



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:51 PM UTC

PDB ID : 1JD1 / pdb_00001jd1
Title : Crystal Structure of YEO7_yeast
Authors : Deaconescu, A.M.; Burley, S.K.; New York SGX Research Center for Structural Genomics (NYSGXRC)
Deposited on : 2001-06-12
Resolution : 1.70 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	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

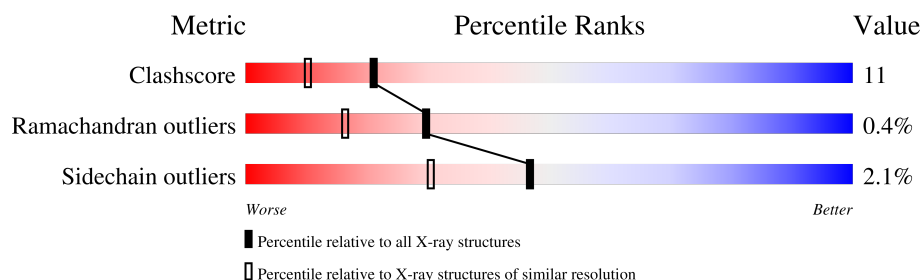
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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))
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)

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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	129	81% 16% ..
1	B	129	75% 20% ..
1	C	129	83% 15% .
1	D	129	75% 20% . .
1	E	129	67% 25% . 5%
1	F	129	81% 15% . .

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 6117 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 HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	126	Total	C	N	O	S	0	0	0
			916	582	155	174	5			
1	B	125	Total	C	N	O	S	0	0	0
			936	594	157	180	5			
1	C	126	Total	C	N	O	S	0	0	0
			940	597	157	181	5			
1	D	124	Total	C	N	O	S	0	0	0
			904	575	153	171	5			
1	E	123	Total	C	N	O	S	0	0	0
			875	556	150	164	5			
1	F	125	Total	C	N	O	S	0	0	0
			912	583	156	168	5			

- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	129	Total	O	0	0
			129	129		
2	B	94	Total	O	0	0
			94	94		
2	C	133	Total	O	0	0
			133	133		
2	D	76	Total	O	0	0
			76	76		
2	E	71	Total	O	0	0
			71	71		
2	F	131	Total	O	0	0
			131	131		

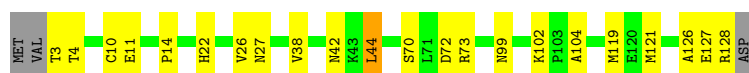
3 Residue-property plots [i](#)

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. 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. 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.

Note EDS was not executed.

- Molecule 1: HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION

Chain A: 



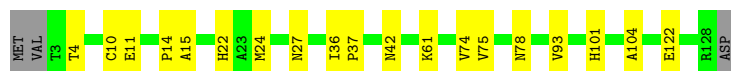
- Molecule 1: HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION

Chain B: 



- Molecule 1: HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION

Chain C: 



- Molecule 1: HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION

Chain D: 

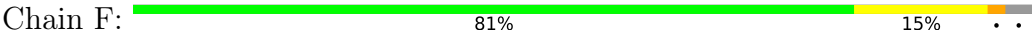


- Molecule 1: HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION

Chain E: 



• Molecule 1: HYPOTHETICAL 13.9 KDA PROTEIN IN FCY2-PET117 INTERGENIC REGION



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	78.18Å 64.10Å 80.85Å 90.00° 90.63° 90.00°	Depositor
Resolution (Å)	50.00 – 1.70	Depositor
% Data completeness (in resolution range)	(Not available) (50.00-1.70)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
Refinement program	CNS	Depositor
R, R_{free}	0.207 , 0.238	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	6117	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

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	0.56	1/932 (0.1%)	0.88	1/1274 (0.1%)
1	B	0.67	1/952 (0.1%)	0.96	5/1297 (0.4%)
1	C	0.62	1/956 (0.1%)	0.87	1/1302 (0.1%)
1	D	0.59	1/920 (0.1%)	0.90	0/1257
1	E	0.61	1/890 (0.1%)	0.89	1/1216 (0.1%)
1	F	0.58	2/928 (0.2%)	0.90	2/1267 (0.2%)
All	All	0.61	7/5578 (0.1%)	0.90	10/7613 (0.1%)

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	121	MET	SD-CE	-11.09	1.51	1.79
1	E	121	MET	SD-CE	-10.84	1.52	1.79
1	D	119	MET	SD-CE	-9.54	1.55	1.79
1	C	24	MET	SD-CE	-6.52	1.63	1.79
1	A	121	MET	SD-CE	-6.49	1.63	1.79
1	F	121	MET	SD-CE	-5.42	1.66	1.79
1	F	24	MET	SD-CE	-5.08	1.66	1.79

