



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 05:57 AM GMT

PDB ID : 2VGM
Title : STRUCTURE OF YEAST DOM34 : A PROTEIN RELATED TO TRANSLATION TERMINATION FACTOR ERF1 AND INVOLVED IN NO-GO DECAY.
Authors : Graille, M.; Chaillet, M.; Van Tilbeurgh, H.
Deposited on : 2007-11-14
Resolution : 2.60 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
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

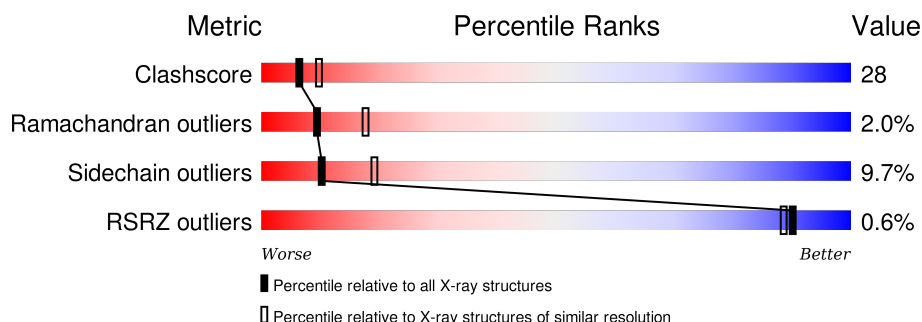
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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))
Clashscore	102246	2679 (2.60-2.60)
Ramachandran outliers	100387	2635 (2.60-2.60)
Sidechain outliers	100360	2635 (2.60-2.60)
RSRZ outliers	91569	2334 (2.60-2.60)

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	386	<div> <div></div> <div>46%</div> <div>40%</div> <div>5% • 8%</div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2866 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 DOM34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	354	Total	C	N	O	S	0	0	0
			2840	1840	438	548	14			

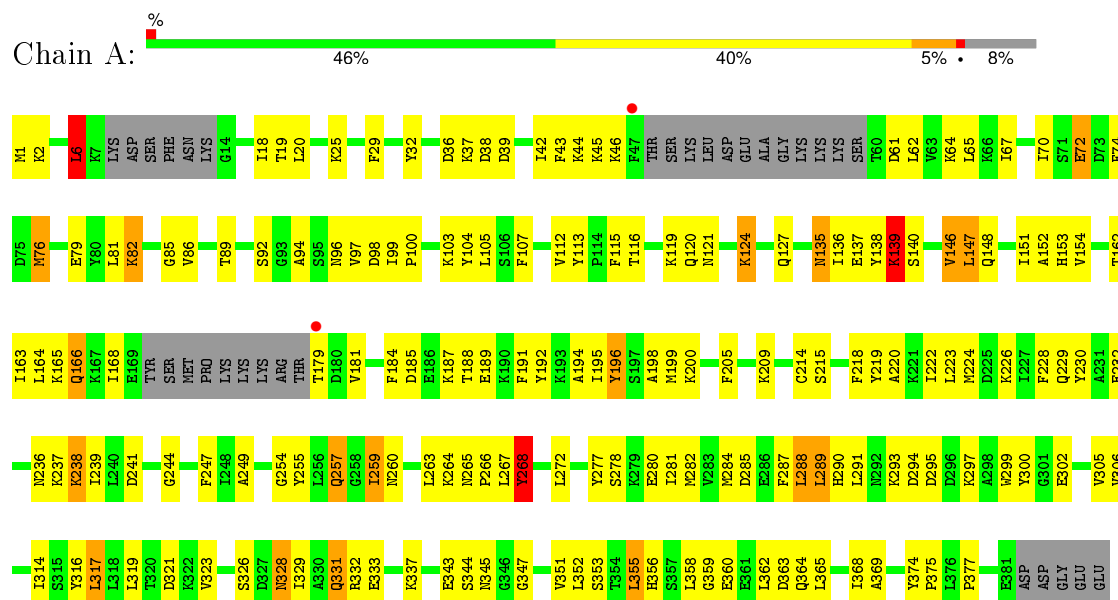
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	26	Total	O	0	0
			26	26		

