



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 01:33 PM UTC

PDB ID : 8HZ2 / pdb_00008hz2
Title : Tumor Necrosis Factor Receptor Associated Factor 6 (TRAF6) N-terminal Domain
Authors : Guven, O.; Ciftci, H.; DeMirci, H.
Deposited on : 2023-01-07
Resolution : 2.60 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

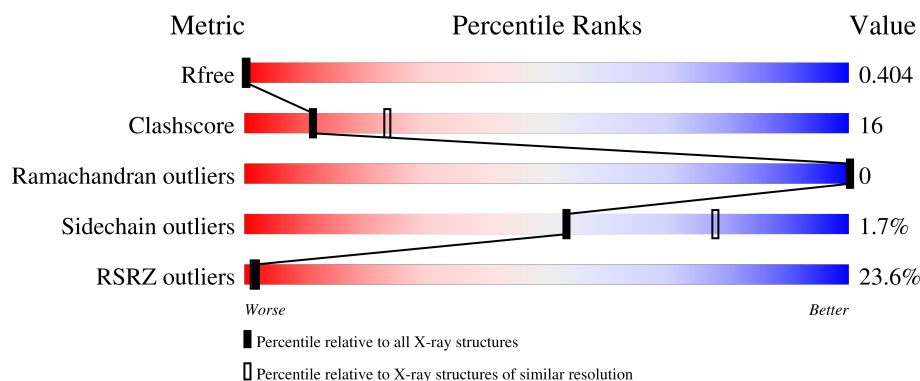
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	157	14% 75% 25%
1	B	157	33% 70% 29% .

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2574 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 TNF receptor-associated factor 6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	157	Total	C	N	O	S	0	0	0
			1259	785	225	229	20			
1	B	157	Total	C	N	O	S	0	0	0
			1259	785	225	229	20			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	5	Total	Zn	5	0
			5	5		
2	B	5	Total	Zn	5	0
			5	5		

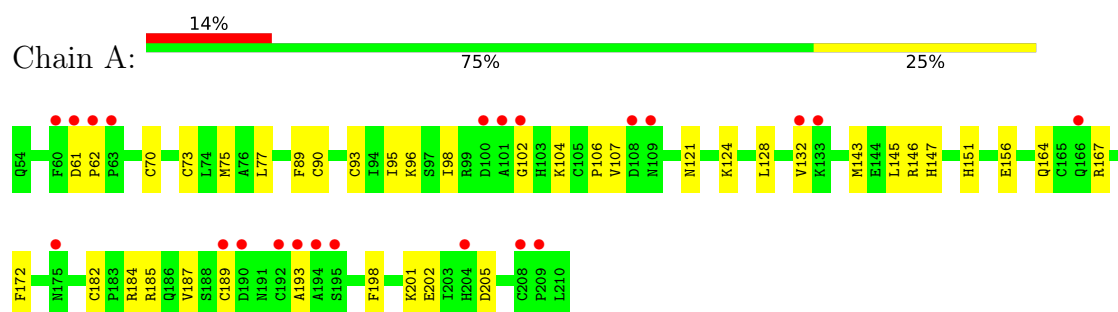
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	19	Total	O	0	0
			19	19		
3	B	27	Total	O	0	0
			27	27		

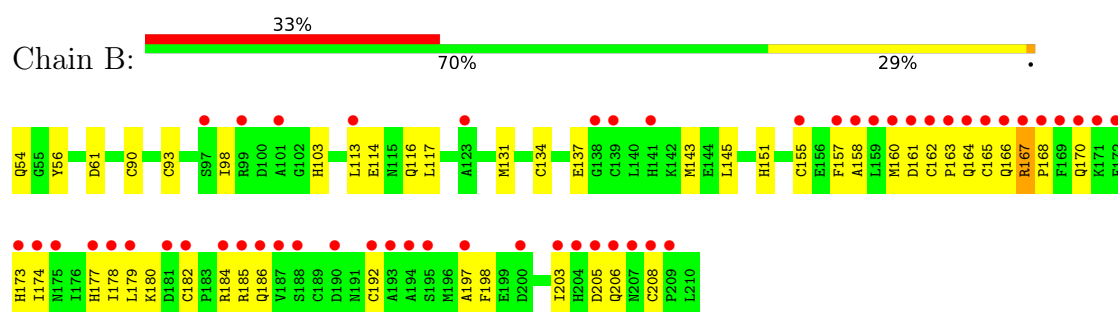
3 Residue-property plots [i](#)

