



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 07:50 AM UTC

PDB ID : 8PX1 / pdb_00008px1
Title : Structure of salmonella effector SseK3, solved at wavelength 2.75 Å
Authors : El Omari, K.; Duman, R.; Mykhaylyk, V.; Orr, C.M.; Esposito, D.; Rittinger, K.; Wagner, A.
Deposited on : 2023-07-22
Resolution : 2.10 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 : 4-5-2 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

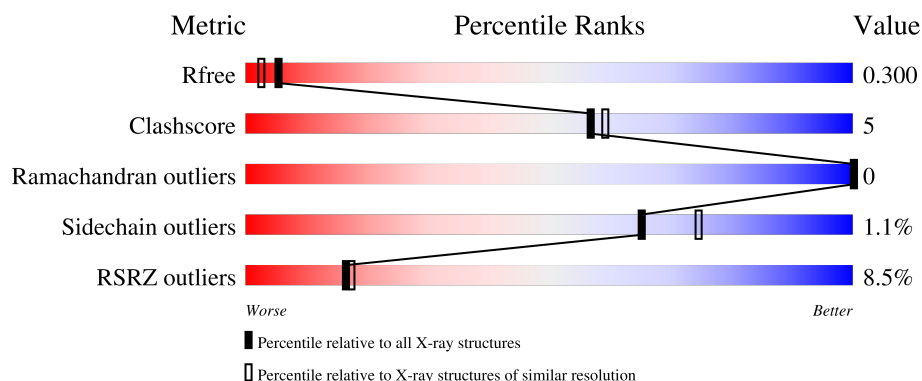
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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 $\leq 5\%$. 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	9% 84% 11% .
1	B	320	6% 87% 9% .
1	C	320	7% 84% 12% .
1	D	320	10% 85% 10% .

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 9913 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 Non-LEE encoded effector protein NleB.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	306	Total	C	N	O	S	Se	0	0	0
			2439	1553	420	456	5	5			
1	B	306	Total	C	N	O	S	Se	0	0	0
			2439	1553	420	456	5	5			
1	C	306	Total	C	N	O	S	Se	0	0	0
			2439	1553	420	456	5	5			
1	D	306	Total	C	N	O	S	Se	0	0	0
			2439	1553	420	456	5	5			

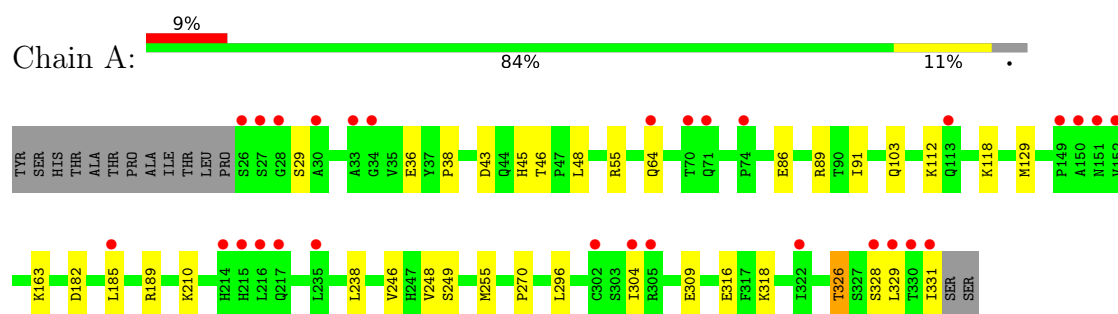
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	31	Total	O	0	0
			31	31		
2	B	33	Total	O	0	0
			33	33		
2	C	49	Total	O	0	0
			49	49		
2	D	44	Total	O	0	0
			44	44		

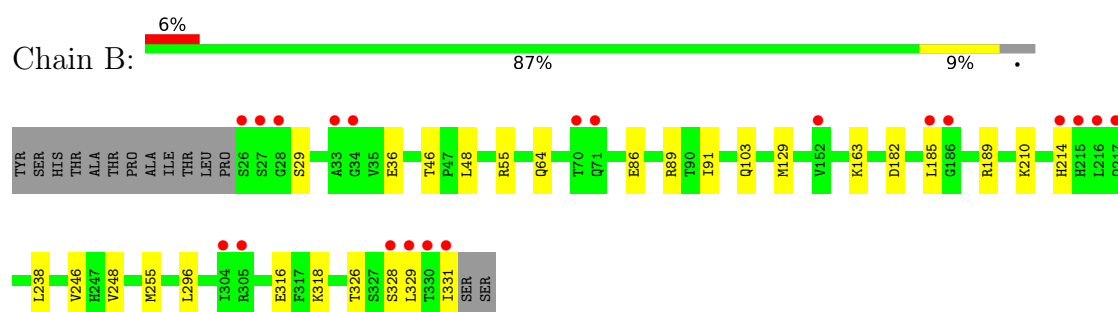
3 Residue-property plots [i](#)

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.