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 ($\text{RSRZ} > 2$). 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: DOM34



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	75.50 Å 75.50 Å 163.98 Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	35.00 – 2.60 32.69 – 2.60	Depositor EDS
% Data completeness (in resolution range)	0.2 (35.00-2.60) 98.1 (32.69-2.60)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.49 (at 2.61 Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.226 , 0.288 0.243 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	63.2	Xtriage
Anisotropy	0.028	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 44.5	EDS
Estimated twinning fraction	0.069 for -h,-k,l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 16960 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	2866	wwPDB-VP
Average B, all atoms (Å ²)	64.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.75% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.38	0/2886	0.56	0/3881

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	2840	0	2894	158	0
2	A	26	0	0	1	0
All	All	2866	0	2894	158	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 28.

All (158) 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:290:HIS:O	1:A:295:ASP:HB3	1.70	0.90
1:A:184:PHE:CE1	1:A:189:GLU:HG3	2.07	0.89
1:A:124:LYS:HE3	1:A:124:LYS:HA	1.57	0.86
1:A:44:LYS:HE3	1:A:64:LYS:HE2	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:GLN:HG2	1:A:254:GLY:H	1.45	0.79
1:A:184:PHE:HE1	1:A:189:GLU:HG3	1.45	0.79
1:A:289:LEU:HD22	1:A:293:LYS:HE3	1.66	0.77
1:A:97:VAL:O	1:A:99:ILE:HD12	1.84	0.77
1:A:260:ASN:HB3	1:A:264:LYS:NZ	1.98	0.77
1:A:321:ASP:OD2	1:A:353:SER:HA	1.85	0.76
1:A:147:LEU:HD23	1:A:219:TYR:HB3	1.66	0.76
1:A:284:MET:O	1:A:288:LEU:HD22	1.85	0.76
1:A:196:TYR:CE2	1:A:200:LYS:HD3	2.22	0.74
1:A:135:ASN:HD22	1:A:137:GLU:H	1.34	0.74
1:A:65:LEU:HD13	1:A:105:LEU:HD21	1.68	0.74
1:A:328:ASN:ND2	1:A:331:GLN:HB2	2.03	0.74
1:A:25:LYS:HB3	1:A:79:GLU:HG2	1.70	0.72
1:A:218:PHE:O	1:A:222:ILE:HG13	1.90	0.72
1:A:6:LEU:HD13	1:A:18:ILE:HG12	1.71	0.71
1:A:255:TYR:HB2	1:A:257:GLN:NE2	2.04	0.71
1:A:103:LYS:HG2	1:A:104:TYR:N	2.07	0.70
1:A:185:ASP:HB3	1:A:188:THR:HG23	1.74	0.69
1:A:293:LYS:HB2	1:A:295:ASP:HB2	1.75	0.69
1:A:119:LYS:HD3	1:A:120:GLN:H	1.58	0.68
1:A:360:GLU:O	1:A:363:ASP:HB3	1.93	0.68
1:A:236:ASN:OD1	1:A:238:LYS:HG2	1.93	0.67
1:A:70:ILE:HG13	1:A:85:GLY:HA2	1.77	0.67
1:A:135:ASN:ND2	1:A:137:GLU:H	1.93	0.66
1:A:260:ASN:HB3	1:A:264:LYS:HZ1	1.58	0.66
1:A:259:ILE:O	1:A:263:LEU:HG	1.97	0.65
1:A:124:LYS:HE2	1:A:127:GLN:OE1	1.96	0.65
1:A:112:VAL:HG12	1:A:113:TYR:CD1	2.32	0.64
1:A:37:LYS:O	1:A:38:ASP:HB2	1.97	0.64
