Full wwPDB X-ray Structure Validation Report (i)

Feb 1, 2016 – 09:31 AM GMT

PDB ID	:	3IR9
Title	:	C-terminal domain of Peptide Chain Release Factor from Methanosarcina mazei.
Authors	:	Osipiuk, J.; Rakowski, E.; Freeman, L.; Joachimiak, A.; Midwest Center for Structural Genomics (MCSG)
Deposited on	:	2009-08-21
Resolution	:	2.21 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

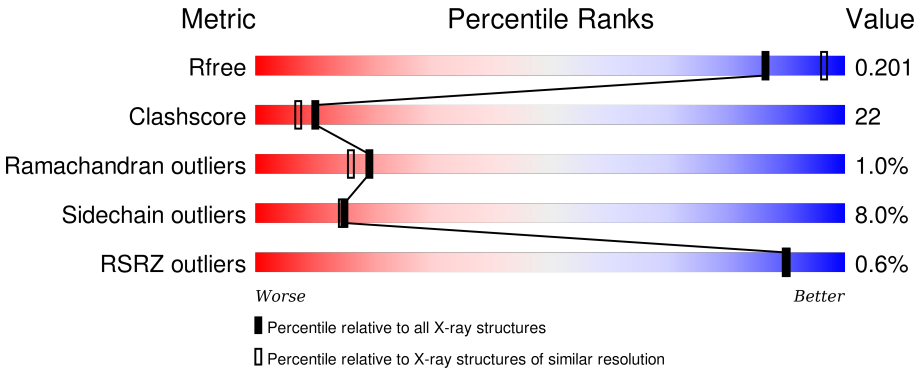
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

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 2.21 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}	91344	3774 (2.20-2.20)
Clashscore	102246	4477 (2.20-2.20)
Ramachandran outliers	100387	4404 (2.20-2.20)
Sidechain outliers	100360	4405 (2.20-2.20)
RSRZ outliers	91569	3781 (2.20-2.20)

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 <=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	166	% 61% 33%
1	B	166	52% 36% 5% 5%

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	ZN	A	501	-	-	-	X
2	ZN	B	501	-	-	-	X

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2476 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 Peptide chain release factor subunit 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	162	Total	C	N	O	S	Se	0	1	0
			1246	778	209	253	4	2			
1	B	157	Total	C	N	O	S	Se	0	0	0
			1192	742	203	241	4	2			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	250	SER	-	expression tag	UNP Q8PX75
A	251	ASN	-	expression tag	UNP Q8PX75
B	250	SER	-	expression tag	UNP Q8PX75
B	251	ASN	-	expression tag	UNP Q8PX75

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

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

- Molecule 3 is water.

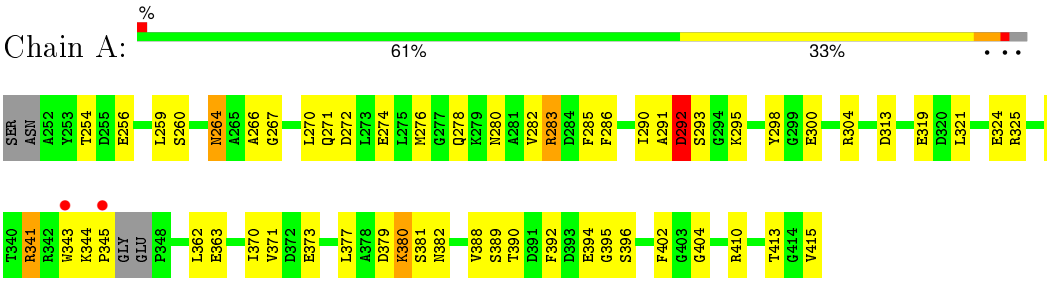
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	17	Total	O	0	0
			17	17		
3	B	19	Total	O	0	0
			19	19		

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 errors 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.

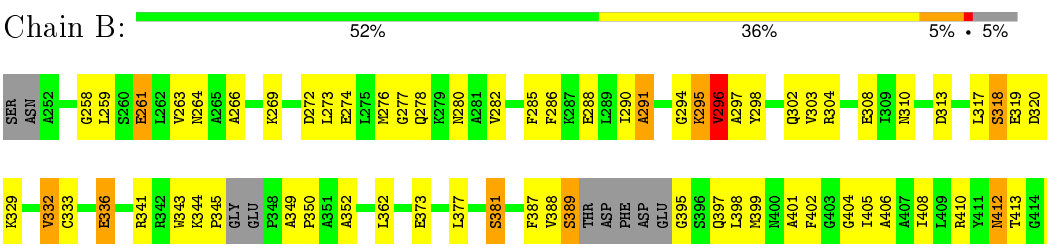
- Molecule 1: Peptide chain release factor subunit 1

