



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 12:28 AM UTC

PDB ID : 6LC1 / pdb_00006lc1
Title : Structural basis of NR4A1 bound to the human pituitary proopiomelanocortin gene promoter
Authors : Jiang, L.; Chen, Y.
Deposited on : 2019-11-16
Resolution : 3.12 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

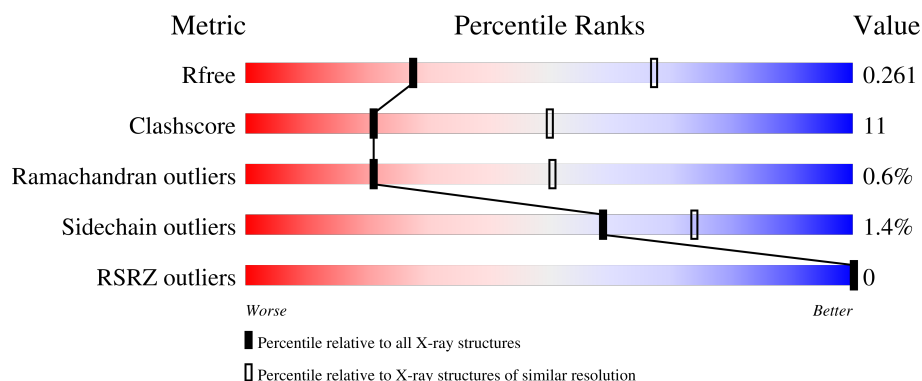
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.12 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	1816 (3.14-3.10)
Clashscore	190562	1906 (3.14-3.10)
Ramachandran outliers	187476	1802 (3.14-3.10)
Sidechain outliers	187428	1802 (3.14-3.10)
RSRZ outliers	180081	1816 (3.14-3.10)

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	F	26	
1	I	26	
2	A	87	
2	D	87	
2	G	87	

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Mol	Chain	Length	Quality of chain
2	J	87	62% 33% • •
3	C	26	62% 35% •
3	L	26	54% 42% •

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4779 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 DNA chain called DNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	I	26	Total	C	N	O	P	0	0	0
			529	254	97	153	25			
1	F	26	Total	C	N	O	P	0	0	0
			532	254	97	155	26			

- Molecule 2 is a protein called Nuclear receptor subfamily 4 group A member 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	J	86	Total	C	N	O	S	0	0	0
			670	408	140	111	11			
2	A	86	Total	C	N	O	S	0	0	0
			675	410	140	114	11			
2	D	86	Total	C	N	O	S	0	0	0
			673	409	140	113	11			
2	G	86	Total	C	N	O	S	0	0	0
			663	404	134	114	11			

- Molecule 3 is a DNA chain called DNA (25-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	L	25	Total	C	N	O	P	0	0	0
			514	245	94	150	25			
3	C	25	Total	C	N	O	P	0	0	0
			515	246	93	151	25			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	J	2	Total	Zn	0	0
			2	2		
4	A	2	Total	Zn	0	0
			2	2		

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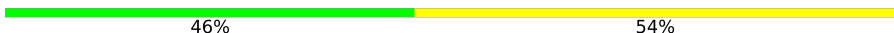
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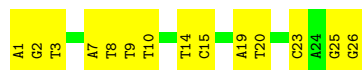
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	2	Total 2	Zn 2	0	0
4	G	2	Total 2	Zn 2	0	0

3 Residue-property plots [i](#)

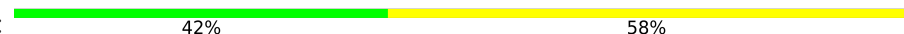
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: DNA

Chain I: 



- Molecule 1: DNA

Chain F: 



- Molecule 2: Nuclear receptor subfamily 4 group A member 1

Chain J: 



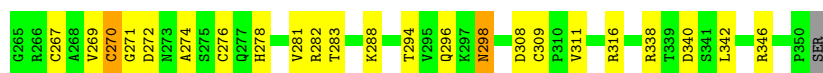
- Molecule 2: Nuclear receptor subfamily 4 group A member 1

Chain A: 



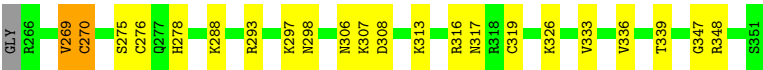
- Molecule 2: Nuclear receptor subfamily 4 group A member 1

Chain D: 

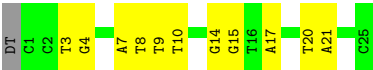


- Molecule 2: Nuclear receptor subfamily 4 group A member 1

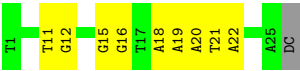
Chain G: 



