



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 1MWK / pdb_00001mwk
Title : ParM from plasmid R1 APO form
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Deposited on : 2002-09-30
Resolution : 2.30 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	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

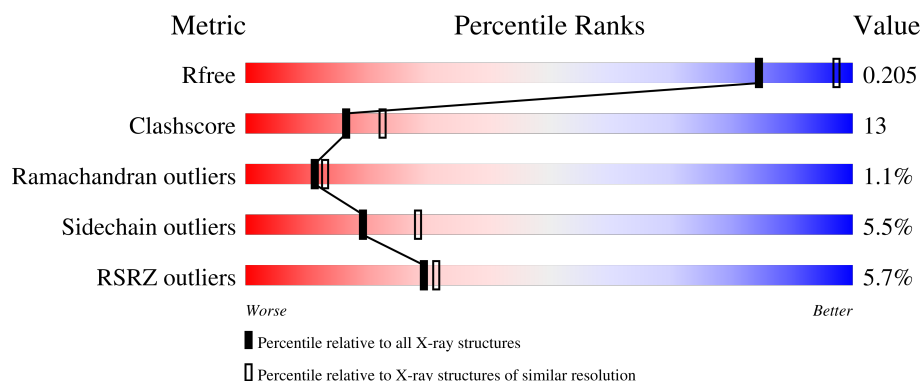
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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}	180053	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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 $\leq 5\%$. 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	320	5% 73% 24% .
1	B	320	6% 72% 24% ..

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 5267 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 ParM.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	320	Total	C	N	O	S	0	0	0
			2517	1586	425	498	8			
1	B	314	Total	C	N	O	S	0	0	0
			2468	1557	414	489	8			

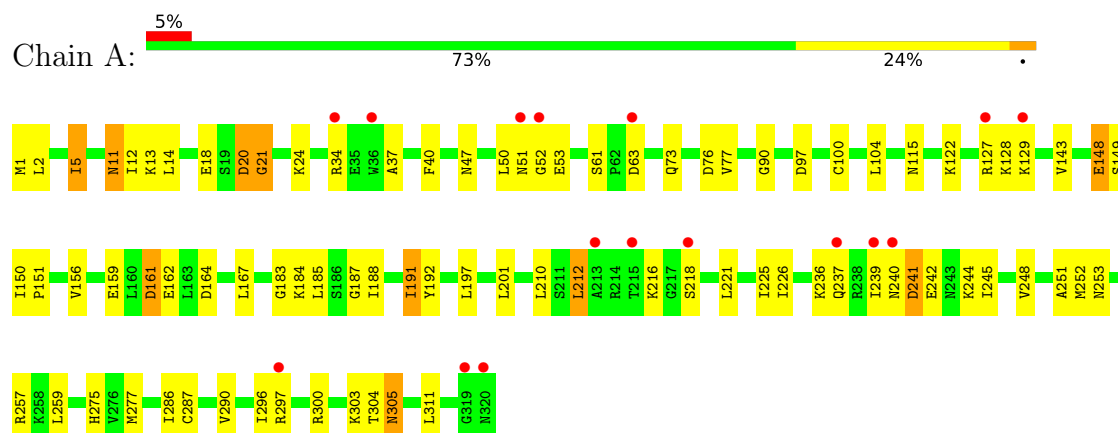
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	179	Total	O	0	0
			179	179		
2	B	103	Total	O	0	0
			103	103		