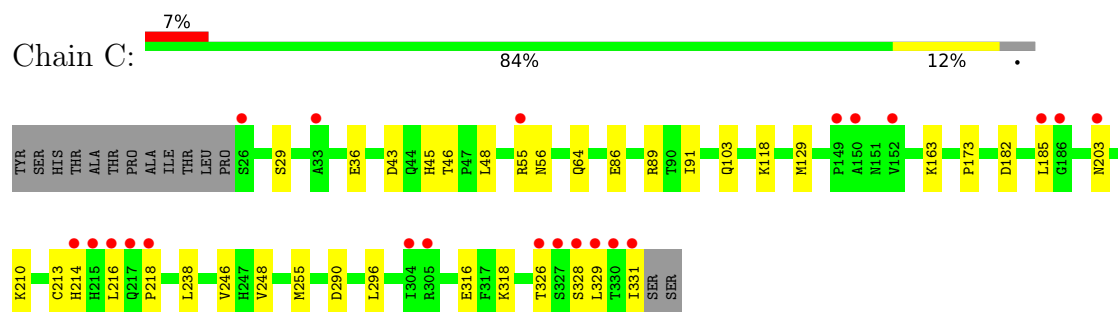
- Molecule 1: Non-LEE encoded effector protein NleB



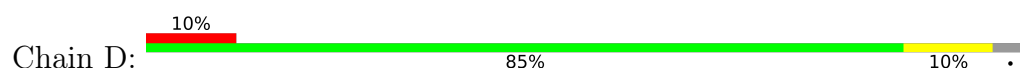
- Molecule 1: Non-LEE encoded effector protein NleB

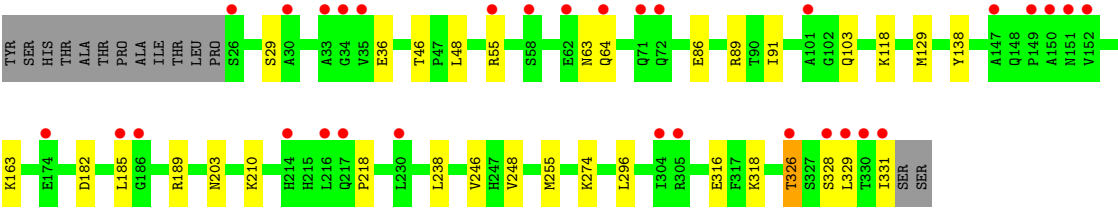


- Molecule 1: Non-LEE encoded effector protein NleB



- Molecule 1: Non-LEE encoded effector protein NleB





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	96.08Å 75.02Å 101.89Å 90.00° 109.52° 90.00°	Depositor
Resolution (Å)	49.93 – 2.10 49.93 – 2.10	Depositor EDS
% Data completeness (in resolution range)	77.6 (49.93-2.10) 77.6 (49.93-2.10)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.97 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.252 , 0.293 0.257 , 0.300	Depositor DCC
R_{free} test set	2978 reflections (3.73%)	wwPDB-VP
Wilson B-factor (Å ²)	33.5	Xtriage
Anisotropy	0.704	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 26.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9913	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 47.53 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 9.7961e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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	0.92	0/2490	1.14	0/3354
1	B	0.94	0/2490	1.14	0/3354
1	C	0.96	0/2490	1.13	0/3354
1	D	0.94	0/2490	1.13	0/3354
All	All	0.94	0/9960	1.14	0/13416

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	2439	0	2398	23	1
1	B	2439	0	2398	18	0
1	C	2439	0	2398	26	0
1	D	2439	0	2398	23	0
2	A	31	0	0	4	0
2	B	33	0	0	4	0
2	C	49	0	0	7	0
2	D	44	0	0	6	0
All	All	9913	0	9592	89	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 5.