Chain A:



- Molecule 1: Peptide chain release factor subunit 1

Chain B:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α, β, γ	116.12Å 116.12Å 71.45Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	41.10 – 2.21 41.12 – 2.21	Depositor EDS
% Data completeness (in resolution range)	99.3 (41.10-2.21) 99.5 (41.12-2.21)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.60 (at 2.20Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.156 , 0.203 0.158 , 0.201	Depositor DCC
R_{free} test set	915 reflections (5.37%)	DCC
Wilson B-factor (Å^2)	52.3	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 65.7	EDS
Estimated twinning fraction	0.500 for h,-h-k,-l 0.007 for -1/3*h+1/3*k+4/3*l,-k,2/3*h+1/3*k+1/3*l 0.023 for -2/3*h-1/3*k-4/3*l,-1/3*h-2/3*k+4/3*l,-1/3*h+1/3*k+1/3*l 0.007 for -h,1/3*h-1/3*k-4/3*l,-1/3*h-2/3*k+1/3*l 0.024 for -1/3*h-2/3*k+4/3*l,-2/3*h-1/3*k-4/3*l,1/3*h-1/3*k-1/3*l 0.004 for -h,2/3*h+1/3*k+4/3*l,1/3*h+2/3*k-1/3*l 0.005 for 1/3*h+2/3*k-4/3*l,-k,-2/3*h-1/3*k-1/3*l 0.487 for h,-h-k,-l	Xtriage
Reported twinning fraction	0.500 for h,-h-k,-l	Depositor
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Outliers	0 of 17975 reflections	Xtriage
F_o,F_c correlation	0.98	EDS
Total number of atoms	2476	wwPDB-VP
Average B, all atoms (Å^2)	75.0	wwPDB-VP

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.84% of the height of the origin peak. No significant pseudotranslation is detected.*

5 Model quality

5.1 Standard geometry

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	0.30	0/1265	0.48	0/1705
1	B	2.29	2/1204 (0.2%)	0.79	5/1619 (0.3%)
All	All	1.62	2/2469 (0.1%)	0.65	5/3324 (0.2%)

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	B	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	291	ALA	N-CA	60.37	2.67	1.46
1	B	296	VAL	CA-C	50.82	2.85	1.52

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	296	VAL	CA-C-N	-16.05	81.88	117.20
1	B	296	VAL	N-CA-C	-11.87	78.94	111.00
1	B	291	ALA	N-CA-CB	-11.16	94.47	110.10
1	B	296	VAL	CB-CA-C	-7.02	98.06	111.40
1	B	290	ILE	C-N-CA	-6.72	104.89	121.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	296	VAL	Mainchain

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	1246	0	1212	46	0
1	B	1192	0	1171	63	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	17	0	0	0	0
3	B	19	0	0	0	0
All	All	2476	0	2383	105	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 22.