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: TNF receptor-associated factor 6



- Molecule 1: TNF receptor-associated factor 6



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	45.88Å 51.70Å 54.30Å 91.04° 112.15° 108.43°	Depositor
Resolution (Å)	6.00 – 2.60 6.00 – 2.60	Depositor EDS
% Data completeness (in resolution range)	98.5 (6.00-2.60) 90.5 (6.00-2.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.01 (at 2.58Å)	Xtriage
Refinement program	PHENIX 1.20.1	Depositor
R, R_{free}	0.348 , 0.409 0.345 , 0.404	Depositor DCC
R_{free} test set	1215 reflections (9.12%)	wwPDB-VP
Wilson B-factor (Å ²)	39.4	Xtriage
Anisotropy	0.156	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.44 , 90.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.77	EDS
Total number of atoms	2574	wwPDB-VP
Average B, all atoms (Å ²)	112.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.69% 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	0.11	0/1288	0.29	0/1736
1	B	0.11	0/1288	0.31	0/1736
All	All	0.11	0/2576	0.30	0/3472

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

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	1259	0	1207	34	1
1	B	1259	0	1207	46	1
2	A	5	0	0	0	0
2	B	5	0	0	0	0
3	A	19	0	0	18	1
3	B	27	0	0	18	1
All	All	2574	0	2414	80	2

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 16.

