



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 11:42 PM UTC

PDB ID : 3F6I / pdb_00003f6i
Title : Structure of the SeMet labeled F4 fibrial chaperone FaeE
Authors : Van Molle, I.; Moonens, K.; Buts, L.; Garcia-Pino, A.; Wyns, L.; De Greve, H.; Bouckaert, J.
Deposited on : 2008-11-06
Resolution : 2.79 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
Mogul : 2022.3.0, CSD as543be (2022)
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

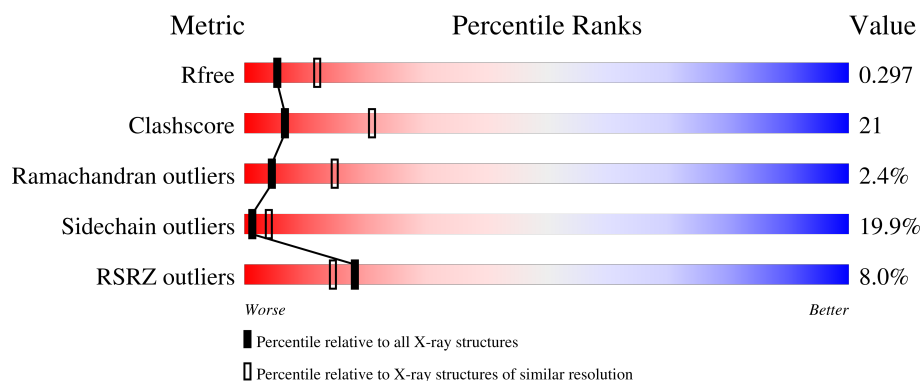
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.79 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	5248 (2.80-2.76)
Clashscore	190562	5693 (2.80-2.76)
Ramachandran outliers	187476	5590 (2.80-2.76)
Sidechain outliers	187428	5592 (2.80-2.76)
RSRZ outliers	180081	5251 (2.80-2.76)

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	224	6% 52% 30% 6% 11%
1	B	224	8% 51% 22% 8% 18%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2812 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 Chaperone protein faeE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	199	Total	C	N	O	Se	0	0	0
			1453	923	243	283	4			
1	B	183	Total	C	N	O	Se	0	0	0
			1346	856	223	263	4			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	15	GLU	LYS	engineered mutation	UNP P25401
B	15	GLU	LYS	engineered mutation	UNP P25401

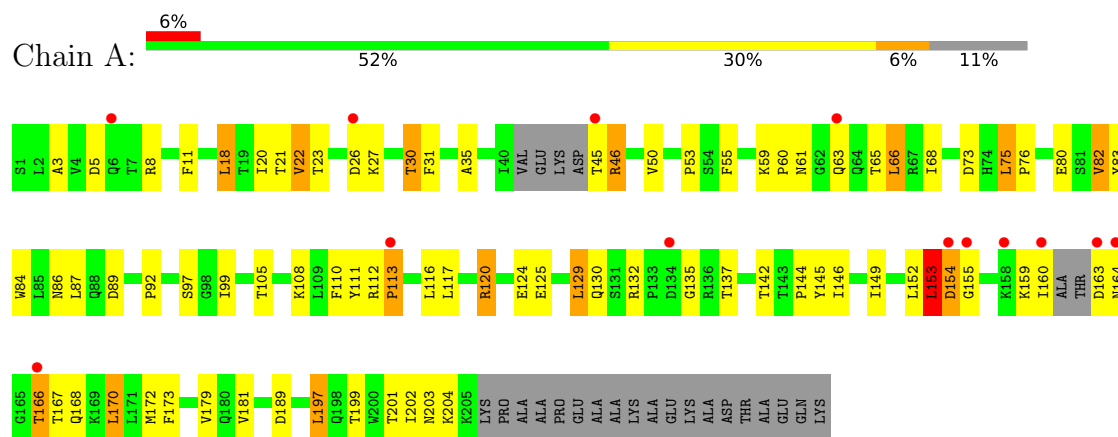
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	5	Total	O	0	0
			5	5		
2	B	8	Total	O	0	0
			8	8		