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	104	ALA	N-CA-C	-8.52	99.28	110.53
1	C	104	ALA	N-CA-C	-7.80	100.24	110.53
1	F	104	ALA	N-CA-C	-7.07	101.19	110.53
1	E	104	ALA	N-CA-C	-7.02	101.26	110.53
1	B	42	ASN	N-CA-C	6.88	121.04	112.24
1	B	47	GLY	N-CA-C	6.38	128.30	113.18
1	B	104	ALA	N-CA-C	-6.32	102.19	110.53
1	B	46	GLU	N-CA-C	5.99	120.32	111.04
1	F	41	ASP	N-CA-C	-5.26	106.70	113.02
1	B	26	VAL	N-CA-C	-5.03	99.28	107.28

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	916	0	897	15	0
1	B	936	0	940	26	0
1	C	940	0	937	14	0
1	D	904	0	888	26	0
1	E	875	0	834	30	0
1	F	912	0	907	15	0
2	A	129	0	0	4	0
2	B	94	0	0	2	0
2	C	133	0	0	5	0
2	D	76	0	0	4	0
2	E	71	0	0	4	0
2	F	131	0	0	2	0
All	All	6117	0	5403	120	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 (120) 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:10:CYS:H	1:D:22:HIS:CD2	1.84	0.94
1:C:10:CYS:H	1:C:22:HIS:HD2	1.12	0.94
1:D:10:CYS:H	1:D:22:HIS:HD2	1.02	0.92
1:A:38:VAL:HG22	1:A:44:LEU:HD12	1.56	0.87
1:C:10:CYS:H	1:C:22:HIS:CD2	1.97	0.81
1:F:39:THR:HG22	1:F:41:ASP:H	1.45	0.81
1:D:37:PRO:CG	1:D:119:MET:HE3	2.13	0.78
1:F:10:CYS:H	1:F:22:HIS:CD2	2.01	0.78
1:B:6:THR:CG2	1:B:25:LYS:HB2	2.14	0.77
1:C:15:ALA:H	1:C:42:ASN:HD21	1.30	0.77
1:B:99:ASN:HD22	1:B:100:THR:HG23	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:6:THR:HG23	1:B:25:LYS:HB2	1.67	0.76
1:D:99:ASN:HA	1:E:19:SER:OG	1.86	0.76
1:D:30:ILE:HD13	1:D:67:SER:HB3	1.68	0.75
1:D:37:PRO:HG2	1:D:119:MET:HE3	1.68	0.75
1:C:11:GLU:HG2	2:C:198:HOH:O	1.87	0.73
1:E:10:CYS:H	1:E:22:HIS:HD2	1.40	0.69
1:E:14:PRO:O	1:E:22:HIS:HE1	1.75	0.69
1:A:10:CYS:H	1:A:22:HIS:CD2	2.11	0.69
1:E:89:GLU:OE2	2:E:136:HOH:O	2.12	0.67
1:E:10:CYS:H	1:E:22:HIS:CD2	2.13	0.66
1:B:54:GLU:OE2	1:B:97:TYR:OH	2.11	0.66
1:E:50:ALA:HA	1:E:93:VAL:HG21	1.78	0.64
1:B:99:ASN:ND2	1:B:100:THR:H	1.95	0.64
1:B:10:CYS:H	1:B:22:HIS:HD2	1.46	0.64
1:B:10:CYS:H	1:B:22:HIS:CD2	2.16	0.63
1:D:10:CYS:N	1:D:22:HIS:HD2	1.86	0.63
1:D:91:ASN:HD21	1:D:105:ARG:HH22	1.47	0.61
1:D:37:PRO:HG3	1:D:119:MET:HE3	1.82	0.61
1:F:9:ILE:HD11	2:F:167:HOH:O	1.99	0.61
1:F:39:THR:CG2	1:F:41:ASP:H	2.12	0.61
1:F:10:CYS:H	1:F:22:HIS:HD2	1.45	0.60
1:D:73:ARG:HD2	2:D:202:HOH:O	2.02	0.60
1:E:49:ILE:HG12	2:E:153:HOH:O	2.01	0.60
1:A:10:CYS:H	1:A:22:HIS:HD2	1.48	0.60
1:F:4:THR:HG23	2:F:228:HOH:O	2.02	0.59
1:C:74:VAL:O	1:C:101:HIS:HE1	1.86	0.59
1:E:7:PRO:HG3	1:E:24:MET:HE1	1.83	0.58
1:D:26:VAL:HG13	1:D:26:VAL:O	2.03	0.57
1:E:112:ALA:C	1:E:113:LEU:HD22	2.30	0.57
1:D:52:LYS:HB3	1:D:119:MET:HE1	1.87	0.56
1:B:99:ASN:ND2	1:B:100:THR:HG23	2.19	0.56
1:E:26:VAL:HG13	1:E:26:VAL:O	2.06	0.56
1:B:36:ILE:HB	1:B:37:PRO:HD2	1.87	0.55
1:E:36:ILE:O	1:E:37:PRO:C	2.49	0.55
1:A:99:ASN:O	1:A:102:LYS:HE3	2.06	0.55
1:C:4:THR:HB	2:C:231:HOH:O	2.05	0.54
1:E:38:VAL:HA	1:E:43:LYS:O	2.08	0.54
1:E:115:LEU:N	1:E:115:LEU:HD12	2.23	0.54
1:A:4:THR:H	1:A:27:ASN:ND2	2.06	0.54