• Molecule 3: DNA (25-MER)



• Molecule 3: DNA (25-MER)



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	36.82Å 63.21Å 91.76Å 109.98° 90.21° 89.54°	Depositor
Resolution (Å)	29.65 – 3.12 29.65 – 3.12	Depositor EDS
% Data completeness (in resolution range)	92.2 (29.65-3.12) 90.8 (29.65-3.12)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.76 (at 3.11Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, R_{free}	0.209 , 0.268 0.230 , 0.261	Depositor DCC
R_{free} test set	677 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å ²)	87.1	Xtriage
Anisotropy	0.158	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.17 , 28.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.258 for h,-k,-l 0.015 for -h,k,-k-l 0.003 for -h,-k,k+l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4779	wwPDB-VP
Average B, all atoms (Å ²)	93.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.51% 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	F	0.22	0/596	0.40	0/917
1	I	0.22	0/593	0.45	0/913
2	A	0.33	1/683 (0.1%)	0.74	3/908 (0.3%)
2	D	0.22	0/681	0.76	3/905 (0.3%)
2	G	0.74	3/671 (0.4%)	0.97	6/894 (0.7%)
2	J	0.41	0/678	0.77	5/901 (0.6%)
3	C	0.19	0/577	0.45	0/889
3	L	0.24	0/576	0.41	0/887
All	All	0.37	4/5055 (0.1%)	0.65	17/7214 (0.2%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	319	CYS	CA-C	13.41	1.68	1.52
2	G	319	CYS	N-CA	9.35	1.57	1.46
2	G	319	CYS	CA-CB	-6.15	1.43	1.53
2	A	306	ASN	CA-C	-5.81	1.45	1.52

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	269	VAL	N-CA-C	10.74	120.60	111.90
2	G	319	CYS	N-CA-C	-8.30	93.24	108.02
2	J	306	ASN	N-CA-C	6.95	121.21	112.87
2	G	269	VAL	CB-CA-C	-6.68	104.89	111.30
2	G	275	SER	N-CA-CB	-6.57	101.49	110.95
2	J	343	LYS	N-CA-C	-6.39	100.72	110.30
2	D	270	CYS	N-CA-C	-6.20	104.44	112.68
2	G	270	CYS	N-CA-C	-5.71	105.98	113.12
2	G	308	ASP	CB-CA-C	5.67	118.52	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	344	GLY	N-CA-C	5.54	122.71	115.40
2	J	343	LYS	CB-CA-C	5.47	117.67	110.06
2	A	340	ASP	CB-CA-C	-5.41	110.36	116.63
2	D	340	ASP	CB-CA-C	-5.36	110.38	116.54
2	A	308	ASP	N-CA-C	5.31	118.89	111.56
2	J	308	ASP	N-CA-C	-5.26	98.67	108.02
2	D	272	ASP	CB-CA-C	-5.24	101.31	112.63
2	A	306	ASN	N-CA-C	5.13	121.73	110.80

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	F	532	0	294	12	0
1	I	529	0	295	16	0
2	A	675	0	681	13	0
2	D	673	0	678	15	0
2	G	663	0	658	13	0
2	J	670	0	676	21	0
3	C	515	0	284	9	0
3	L	514	0	283	10	0
4	A	2	0	0	0	0
4	D	2	0	0	0	0
4	G	2	0	0	0	0
4	J	2	0	0	0	0
All	All	4779	0	3849	94	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 11.