All (89) 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:C:214:HIS:CD2	2:C:446:HOH:O	2.26	0.88
1:C:214:HIS:O	2:C:401:HOH:O	1.91	0.88
1:A:326:THR:HG21	2:A:426:HOH:O	1.74	0.87
1:C:173:PRO:O	2:C:402:HOH:O	1.95	0.84
1:B:214:HIS:CD2	2:B:412:HOH:O	2.38	0.76
1:C:86:GLU:OE1	2:C:403:HOH:O	2.05	0.74
1:B:214:HIS:HD2	2:B:412:HOH:O	1.71	0.73
1:D:203:ASN:ND2	2:D:401:HOH:O	2.07	0.69
1:C:331:ILE:O	1:C:331:ILE:HG22	1.97	0.65
1:D:331:ILE:HG22	1:D:331:ILE:O	2.00	0.62
1:B:189:ARG:HD2	2:B:402:HOH:O	2.00	0.61
1:B:29:SER:OG	1:B:36:GLU:OE1	2.18	0.61
1:A:29:SER:OG	1:A:36:GLU:OE1	2.17	0.61
1:B:331:ILE:HG22	1:B:331:ILE:O	1.99	0.60
1:A:331:ILE:HG22	1:A:331:ILE:O	2.01	0.59
1:D:29:SER:OG	1:D:36:GLU:OE1	2.19	0.59
1:D:218:PRO:O	2:D:403:HOH:O	2.17	0.57
1:C:29:SER:OG	1:C:36:GLU:OE1	2.18	0.56
1:D:274:LYS:NZ	2:D:407:HOH:O	2.33	0.55
1:C:214:HIS:HD2	2:C:446:HOH:O	1.72	0.54
1:D:138:TYR:OH	2:D:402:HOH:O	2.14	0.54
1:C:203:ASN:ND2	2:C:404:HOH:O	2.08	0.51
1:A:189:ARG:NH1	2:A:403:HOH:O	2.41	0.51
1:A:48:LEU:HB2	1:A:91:ILE:HD13	1.93	0.51
1:A:38:PRO:HD2	2:A:422:HOH:O	2.11	0.50
1:B:86:GLU:OE1	2:B:401:HOH:O	2.18	0.49
1:C:248:VAL:HG11	1:C:255:MSE:HE2	1.94	0.49
1:C:328:SER:HB2	1:C:329:LEU:HD12	1.94	0.49
1:C:48:LEU:HB2	1:C:91:ILE:HD13	1.93	0.49
1:A:328:SER:HB2	1:A:329:LEU:HD12	1.94	0.49
1:B:328:SER:HB2	1:B:329:LEU:HD12	1.95	0.49
1:D:328:SER:HB2	1:D:329:LEU:HD12	1.95	0.49
1:A:248:VAL:HG11	1:A:255:MSE:HE2	1.95	0.47
1:A:316:GLU:HG2	1:A:318:LYS:HG3	1.96	0.47
1:B:316:GLU:HG2	1:B:318:LYS:HG3	1.96	0.47
1:C:316:GLU:HG2	1:C:318:LYS:HG3	1.96	0.47
1:A:55:ARG:CZ	1:A:185:LEU:HA	2.45	0.47
1:B:48:LEU:HB2	1:B:91:ILE:HD13	1.95	0.47
1:D:316:GLU:HG2	1:D:318:LYS:HG3	1.97	0.47
1:C:46:THR:O	1:C:89:ARG:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:55:ARG:CZ	1:B:185:LEU:HA	2.45	0.47
1:C:246:VAL:HG11	1:C:296:LEU:HD11	1.97	0.47
1:D:55:ARG:CZ	1:D:185:LEU:HA	2.45	0.47
1:D:331:ILE:O	1:D:331:ILE:CG2	2.63	0.47
1:B:248:VAL:HG11	1:B:255:MSE:HE2	1.97	0.46