1:D:76:LYS:NZ	1:D:78:ASN:HD21	2.06	0.53
1:C:14:PRO:O	1:C:22:HIS:HE1	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:PRO:O	1:A:22:HIS:HE1	1.91	0.53
1:C:122:GLU:HA	2:C:206:HOH:O	2.09	0.53
1:B:4:THR:H	1:B:27:ASN:ND2	2.06	0.53
1:E:36:ILE:O	1:E:37:PRO:O	2.26	0.52
1:D:54:GLU:OE1	1:D:97:TYR:OH	2.18	0.52
1:B:6:THR:CG2	1:B:25:LYS:HD2	2.40	0.52
1:E:78:ASN:HB2	1:E:122:GLU:HG3	1.91	0.52
1:E:92:SER:HB3	2:E:154:HOH:O	2.10	0.52
1:B:14:PRO:O	1:B:22:HIS:HE1	1.95	0.50
1:B:38:VAL:HG22	1:B:44:LEU:HD12	1.92	0.50
1:F:12:SER:O	1:F:40:PRO:HB3	2.12	0.50
1:A:99:ASN:HB3	2:A:159:HOH:O	2.10	0.50
1:D:101:HIS:HD2	2:D:194:HOH:O	1.92	0.50
1:D:101:HIS:O	1:D:103:PRO:HD3	2.10	0.50
1:E:14:PRO:O	1:E:22:HIS:CE1	2.62	0.50
1:F:36:ILE:HB	1:F:37:PRO:HD2	1.93	0.50
1:E:105:ARG:HG2	1:E:105:ARG:HH11	1.76	0.49
1:E:8:VAL:HB	1:E:23:ALA:HB3	1.94	0.49
1:A:11:GLU:OE2	2:A:202:HOH:O	2.19	0.49
1:E:37:PRO:O	1:E:38:VAL:O	2.30	0.49
1:E:61:LYS:HD2	1:E:71:LEU:HD11	1.92	0.49
1:E:30:ILE:HD11	1:E:127:GLU:HB2	1.94	0.49
1:D:38:VAL:CG1	1:D:42:ASN:HA	2.43	0.49
1:E:105:ARG:HH11	1:E:105:ARG:CG	2.26	0.48
1:A:73:ARG:HH11	1:A:128:ARG:HA	1.79	0.48
1:E:105:ARG:HG2	1:E:105:ARG:NH1	2.27	0.48
1:B:45:VAL:HG13	2:B:153:HOH:O	2.14	0.47
1:B:26:VAL:O	1:B:26:VAL:HG13	2.14	0.47
1:F:73:ARG:NE	1:F:128:ARG:HA	2.29	0.47
1:A:70:SER:OG	1:A:72:ASP:OD1	2.26	0.46
1:B:73:ARG:NH2	2:B:207:HOH:O	2.48	0.46
1:D:101:HIS:CD2	2:D:194:HOH:O	2.68	0.46
1:E:11:GLU:H	1:E:11:GLU:CD	2.23	0.45
1:C:61:LYS:NZ	2:C:226:HOH:O	2.48	0.45
1:B:9:ILE:HA	1:B:22:HIS:HD2	1.80	0.45
1:B:6:THR:HG22	1:B:25:LYS:HB2	1.95	0.45
1:D:102:LYS:HB3	1:E:20:TYR:HA	1.99	0.45
1:C:75:VAL:HG12	1:D:5:LEU:HD22	1.98	0.45
1:A:126:ALA:HB1	1:B:3:THR:HG21	1.97	0.45
1:B:10:CYS:N	1:B:22:HIS:HD2	2.14	0.45
1:C:78:ASN:HB2	1:C:122:GLU:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:58:GLN:NE2	1:E:58:GLN:HA	2.31	0.45
1:F:39:THR:HG22	1:F:41:ASP:N	2.23	0.45
1:D:91:ASN:ND2	1:D:105:ARG:HH22	2.14	0.45
1:B:6:THR:HG21	1:B:25:LYS:HD2	1.99	0.44
1:C:74:VAL:O	1:C:101:HIS:CE1	2.67	0.44
1:F:39:THR:HG23	1:F:40:PRO:HD2	2.00	0.44
1:A:26:VAL:HG13	1:A:26:VAL:O	2.18	0.43
1:A:127:GLU:HB3	2:A:181:HOH:O	2.17	0.43
1:D:93:VAL:O	1:D:96:LYS:HB2	2.18	0.43
1:B:43:LYS:HG2	1:D:96:LYS:HG2	1.99	0.43
1:B:6:THR:HG23	1:B:25:LYS:CB	2.43	0.43
1:A:3:THR:HG21	1:F:126:ALA:HB1	2.01	0.42
1:C:27:ASN:HA	2:C:231:HOH:O	2.19	0.42
1:E:50:ALA:CB	2:E:136:HOH:O	2.67	0.42
1:A:42:ASN:ND2	2:A:242:HOH:O	2.53	0.41
1:B:11:GLU:O	1:B:11:GLU:HG3	2.19	0.41
1:E:115:LEU:N	1:E:115:LEU:CD1	2.83	0.41
1:B:3:THR:HA	1:B:27:ASN:HD21	1.85	0.41
1:D:98:PHE:HA	2:D:196:HOH:O	2.21	0.41
1:C:36:ILE:HB	1:C:37:PRO:HD2	2.02	0.41
1:D:30:ILE:HD13	1:D:67:SER:CB	2.45	0.41
1:D:14:PRO:O	1:D:22:HIS:HE1	2.04	0.41
1:F:39:THR:HG23	1:F:40:PRO:CD	2.51	0.41
1:B:9:ILE:HA	1:B:22:HIS:CD2	2.56	0.40
1:F:8:VAL:HB	1:F:23:ALA:HB3	2.02	0.40
1:F:78:ASN:HB2	1:F:122:GLU:CG	2.52	0.40
1:E:39:THR:N	1:E:43:LYS:O	2.42	0.40

