



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 06:40 PM UTC

PDB ID : 5D0K / pdb_00005d0k
Title : Structure of UbE2D2:RNF165:Ub complex
Authors : Wright, J.D.; Day, C.L.; Mace, P.D.
Deposited on : 2015-08-03
Resolution : 2.65 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

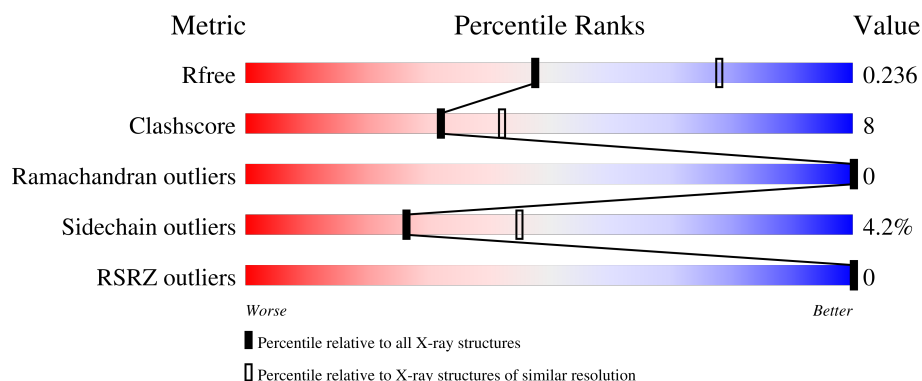
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.65 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	1110 (2.66-2.66)
Clashscore	190562	1141 (2.66-2.66)
Ramachandran outliers	187476	1126 (2.66-2.66)
Sidechain outliers	187428	1126 (2.66-2.66)
RSRZ outliers	180081	1110 (2.66-2.66)

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	152	
1	D	152	
1	G	152	
1	J	152	
2	C	92	

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Mol	Chain	Length	Quality of chain
2	F	92	
2	I	92	
2	L	92	
3	B	76	
3	E	76	
3	H	76	
3	K	76	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9395 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 Ubiquitin-conjugating enzyme E2 D2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	148	Total	C	N	O	S	0	2	0
			1189	762	203	220	4			
1	D	148	Total	C	N	O	S	0	3	0
			1192	764	203	221	4			
1	G	148	Total	C	N	O	S	0	3	0
			1192	764	203	221	4			
1	J	148	Total	C	N	O	S	0	3	0
			1192	764	203	221	4			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	expression tag	UNP P62837
A	-3	PRO	-	expression tag	UNP P62837
A	-2	LEU	-	expression tag	UNP P62837
A	-1	GLY	-	expression tag	UNP P62837
A	0	SER	-	expression tag	UNP P62837
A	21	SER	CYS	engineered mutation	UNP P62837
A	85	LYS	CYS	engineered mutation	UNP P62837
A	107	SER	CYS	engineered mutation	UNP P62837
A	111	SER	CYS	engineered mutation	UNP P62837
D	-4	GLY	-	expression tag	UNP P62837
D	-3	PRO	-	expression tag	UNP P62837
D	-2	LEU	-	expression tag	UNP P62837
D	-1	GLY	-	expression tag	UNP P62837
D	0	SER	-	expression tag	UNP P62837
D	21	SER	CYS	engineered mutation	UNP P62837
D	85	LYS	CYS	engineered mutation	UNP P62837
D	107	SER	CYS	engineered mutation	UNP P62837
D	111	SER	CYS	engineered mutation	UNP P62837
G	-4	GLY	-	expression tag	UNP P62837
G	-3	PRO	-	expression tag	UNP P62837
G	-2	LEU	-	expression tag	UNP P62837