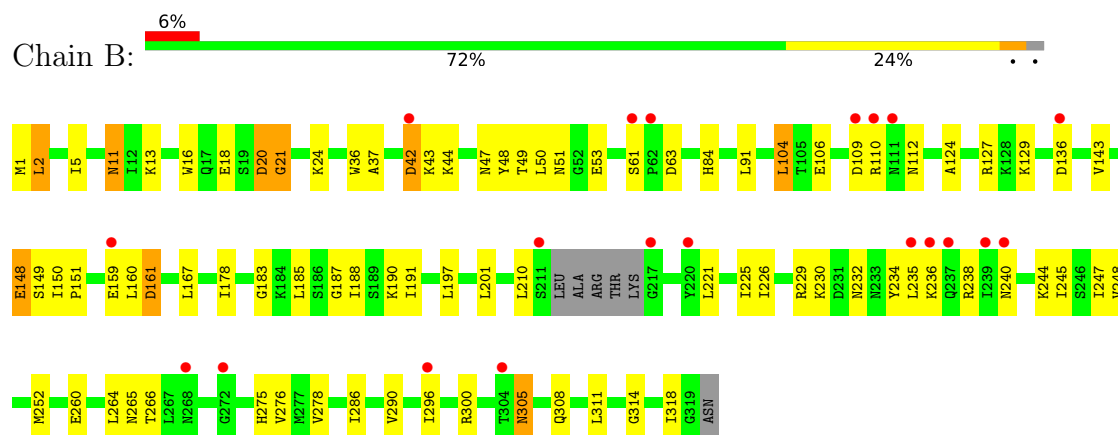
3 Residue-property plots

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: ParM



• Molecule 1: ParM



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	117.68Å 72.46Å 87.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	500.00 – 2.30 87.56 – 2.30	Depositor EDS
% Data completeness (in resolution range)	(Not available) (500.00-2.30) 98.6 (87.56-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.98 (at 2.29Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.217 , 0.266 0.216 , 0.205	Depositor DCC
R_{free} test set	1710 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	38.2	Xtriage
Anisotropy	0.311	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 48.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5267	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.04% 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	0.43	0/2558	0.91	8/3463 (0.2%)
1	B	0.39	0/2508	0.88	4/3396 (0.1%)
All	All	0.42	0/5066	0.89	12/6859 (0.2%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	149	SER	N-CA-C	8.67	120.73	111.28
1	A	149	SER	N-CA-C	7.94	119.94	111.28
1	B	5	ILE	N-CA-C	7.02	118.16	107.77
1	A	5	ILE	N-CA-C	6.89	117.97	107.77
1	A	90	GLY	N-CA-C	-6.68	106.53	114.48
1	B	106	GLU	N-CA-C	-6.35	105.55	113.55
1	A	40	PHE	N-CA-C	-6.21	105.57	113.02
1	A	148	GLU	N-CA-C	5.60	122.73	110.80
1	B	150	ILE	N-CA-C	5.39	120.53	108.88
1	A	150	ILE	N-CA-C	5.36	120.45	108.88
1	A	251	ALA	N-CA-C	-5.28	105.61	111.36
1	A	97	ASP	N-CA-C	-5.05	102.03	110.17

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	2517	0	2510	64	0
1	B	2468	0	2454	66	0
2	A	179	0	0	3	1
2	B	103	0	0	1	0
All	All	5267	0	4964	128	1

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 13.