There are no symmetry-related clashes.

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	124/129 (96%)	119 (96%)	5 (4%)	0	100	100
1	B	123/129 (95%)	116 (94%)	6 (5%)	1 (1%)	16	5
1	C	124/129 (96%)	120 (97%)	4 (3%)	0	100	100
1	D	122/129 (95%)	119 (98%)	3 (2%)	0	100	100
1	E	121/129 (94%)	111 (92%)	8 (7%)	2 (2%)	7	1
1	F	123/129 (95%)	118 (96%)	5 (4%)	0	100	100
All	All	737/774 (95%)	703 (95%)	31 (4%)	3 (0%)	30	16

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	47	GLY
1	E	37	PRO
1	E	38	VAL

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	95/107 (89%)	93 (98%)	2 (2%)	47	30
1	B	102/107 (95%)	101 (99%)	1 (1%)	68	58
1	C	101/107 (94%)	100 (99%)	1 (1%)	68	58
1	D	94/107 (88%)	92 (98%)	2 (2%)	47	30
1	E	84/107 (78%)	80 (95%)	4 (5%)	23	8
1	F	94/107 (88%)	92 (98%)	2 (2%)	47	30
All	All	570/642 (89%)	558 (98%)	12 (2%)	47	30

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

Mol	Chain	Res	Type
1	A	44	LEU
1	A	119	MET

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Mol	Chain	Res	Type
1	B	119	MET
1	C	93	VAL
1	D	81	LEU
1	D	119	MET
1	E	11	GLU
1	E	29	LEU
1	E	105	ARG
1	E	106	SER
1	F	5	LEU
1	F	39	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (30) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	22	HIS
1	A	27	ASN
1	B	22	HIS
1	B	27	ASN
1	B	35	GLN
1	B	59	ASN
1	B	68	ASN
1	B	99	ASN
1	C	22	HIS
1	C	42	ASN
1	C	78	ASN
1	C	86	HIS
1	C	101	HIS
1	D	22	HIS
1	D	27	ASN
1	D	55	GLN
1	D	62	ASN
1	D	68	ASN
1	D	78	ASN
1	D	91	ASN
1	E	22	HIS
1	E	62	ASN
1	E	68	ASN
1	E	78	ASN
1	F	22	HIS
1	F	27	ASN
1	F	35	GLN
1	F	62	ASN

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Mol	Chain	Res	Type
1	F	68	ASN
1	F	99	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

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.