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-1	GLY	-	expression tag	UNP P62837
G	0	SER	-	expression tag	UNP P62837
G	21	SER	CYS	engineered mutation	UNP P62837
G	85	LYS	CYS	engineered mutation	UNP P62837
G	107	SER	CYS	engineered mutation	UNP P62837
G	111	SER	CYS	engineered mutation	UNP P62837
J	-4	GLY	-	expression tag	UNP P62837
J	-3	PRO	-	expression tag	UNP P62837
J	-2	LEU	-	expression tag	UNP P62837
J	-1	GLY	-	expression tag	UNP P62837
J	0	SER	-	expression tag	UNP P62837
J	21	SER	CYS	engineered mutation	UNP P62837
J	85	LYS	CYS	engineered mutation	UNP P62837
J	107	SER	CYS	engineered mutation	UNP P62837
J	111	SER	CYS	engineered mutation	UNP P62837

- Molecule 2 is a protein called RING finger protein 165.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	69	Total	C	N	O	S	0	0	0
			566	358	99	100	9			
2	F	68	Total	C	N	O	S	0	0	0
			549	348	93	99	9			
2	I	68	Total	C	N	O	S	0	0	0
			562	354	98	101	9			
2	L	68	Total	C	N	O	S	0	0	0
			562	354	98	101	9			

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	250	GLY	-	expression tag	UNP Q6ZSG1
C	251	PRO	-	expression tag	UNP Q6ZSG1
C	252	LEU	-	expression tag	UNP Q6ZSG1
C	253	GLY	-	expression tag	UNP Q6ZSG1
C	254	SER	-	expression tag	UNP Q6ZSG1
C	?	-	ARG	deletion	UNP Q6ZSG1
C	?	-	ARG	deletion	UNP Q6ZSG1
C	?	-	PRO	deletion	UNP Q6ZSG1
C	?	-	GLN	deletion	UNP Q6ZSG1
C	?	-	ASP	deletion	UNP Q6ZSG1
F	250	GLY	-	expression tag	UNP Q6ZSG1

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Chain	Residue	Modelled	Actual	Comment	Reference
F	251	PRO	-	expression tag	UNP Q6ZSG1
F	252	LEU	-	expression tag	UNP Q6ZSG1
F	253	GLY	-	expression tag	UNP Q6ZSG1
F	254	SER	-	expression tag	UNP Q6ZSG1
F	?	-	ARG	deletion	UNP Q6ZSG1
F	?	-	ARG	deletion	UNP Q6ZSG1
F	?	-	PRO	deletion	UNP Q6ZSG1
F	?	-	GLN	deletion	UNP Q6ZSG1
F	?	-	ASP	deletion	UNP Q6ZSG1
I	250	GLY	-	expression tag	UNP Q6ZSG1
I	251	PRO	-	expression tag	UNP Q6ZSG1
I	252	LEU	-	expression tag	UNP Q6ZSG1
I	253	GLY	-	expression tag	UNP Q6ZSG1
I	254	SER	-	expression tag	UNP Q6ZSG1
I	?	-	ARG	deletion	UNP Q6ZSG1
I	?	-	ARG	deletion	UNP Q6ZSG1
I	?	-	PRO	deletion	UNP Q6ZSG1
I	?	-	GLN	deletion	UNP Q6ZSG1
I	?	-	ASP	deletion	UNP Q6ZSG1
L	250	GLY	-	expression tag	UNP Q6ZSG1
L	251	PRO	-	expression tag	UNP Q6ZSG1
L	252	LEU	-	expression tag	UNP Q6ZSG1
L	253	GLY	-	expression tag	UNP Q6ZSG1
L	254	SER	-	expression tag	UNP Q6ZSG1
L	?	-	ARG	deletion	UNP Q6ZSG1
L	?	-	ARG	deletion	UNP Q6ZSG1
L	?	-	PRO	deletion	UNP Q6ZSG1
L	?	-	GLN	deletion	UNP Q6ZSG1
L	?	-	ASP	deletion	UNP Q6ZSG1

