Full wwPDB X-ray Structure Validation Report ⓘ

Aug 29, 2023 – 08:43 AM EDT

PDB ID	:	3PV4
Title	:	Structure of Legionella fallonii DegQ (Delta-PDZ2 variant)
Authors	:	Wrase, R.; Scott, H.; Hilgenfeld, R.; Hansen, G.
Deposited on	:	2010-12-06
Resolution	:	3.10 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
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ 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 ⓘ) were used in the production of this report:

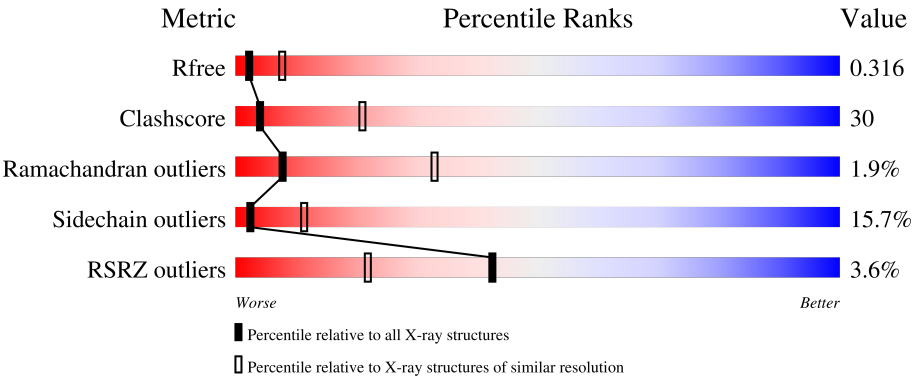
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 3.10 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}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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 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 <=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	354	3%, 42%, 31%, 6%, 21%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 2085 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 DegQ.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	281	2084	1325	357	396	6	0	1	0

- Molecule 2 is CADMIUM ION (three-letter code: CD) (formula: Cd).

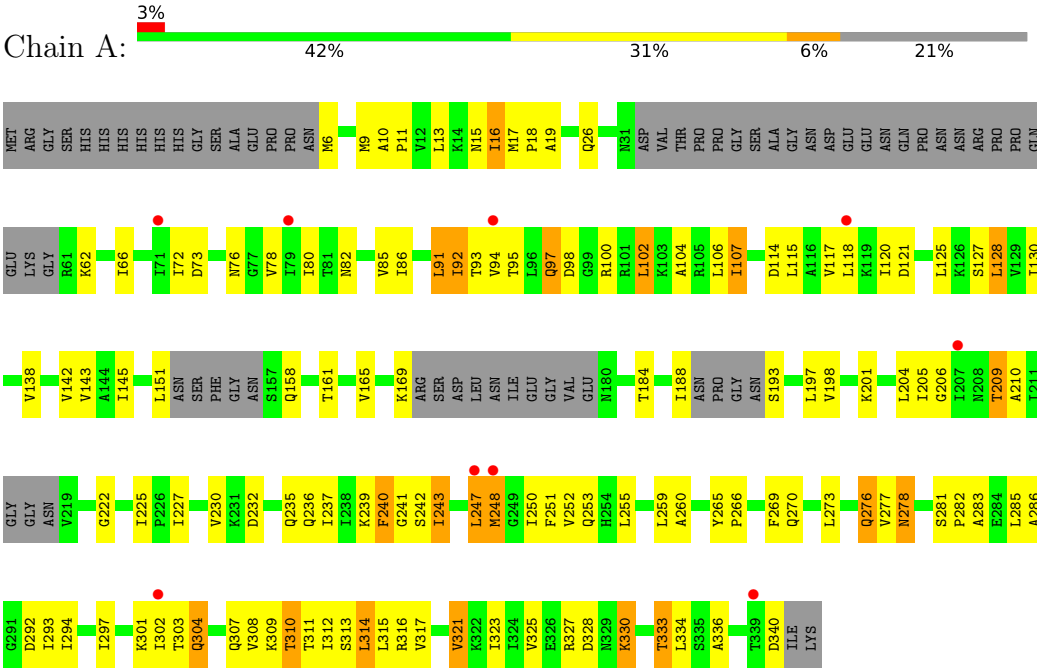
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Cd		
2	A	1	1	1	0	0