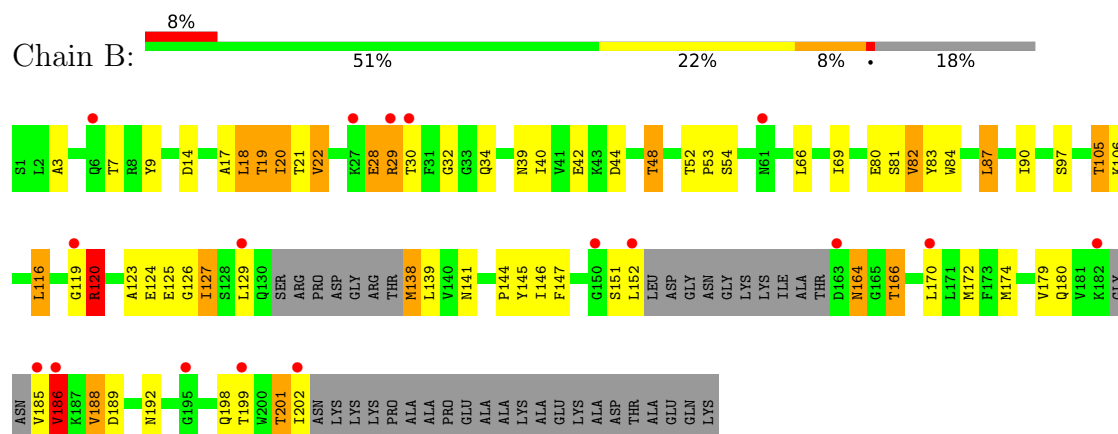
3 Residue-property plots [i](#)

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: Chaperone protein faeE



• Molecule 1: Chaperone protein faeE



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	136.28Å 75.66Å 69.28Å 90.00° 92.81° 90.00°	Depositor
Resolution (Å)	31.47 – 2.79 31.47 – 2.79	Depositor EDS
% Data completeness (in resolution range)	96.8 (31.47-2.79) 96.7 (31.47-2.79)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.70 (at 2.81Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.231 , 0.296 0.243 , 0.297	Depositor DCC
R_{free} test set	876 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	68.9	Xtriage
Anisotropy	0.089	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 81.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.025 for -h,-k,l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	2812	wwPDB-VP
Average B, all atoms (Å ²)	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.11% 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](#)

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	0.50	0/1474	0.84	3/2007 (0.1%)
1	B	0.41	0/1367	0.81	0/1863
All	All	0.46	0/2841	0.82	3/3870 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	153	LEU	N-CA-C	7.85	121.31	108.99
1	A	135	GLY	N-CA-C	-5.63	106.76	114.64
1	A	117	LEU	N-CA-C	5.16	116.90	111.28

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	1453	0	1360	54	0
1	B	1346	0	1246	66	0
2	A	5	0	0	0	0
2	B	8	0	0	0	0
All	All	2812	0	2606	116	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 21.