- Molecule 3 is a protein called Polyubiquitin-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	B	76	Total	C	N	O	S	0	0	0
			595	375	102	117	1			
3	E	76	Total	C	N	O	S	0	0	0
			595	375	102	117	1			
3	H	76	Total	C	N	O	S	0	0	0
			595	375	102	117	1			
3	K	76	Total	C	N	O	S	0	0	0
			595	375	102	117	1			

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	2	Total 2	Zn 2	0	0
4	F	2	Total 2	Zn 2	0	0
4	I	2	Total 2	Zn 2	0	0
4	L	2	Total 2	Zn 2	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	L	1	Total 1	O 1	0	0
5	E	1	Total 1	O 1	0	0
5	H	1	Total 1	O 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: Ubiquitin-conjugating enzyme E2 D2

Chain A:  84% 12% ..



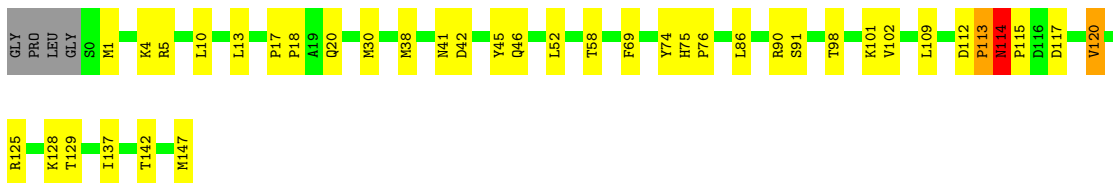
- Molecule 1: Ubiquitin-conjugating enzyme E2 D2

Chain D:  76% 22% .



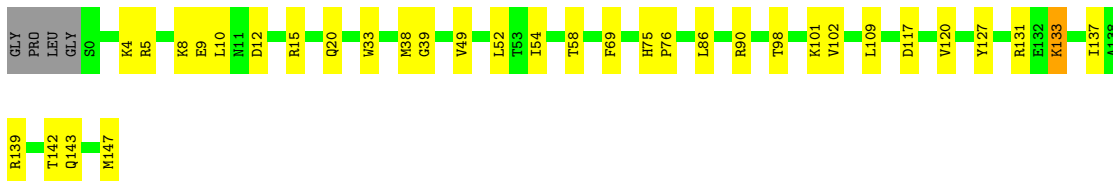
- Molecule 1: Ubiquitin-conjugating enzyme E2 D2

Chain G:  72% 24% ..



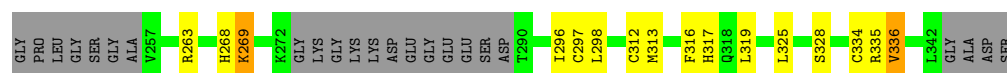
- Molecule 1: Ubiquitin-conjugating enzyme E2 D2

Chain J:  75% 22% ..



- Molecule 2: RING finger protein 165

Chain C:  58% 15% 25%



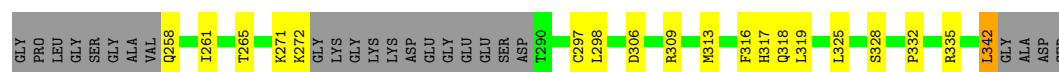
- Molecule 2: RING finger protein 165

Chain F:  54% 18% 26%



- Molecule 2: RING finger protein 165

Chain I:  53% 20% 26%



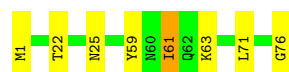
- Molecule 2: RING finger protein 165

Chain L:  49% 24% 26%



- Molecule 3: Polyubiquitin-B

Chain B:  89% 9%



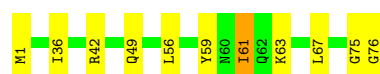
- Molecule 3: Polyubiquitin-B

Chain E:  83% 16%



- Molecule 3: Polyubiquitin-B

Chain H:  86% 13%



- Molecule 3: Polyubiquitin-B

Chain K:

83%

14%

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4 Data and refinement statistics

Property	Value	Source
Space group	P 3	Depositor
Cell constants a, b, c, α , β , γ	113.05Å 113.05Å 135.67Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	35.70 – 2.65 35.70 – 2.65	Depositor EDS
% Data completeness (in resolution range)	99.5 (35.70-2.65) 99.6 (35.70-2.65)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.92 (at 2.65Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.192 , 0.238 0.200 , 0.236	Depositor DCC
R_{free} test set	2834 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	67.5	Xtriage
Anisotropy	0.536	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 34.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.480 for -h,-k,l 0.487 for h,-h-k,-l 0.480 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	9395	wwPDB-VP
Average B, all atoms (Å ²)	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.79% 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 ⓘ

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

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	0.51	0/1231	0.84	2/1677 (0.1%)
1	D	0.58	1/1237 (0.1%)	0.93	4/1685 (0.2%)
1	G	0.55	1/1237 (0.1%)	1.04	6/1685 (0.4%)
1	J	0.54	1/1237 (0.1%)	0.81	0/1685
2	C	0.89	0/576	0.99	1/773 (0.1%)
2	F	0.89	0/559	1.03	0/751
2	I	0.93	0/572	0.96	1/767 (0.1%)
2	L	1.01	0/572	1.10	3/767 (0.4%)
3	B	0.52	0/601	0.85	0/809
3	E	0.62	0/601	0.85	0/809
3	H	0.54	0/601	0.89	0/809
3	K	0.59	0/601	0.95	0/809
All	All	0.66	3/9625 (0.0%)	0.93	17/13026 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	120	VAL	CA-CB	6.54	1.60	1.54
1	G	120	VAL	CA-CB	6.22	1.60	1.54
1	J	120	VAL	CA-CB	5.94	1.59	1.54

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	114	ASN	CA-C-N	14.65	134.35	119.56
1	G	114	ASN	C-N-CA	14.65	134.35	119.56
2	L	333	ILE	N-CA-C	9.20	119.11	110.74
1	D	120	VAL	CA-C-N	7.71	127.26	119.24
1	D	120	VAL	C-N-CA	7.71	127.26	119.24

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	1189	0	1177	13	0
1	D	1192	0	1182	24	0
1	G	1192	0	1182	24	0
1	J	1192	0	1182	18	0
2	C	566	0	563	17	0
2	F	549	0	535	15	0
2	I	562	0	556	10	0
2	L	562	0	556	16	0
3	B	595	0	618	6	0
3	E	595	0	618	10	0
3	H	595	0	618	11	0
3	K	595	0	618	7	0
4	C	2	0	0	0	0
4	F	2	0	0	0	0
4	I	2	0	0	0	0
4	L	2	0	0	0	0
5	E	1	0	0	0	0
5	H	1	0	0	0	0
5	L	1	0	0	0	0
All	All	9395	0	9405	150	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 8.

The worst 5 of 150 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)
2:L:293:LYS:HB2	2:L:300:MET:CE	2.18	0.74
1:D:130:ASP:OD1	1:D:132:GLU:HG2	1.88	0.73
2:L:293:LYS:HB2	2:L:300:MET:HE1	1.72	0.71
3:B:59:TYR:HB2	3:B:61:ILE:HD12	1.72	0.70
1:G:113:PRO:C	1:G:114:ASN:HD22	2.00	0.70