All (94) 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:J:342:LEU:HD22	2:J:345:ARG:HD2	1.52	0.89
2:J:306:ASN:O	2:J:307:LYS:HB2	1.79	0.82
2:D:269:VAL:O	2:D:311:VAL:HG12	1.81	0.79
2:D:269:VAL:O	2:D:311:VAL:CG1	2.33	0.76
2:J:342:LEU:N	2:J:342:LEU:HD23	2.01	0.75
2:A:347:GLY:HA3	3:C:11:DT:H1'	1.74	0.68
1:I:23:DC:H42	3:L:4:DG:H1	1.40	0.67
1:I:20:DT:H1'	2:J:346:ARG:HG2	1.78	0.66
2:A:348:ARG:NH2	1:F:17:DA:N3	2.45	0.64
2:J:265:GLY:HA3	2:J:273:ASN:HA	1.81	0.63
2:J:342:LEU:HD22	2:J:345:ARG:CD	2.26	0.62
2:G:333:VAL:HB	2:G:336:VAL:HG23	1.80	0.62
2:G:316:ARG:HG3	2:G:317:ASN:ND2	2.16	0.60
3:L:17:DA:N3	2:G:348:ARG:NH2	2.50	0.59
1:I:14:DT:H2''	1:I:15:DC:H5''	1.86	0.58
2:J:338:ARG:HG2	2:J:342:LEU:HB2	1.87	0.57
3:L:20:DT:H2'	3:L:21:DA:C8	2.39	0.57
3:C:21:DT:H1'	2:D:346:ARG:HG2	1.87	0.56
1:I:10:DT:H1'	2:G:347:GLY:HA3	1.86	0.56
2:J:272:ASP:HB3	2:J:284:CYS:SG	2.46	0.56
3:L:9:DT:H2''	3:L:10:DT:C6	2.44	0.53
2:J:309:CYS:HB2	2:J:322:CYS:SG	2.49	0.53
2:J:293:ARG:NH2	3:L:3:DT:OP2	2.38	0.52
2:G:278:HIS:CE1	2:G:288:LYS:HD2	2.44	0.52
2:A:270:CYS:SG	2:A:316:ARG:HD2	2.50	0.52
2:J:342:LEU:O	2:J:343:LYS:C	2.52	0.51
2:D:269:VAL:O	2:D:311:VAL:HG11	2.10	0.51
1:I:3:DT:OP2	2:G:293:ARG:NH2	2.39	0.51
1:I:8:DT:H2'	1:I:9:DT:H71	1.92	0.50
3:L:9:DT:OP1	2:A:341:SER:OG	2.28	0.50
3:C:11:DT:H2'	3:C:12:DG:C8	2.47	0.50
1:F:12:DC:H2'	1:F:13:DC:C6	2.47	0.49
2:D:338:ARG:HB3	2:D:342:LEU:HB3	1.93	0.49
2:A:284:CYS:SG	2:A:285:GLU:N	2.86	0.49
2:J:333:VAL:HG12	2:J:335:GLU:H	1.78	0.49
2:A:333:VAL:HB	2:A:336:VAL:HG23	1.94	0.49
1:F:20:DT:H2'	1:F:21:DG:C8	2.49	0.48
2:G:306:ASN:O	2:G:307:LYS:HB2	2.13	0.48
1:F:9:DT:H2''	1:F:10:DT:H5'	1.95	0.48
2:A:278:HIS:CD2	2:A:288:LYS:HD2	2.50	0.47
3:L:14:DG:H2''	3:L:15:DG:OP2	2.15	0.47
1:F:16:DC:H2'	1:F:17:DA:C8	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:8:DT:C2'	1:I:9:DT:H71	2.46	0.46
1:I:1:DA:C8	1:I:2:DG:N7	2.84	0.46
2:J:306:ASN:O	2:J:307:LYS:CB	2.55	0.46
2:A:338:ARG:HB3	2:A:342:LEU:HB3	1.97	0.46
1:I:1:DA:C8	1:I:2:DG:C5	3.03	0.46
2:A:281:VAL:HG21	2:A:330:VAL:HG23	1.98	0.46
2:D:294:THR:O	2:D:298:ASN:N	2.49	0.46
2:D:267:CYS:HB3	2:D:271:GLY:H	1.80	0.46
2:D:278:HIS:CE1	2:D:288:LYS:HD3	2.51	0.46
3:C:22:DA:OP2	2:D:296:GLN:NE2	2.47	0.45
1:I:25:DG:H2''	1:I:26:DG:C8	2.52	0.45
2:J:294:THR:O	2:J:298:ASN:N	2.45	0.45
2:A:346:ARG:HG2	1:F:20:DT:H1'	1.99	0.44
3:C:19:DA:H2''	3:C:20:DA:C8	2.52	0.44
2:D:270:CYS:SG	2:D:316:ARG:HD3	2.57	0.44
1:I:19:DA:H2'	1:I:20:DT:C6	2.53	0.44
2:G:270:CYS:SG	2:G:316:ARG:HD2	2.57	0.44
2:G:269:VAL:HG13	2:G:326:LYS:HD3	1.99	0.43
1:F:25:DG:C6	1:F:26:DG:C6	3.06	0.43
1:F:24:DA:C6	1:F:25:DG:C6	3.06	0.43
2:J:338:ARG:HG2	2:J:342:LEU:CB	2.47	0.43
1:F:23:DC:H2'	1:F:24:DA:N7	2.34	0.43
2:G:270:CYS:HB3	2:G:313:LYS:HA	2.00	0.43
1:I:7:DA:C2'	1:I:8:DT:H71	2.49	0.43
1:I:8:DT:C6	1:I:9:DT:H71	2.53	0.43
3:L:7:DA:C8	3:L:8:DT:H72	2.53	0.43
3:C:20:DA:H2'	3:C:21:DT:C6	2.54	0.43
2:J:315:ARG:HG2	2:J:318:ARG:NH1	2.34	0.43
2:A:279:TYR:HD1	2:A:336:VAL:HB	1.84	0.43
2:G:297:LYS:O	2:G:298:ASN:C	2.62	0.42
2:J:281:VAL:O	2:J:283:THR:HG23	2.19	0.42
2:J:301:TYR:CD2	2:J:320:GLN:HB3	2.54	0.42
3:C:15:DG:H2''	3:C:16:DG:C8	2.55	0.42
2:J:283:THR:HG21	2:J:332:MET:HE3	2.01	0.42
2:A:278:HIS:HB2	2:A:283:THR:OG1	2.20	0.42
2:G:276:CYS:SG	2:G:278:HIS:NE2	2.93	0.42
1:I:23:DC:N4	3:L:4:DG:H1	2.12	0.42
2:D:308:ASP:O	2:D:309:CYS:C	2.62	0.42
3:C:20:DA:H4'	2:D:338:ARG:CZ	2.50	0.42
2:D:276:CYS:SG	2:D:278:HIS:NE2	2.92	0.42
2:D:274:ALA:HB1	2:D:282:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:347:GLY:HA3	3:L:10:DT:H1'	2.00	0.41
2:A:312:ASP:O	2:A:316:ARG:HB3	2.21	0.41
1:F:1:DA:H2'	1:F:2:DG:C8	2.55	0.41
2:D:281:VAL:O	2:D:283:THR:HG23	2.20	0.41
1:F:22:DC:H2''	1:F:23:DC:C6	2.56	0.41
1:I:8:DT:C6	1:I:9:DT:C7	3.04	0.41
3:C:18:DA:H5'	3:C:18:DA:C8	2.56	0.41
2:G:316:ARG:CG	2:G:317:ASN:ND2	2.82	0.41
1:F:24:DA:C5	1:F:25:DG:C6	3.09	0.40
1:I:1:DA:H8	1:I:1:DA:H2'	1.80	0.40
2:J:274:ALA:HB1	2:J:282:ARG:HG3	2.02	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	
2	A	84/87 (97%)	76 (90%)	7 (8%)	1 (1%)	10	34
2	D	84/87 (97%)	77 (92%)	7 (8%)	0	100	100
2	G	84/87 (97%)	77 (92%)	7 (8%)	0	100	100
2	J	84/87 (97%)	78 (93%)	5 (6%)	1 (1%)	10	34
All	All	336/348 (97%)	308 (92%)	26 (8%)	2 (1%)	21	50