1:C:55:ARG:CZ	1:C:185:LEU:HA	2.45	0.46
1:C:331:ILE:O	1:C:331:ILE:CG2	2.64	0.46
1:D:48:LEU:HB2	1:D:91:ILE:HD13	1.98	0.46
1:D:248:VAL:HG11	1:D:255:MSE:HE2	1.97	0.46
1:A:331:ILE:O	1:A:331:ILE:CG2	2.63	0.46
1:A:86:GLU:OE1	2:A:401:HOH:O	2.20	0.45
1:A:246:VAL:HG11	1:A:296:LEU:HD11	1.99	0.45
1:B:331:ILE:O	1:B:331:ILE:CG2	2.64	0.45
1:C:290:ASP:OD1	2:C:405:HOH:O	2.20	0.45
1:A:163:LYS:HB2	1:A:163:LYS:HE3	1.61	0.45
1:D:46:THR:O	1:D:89:ARG:HD3	2.17	0.45
1:B:129:MSE:H	1:B:129:MSE:SE	2.50	0.44
1:D:189:ARG:NH1	2:D:405:HOH:O	2.30	0.44
1:D:210:LYS:HD3	1:D:210:LYS:HA	1.76	0.44
1:A:46:THR:O	1:A:89:ARG:HD3	2.17	0.44
1:B:46:THR:O	1:B:89:ARG:HD3	2.17	0.44
1:A:118:LYS:HB3	1:A:210:LYS:HD2	1.99	0.44
1:B:210:LYS:HA	1:B:210:LYS:HD3	1.76	0.44
1:B:246:VAL:HG11	1:B:296:LEU:HD11	2.00	0.44
1:D:326:THR:HB	2:D:439:HOH:O	2.16	0.44
1:A:129:MSE:H	1:A:129:MSE:SE	2.51	0.43
1:C:129:MSE:H	1:C:129:MSE:SE	2.51	0.43
1:B:163:LYS:HB2	1:B:163:LYS:HE3	1.62	0.43
1:D:118:LYS:HB3	1:D:210:LYS:HD2	2.00	0.43
1:D:129:MSE:H	1:D:129:MSE:SE	2.52	0.43
1:A:270:PRO:HB3	1:D:63:ASN:HD21	1.83	0.43
1:A:210:LYS:HA	1:A:210:LYS:HD3	1.76	0.43
1:C:210:LYS:HA	1:C:210:LYS:HD3	1.77	0.43
1:A:43:ASP:OD1	1:A:45:HIS:HB2	2.19	0.42
1:C:163:LYS:HB2	1:C:163:LYS:HE3	1.61	0.42
1:D:246:VAL:HG11	1:D:296:LEU:HD11	2.01	0.42
1:A:255:MSE:SE	1:A:309:GLU:HG3	2.70	0.42
1:D:163:LYS:HE3	1:D:163:LYS:HB2	1.63	0.41
1:D:86:GLU:HG3	1:D:89:ARG:HB2	2.02	0.41
1:A:64:GLN:O	1:A:103:GLN:HG2	2.20	0.41
1:A:249:SER:O	1:A:255:MSE:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:213:CYS:HB3	1:C:216:LEU:HD13	2.03	0.41
1:B:64:GLN:O	1:B:103:GLN:HG2	2.21	0.41
1:C:203:ASN:OD1	1:C:218:PRO:HA	2.21	0.41
1:D:64:GLN:O	1:D:103:GLN:HG2	2.20	0.41
1:C:64:GLN:O	1:C:103:GLN:HG2	2.20	0.40
1:C:43:ASP:OD1	1:C:45:HIS:HB2	2.21	0.40
1:C:56:ASN:HD22	1:C:56:ASN:HA	1.71	0.40
1:C:118:LYS:HB3	1:C:210:LYS:HD2	2.03	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)
1:A:112:LYS:O	1:A:304:ILE:CG2[2_445]	2.14	0.06

