



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 7, 2024 – 10:48 pm GMT

PDB ID : 5OCN
Title : Crystal structure of the forkhead domain of human FOXN1
Authors : Newman, J.A.; Aitkenhead, H.; Pinkas, D.M.; von Delft, F.; Arrowsmith, C.H.; Edwards, A.; Bountra, C.; Gileadi, O.
Deposited on : 2017-07-03
Resolution : 2.70 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 : 2.36
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) : 2.36

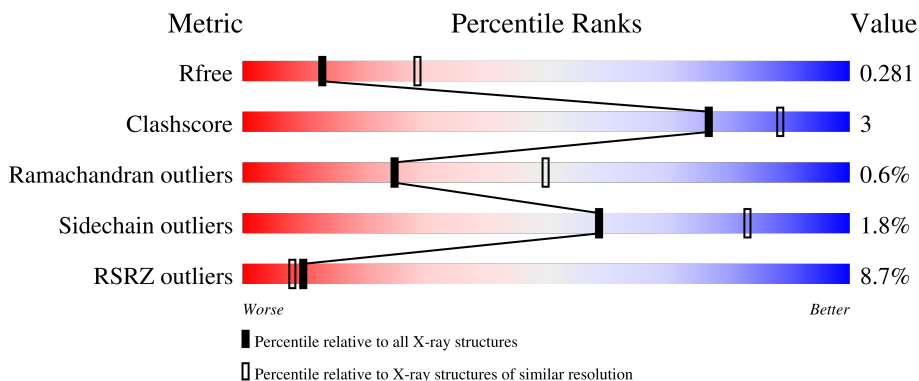
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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.



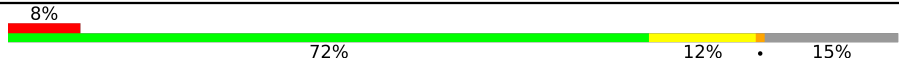
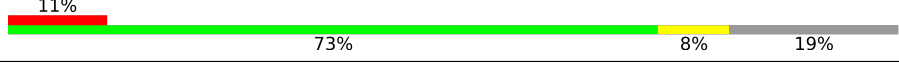

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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	99	<div style="display: flex; align-items: center;"> <div style="width: 6%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 82%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 5%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 13%; height: 10px; background-color: grey;"></div> </div>
1	B	99	<div style="display: flex; align-items: center;"> <div style="width: 4%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 79%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 9%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: grey;"></div> </div>
1	C	99	<div style="display: flex; align-items: center;"> <div style="width: 4%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 81%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 16%; height: 10px; background-color: grey;"></div> </div>
1	D	99	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 70%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: grey;"></div> </div>
1	E	99	<div style="display: flex; align-items: center;"> <div style="width: 10%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 75%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 8%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: grey;"></div> </div>

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Mol	Chain	Length	Quality of chain
1	F	99	 8% 72% 12% 15%
1	G	99	 11% 73% 8% 19%
1	H	99	 10% 72% 8% 19%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5335 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 Forkhead box protein N1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	86	Total 695	C 456	N 112	O 122	S 5	0	0	0
1	B	87	Total 698	C 457	N 113	O 123	S 5	0	0	0
1	C	83	Total 678	C 444	N 110	O 119	S 5	0	0	0
1	D	82	Total 654	C 426	N 105	O 118	S 5	0	0	0
1	E	82	Total 649	C 421	N 105	O 118	S 5	0	0	0
1	F	84	Total 668	C 436	N 107	O 120	S 5	0	0	0
1	G	80	Total 634	C 412	N 105	O 112	S 5	0	0	0
1	H	80	Total 631	C 411	N 100	O 115	S 5	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	268	SER	-	expression tag	UNP O15353
A	269	MET	-	expression tag	UNP O15353
B	268	SER	-	expression tag	UNP O15353
B	269	MET	-	expression tag	UNP O15353
C	268	SER	-	expression tag	UNP O15353
C	269	MET	-	expression tag	UNP O15353
D	268	SER	-	expression tag	UNP O15353
D	269	MET	-	expression tag	UNP O15353
E	268	SER	-	expression tag	UNP O15353
E	269	MET	-	expression tag	UNP O15353
F	268	SER	-	expression tag	UNP O15353
F	269	MET	-	expression tag	UNP O15353
G	268	SER	-	expression tag	UNP O15353

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Chain	Residue	Modelled	Actual	Comment	Reference
G	269	MET	-	expression tag	UNP O15353
H	268	SER	-	expression tag	UNP O15353
H	269	MET	-	expression tag	UNP O15353

- Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total K 1 1	0	0
2	B	1	Total K 1 1	0	0
2	C	1	Total K 1 1	0	0
2	D	1	Total K 1 1	0	0
2	E	1	Total K 1 1	0	0
2	F	1	Total K 1 1	0	0
2	G	1	Total K 1 1	0	0
2	H	1	Total K 1 1	0	0