1:A:255:TYR:HB2	1:A:257:GLN:HE22	1.64	0.63
1:A:343:GLU:C	1:A:345:ASN:H	2.01	0.63
1:A:44:LYS:HE3	1:A:64:LYS:CE	2.29	0.63
1:A:168:ILE:HD12	1:A:195:ILE:HA	1.81	0.62
1:A:205:PHE:CD1	1:A:238:LYS:HD3	2.34	0.62
1:A:187:LYS:N	1:A:187:LYS:HD2	2.14	0.62
1:A:192:TYR:CE1	1:A:226:LYS:HE3	2.35	0.61
1:A:277:TYR:HB3	1:A:280:GLU:HG2	1.82	0.61
1:A:247:PHE:HZ	1:A:268:TYR:CD1	2.18	0.61
1:A:135:ASN:HD21	1:A:137:GLU:HB3	1.66	0.60
1:A:148:GLN:HG2	1:A:254:GLY:N	2.13	0.60
1:A:103:LYS:HG2	1:A:104:TYR:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:GLU:O	1:A:306:VAL:HG23	2.03	0.59
1:A:135:ASN:ND2	1:A:137:GLU:HB3	2.18	0.59
1:A:135:ASN:HD22	1:A:135:ASN:C	2.07	0.58
1:A:154:VAL:O	1:A:164:LEU:HD12	2.02	0.58
1:A:214:CYS:HB3	1:A:249:ALA:HB3	1.85	0.58
1:A:282:MET:O	1:A:285:ASP:HB2	2.03	0.58
1:A:153:HIS:HB3	1:A:164:LEU:HD13	1.86	0.58
1:A:343:GLU:HA	1:A:347:GLY:O	2.04	0.58
1:A:329:ILE:O	1:A:333:GLU:HG2	2.04	0.58
1:A:355:LEU:N	1:A:355:LEU:HD23	2.19	0.57
1:A:352:LEU:HD12	1:A:362:LEU:HD22	1.85	0.57
1:A:268:TYR:O	1:A:272:LEU:HD13	2.06	0.55
1:A:244:GLY:O	1:A:278:SER:HB3	2.07	0.55
1:A:222:ILE:O	1:A:226:LYS:HG2	2.07	0.55
1:A:238:LYS:HG3	1:A:239:ILE:HG13	1.88	0.55
1:A:45:LYS:HG2	1:A:46:LYS:H	1.70	0.54
1:A:112:VAL:HG12	1:A:113:TYR:CE1	2.43	0.54
1:A:72:GLU:O	1:A:72:GLU:HG2	2.09	0.53
1:A:45:LYS:O	1:A:62:LEU:HA	2.09	0.53
1:A:147:LEU:HD22	1:A:215:SER:CB	2.38	0.53
1:A:289:LEU:O	1:A:293:LYS:HG3	2.09	0.52
1:A:147:LEU:HD22	1:A:215:SER:HB2	1.90	0.52
1:A:317:LEU:HD13	1:A:319:LEU:HD11	1.91	0.52
1:A:295:ASP:OD1	1:A:297:LYS:HB2	2.09	0.52
1:A:92:SER:C	1:A:94:ALA:H	2.11	0.52
1:A:284:MET:O	1:A:288:LEU:CD2	2.57	0.52
1:A:343:GLU:C	1:A:345:ASN:N	2.62	0.52
1:A:39:ASP:OD1	1:A:119:LYS:HG2	2.10	0.51
1:A:205:PHE:HD1	1:A:238:LYS:HD3	1.74	0.51
1:A:135:ASN:HB3	1:A:138:TYR:HB2	1.92	0.51
1:A:147:LEU:HD23	1:A:219:TYR:CB	2.38	0.51
1:A:280:GLU:CD	1:A:280:GLU:H	2.14	0.50
1:A:162:THR:HG21	1:A:259:ILE:HG13	1.93	0.50
1:A:364:GLN:O	1:A:365:LEU:HD23	2.12	0.50
1:A:328:ASN:CG	1:A:331:GLN:HB2	2.32	0.50
1:A:226:LYS:HA	1:A:229:GLN:HE21	1.77	0.50
1:A:293:LYS:O	1:A:294:ASP:C	2.51	0.50
1:A:168:ILE:HD11	1:A:198:ALA:CB	2.41	0.49
1:A:192:TYR:CD1	1:A:226:LYS:HE3	2.48	0.49
1:A:181:VAL:HG11	1:A:219:TYR:CE2	2.48	0.49
1:A:147:LEU:N	1:A:147:LEU:HD13	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ALA:CB	1:A:195:ILE:HD11	2.43	0.49
1:A:74:PHE:CZ	1:A:76:MET:HG3	2.48	0.49
1:A:319:LEU:O	1:A:351:VAL:HA	2.13	0.48
1:A:18:ILE:O	1:A:116:THR:HA	2.13	0.48
1:A:191:PHE:O	1:A:194:ALA:HB3	2.14	0.48
1:A:223:LEU:HD12	1:A:223:LEU:O	2.13	0.48
1:A:42:ILE:N	1:A:42:ILE:HD12	2.29	0.48
1:A:196:TYR:O	1:A:199:MET:HB2	2.14	0.48
1:A:76:MET:CE	1:A:355:LEU:HD12	2.45	0.47
1:A:152:ALA:HB2	1:A:195:ILE:HD11	1.97	0.47