All (116) 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:129:LEU:H	1:A:129:LEU:HD23	1.12	1.11
1:A:129:LEU:H	1:A:129:LEU:CD2	1.66	1.07
1:B:82:VAL:HG22	1:B:146:ILE:HD13	1.39	1.04
1:B:29:ARG:HA	1:B:30:THR:HB	1.42	1.01
1:B:39:ASN:HD21	1:B:48:THR:HG23	1.28	0.98
1:A:129:LEU:HD23	1:A:129:LEU:N	1.79	0.91
1:A:129:LEU:CD2	1:A:129:LEU:N	2.30	0.86
1:B:164:ASN:HD22	1:B:164:ASN:H	1.20	0.84
1:A:125:GLU:HB3	1:A:204:LYS:HG3	1.60	0.82
1:B:39:ASN:ND2	1:B:48:THR:HG23	1.94	0.81
1:B:119:GLY:O	1:B:120:ARG:HB2	1.80	0.81
1:A:30:THR:HG22	1:A:60:PRO:HD3	1.60	0.81
1:A:112:ARG:CZ	1:A:120:ARG:HG3	2.10	0.81
1:B:138:MSE:HB3	1:B:180:GLN:OE1	1.80	0.81
1:B:138:MSE:HE3	1:B:180:GLN:HE22	1.47	0.79
1:B:82:VAL:CG2	1:B:146:ILE:HD13	2.14	0.76
1:A:189:ASP:HB3	1:A:197:LEU:HD21	1.66	0.75
1:B:138:MSE:HE3	1:B:180:GLN:NE2	2.02	0.74
1:B:164:ASN:HD22	1:B:164:ASN:N	1.87	0.73
1:B:40:ILE:HG21	1:B:172:MSE:HE2	1.73	0.71
1:B:164:ASN:ND2	1:B:166:THR:HB	2.07	0.69
1:B:170:LEU:HD11	1:B:179:VAL:HG11	1.75	0.67
1:A:129:LEU:H	1:A:129:LEU:HD22	1.59	0.66
1:B:151:SER:O	1:B:152:LEU:HB3	1.94	0.66
1:B:124:GLU:HB3	1:B:147:PHE:CE2	2.34	0.63
1:B:124:GLU:O	1:B:124:GLU:HG2	1.98	0.62
1:B:87:LEU:HB3	1:B:105:THR:HG23	1.82	0.61
1:B:29:ARG:HA	1:B:30:THR:CB	2.20	0.60
1:B:138:MSE:HB3	1:B:180:GLN:CD	2.26	0.60
1:B:32:GLY:HA3	1:B:90:ILE:HB	1.84	0.59
1:A:120:ARG:HH22	1:A:124:GLU:CD	2.10	0.59
1:A:170:LEU:HD13	1:A:179:VAL:HG21	1.85	0.58
1:B:164:ASN:HD21	1:B:166:THR:HB	1.67	0.58
1:A:129:LEU:N	1:A:129:LEU:HD22	2.14	0.58
1:A:20:ILE:HD11	1:A:68:ILE:HD11	1.86	0.57
1:A:75:LEU:HD12	1:A:111:TYR:CD2	2.39	0.57
1:A:23:THR:HG22	1:A:63:GLN:HG2	1.86	0.57
1:A:202:ILE:HD12	1:A:203:ASN:HB2	1.87	0.56
1:A:30:THR:HB	1:A:59:LYS:HA	1.88	0.56
1:B:188:VAL:HB	1:B:202:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:201:THR:C	1:B:202:ILE:HD12	2.32	0.55
1:B:166:THR:HG23	1:B:170:LEU:HD13	1.90	0.54
1:B:34:GLN:HA	1:B:54:SER:O	2.07	0.53
1:B:17:ALA:HB2	1:B:69:ILE:HG22	1.90	0.53
1:B:18:LEU:HD22	1:B:19:THR:N	2.24	0.53
1:A:108:LYS:HB3	1:A:110:PHE:CE1	2.44	0.53
1:A:130:GLN:HG3	1:A:132:ARG:NH1	2.24	0.53
1:A:45:THR:O	1:A:46:ARG:CB	2.57	0.52
1:A:11:PHE:CD2	1:A:18:LEU:HB2	2.44	0.52
1:A:97:SER:HB3	1:B:84:TRP:HZ3	1.75	0.52
1:A:125:GLU:HB3	1:A:204:LYS:CG	2.36	0.52
1:B:166:THR:HG23	1:B:179:VAL:HG21	1.91	0.52
1:B:80:GLU:HG3	1:B:146:ILE:HD12	1.92	0.51
1:A:112:ARG:O	1:A:113:PRO:O	2.29	0.51
1:B:116:LEU:HD21	1:B:144:PRO:HB2	1.93	0.50
1:B:30:THR:HG22	1:B:30:THR:O	2.11	0.50
1:A:30:THR:O	1:A:92:PRO:HG3	2.10	0.50
1:A:84:TRP:CZ3	1:B:97:SER:HB3	2.47	0.49
1:A:189:ASP:HB3	1:A:197:LEU:CD2	2.39	0.49