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: DegQ

Chain A:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α, β, γ	110.89Å 110.89Å 67.93Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	55.46 – 3.10 55.46 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.7 (55.46-3.10) 99.7 (55.46-3.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$< I/\sigma(I) >$ [1]	1.96 (at 3.13Å)	Xtriage
Refinement program	REFMAC 5.5.0110	Depositor
R, R_{free}	0.242 , 0.330 0.237 , 0.316	Depositor DCC
R_{free} test set	258 reflections (4.59%)	wwPDB-VP
Wilson B-factor (Å^2)	96.5	Xtriage
Anisotropy	0.285	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 84.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	0.017 for -1/3*h+1/3*k+4/3*l,-k,2/3*h+1/3*k+1/3*l 0.036 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 0.025 for -h,1/3*h-1/3*k-4/3*l,-1/3*h-2/3*k+1/3*l 0.032 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 0.021 for -h,2/3*h+1/3*k+4/3*l,1/3*h+2/3*k-1/3*l 0.015 for 1/3*h+2/3*k-4/3*l,-k,-2/3*h-1/3*k-1/3*l 0.047 for h,-h-k,-l	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	2085	wwPDB-VP
Average B, all atoms (Å^2)	95.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.08% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CD

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	0/2107	0.70	0/2852

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	A	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	241	GLY	Peptide

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	2084	0	2186	128	0
2	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	2085	0	2186	128	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 30.