All (105) 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:344:LYS:HB3	1:B:345:PRO:HD2	1.44	0.98
1:A:260:SER:O	1:A:264:ASN:HB2	1.80	0.82
1:B:322:ARG:HB3	1:B:343:TRP:HB3	1.67	0.76
1:A:270:LEU:CD1	1:B:263:VAL:HG21	2.19	0.72
1:A:392:PHE:CE2	1:A:394:GLU:HB2	2.28	0.69
1:B:302:GLN:HG3	1:B:415:VAL:O	1.93	0.69
1:A:254:THR:HG23	1:B:274:GLU:OE2	1.94	0.67
1:A:344:LYS:HE3	1:A:345:PRO:HD2	1.76	0.67
1:A:267:GLY:HA2	1:A:270:LEU:HD12	1.78	0.66
1:B:388:VAL:CG1	1:B:395:GLY:HA2	2.27	0.65
1:A:392:PHE:CD2	1:A:394:GLU:HB2	2.34	0.63
1:A:300:GLU:HG2	1:A:304:ARG:HH22	1.64	0.63
1:A:270:LEU:HD13	1:B:263:VAL:HG21	1.80	0.62
1:A:344:LYS:HB3	1:A:345:PRO:HD2	1.81	0.61
1:A:313:ASP:HB2	1:A:410:ARG:HG3	1.82	0.61
1:A:290:ILE:C	1:A:292:ASP:H	2.01	0.61
1:A:388:VAL:HG11	1:A:395:GLY:HA2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LEU:HD11	1:B:263:VAL:HG21	1.82	0.59
1:B:412:ASN:HD22	1:B:413:THR:N	2.00	0.59
1:B:288:GLU:HG3	1:B:408:ILE:HG23	1.84	0.58
1:B:398:LEU:HG	1:B:404:GLY:HA2	1.85	0.57
1:B:291:ALA:CA	1:B:291:ALA:N	2.67	0.57
1:A:271:GLN:O	1:A:274:GLU:HB2	2.05	0.57
1:B:320:ASP:HA	1:B:322:ARG:NH2	2.21	0.56
1:B:269:LYS:O	1:B:272:ASP:HB2	2.06	0.56
1:A:286:PHE:O	1:A:290:ILE:HG13	2.06	0.55
1:A:339:TRP:CZ3	1:A:341:ARG:HB3	2.41	0.55
1:B:344:LYS:HB3	1:B:345:PRO:CD	2.30	0.55
1:B:277:GLY:O	1:B:280:ASN:HB2	2.07	0.55
1:A:332:VAL:HG23	1:A:333:CYS:N	2.23	0.54
1:B:258:GLY:HA2	1:B:261:GLU:HG2	1.90	0.53
1:A:413:THR:C	1:A:415:VAL:H	2.10	0.53
1:B:397:GLN:O	1:B:401:ALA:HB3	2.07	0.53
1:A:325:ARG:NH1	1:A:339:TRP:HA	2.24	0.52
1:B:329:LYS:HG2	1:B:336:GLU:HB3	1.91	0.52
1:B:344:LYS:HE3	1:B:345:PRO:HD2	1.92	0.51
1:B:285:PHE:CE1	1:B:296:VAL:HB	2.46	0.51
1:B:298:TYR:HA	1:B:406:ALA:HA	1.93	0.51
1:B:401:ALA:HB3	1:B:402:PHE:CE1	2.46	0.51
1:A:321:LEU:HD21	1:A:404:GLY:O	2.11	0.50
1:B:318:SER:HA	1:B:388:VAL:O	2.12	0.50
1:B:294:GLY:O	1:B:412:ASN:HA	2.11	0.50
1:A:394:GLU:CD	1:A:394:GLU:H	2.14	0.49
1:B:388:VAL:HG12	1:B:395:GLY:HA2	1.93	0.49
1:B:318:SER:HB2	1:B:404:GLY:HA2	1.94	0.49
1:B:263:VAL:HG23	1:B:264:ASN:N	2.27	0.49
1:A:266:ALA:O	1:A:270:LEU:HG	2.12	0.48
1:B:344:LYS:O	1:B:345:PRO:C	2.51	0.48
1:A:270:LEU:O	1:A:274:GLU:HG2	2.13	0.48
1:B:319:GLU:OE2	1:B:389:SER:HB3	2.14	0.48
1:B:399:MSE:HE3	1:B:399:MSE:O	2.14	0.48
1:A:388:VAL:CG1	1:A:395:GLY:HA2	2.44	0.48
1:A:285:PHE:HE2	1:A:402:PHE:CE1	2.31	0.48
1:B:266:ALA:HA	1:B:269:LYS:HG3	1.96	0.48
1:A:282:VAL:HG12	1:A:286:PHE:CE2	2.49	0.47
1:A:319:GLU:HB2	1:A:389:SER:HA	1.96	0.47
1:B:295:LYS:O	1:B:295:LYS:HE3	2.14	0.47
1:A:286:PHE:HE1	1:A:402:PHE:HE1	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:VAL:CG2	1:A:333:CYS:N	2.76	0.47
1:B:274:GLU:O	1:B:278:GLN:HG3	2.14	0.46
1:A:380:LYS:HG2	1:A:381:SER:N	2.29	0.46
1:B:282:VAL:HG21	1:B:388:VAL:HG11	1.96	0.46
1:B:318:SER:OG	1:B:399:MSE:HB2	2.15	0.46
1:A:290:ILE:C	1:A:292:ASP:N	2.69	0.46
1:B:317:LEU:O	1:B:387:PHE:HA	2.16	0.46
1:B:412:ASN:HD22	1:B:413:THR:H	1.64	0.46
1:B:320:ASP:HA	1:B:322:ARG:HH22	1.81	0.45
1:A:390:THR:O	1:A:390:THR:HG23	2.16	0.45
1:B:296:VAL:CA	1:B:296:VAL:C	2.85	0.45
1:B:352:ALA:HB1	1:B:362:LEU:HB3	1.98	0.45
1:A:300:GLU:HG2	1:A:304:ARG:NH2	2.31	0.45
1:B:373:GLU:HG2	1:B:377:LEU:HD12	1.99	0.45
1:B:273:LEU:HD23	1:B:276:MSE:SE	2.68	0.44
1:A:373:GLU:O	1:A:377:LEU:HG	2.18	0.44
1:B:261:GLU:CD	1:B:261:GLU:H	2.21	0.44
1:A:362:LEU:C	1:A:363:GLU:HG3	2.38	0.44
1:B:310:ASN:CB	1:B:381:SER:HB3	2.48	0.43
1:B:310:ASN:CG	1:B:381:SER:HB3	2.39	0.43
1:A:278:GLN:O	1:A:282:VAL:HG23	2.18	0.43
1:B:352:ALA:HB1	1:B:362:LEU:CB	2.48	0.43
1:A:280:ASN:HA	1:A:283:ARG:HD3	2.00	0.43
1:B:296:VAL:HG23	1:B:297:ALA:N	2.34	0.43
1:B:313:ASP:HB2	1:B:410:ARG:HG3	1.99	0.43
1:B:303:VAL:HG21	1:B:405:ILE:HG22	1.99	0.43
1:B:286:PHE:HE1	1:B:402:PHE:CE1	2.36	0.43
1:A:319:GLU:CB	1:A:389:SER:HA	2.49	0.42
1:A:298:TYR:HB2	1:A:402:PHE:HB3	2.00	0.42
1:B:296:VAL:HA	1:B:408:ILE:HA	2.00	0.42
1:A:324:GLU:OE1	1:A:343[B]:TRP:HD1	2.02	0.42
1:B:286:PHE:CE1	1:B:402:PHE:CE1	3.07	0.42
1:B:349:ALA:HA	1:B:350:PRO:HD3	1.85	0.42
1:B:304:ARG:O	1:B:308:GLU:HG3	2.20	0.42
1:B:318:SER:HB2	1:B:404:GLY:CA	2.49	0.41
1:B:332:VAL:HG12	1:B:333:CYS:N	2.34	0.41
1:A:272:ASP:O	1:A:276:MSE:HG3	2.21	0.41
1:B:341:ARG:CZ	1:B:350:PRO:HG3	2.51	0.41
1:B:344:LYS:HE3	1:B:345:PRO:CD	2.49	0.41
1:B:321:LEU:HD11	1:B:404:GLY:O	2.20	0.41
1:A:344:LYS:O	1:A:345:PRO:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:370:ILE:HD13	1:A:370:ILE:HA	1.89	0.41
1:A:325:ARG:HD2	1:A:339:TRP:O	2.21	0.41
1:A:293:SER:HB2	1:A:295:LYS:HG3	2.03	0.41
1:B:352:ALA:HB3	1:B:362:LEU:O	2.20	0.41
1:B:341:ARG:NH1	1:B:350:PRO:HG3	2.37	0.40
1:B:282:VAL:HG12	1:B:286:PHE:CE2	2.57	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	159/166 (96%)	139 (87%)	18 (11%)	2 (1%)	15	11
1	B	151/166 (91%)	140 (93%)	10 (7%)	1 (1%)	26	25
All	All	310/332 (93%)	279 (90%)	28 (9%)	3 (1%)	19	16