1:B:53:PRO:HD2	1:B:66:LEU:HD23	1.94	0.49
1:B:192:ASN:HD22	1:B:198:GLN:HE21	1.60	0.48
1:B:126:GLY:O	1:B:127:ILE:C	2.57	0.48
1:A:112:ARG:NH1	1:A:120:ARG:HG3	2.29	0.48
1:B:185:VAL:O	1:B:186:VAL:HG12	2.14	0.48
1:B:120:ARG:CA	1:B:120:ARG:HE	2.27	0.48
1:A:82:VAL:C	1:A:83:TYR:CD1	2.91	0.48
1:B:127:ILE:O	1:B:202:ILE:HG23	2.14	0.48
1:B:166:THR:HG23	1:B:170:LEU:CD1	2.43	0.48
1:B:39:ASN:HB3	1:B:42:GLU:HB2	1.96	0.47
1:B:124:GLU:HB3	1:B:147:PHE:CZ	2.50	0.47
1:A:120:ARG:HG2	1:A:145:TYR:CD2	2.50	0.47
1:B:120:ARG:HE	1:B:120:ARG:HA	1.80	0.47
1:A:154:ASP:OD1	1:A:155:GLY:HA2	2.15	0.47
1:A:26:ASP:O	1:A:27:LYS:CB	2.63	0.46
1:A:124:GLU:O	1:A:202:ILE:HG22	2.16	0.46
1:A:112:ARG:NH2	1:A:120:ARG:HG3	2.31	0.46
1:A:159:LYS:O	1:A:160:ILE:C	2.59	0.46
1:B:14:ASP:C	1:B:14:ASP:OD2	2.59	0.46
1:A:153:LEU:O	1:A:154:ASP:HB2	2.16	0.46
1:B:192:ASN:HD22	1:B:198:GLN:HG3	1.81	0.46
1:A:53:PRO:HB2	1:A:55:PHE:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:GLU:HB3	1:A:146:ILE:HD12	1.98	0.45
1:A:3:ALA:O	1:A:22:VAL:HA	2.16	0.45
1:A:30:THR:CG2	1:A:60:PRO:HD3	2.39	0.45
1:B:18:LEU:HD22	1:B:19:THR:H	1.82	0.45
1:A:97:SER:HB3	1:B:84:TRP:CZ3	2.51	0.45
1:B:164:ASN:H	1:B:164:ASN:ND2	2.01	0.45
1:B:170:LEU:CD1	1:B:179:VAL:HG11	2.45	0.45
1:B:125:GLU:CB	1:B:127:ILE:N	2.80	0.45
1:B:40:ILE:HD12	1:B:82:VAL:HB	1.98	0.44
1:A:163:ASP:O	1:A:164:ASN:C	2.61	0.44
1:B:123:ALA:O	1:B:126:GLY:HA3	2.17	0.44
1:A:152:LEU:C	1:A:153:LEU:HD23	2.43	0.43
1:B:125:GLU:HA	1:B:126:GLY:HA3	1.82	0.43
1:A:31:PHE:HD2	1:A:89:ASP:HB2	1.84	0.43
1:A:130:GLN:HG3	1:A:132:ARG:HH12	1.83	0.43
1:B:82:VAL:C	1:B:83:TYR:CD1	2.96	0.42
1:B:3:ALA:O	1:B:22:VAL:HA	2.19	0.42
1:B:189:ASP:HA	1:B:199:THR:HA	2.02	0.42
1:B:125:GLU:CB	1:B:202:ILE:HG13	2.49	0.42
1:A:144:PRO:HD2	1:A:145:TYR:CD1	2.55	0.42
1:A:149:ILE:HB	1:A:170:LEU:HB3	2.01	0.42
1:B:116:LEU:HA	1:B:116:LEU:HD12	1.72	0.41
1:A:116:LEU:HB3	1:A:145:TYR:CE2	2.55	0.41
1:B:144:PRO:HD2	1:B:145:TYR:CD1	2.55	0.41
1:B:84:TRP:CD2	1:B:106:LYS:HE3	2.55	0.41
1:A:84:TRP:HZ3	1:B:97:SER:HB3	1.82	0.41
1:B:9:TYR:CE2	1:B:20:ILE:HD13	2.55	0.41
1:A:163:ASP:O	1:A:166:THR:HB	2.21	0.41
1:A:75:LEU:O	1:A:76:PRO:C	2.63	0.41
1:B:166:THR:CG2	1:B:170:LEU:HD13	2.49	0.41
1:A:35:ALA:HA	1:A:86:ASN:O	2.21	0.40
1:B:29:ARG:CA	1:B:30:THR:CB	2.96	0.40
1:B:124:GLU:HA	1:B:125:GLU:HA	1.63	0.40
1:A:65:THR:C	1:A:66:LEU:HD23	2.47	0.40
1:A:154:ASP:CG	1:A:155:GLY:HA2	2.47	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	193/224 (86%)	174 (90%)	16 (8%)	3 (2%)	7	23
1	B	175/224 (78%)	157 (90%)	12 (7%)	6 (3%)	3	9
All	All	368/448 (82%)	331 (90%)	28 (8%)	9 (2%)	4	15

