYR
1	A	145	GLU

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

Mol	Chain	Res	Type
1	A	34	GLN
1	A	52	ASN

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Mol	Chain	Res	Type
1	A	110	ASN
1	A	152	ASN

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](#)

Of 1 ligands modelled in this entry, 1 is 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	216/216 (100%)	0.10	11 (5%)	29 27	34, 80, 125, 140	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	37	PHE	3.3
1	A	57	LEU	3.3
1	A	85	LEU	2.8
1	A	83	VAL	2.6
1	A	1	MET	2.6
1	A	18	ALA	2.5
1	A	29	ALA	2.5
1	A	71	VAL	2.3
1	A	30	ILE	2.3
1	A	7	LYS	2.2
1	A	25	ILE	2.1

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](#)

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains.

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	LLDF	B-factors(\AA^2)	Q<0.9
2	ZN	A	300	1/1	0.93	0.16	-	131,131,131,131	0

6.5 Other polymers [i](#)

There are no such residues in this entry.