All (128) 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:197:LEU:HD22	1:A:205:ILE:CD1	1.72	1.20
1:A:197:LEU:CD2	1:A:205:ILE:HD11	1.76	1.15
1:A:72:ILE:HD13	1:A:80:ILE:HD11	1.36	1.01
1:A:197:LEU:HD23	1:A:198:VAL:N	1.76	0.99
1:A:283:ALA:HB1	1:A:288:LEU:HD23	1.60	0.84
1:A:72:ILE:CD1	1:A:80:ILE:HD11	2.12	0.78
1:A:72:ILE:HD13	1:A:80:ILE:CD1	2.13	0.77
1:A:130:ILE:HD12	1:A:204:LEU:HD23	1.66	0.75
1:A:16:ILE:CG2	1:A:128:LEU:HD12	2.18	0.74
1:A:142:VAL:HB	1:A:197:LEU:HD21	1.68	0.74
1:A:197:LEU:HD22	1:A:205:ILE:HD11	0.84	0.71
1:A:16:ILE:HG22	1:A:128:LEU:HD12	1.71	0.71
1:A:82:ASN:HB2	1:A:85:VAL:HG23	1.73	0.70
1:A:247:LEU:HB3	1:A:312:ILE:CD1	2.21	0.70
1:A:236:GLN:HG3	1:A:242:SER:OG	1.92	0.69
1:A:317:VAL:HG11	1:A:340:ASP:HB2	1.75	0.68
1:A:240:PHE:CD2	1:A:240:PHE:N	2.63	0.67
1:A:225:ILE:HG22	1:A:230:VAL:HG23	1.76	0.66
1:A:247:LEU:HD22	1:A:247:LEU:O	1.96	0.66
1:A:247:LEU:HD13	1:A:250:ILE:HD11	1.77	0.65
1:A:237:ILE:HA	1:A:242:SER:HB3	1.79	0.65
1:A:248:MET:N	1:A:248:MET:SD	2.71	0.63
1:A:242:SER:OG	1:A:243:ILE:N	2.30	0.63
1:A:247:LEU:HB3	1:A:312:ILE:HD11	1.80	0.63
1:A:15:ASN:HB3	1:A:128:LEU:HD11	1.82	0.62
1:A:205:ILE:HD12	1:A:206:GLY:N	2.14	0.61
1:A:197:LEU:HD23	1:A:197:LEU:C	2.20	0.61
1:A:247:LEU:HB2	1:A:248:MET:SD	2.41	0.61
1:A:117:VAL:O	1:A:118:LEU:HD23	2.00	0.61
1:A:247:LEU:HD23	1:A:248:MET:HB2	1.83	0.59
1:A:247:LEU:CD1	1:A:250:ILE:HD11	2.32	0.59
1:A:240:PHE:CE1	1:A:253:GLN:HG3	2.38	0.59
1:A:247:LEU:HD22	1:A:250:ILE:HG12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:LEU:HD11	1:A:260:ALA:HA	1.83	0.59
1:A:106:LEU:O	1:A:106:LEU:HD13	2.03	0.59
1:A:106:LEU:HA	1:A:118:LEU:HD22	1.83	0.58
1:A:138:VAL:HG22	1:A:165:VAL:HG12	1.85	0.58
1:A:333:THR:O	1:A:334:LEU:HD23	2.04	0.57
1:A:247:LEU:HD13	1:A:250:ILE:CD1	2.34	0.57
1:A:86:ILE:HD12	1:A:86:ILE:C	2.25	0.57
1:A:328:ASP:O	1:A:330:LYS:HD2	2.04	0.56
1:A:236:GLN:HG3	1:A:242:SER:HG	1.67	0.56
1:A:15:ASN:C	1:A:128:LEU:HD11	2.26	0.56
1:A:237:ILE:O	1:A:240:PHE:O	2.24	0.56
1:A:93:THR:HG23	1:A:102:LEU:O	2.06	0.55
1:A:278:ASN:HD22	1:A:278:ASN:N	2.04	0.55
1:A:303:THR:OG1	1:A:304:GLN:NE2	2.40	0.55
1:A:311:THR:O	1:A:315:LEU:HD13	2.08	0.54
1:A:107:ILE:HG22	1:A:237:ILE:HG22	1.89	0.54
1:A:247:LEU:CD1	1:A:250:ILE:CD1	2.86	0.54
1:A:266:PRO:HG2	1:A:269:PHE:HB2	1.90	0.54
1:A:15:ASN:C	1:A:128:LEU:CD1	2.77	0.53
1:A:205:ILE:HD12	1:A:205:ILE:C	2.29	0.53
1:A:308:VAL:HG12	1:A:312:ILE:HD12	1.90	0.53
1:A:302:ILE:HD13	1:A:307:GLN:HB3	1.91	0.53
1:A:98:ASP:OD1	1:A:98:ASP:C	2.47	0.53
1:A:130:ILE:HG23	1:A:227:ILE:HG12	1.91	0.53
1:A:255:LEU:HD22	1:A:293:ILE:HD13	1.90	0.53
1:A:247:LEU:HD22	1:A:247:LEU:C	2.30	0.52
1:A:294:ILE:HG23	1:A:323:ILE:HG23	1.90	0.52
1:A:240:PHE:HB2	1:A:242:SER:HB2	1.93	0.51
1:A:314:LEU:O	1:A:315:LEU:HD12	2.10	0.51
1:A:197:LEU:CD2	1:A:197:LEU:C	2.79	0.50
1:A:247:LEU:HB3	1:A:312:ILE:HD13	1.94	0.50
1:A:273:LEU:HD12	1:A:292:ASP:O	2.12	0.50
1:A:184:THR:O	1:A:222:GLY:N	2.44	0.50
1:A:232:ASP:O	1:A:236:GLN:HB2	2.12	0.50
1:A:248:MET:O	1:A:281:SER:HB2	2.11	0.50
1:A:314:LEU:C	1:A:315:LEU:HD12	2.32	0.49
1:A:282:PRO:O	1:A:286:ALA:N	2.42	0.49
1:A:250:ILE:HG22	1:A:277:VAL:HG13	1.95	0.49
1:A:242:SER:OG	1:A:253:GLN:NE2	2.46	0.49
1:A:104:ALA:HA	1:A:120:ILE:HG22	1.95	0.48
1:A:240:PHE:N	1:A:240:PHE:HD2	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:317:VAL:HG21	1:A:340:ASP:HB2	1.96	0.48
1:A:260:ALA:O	1:A:265:TYR:HB2	2.14	0.48
1:A:209:THR:O	1:A:209:THR:OG1	2.27	0.47
1:A:143:VAL:HG13	1:A:161:THR:O	2.14	0.47
1:A:17:MET:N	1:A:18:PRO:CD	2.77	0.47
1:A:94:VAL:O	1:A:94:VAL:HG12	2.13	0.47
1:A:197:LEU:HD23	1:A:198:VAL:H	1.72	0.47
1:A:16:ILE:HG22	1:A:128:LEU:HB3	1.96	0.46
1:A:247:LEU:C	1:A:247:LEU:CD2	2.84	0.46
1:A:302:ILE:HD13	1:A:307:GLN:CB	2.45	0.46
1:A:239:LYS:C	1:A:240:PHE:CD2	2.89	0.46
1:A:107:ILE:HG22	1:A:237:ILE:CG2	2.46	0.46
1:A:26:GLN:HB2	1:A:91:LEU:CB	2.46	0.46
1:A:259:LEU:O	1:A:260:ALA:C	2.55	0.45
1:A:142:VAL:HB	1:A:197:LEU:CD2	2.43	0.45
1:A:97:GLN:HE21	1:A:97:GLN:HB3	1.64	0.45
1:A:301:LYS:HG3	1:A:303:THR:HG23	1.98	0.45
1:A:297:ILE:HD12	1:A:308:VAL:HA	1.99	0.45
1:A:15:ASN:HB3	1:A:128:LEU:CD1	2.46	0.45
1:A:92:ILE:HD13	1:A:104:ALA:O	2.16	0.45
1:A:142:VAL:CB	1:A:197:LEU:HD21	2.43	0.44
1:A:76:ASN:HD22	1:A:76:ASN:N	2.15	0.44
1:A:107:ILE:CG2	1:A:237:ILE:HG22	2.47	0.44
1:A:239:LYS:HB3	1:A:240:PHE:CE2	2.53	0.44
1:A:26:GLN:HB2	1:A:91:LEU:HB2	1.99	0.44
1:A:127:SER:C	1:A:128:LEU:HD23	2.38	0.43
1:A:247:LEU:HD13	1:A:250:ILE:CG1	2.49	0.43
1:A:73:ASP:HB3	1:A:78:VAL:HG23	2.01	0.43
1:A:13:LEU:HB3	1:A:17:MET:CE	2.48	0.43
1:A:106:LEU:HA	1:A:118:LEU:CD2	2.49	0.42
1:A:125:LEU:HD12	1:A:125:LEU:HA	1.89	0.42
1:A:10:ALA:N	1:A:11:PRO:CD	2.83	0.42
1:A:308:VAL:CG1	1:A:312:ILE:HD12	2.49	0.42
1:A:321:VAL:HG13	1:A:336:ALA:HB3	2.01	0.42
1:A:16:ILE:HG23	1:A:128:LEU:HD12	1.98	0.42
1:A:304:GLN:NE2	1:A:307:GLN:OE1	2.52	0.42
1:A:86:ILE:C	1:A:86:ILE:CD1	2.88	0.42
1:A:270:GLN:HB3	1:A:303:THR:HG22	2.01	0.42
1:A:333:THR:CG2	1:A:334:LEU:N	2.82	0.42
1:A:15:ASN:O	1:A:128:LEU:HD11	2.19	0.41
1:A:138:VAL:HG13	1:A:165:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:HD21	1:A:230:VAL:HG22	2.02	0.41
1:A:132:ASP:OD2	1:A:134:ASP:HB2	2.21	0.41
1:A:188:ILE:HG22	1:A:210:ALA:HB2	2.02	0.41
1:A:247:LEU:CD2	1:A:283:ALA:HB2	2.51	0.41
1:A:276:GLN:HA	1:A:290:ALA:HB2	2.03	0.41
1:A:310:THR:O	1:A:314:LEU:HD13	2.21	0.41
1:A:16:ILE:HA	1:A:128:LEU:HG	2.03	0.41
1:A:17:MET:HE2	1:A:158:GLN:HG2	2.03	0.40
1:A:247:LEU:HD13	1:A:250:ILE:HG12	2.02	0.40
1:A:288:LEU:CD1	1:A:325:VAL:HG21	2.52	0.40
1:A:227:ILE:HD12	1:A:227:ILE:HA	1.97	0.40
1:A:236:GLN:O	1:A:240:PHE:HD2	2.03	0.40
1:A:243:ILE:CD1	1:A:251:PHE:CE2	3.04	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	270/354 (76%)	234 (87%)	31 (12%)	5 (2%)	8 33