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	113	PRO
1	B	28	GLU
1	B	120	ARG
1	B	29	ARG
1	B	127	ILE
1	B	141	ASN
1	A	46	ARG
1	A	154	ASP
1	B	186	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	143/185 (77%)	113 (79%)	30 (21%)	1	3
1	B	134/185 (72%)	109 (81%)	25 (19%)	1	5
All	All	277/370 (75%)	222 (80%)	55 (20%)	1	4

All (55) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	ASP
1	A	8	ARG
1	A	18	LEU
1	A	21	THR
1	A	22	VAL
1	A	30	THR
1	A	50	VAL
1	A	61	ASN
1	A	66	LEU
1	A	73	ASP
1	A	75	LEU
1	A	82	VAL
1	A	87	LEU
1	A	99	ILE
1	A	105	THR
1	A	120	ARG
1	A	129	LEU
1	A	137	THR
1	A	142	THR
1	A	153	LEU
1	A	166	THR
1	A	167	THR
1	A	168	GLN
1	A	170	LEU
1	A	172	MSE
1	A	173	PHE
1	A	181	VAL
1	A	197	LEU
1	A	199	THR
1	A	201	THR
1	B	7	THR
1	B	18	LEU
1	B	19	THR
1	B	20	ILE
1	B	21	THR
1	B	22	VAL
1	B	28	GLU
1	B	44	ASP
1	B	48	THR
1	B	52	THR
1	B	81	SER
1	B	82	VAL

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Mol	Chain	Res	Type
1	B	87	LEU
1	B	105	THR
1	B	116	LEU
1	B	120	ARG
1	B	129	LEU
1	B	138	MSE
1	B	139	LEU
1	B	164	ASN
1	B	166	THR
1	B	174	MSE
1	B	186	VAL
1	B	188	VAL
1	B	201	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	39	ASN
1	A	64	GLN
1	B	34	GLN
1	B	39	ASN
1	B	64	GLN
1	B	164	ASN
1	B	198	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

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, 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	195/224 (87%)	0.47	13 (6%) 24 19	35, 58, 96, 121	0
1	B	179/224 (79%)	0.53	17 (9%) 14 11	40, 68, 110, 136	0
All	All	374/448 (83%)	0.50	30 (8%) 18 14	35, 62, 104, 136	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	163	ASP	6.3
1	B	163	ASP	5.4
1	B	182	LYS	4.7
1	A	26	ASP	4.4
1	B	202	ILE	4.3
1	B	152	LEU	4.0
1	A	160	ILE	3.9
1	A	45	THR	3.6
1	B	30	THR	3.3
1	B	185	VAL	3.3
1	A	63	GLN	3.2
1	B	29	ARG	3.1
1	A	155	GLY	3.0
1	A	164	ASN	2.7
1	A	113	PRO	2.7
1	A	158	LYS	2.7
1	B	129	LEU	2.6
1	B	186	VAL	2.6
1	A	166	THR	2.5
1	B	170	LEU	2.4
1	B	61	ASN	2.4
1	B	6	GLN	2.4
1	B	27	LYS	2.4
1	B	199	THR	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	195	GLY	2.3
1	A	134	ASP	2.2
1	A	6	GLN	2.2
1	B	150	GLY	2.1
1	A	154	ASP	2.1
1	B	119	GLY	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.