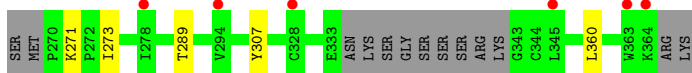
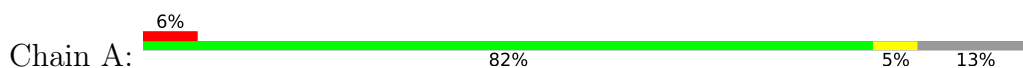
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	8	Total O 8 8	0	0
3	B	5	Total O 5 5	0	0
3	C	2	Total O 2 2	0	0
3	E	3	Total O 3 3	0	0
3	F	1	Total O 1 1	0	0
3	G	1	Total O 1 1	0	0

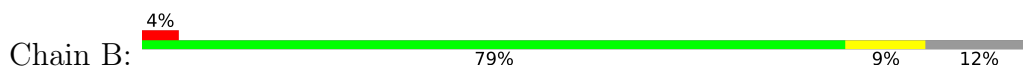
3 Residue-property plots [i](#)

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.

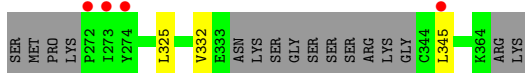
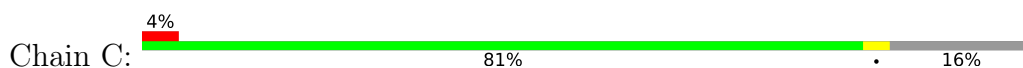
- Molecule 1: Forkhead box protein N1



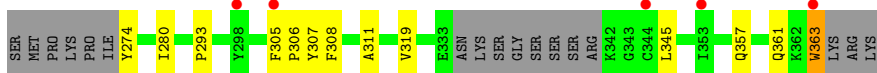
- Molecule 1: Forkhead box protein N1



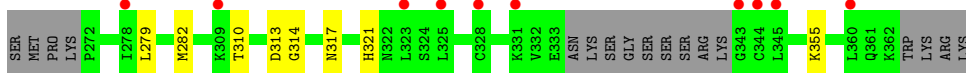
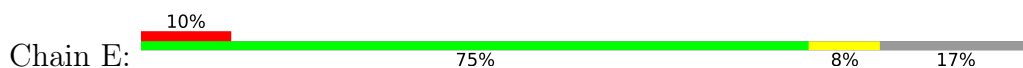
- Molecule 1: Forkhead box protein N1



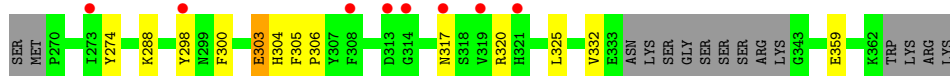
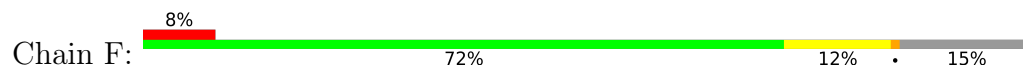
- Molecule 1: Forkhead box protein N1



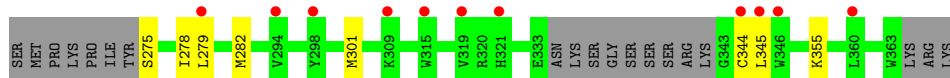
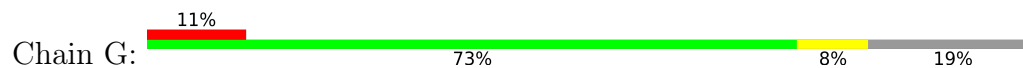
- Molecule 1: Forkhead box protein N1



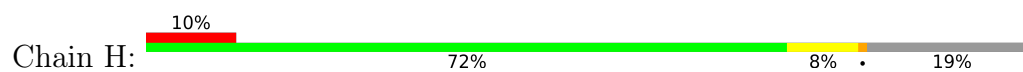
- Molecule 1: Forkhead box protein N1



- Molecule 1: Forkhead box protein N1



- Molecule 1: Forkhead box protein N1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	42.14Å 78.20Å 263.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.91 – 2.70 43.91 – 2.70	Depositor EDS
% Data completeness (in resolution range)	99.3 (43.91-2.70) 99.8 (43.91-2.70)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.58 (at 2.69Å)	Xtrriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
R, R_{free}	0.251 , 0.284 0.250 , 0.281	Depositor DCC
R_{free} test set	1276 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å ²)	66.2	Xtrriage
Anisotropy	0.702	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 56.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5335	wwPDB-VP
Average B, all atoms (Å ²)	90.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.76% 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](#)