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:B:226:ILE:HG12	1:B:252:MET:HE2	1.49	0.95
1:B:37:ALA:H	1:B:47:ASN:HD21	1.08	0.91
1:A:37:ALA:H	1:A:47:ASN:HD21	1.18	0.89
1:B:13:LYS:HE2	1:B:308:GLN:HB2	1.57	0.87
1:A:226:ILE:HG12	1:A:252:MET:HE2	1.57	0.86
1:A:210:LEU:HB3	1:A:212:LEU:HD13	1.64	0.79
1:A:225:ILE:HG22	1:A:252:MET:HE1	1.63	0.79
1:B:225:ILE:HG22	1:B:252:MET:HE1	1.68	0.74
1:B:37:ALA:H	1:B:47:ASN:ND2	1.85	0.74
1:B:296:ILE:HD11	1:B:300:ARG:HB3	1.72	0.72
1:A:63:ASP:OD2	1:A:216:LYS:HB3	1.90	0.71
1:A:210:LEU:CB	1:A:212:LEU:HD13	2.20	0.70
1:A:11:ASN:C	1:A:11:ASN:HD22	1.99	0.70
1:A:37:ALA:H	1:A:47:ASN:ND2	1.91	0.69
1:A:287:CYS:SG	1:A:303:LYS:HD2	2.34	0.68
1:A:244:LYS:O	1:A:248:VAL:HG23	1.94	0.67
1:B:112:ASN:OD1	1:B:190:LYS:HA	1.99	0.63
1:A:253:ASN:O	1:A:257:ARG:HG3	1.99	0.62
1:A:187:GLY:C	1:A:188:ILE:HD12	2.26	0.61
1:B:11:ASN:HD22	1:B:11:ASN:C	2.09	0.60
1:A:34:ARG:HH11	1:A:53:GLU:HG3	1.67	0.60
1:A:275:HIS:HA	1:A:296:ILE:HD11	1.83	0.60
1:A:212:LEU:HB3	1:A:218:SER:HB2	1.84	0.60
1:A:61:SER:C	1:A:63:ASP:H	2.08	0.60
1:B:244:LYS:O	1:B:248:VAL:HG23	2.02	0.59
1:B:1:MET:HE3	1:B:1:MET:HA	1.85	0.59
1:A:37:ALA:N	1:A:47:ASN:HD21	1.96	0.58
1:B:61:SER:C	1:B:63:ASP:H	2.11	0.58
1:B:300:ARG:HG2	1:B:300:ARG:HH21	1.68	0.58
1:B:234:TYR:OH	1:B:238:ARG:HD2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:226:ILE:CG1	1:A:252:MET:HE2	2.31	0.57
1:B:42:ASP:CG	1:B:43:LYS:HG3	2.30	0.57
1:B:236:LYS:HD3	1:B:245:ILE:HD13	1.86	0.57
1:A:296:ILE:HD11	1:A:300:ARG:HB3	1.87	0.57
1:A:244:LYS:HE2	1:B:247:ILE:HD11	1.86	0.57
1:A:275:HIS:CD2	1:A:300:ARG:HG3	2.39	0.57
1:A:277:MET:HE2	1:A:304:THR:OG1	2.05	0.56
1:A:1:MET:HE3	1:A:1:MET:HA	1.88	0.56
1:B:161:ASP:O	1:B:183:GLY:HA3	2.06	0.56
1:B:296:ILE:CD1	1:B:300:ARG:HB3	2.36	0.56
1:B:18:GLU:HG3	1:B:24:LYS:HE3	1.87	0.56
1:A:241:ASP:HB3	1:A:244:LYS:HB2	1.88	0.55
1:A:239:ILE:HB	1:A:245:ILE:CD1	2.36	0.55
1:B:236:LYS:HD3	1:B:245:ILE:CD1	2.37	0.54
1:A:11:ASN:C	1:A:12:ILE:HD12	2.32	0.54
1:A:156:VAL:HG21	1:A:277:MET:HE3	1.89	0.53
1:B:104:LEU:HD13	1:B:191:ILE:HG23	1.91	0.53
1:A:77:VAL:HG23	2:A:405:HOH:O	2.09	0.53
1:B:235:LEU:HD12	1:B:235:LEU:N	2.24	0.52
1:A:241:ASP:O	1:A:245:ILE:HG12	2.10	0.52
1:B:300:ARG:HG2	1:B:300:ARG:NH2	2.25	0.51
1:B:210:LEU:HD11	1:B:225:ILE:CD1	2.41	0.51
1:B:225:ILE:HG22	1:B:252:MET:CE	2.40	0.50
1:B:187:GLY:C	1:B:188:ILE:HD12	2.35	0.50
1:A:162:GLU:HG3	1:A:184:LYS:HD2	1.94	0.50
1:A:305:ASN:HB2	2:A:324:HOH:O	2.11	0.50
1:B:275:HIS:CD2	1:B:300:ARG:HG3	2.47	0.50
1:B:148:GLU:O	1:B:151:PRO:HD2	2.12	0.49
1:A:201:LEU:C	1:A:201:LEU:HD23	2.37	0.49
1:A:51:ASN:HD21	1:A:128:LYS:CD	2.26	0.49
1:A:236:LYS:HE2	1:A:242:GLU:OE1	2.13	0.48
1:B:42:ASP:OD1	1:B:43:LYS:HG3	2.14	0.48
1:A:61:SER:C	1:A:63:ASP:N	2.71	0.47
1:B:276:VAL:HG23	1:B:296:ILE:HD12	1.96	0.47
1:A:210:LEU:HB3	1:A:212:LEU:CD1	2.40	0.47