1:A:181:VAL:O	1:A:181:VAL:HG12	2.15	0.47
1:A:154:VAL:HG12	1:A:165:LYS:HB2	1.96	0.47
1:A:97:VAL:O	1:A:98:ASP:HB2	2.15	0.46
1:A:196:TYR:CE1	1:A:230:TYR:HB2	2.50	0.46
1:A:196:TYR:HE2	1:A:200:LYS:HD3	1.75	0.46
1:A:353:SER:HB3	1:A:356:HIS:HD2	1.81	0.46
1:A:146:VAL:HG22	1:A:259:ILE:HD11	1.97	0.46
1:A:363:ASP:C	1:A:365:LEU:H	2.19	0.45
1:A:36:ASP:O	1:A:39:ASP:HB2	2.17	0.45
1:A:164:LEU:HD12	1:A:165:LYS:H	1.81	0.45
1:A:300:TYR:HA	1:A:369:ALA:HA	1.98	0.45
1:A:259:ILE:HG12	1:A:259:ILE:H	1.54	0.45
1:A:148:GLN:HG2	1:A:254:GLY:CA	2.46	0.45
1:A:64:LYS:NZ	2:A:2004:HOH:O	2.49	0.45
1:A:237:LYS:O	1:A:241:ASP:CG	2.55	0.45
1:A:289:LEU:HD23	1:A:289:LEU:HA	1.71	0.45
1:A:46:LYS:HB3	1:A:62:LEU:HD12	1.99	0.45
1:A:19:THR:HA	1:A:115:PHE:O	2.17	0.44
1:A:136:ILE:HG22	1:A:136:ILE:O	2.17	0.44
1:A:247:PHE:CZ	1:A:268:TYR:CD1	3.03	0.44
1:A:333:GLU:O	1:A:337:LYS:HG3	2.17	0.44
1:A:29:PHE:O	1:A:32:TYR:HB3	2.17	0.44
1:A:165:LYS:O	1:A:166:GLN:HB2	2.17	0.44
1:A:148:GLN:N	1:A:254:GLY:HA3	2.33	0.44
1:A:119:LYS:HD3	1:A:120:GLN:N	2.29	0.44
1:A:277:TYR:O	1:A:281:ILE:HG13	2.18	0.44
1:A:98:ASP:O	1:A:100:PRO:HD3	2.16	0.43
1:A:260:ASN:HB3	1:A:264:LYS:HZ2	1.81	0.43
1:A:137:GLU:HG2	1:A:138:TYR:HD2	1.82	0.43
1:A:215:SER:HB3	1:A:220:ALA:HB2	2.00	0.43
1:A:326:SER:O	1:A:332:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:GLU:HB2	1:A:358:LEU:HD13	2.00	0.43
1:A:265:ASN:HA	1:A:266:PRO:HD3	1.72	0.43
1:A:112:VAL:CG1	1:A:113:TYR:CE1	3.02	0.43
1:A:97:VAL:C	1:A:99:ILE:H	2.22	0.43
1:A:260:ASN:ND2	1:A:260:ASN:N	2.64	0.43
1:A:36:ASP:OD2	1:A:119:LYS:CE	2.67	0.43
1:A:353:SER:O	1:A:359:GLY:HA3	2.19	0.43
1:A:92:SER:C	1:A:94:ALA:N	2.73	0.42
1:A:375:PRO:C	1:A:377:PRO:HD3	2.40	0.42
1:A:300:TYR:HB3	1:A:369:ALA:HB2	2.01	0.42
1:A:119:LYS:CD	1:A:120:GLN:H	2.30	0.42
1:A:82:LYS:HA	1:A:107:PHE:O	2.20	0.42
1:A:184:PHE:CG	1:A:185:ASP:N	2.88	0.42
1:A:305:VAL:HG13	1:A:314:ILE:HD11	2.00	0.42
1:A:224:MET:CE	1:A:228:PHE:HE2	2.33	0.41
1:A:18:ILE:HG22	1:A:20:LEU:HD22	2.01	0.41
1:A:287:PHE:O	1:A:291:LEU:HB2	2.20	0.41
1:A:1:MET:HG3	1:A:2:LYS:N	2.36	0.41
1:A:226:LYS:O	1:A:229:GLN:HB3	2.20	0.41
1:A:147:LEU:HA	1:A:151:ILE:O	2.21	0.41
1:A:232:GLU:H	1:A:232:GLU:HG3	1.73	0.41
1:A:265:ASN:O	1:A:268:TYR:HB2	2.21	0.41
1:A:181:VAL:CG1	1:A:219:TYR:CE2	3.04	0.41
1:A:86:VAL:HA	1:A:103:LYS:O	2.21	0.41
1:A:267:LEU:O	1:A:268:TYR:CG	2.74	0.41
1:A:359:GLY:O	1:A:363:ASP:HB2	2.21	0.40
1:A:329:ILE:HG22	1:A:329:ILE:O	2.20	0.40
1:A:139:LYS:O	1:A:140:SER:C	2.59	0.40
1:A:43:PHE:CE2	1:A:65:LEU:HB2	2.56	0.40
1:A:147:LEU:HD22	1:A:147:LEU:O	2.21	0.40
1:A:299:TRP:O	1:A:369:ALA:HB1	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	346/386 (90%)	304 (88%)	35 (10%)	7 (2%)	9	18