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	306	ASN
2	J	340	ASP

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	
2	A	73/74 (99%)	73 (100%)	0	100	100
2	D	72/74 (97%)	71 (99%)	1 (1%)	59	74
2	G	71/74 (96%)	70 (99%)	1 (1%)	59	74
2	J	71/74 (96%)	69 (97%)	2 (3%)	38	64
All	All	287/296 (97%)	283 (99%)	4 (1%)	59	74

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	J	341	SER
2	J	342	LEU
2	D	298	ASN
2	G	339	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
2	J	317	ASN
2	A	325	GLN
2	D	317	ASN
2	G	317	ASN
2	G	325	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 [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	F	26/26 (100%)	-0.26	0 100 100	71, 94, 117, 122	0
1	I	26/26 (100%)	-0.53	0 100 100	20, 96, 110, 118	0
2	A	86/87 (98%)	-0.76	0 100 100	58, 90, 113, 126	0
2	D	86/87 (98%)	-0.83	0 100 100	60, 90, 114, 129	0
2	G	86/87 (98%)	-0.76	0 100 100	65, 91, 118, 129	0
2	J	86/87 (98%)	-0.78	0 100 100	63, 93, 115, 131	0
3	C	25/26 (96%)	-0.46	0 100 100	74, 91, 112, 125	0
3	L	25/26 (96%)	-0.55	0 100 100	20, 98, 115, 116	0
All	All	446/452 (98%)	-0.71	0 100 100	20, 93, 117, 131	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($\text{\AA}^2$)	Q<0.9
4	ZN	A	402	1/1	0.99	0.02	105,105,105,105	0
4	ZN	J	402	1/1	1.00	0.02	87,87,87,87	0
4	ZN	A	401	1/1	1.00	0.03	81,81,81,81	0
4	ZN	J	401	1/1	1.00	0.03	96,96,96,96	0
4	ZN	D	401	1/1	1.00	0.02	83,83,83,83	0
4	ZN	D	402	1/1	1.00	0.01	98,98,98,98	0
4	ZN	G	401	1/1	1.00	0.02	77,77,77,77	0
4	ZN	G	402	1/1	1.00	0.01	111,111,111,111	0

6.5 Other polymers [i](#)

There are no such residues in this entry.