1:A:240:ASN:O	1:A:241:ASP:HB2	2.14	0.47
1:A:239:ILE:HB	1:A:245:ILE:HD11	1.96	0.47
1:A:115:ASN:C	1:A:115:ASN:HD22	2.22	0.47
1:B:20:ASP:CG	1:B:21:GLY:H	2.23	0.47
1:B:1:MET:HE3	1:B:2:LEU:H	1.80	0.47
1:A:5:ILE:HG12	1:A:14:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:ILE:HB	1:A:245:ILE:HD13	1.97	0.46
1:A:296:ILE:CD1	1:A:300:ARG:HB3	2.44	0.46
1:B:109:ASP:OD1	1:B:110:ARG:N	2.48	0.46
1:A:244:LYS:HE2	1:B:247:ILE:CD1	2.45	0.46
1:A:127:ARG:HH22	1:A:143:VAL:HB	1.81	0.46
1:A:63:ASP:CG	1:A:216:LYS:HB3	2.40	0.46
1:B:201:LEU:C	1:B:201:LEU:HD23	2.40	0.46
1:B:235:LEU:HD12	1:B:235:LEU:H	1.81	0.46
1:A:188:ILE:HG21	1:A:191:ILE:HD13	1.98	0.46
1:B:178:ILE:HD12	1:B:266:THR:HG21	1.98	0.46
1:A:225:ILE:HG22	1:A:252:MET:CE	2.41	0.45
1:A:210:LEU:HB2	1:A:212:LEU:HD13	1.97	0.45
1:B:48:TYR:OH	1:B:84:HIS:HD2	1.99	0.45
1:B:210:LEU:CD2	1:B:248:VAL:HG21	2.46	0.45
1:A:11:ASN:HD21	1:A:13:LYS:NZ	2.14	0.45
1:B:278:VAL:HG21	1:B:290:VAL:HG21	1.98	0.45
1:B:244:LYS:HA	1:B:247:ILE:HG22	1.99	0.45
1:A:192:TYR:CD2	1:A:192:TYR:C	2.95	0.45
1:A:18:GLU:HG3	1:A:24:LYS:HE3	1.99	0.45
1:B:260:GLU:O	1:B:264:LEU:HG	2.17	0.45
1:A:50:LEU:HD23	1:A:76:ASP:HB3	2.00	0.44
1:B:275:HIS:HA	1:B:296:ILE:HD11	1.98	0.44
1:B:112:ASN:N	1:B:112:ASN:HD22	2.15	0.44
1:A:20:ASP:CG	1:A:21:GLY:H	2.25	0.43
1:B:44:LYS:NZ	1:B:44:LYS:HB3	2.33	0.43
1:B:49:THR:HA	1:B:53:GLU:O	2.18	0.43
1:B:276:VAL:HG23	1:B:296:ILE:CD1	2.48	0.43
1:A:129:LYS:H	1:A:129:LYS:HG2	1.54	0.43
1:B:129:LYS:H	1:B:129:LYS:HG2	1.53	0.43
1:B:127:ARG:HH22	1:B:143:VAL:HB	1.84	0.43
1:B:16:TRP:NE1	1:B:91:LEU:HD21	2.33	0.43
1:B:188:ILE:HD12	1:B:188:ILE:N	2.34	0.43
1:A:73:GLN:NE2	2:A:321:HOH:O	2.43	0.43
1:A:51:ASN:HD21	1:A:128:LYS:HD3	1.82	0.43
1:B:305:ASN:HB2	2:B:412:HOH:O	2.17	0.43
1:B:314:GLY:O	1:B:318:ILE:HG13	2.19	0.43
1:B:201:LEU:HD23	1:B:201:LEU:O	2.19	0.42
1:A:100:CYS:SG	1:A:122:LYS:HE3	2.59	0.42
1:A:297:ARG:HD3	1:A:300:ARG:HD3	2.02	0.42
1:B:229:ARG:HG3	1:B:230:LYS:HG3	2.02	0.42
1:A:210:LEU:HD21	1:A:248:VAL:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:TRP:CD1	1:B:47:ASN:HB3	2.55	0.42
1:B:61:SER:C	1:B:63:ASP:N	2.73	0.42
1:B:232:ASN:HA	1:B:235:LEU:HD13	2.02	0.42
1:A:148:GLU:O	1:A:151:PRO:HD2	2.20	0.42
1:B:50:LEU:CD1	1:B:51:ASN:N	2.84	0.41
1:B:235:LEU:H	1:B:235:LEU:CD1	2.32	0.41
1:A:286:ILE:O	1:A:290:VAL:HG13	2.21	0.41
1:B:124:ALA:O	1:B:127:ARG:HB2	2.21	0.41
1:B:286:ILE:O	1:B:290:VAL:HG13	2.21	0.41
1:B:51:ASN:C	1:B:53:GLU:H	2.28	0.41
1:B:226:ILE:CG1	1:B:252:MET:HE2	2.33	0.41
1:A:161:ASP:O	1:A:183:GLY:HA3	2.21	0.41
1:B:16:TRP:CD1	1:B:91:LEU:HD21	2.56	0.40
1:A:156:VAL:HG21	1:A:277:MET:CE	2.51	0.40
1:B:112:ASN:N	1:B:112:ASN:ND2	2.70	0.40
1:A:161:ASP:O	1:A:164:ASP:HB2	2.22	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:409:HOH:O	2:A:409:HOH:O[2_555]	1.54	0.66