All (80) 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:B:163:PRO:CA	3:B:402:HOH:O	1.85	1.23
1:B:166:GLN:NE2	3:B:402:HOH:O	1.82	1.10
1:B:163:PRO:HA	3:B:402:HOH:O	1.42	1.08
1:B:177:HIS:CE1	3:B:401:HOH:O	1.96	1.07
1:A:102:GLY:N	3:A:403:HOH:O	1.94	0.99
1:B:182:CYS:CB	3:B:412:HOH:O	2.12	0.96
1:B:163:PRO:O	3:B:402:HOH:O	1.84	0.96
1:A:98:ILE:N	3:A:402:HOH:O	1.90	0.94
1:B:182:CYS:HB2	3:B:412:HOH:O	1.71	0.87
1:A:102:GLY:CA	3:A:403:HOH:O	2.18	0.87
1:A:128:LEU:HB3	1:A:146:ARG:HG3	1.59	0.85
1:A:96:LYS:N	3:A:401:HOH:O	1.75	0.83
1:B:179:LEU:HD23	3:B:409:HOH:O	1.79	0.81
1:A:102:GLY:C	3:A:403:HOH:O	2.24	0.80
1:A:187:VAL:CG1	3:A:418:HOH:O	2.36	0.73
1:B:182:CYS:HB2	1:B:185:ARG:HB3	1.71	0.71
1:B:162:CYS:N	1:B:167:ARG:O	2.22	0.70
1:B:185:ARG:CA	3:B:412:HOH:O	2.39	0.70
1:B:185:ARG:HA	3:B:412:HOH:O	1.92	0.70
1:A:187:VAL:HG11	3:A:418:HOH:O	1.93	0.68
1:A:198:PHE:HB2	3:A:418:HOH:O	1.94	0.68
1:B:168:PRO:O	3:B:403:HOH:O	2.11	0.68
1:B:98:ILE:HG23	1:B:103:HIS:HA	1.75	0.67
1:A:95:ILE:N	3:A:401:HOH:O	2.27	0.67
1:B:186:GLN:CD	3:B:410:HOH:O	2.37	0.67
1:B:161:ASP:HA	1:B:168:PRO:HA	1.77	0.66
1:A:189:CYS:O	1:A:193:ALA:N	2.29	0.66
1:B:90:CYS:HB2	1:B:93:CYS:SG	2.38	0.64
1:B:163:PRO:CB	3:B:402:HOH:O	2.33	0.63
1:A:198:PHE:HD1	3:A:418:HOH:O	1.81	0.63
1:B:164:GLN:OE1	1:B:186:GLN:NE2	2.31	0.63
1:A:90:CYS:HB2	1:A:93:CYS:SG	2.38	0.62
1:A:95:ILE:CA	3:A:401:HOH:O	2.48	0.61
1:A:182:CYS:O	1:A:185:ARG:NE	2.33	0.60
1:A:167:ARG:NH1	3:A:406:HOH:O	2.39	0.56
1:A:201:LYS:NZ	1:A:205:ASP:OD2	2.37	0.56
1:B:205:ASP:HA	1:B:208:CYS:HB2	1.88	0.56
1:A:121:ASN:HA	1:A:124:LYS:HB3	1.88	0.55
1:B:178:ILE:HG22	3:B:409:HOH:O	2.07	0.54
1:B:185:ARG:HG2	1:B:198:PHE:HB2	1.90	0.54
1:A:104:LYS:HE2	1:A:106:PRO:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:CYS:HB2	1:A:75:MET:HE3	1.89	0.54
1:A:187:VAL:HG13	3:A:418:HOH:O	2.04	0.53
1:B:182:CYS:HB3	3:B:412:HOH:O	1.96	0.53
1:A:185:ARG:NH1	3:A:405:HOH:O	2.33	0.52
1:B:203:ILE:HA	1:B:206:GLN:HE22	1.73	0.52
1:A:143:MET:HE1	1:A:151:HIS:HB2	1.92	0.52
1:B:134:CYS:SG	1:B:151:HIS:CD2	3.03	0.51
1:B:155:CYS:HB3	1:B:158:ALA:HB2	1.93	0.50
1:B:54:GLN:N	3:B:411:HOH:O	2.44	0.50
1:A:132:VAL:HG11	1:A:145:LEU:HD13	1.93	0.50
1:A:198:PHE:CD1	3:A:418:HOH:O	2.54	0.50
1:B:173:HIS:O	1:B:173:HIS:ND1	2.44	0.50
1:A:102:GLY:O	3:A:403:HOH:O	2.19	0.49
1:A:104:LYS:NZ	3:A:408:HOH:O	2.42	0.49
1:A:95:ILE:HB	3:A:401:HOH:O	2.13	0.49
1:B:180:LYS:HA	1:B:185:ARG:NH1	2.28	0.49
1:A:61:ASP:HB2	1:A:62:PRO:HD3	1.94	0.48
1:B:143:MET:HE1	1:B:151:HIS:CD2	2.49	0.48
1:B:143:MET:HE1	1:B:151:HIS:CG	2.49	0.48
1:A:89:PHE:CZ	1:A:106:PRO:HD2	2.50	0.47
1:B:185:ARG:N	3:B:412:HOH:O	2.47	0.46
1:B:177:HIS:CE1	1:B:182:CYS:SG	2.82	0.46
1:B:170:GLN:O	1:B:174:ILE:N	2.49	0.46
1:B:56:TYR:CG	1:B:145:LEU:HD21	2.50	0.46
1:A:143:MET:HE2	1:A:147:HIS:HB2	1.98	0.46
1:B:114:GLU:HA	1:B:117:LEU:HD12	1.99	0.45
1:B:164:GLN:HG3	1:B:178:ILE:HG23	1.98	0.44
1:B:173:HIS:HE1	1:B:177:HIS:HB2	1.82	0.44
1:B:137:GLU:O	1:B:157:PHE:HB3	2.18	0.44
1:B:160:MET:N	1:B:160:MET:SD	2.91	0.44
1:B:192:CYS:HB3	1:B:208:CYS:SG	2.58	0.43
1:B:184:ARG:CZ	1:B:197:ALA:HB2	2.49	0.42
1:B:174:ILE:O	1:B:178:ILE:HG13	2.19	0.42
1:A:164:GLN:HB3	1:A:184:ARG:HB2	2.02	0.42
1:B:116:GLN:HB3	3:B:405:HOH:O	2.19	0.41
1:B:178:ILE:HA	1:B:182:CYS:SG	2.61	0.41
1:B:61:ASP:O	1:B:131:MET:HB2	2.21	0.41
1:A:70:CYS:HB2	1:A:77:LEU:HD23	2.04	0.40
1:A:156:GLU:HB3	1:A:172:PHE:HB3	2.03	0.40