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	114	ASP
1	A	100	ARG
1	A	243	ILE
1	A	309	LYS
1	A	19	ALA

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	231/291 (79%)	195 (84%)	36 (16%)	2 11

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	MET
1	A	9	MET
1	A	16	ILE
1	A	62	LYS
1	A	66	ILE
1	A	91	LEU
1	A	92	ILE
1	A	95	THR
1	A	97	GLN
1	A	102	LEU
1	A	107	ILE
1	A	121	ASP
1	A	128	LEU
1	A	145	ILE
1	A	151	LEU
1	A	169	LYS
1	A	193	SER
1	A	201	LYS
1	A	209	THR
1	A	235	GLN
1	A	240	PHE
1	A	247	LEU
1	A	248	MET
1	A	252	VAL
1	A	276	GLN
1	A	278	ASN
1	A	285	LEU
1	A	304	GLN
1	A	310	THR
1	A	313	SER

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Mol	Chain	Res	Type
1	A	314	LEU
1	A	316	ARG
1	A	321	VAL
1	A	327	ARG
1	A	330	LYS
1	A	333	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	76	ASN
1	A	97	GLN
1	A	208	ASN
1	A	228	ASN
1	A	236	GLN
1	A	253	GLN
1	A	278	ASN
1	A	280	ASN
1	A	304	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 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

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	281/354 (79%)	0.19	10 (3%) 42 22	70, 95, 116, 133	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	247	LEU	3.7
1	A	79	ILE	3.4
1	A	207	ILE	2.8
1	A	71	ILE	2.7
1	A	212	LEU	2.6
1	A	118	LEU	2.6
1	A	302	ILE	2.6
1	A	248	MET	2.5
1	A	339	THR	2.4
1	A	94	VAL	2.3

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 monosaccharides 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. 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	B-factors(Å^2)	Q<0.9
2	CD	A	343	1/1	0.97	0.24	110,110,110,110	0

6.5 Other polymers (i)

There are no such residues in this entry.