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	304/320 (95%)	299 (98%)	5 (2%)	0	100	100
1	B	304/320 (95%)	298 (98%)	6 (2%)	0	100	100
1	C	304/320 (95%)	300 (99%)	4 (1%)	0	100	100
1	D	304/320 (95%)	300 (99%)	4 (1%)	0	100	100
All	All	1216/1280 (95%)	1197 (98%)	19 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	266/273 (97%)	263 (99%)	3 (1%)	65	74
1	B	266/273 (97%)	263 (99%)	3 (1%)	65	74
1	C	266/273 (97%)	263 (99%)	3 (1%)	65	74
1	D	266/273 (97%)	263 (99%)	3 (1%)	65	74
All	All	1064/1092 (97%)	1052 (99%)	12 (1%)	65	74

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	182	ASP
1	A	238	LEU
1	A	326	THR
1	B	182	ASP
1	B	238	LEU
1	B	326	THR
1	C	182	ASP
1	C	238	LEU
1	C	326	THR
1	D	182	ASP
1	D	238	LEU
1	D	326	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	56	ASN
1	A	63	ASN
1	A	148	GLN
1	A	172	ASN
1	B	56	ASN
1	B	63	ASN
1	B	73	ASN

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Mol	Chain	Res	Type
1	B	81	ASN
1	B	148	GLN
1	B	172	ASN
1	C	56	ASN
1	C	63	ASN
1	C	81	ASN
1	C	148	GLN
1	C	172	ASN
1	C	214	HIS
1	C	215	HIS
1	D	56	ASN
1	D	63	ASN
1	D	172	ASN

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	301/320 (94%)	0.77	29 (9%)	13 14	22, 44, 74, 130	0
1	B	301/320 (94%)	0.61	20 (6%)	24 26	23, 41, 71, 112	0
1	C	301/320 (94%)	0.64	22 (7%)	21 22	23, 40, 74, 110	0
1	D	301/320 (94%)	0.73	31 (10%)	12 12	26, 43, 81, 105	0
All	All	1204/1280 (94%)	0.69	102 (8%)	16 17	22, 42, 76, 130	0

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	331	ILE	5.9
1	B	331	ILE	5.8
1	C	331	ILE	5.1
1	A	304	ILE	5.0
1	B	304	ILE	4.9
1	D	304	ILE	4.7
1	C	330	THR	4.7
1	D	331	ILE	4.6
1	D	34	GLY	4.4
1	A	152	VAL	4.3
1	B	216	LEU	4.0
1	D	150	ALA	4.0
1	B	214	HIS	4.0
1	C	214	HIS	4.0
1	C	152	VAL	3.8
1	A	216	LEU	3.8
1	B	152	VAL	3.6
1	C	304	ILE	3.6
1	A	214	HIS	3.6
1	A	150	ALA	3.5
1	A	27	SER	3.5

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Mol	Chain	Res	Type	RSRZ
1	D	33	ALA	3.5
1	D	26	SER	3.5
1	A	30	ALA	3.4
1	D	330	THR	3.4
1	C	216	LEU	3.4
1	A	330	THR	3.4
1	D	152	VAL	3.3
1	B	27	SER	3.2
1	B	26	SER	3.2
1	C	329	LEU	3.2
1	C	305	ARG	3.2
1	A	34	GLY	3.1
1	B	330	THR	3.1
1	C	33	ALA	3.1
1	C	26	SER	3.1
1	C	150	ALA	3.1
1	A	329	LEU	3.1
1	B	305	ARG	3.0
1	B	28	GLY	3.0
1	D	151	ASN	2.9
1	C	186	GLY	2.9
1	A	305	ARG	2.9
1	A	217	GLN	2.9
1	C	185	LEU	2.9
1	D	217	GLN	2.9
1	A	151	ASN	2.9
1	B	33	ALA	2.9
1	B	71	GLN	2.8
1	D	216	LEU	2.8
1	A	33	ALA	2.8
1	C	328	SER	2.8
1	D	305	ARG	2.7
1	A	26	SER	2.7
1	D	174	GLU	2.7
1	D	214	HIS	2.7
1	A	71	GLN	2.6
1	C	326	THR	2.6
1	C	215	HIS	2.5
1	A	215	HIS	2.5
1	B	34	GLY	2.5
1	D	62	GLU	2.4
1	A	328	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	149	PRO	2.4
1	D	35	VAL	2.4
1	D	329	LEU	2.3
1	A	322	ILE	2.3
1	B	329	LEU	2.3
1	B	328	SER	2.3
1	D	101	ALA	2.3
1	D	147	ALA	2.3
1	D	149	PRO	2.3
1	A	302	CYS	2.3
1	D	185	LEU	2.3
1	D	326	THR	2.2
1	C	203	ASN	2.2
1	C	55	ARG	2.2
1	B	215	HIS	2.2
1	D	72	GLN	2.2
1	D	230	LEU	2.2
1	D	58	SER	2.2
1	D	71	GLN	2.1
1	C	217	GLN	2.1
1	D	55	ARG	2.1
1	A	185	LEU	2.1
1	C	327	SER	2.1
1	D	328	SER	2.1
1	B	217	GLN	2.1
1	A	235	LEU	2.0
1	B	185	LEU	2.0
1	A	64	GLN	2.0
1	A	113	GLN	2.0
1	C	149	PRO	2.0
1	D	186	GLY	2.0
1	D	30	ALA	2.0
1	D	64	GLN	2.0
1	A	70	THR	2.0
1	A	74	PRO	2.0
1	B	70	THR	2.0
1	C	218	PRO	2.0
1	A	28	GLY	2.0
1	B	186	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.