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

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	0.24	0/716	0.39	0/968
1	B	0.25	0/719	0.36	0/973
1	C	0.24	0/698	0.37	0/942
1	D	0.27	0/673	0.40	0/913
1	E	0.25	0/665	0.36	0/897
1	F	0.25	0/687	0.38	0/930
1	G	0.24	0/651	0.35	0/880
1	H	0.25	0/649	0.42	0/881
All	All	0.25	0/5458	0.38	0/7384

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	695	0	677	2	0
1	B	698	0	675	5	0
1	C	678	0	663	1	0
1	D	654	0	612	6	0
1	E	649	0	633	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	668	0	643	9	0
1	G	634	0	612	4	0
1	H	631	0	590	5	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
2	G	1	0	0	0	0
2	H	1	0	0	0	0
3	A	8	0	0	0	0
3	B	5	0	0	0	0
3	C	2	0	0	0	0
3	E	3	0	0	1	0
3	F	1	0	0	0	0
3	G	1	0	0	0	0
All	All	5335	0	5105	31	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 3.

All (31) 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:D:305:PHE:O	1:D:307:TYR:N	2.18	0.76
1:B:317:ASN:OD1	1:B:320:ARG:NH2	2.24	0.70
1:F:317:ASN:OD1	1:F:320:ARG:NH2	2.27	0.67
1:D:280:ILE:HD11	1:D:319:VAL:HG13	1.82	0.62
1:B:272:PRO:HG2	1:B:305:PHE:HB3	1.80	0.62
1:H:295:SER:O	1:H:299:ASN:ND2	2.33	0.61
1:G:279:LEU:HA	1:G:282:MET:HE2	1.85	0.57
1:E:279:LEU:HA	1:E:282:MET:HE2	1.87	0.57
1:E:355:LYS:NZ	3:E:501:HOH:O	2.40	0.55
1:F:300:PHE:O	1:F:304:HIS:HB2	2.08	0.53
1:B:288:LYS:HG3	1:B:289:THR:HG23	1.90	0.53
1:A:289:THR:HG22	1:B:330:GLU:HB3	1.92	0.51
1:D:293:PRO:HA	1:D:345:LEU:HA	1.93	0.51
1:F:288:LYS:NZ	1:H:330:GLU:OE1	2.45	0.49
1:F:298:TYR:OH	1:F:320:ARG:NH1	2.46	0.49
1:D:357:GLN:O	1:D:361:GLN:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:344:CYS:SG	1:G:345:LEU:N	2.83	0.46
1:D:308:PHE:HA	1:D:311:ALA:HB2	2.00	0.44
1:F:332:VAL:HG12	1:H:289:THR:HB	1.98	0.44
1:C:332:VAL:HG22	1:C:345:LEU:HB2	1.99	0.44
1:D:274:TYR:HA	1:D:363:TRP:HZ2	1.83	0.43
1:E:355:LYS:HD2	1:F:325:LEU:HD13	2.01	0.43
1:G:355:LYS:HE3	1:G:355:LYS:HB2	1.82	0.43
1:H:312:PRO:O	1:H:315:TRP:HD1	2.01	0.43
1:A:271:LYS:HG2	1:A:307:TYR:CZ	2.55	0.42
1:E:321:HIS:ND1	1:F:359:GLU:OE2	2.53	0.42
1:F:305:PHE:HA	1:F:306:PRO:HD2	1.96	0.42
1:F:303:GLU:O	1:F:303:GLU:HG3	2.18	0.41
1:G:275:SER:HB3	1:G:278:ILE:HG12	2.03	0.41
1:B:357:GLN:O	1:B:361:GLN:HG2	2.21	0.41
1:H:293:PRO:O	1:H:297:ILE:HG13	2.21	0.41

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	82/99 (83%)	81 (99%)	0	1 (1%)	13	32
1	B	83/99 (84%)	81 (98%)	2 (2%)	0	100	100
1	C	79/99 (80%)	79 (100%)	0	0	100	100
1	D	78/99 (79%)	77 (99%)	0	1 (1%)	12	30
1	E	78/99 (79%)	75 (96%)	2 (3%)	1 (1%)	12	30
1	F	80/99 (81%)	77 (96%)	3 (4%)	0	100	100
1	G	76/99 (77%)	71 (93%)	5 (7%)	0	100	100
1	H	76/99 (77%)	74 (97%)	1 (1%)	1 (1%)	12	30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	632/792 (80%)	615 (97%)	13 (2%)	4 (1%)	25 50

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	306	PRO
1	H	313	ASP
1	A	273	ILE
1	E	314	GLY