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	148/152 (97%)	145 (98%)	3 (2%)	0	100	100
1	D	149/152 (98%)	145 (97%)	4 (3%)	0	100	100
1	G	149/152 (98%)	147 (99%)	2 (1%)	0	100	100
1	J	149/152 (98%)	147 (99%)	2 (1%)	0	100	100
2	C	65/92 (71%)	62 (95%)	3 (5%)	0	100	100
2	F	64/92 (70%)	60 (94%)	4 (6%)	0	100	100
2	I	64/92 (70%)	63 (98%)	1 (2%)	0	100	100
2	L	64/92 (70%)	62 (97%)	2 (3%)	0	100	100
3	B	74/76 (97%)	71 (96%)	3 (4%)	0	100	100
3	E	74/76 (97%)	73 (99%)	1 (1%)	0	100	100
3	H	74/76 (97%)	72 (97%)	2 (3%)	0	100	100
3	K	74/76 (97%)	71 (96%)	3 (4%)	0	100	100
All	All	1148/1280 (90%)	1118 (97%)	30 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	133/134 (99%)	129 (97%)	4 (3%)	36	57
1	D	134/134 (100%)	130 (97%)	4 (3%)	36	57
1	G	134/134 (100%)	128 (96%)	6 (4%)	24	42
1	J	134/134 (100%)	127 (95%)	7 (5%)	21	36
2	C	66/81 (82%)	63 (96%)	3 (4%)	24	42
2	F	63/81 (78%)	61 (97%)	2 (3%)	34	55
2	I	66/81 (82%)	61 (92%)	5 (8%)	12	21
2	L	66/81 (82%)	63 (96%)	3 (4%)	24	42
3	B	67/68 (98%)	66 (98%)	1 (2%)	57	75
3	E	67/68 (98%)	65 (97%)	2 (3%)	36	57
3	H	67/68 (98%)	66 (98%)	1 (2%)	57	75
3	K	67/68 (98%)	61 (91%)	6 (9%)	9	14
All	All	1064/1132 (94%)	1020 (96%)	44 (4%)	26	46

5 of 44 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	J	133	LYS
3	E	1	MET
1	J	137	ILE
2	L	302	GLU
3	H	61	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
2	I	323	GLN
1	J	11	ASN
3	K	31	GLN
1	J	20	GLN
1	D	55	HIS

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 oligosaccharides 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 [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	148/152 (97%)	-1.19	0 100 100	44, 76, 104, 122	2 (1%)
1	D	148/152 (97%)	-1.20	0 100 100	45, 76, 106, 131	3 (2%)
1	G	148/152 (97%)	-1.20	0 100 100	44, 75, 103, 114	3 (2%)
1	J	148/152 (97%)	-1.20	0 100 100	42, 74, 106, 123	3 (2%)
2	C	69/92 (75%)	-1.09	0 100 100	55, 77, 105, 110	0
2	F	68/92 (73%)	-1.12	0 100 100	56, 77, 102, 115	0
2	I	68/92 (73%)	-1.12	0 100 100	56, 76, 105, 112	0
2	L	68/92 (73%)	-1.19	0 100 100	59, 77, 104, 120	0
3	B	76/76 (100%)	-1.41	0 100 100	54, 71, 96, 108	0
3	E	76/76 (100%)	-1.42	0 100 100	55, 72, 96, 108	0
3	H	76/76 (100%)	-1.42	0 100 100	55, 70, 93, 108	0
3	K	76/76 (100%)	-1.39	0 100 100	56, 70, 95, 108	0
All	All	1169/1280 (91%)	-1.24	0 100 100	42, 74, 104, 131	11 (0%)

There are no RSRZ outliers to report.

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](#)

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(Å ²)	Q<0.9
4	ZN	C	401	1/1	1.00	0.01	71,71,71,71	0
4	ZN	C	402	1/1	1.00	0.02	60,60,60,60	1
4	ZN	F	401	1/1	1.00	0.02	46,46,46,46	1
4	ZN	F	402	1/1	1.00	0.02	92,92,92,92	0
4	ZN	I	401	1/1	1.00	0.01	49,49,49,49	1
4	ZN	I	402	1/1	1.00	0.01	58,58,58,58	1
4	ZN	L	401	1/1	1.00	0.01	105,105,105,105	0
4	ZN	L	402	1/1	1.00	0.01	59,59,59,59	1

6.5 Other polymers [i](#)

There are no such residues in this entry.