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	268	TYR
1	A	328	ASN
1	A	6	LEU
1	A	196	TYR
1	A	344	SER
1	A	139	LYS
1	A	166	GLN

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	319/348 (92%)	288 (90%)	31 (10%)	10	19

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	LEU
1	A	61	ASP
1	A	67	ILE
1	A	72	GLU
1	A	76	MET
1	A	81	LEU
1	A	82	LYS
1	A	89	THR
1	A	96	ASN
1	A	121	ASN
1	A	124	LYS
1	A	135	ASN

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Mol	Chain	Res	Type
1	A	139	LYS
1	A	146	VAL
1	A	147	LEU
1	A	163	ILE
1	A	179	THR
1	A	209	LYS
1	A	238	LYS
1	A	257	GLN
1	A	259	ILE
1	A	268	TYR
1	A	288	LEU
1	A	289	LEU
1	A	316	TYR
1	A	317	LEU
1	A	323	VAL
1	A	331	GLN
1	A	355	LEU
1	A	368	ILE
1	A	374	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	96	ASN
1	A	120	GLN
1	A	135	ASN
1	A	153	HIS
1	A	204	ASN
1	A	229	GLN
1	A	235	HIS
1	A	250	HIS
1	A	257	GLN
1	A	260	ASN
1	A	345	ASN
1	A	356	HIS
1	A	364	GLN

5.3.3 RNA ⓘ

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 [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	354/386 (91%)	-0.33	2 (0%)	90 88	43, 64, 87, 109	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	179	THR	3.7
1	A	47	PHE	2.7

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.