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	75/91 (82%)	74 (99%)	1 (1%)	69 87
1	B	75/91 (82%)	75 (100%)	0	100 100
1	C	74/91 (81%)	73 (99%)	1 (1%)	67 86
1	D	69/91 (76%)	68 (99%)	1 (1%)	67 86
1	E	71/91 (78%)	68 (96%)	3 (4%)	30 58
1	F	72/91 (79%)	70 (97%)	2 (3%)	43 73
1	G	68/91 (75%)	67 (98%)	1 (2%)	65 86
1	H	67/91 (74%)	66 (98%)	1 (2%)	65 86
All	All	571/728 (78%)	561 (98%)	10 (2%)	59 83

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	360	LEU
1	C	325	LEU
1	D	363	TRP
1	E	310	THR
1	E	313	ASP
1	E	317	ASN

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Mol	Chain	Res	Type
1	F	274	TYR
1	F	303	GLU
1	G	301	MET
1	H	313	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	317	ASN
1	C	357	GLN
1	C	361	GLN
1	D	299	ASN
1	D	357	GLN
1	E	317	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 8 are 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, 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	86/99 (86%)	0.57	6 (6%) 16 14	46, 69, 115, 129	0
1	B	87/99 (87%)	0.53	4 (4%) 32 31	48, 69, 123, 156	0
1	C	83/99 (83%)	0.72	4 (4%) 30 28	44, 64, 105, 177	0
1	D	82/99 (82%)	0.75	5 (6%) 21 20	56, 83, 127, 156	0
1	E	82/99 (82%)	0.89	10 (12%) 4 3	64, 97, 175, 188	0
1	F	84/99 (84%)	0.98	8 (9%) 8 6	73, 100, 156, 205	0
1	G	80/99 (80%)	0.82	11 (13%) 2 2	56, 94, 167, 186	0
1	H	80/99 (80%)	0.91	10 (12%) 3 3	68, 99, 163, 183	0
All	All	664/792 (83%)	0.77	58 (8%) 10 8	44, 86, 155, 205	0

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	298	TYR	5.6
1	E	344	CYS	5.1
1	F	317	ASN	4.7
1	H	294	VAL	4.4
1	C	273	ILE	4.4
1	E	309	LYS	4.1
1	G	298	TYR	3.8
1	G	360	LEU	3.8
1	F	321	HIS	3.7
1	E	325	LEU	3.7
1	G	279	LEU	3.7
1	F	308	PHE	3.3
1	H	311	ALA	3.3
1	A	363	TRP	3.1
1	G	344	CYS	3.1
1	G	321	HIS	2.9

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Mol	Chain	Res	Type	RSRZ
1	C	272	PRO	2.9
1	C	274	TYR	2.9
1	E	345	LEU	2.8
1	F	298	TYR	2.8
1	G	346	TRP	2.8
1	E	278	ILE	2.8
1	G	319	VAL	2.8
1	A	328	CYS	2.7
1	H	343	GLY	2.6
1	D	344	CYS	2.6
1	E	323	LEU	2.6
1	A	345	LEU	2.5
1	A	294	VAL	2.5
1	H	310	THR	2.5
1	G	315	TRP	2.5
1	B	361	GLN	2.5
1	E	343	GLY	2.4
1	E	328	CYS	2.4
1	D	305	PHE	2.4
1	C	345	LEU	2.3
1	D	298	TYR	2.2
1	F	314	GLY	2.2
1	D	353	ILE	2.2
1	B	342	LYS	2.2
1	H	297	ILE	2.2
1	B	294	VAL	2.1
1	H	284	LEU	2.1
1	E	360	LEU	2.1
1	H	278	ILE	2.1
1	A	278	ILE	2.1
1	F	313	ASP	2.1
1	H	296	GLU	2.1
1	G	294	VAL	2.1
1	H	358	GLU	2.1
1	B	321	HIS	2.1
1	G	345	LEU	2.1
1	E	331	LYS	2.0
1	D	363	TRP	2.0
1	F	273	ILE	2.0
1	A	364	LYS	2.0
1	F	319	VAL	2.0
1	G	309	LYS	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 monosaccharides in this entry.

6.4 Ligands [i](#)

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, 95th 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(\AA^2)	Q<0.9
2	K	F	401	1/1	0.88	0.14	82,82,82,82	0
2	K	D	401	1/1	0.89	0.14	69,69,69,69	0
2	K	C	401	1/1	0.91	0.11	63,63,63,63	0
2	K	A	401	1/1	0.91	0.36	112,112,112,112	0
2	K	B	401	1/1	0.91	0.11	57,57,57,57	0
2	K	G	401	1/1	0.92	0.14	94,94,94,94	0
2	K	H	401	1/1	0.92	0.20	80,80,80,80	0
2	K	E	401	1/1	0.93	0.10	74,74,74,74	0

6.5 Other polymers [i](#)

There are no such residues in this entry.