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	291	ALA
1	A	292	ASP
1	B	332	VAL

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	135/135 (100%)	123 (91%)	12 (9%)	12 11
1	B	129/135 (96%)	120 (93%)	9 (7%)	19 19
All	All	264/270 (98%)	243 (92%)	21 (8%)	15 15

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	256	GLU
1	A	259	LEU
1	A	264	ASN
1	A	283	ARG
1	A	292	ASP
1	A	333	CYS
1	A	341	ARG
1	A	371	VAL
1	A	379	ASP
1	A	380	LYS
1	A	382	ASN
1	A	396	SER
1	B	259	LEU
1	B	261	GLU
1	B	295	LYS
1	B	318	SER
1	B	328	THR
1	B	336	GLU
1	B	381	SER
1	B	389	SER
1	B	412	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	264	ASN
1	A	271	GLN
1	A	280	ASN
1	B	271	GLN
1	B	382	ASN
1	B	412	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

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

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95^{th} 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	160/166 (96%)	-0.59	2 (1%) 79 78	42, 72, 112, 144	0
1	B	155/166 (93%)	-0.62	0 100 100	40, 74, 102, 135	0
All	All	315/332 (94%)	-0.61	2 (0%) 90 90	40, 73, 107, 144	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	343[A]	TRP	3.1
1	A	345	PRO	2.2

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

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, 95^{th} 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(Å^2)	Q<0.9
2	ZN	A	501	1/1	0.99	0.16	10.88	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
2	ZN	B	501	1/1	1.00	0.17	3.89	60,60,60,60	0

6.5 Other polymers

There are no such residues in this entry.