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	318/320 (99%)	302 (95%)	12 (4%)	4 (1%)	9	10
1	B	310/320 (97%)	292 (94%)	15 (5%)	3 (1%)	12	15
All	All	628/640 (98%)	594 (95%)	27 (4%)	7 (1%)	11	13

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	20	ASP
1	A	52	GLY
1	A	241	ASP
1	B	20	ASP
1	A	21	GLY
1	B	21	GLY
1	B	148	GLU

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	284/284 (100%)	269 (95%)	15 (5%)	20	30
1	B	279/284 (98%)	263 (94%)	16 (6%)	18	27
All	All	563/568 (99%)	532 (94%)	31 (6%)	19	28

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

Mol	Chain	Res	Type
1	A	2	LEU
1	A	11	ASN
1	A	104	LEU
1	A	159	GLU
1	A	161	ASP
1	A	167	LEU
1	A	185	LEU
1	A	191	ILE
1	A	197	LEU
1	A	212	LEU
1	A	221	LEU
1	A	237	GLN
1	A	259	LEU
1	A	305	ASN
1	A	311	LEU
1	B	2	LEU

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Mol	Chain	Res	Type
1	B	11	ASN
1	B	42	ASP
1	B	104	LEU
1	B	136	ASP
1	B	159	GLU
1	B	160	LEU
1	B	161	ASP
1	B	167	LEU
1	B	185	LEU
1	B	197	LEU
1	B	221	LEU
1	B	240	ASN
1	B	265	ASN
1	B	305	ASN
1	B	311	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (33) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	ASN
1	A	47	ASN
1	A	51	ASN
1	A	54	GLN
1	A	73	GLN
1	A	84	HIS
1	A	111	ASN
1	A	115	ASN
1	A	118	ASN
1	A	158	GLN
1	A	228	HIS
1	A	237	GLN
1	A	240	ASN
1	A	253	ASN
1	A	268	ASN
1	A	306	ASN
1	A	308	GLN
1	A	320	ASN
1	B	11	ASN
1	B	25	GLN
1	B	47	ASN
1	B	54	GLN
1	B	73	GLN

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Mol	Chain	Res	Type
1	B	84	HIS
1	B	112	ASN
1	B	228	HIS
1	B	237	GLN
1	B	240	ASN
1	B	253	ASN
1	B	261	GLN
1	B	265	ASN
1	B	306	ASN
1	B	308	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 oligosaccharides 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	320/320 (100%)	0.23	16 (5%) 34 35	23, 36, 69, 98	0
1	B	314/320 (98%)	0.38	20 (6%) 25 27	25, 40, 69, 85	0
All	All	634/640 (99%)	0.31	36 (5%) 29 31	23, 38, 69, 98	0

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	136	ASP	5.3
1	A	320	ASN	4.7
1	A	51	ASN	4.5
1	B	110	ARG	4.2
1	A	213	ALA	3.9
1	A	127	ARG	3.7
1	A	239	ILE	3.4
1	A	240	ASN	3.4
1	A	36	TRP	3.0
1	B	240	ASN	3.0
1	B	217	GLY	2.8
1	A	319	GLY	2.7
1	A	218	SER	2.7
1	B	62	PRO	2.7
1	B	239	ILE	2.6
1	B	235	LEU	2.6
1	B	237	GLN	2.6
1	A	237	GLN	2.5
1	B	272	GLY	2.4
1	B	220	TYR	2.4
1	B	304	THR	2.4
1	A	215	THR	2.4
1	A	63	ASP	2.3
1	A	52	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	42	ASP	2.3
1	B	236	LYS	2.2
1	B	296	ILE	2.2
1	B	211	SER	2.2
1	B	109	ASP	2.1
1	B	111	ASN	2.1
1	B	268	ASN	2.1
1	A	297	ARG	2.1
1	A	34	ARG	2.1
1	A	129	LYS	2.1
1	B	159	GLU	2.1
1	B	61	SER	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 oligosaccharides 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.