All (2) 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:B:168:PRO:CG	3:A:403:HOH:O[1_665]	1.57	0.63
1:A:104:LYS:CD	3:B:414:HOH:O[1_445]	1.85	0.35

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	155/157 (99%)	149 (96%)	6 (4%)	0	100	100
1	B	155/157 (99%)	147 (95%)	8 (5%)	0	100	100
All	All	310/314 (99%)	296 (96%)	14 (4%)	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	143/143 (100%)	141 (99%)	2 (1%)	59	81
1	B	143/143 (100%)	140 (98%)	3 (2%)	47	73
All	All	286/286 (100%)	281 (98%)	5 (2%)	53	78

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	107	VAL
1	A	202	GLU

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Mol	Chain	Res	Type
1	B	113	LEU
1	B	165	CYS
1	B	167	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	103	HIS
1	A	115	ASN
1	A	147	HIS
1	B	147	HIS

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](#)

Of 10 ligands modelled in this entry, 10 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	157/157 (100%)	0.85	22 (14%) 6 5	36, 69, 177, 317	0
1	B	157/157 (100%)	1.64	52 (33%) 1 1	35, 86, 324, 447	0
All	All	314/314 (100%)	1.25	74 (23%) 2 1	35, 73, 304, 447	0

All (74) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	182	CYS	9.9
1	A	61	ASP	8.1
1	B	165	CYS	7.6
1	A	101	ALA	7.3
1	B	158	ALA	7.1
1	A	102	GLY	6.6
1	B	174	ILE	6.6
1	B	169	PHE	6.4
1	B	168	PRO	6.1
1	B	138	GLY	5.8
1	B	170	GLN	5.7
1	B	155	CYS	5.7
1	A	100	ASP	5.7
1	B	208	CYS	5.4
1	B	178	ILE	5.3
1	B	171	LYS	5.3
1	B	161	ASP	5.2
1	B	163	PRO	5.2
1	A	192	CYS	5.0
1	B	159	LEU	4.8
1	B	194	ALA	4.8
1	B	187	VAL	4.5
1	B	160	MET	4.4
1	B	113	LEU	4.2

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Mol	Chain	Res	Type	RSRZ
1	B	205	ASP	4.2
1	B	141	HIS	4.2
1	B	164	GLN	4.2
1	B	200	ASP	4.1
1	B	162	CYS	4.1
1	B	179	LEU	4.1
1	B	177	HIS	3.9
1	B	186	GLN	3.8
1	A	62	PRO	3.8
1	B	157	PHE	3.7
1	A	208	CYS	3.6
1	B	166	GLN	3.5
1	A	190	ASP	3.5
1	B	203	ILE	3.4
1	B	139	CYS	3.4
1	B	204	HIS	3.4
1	A	195	SER	3.4
1	A	60	PHE	3.4
1	B	192	CYS	3.2
1	A	194	ALA	3.1
1	A	109	ASN	3.1
1	B	167	ARG	3.1
1	A	175	ASN	3.0
1	B	185	ARG	3.0
1	B	188	SER	2.9
1	B	207	ASN	2.9
1	B	181	ASP	2.9
1	B	172	PHE	2.9
1	B	209	PRO	2.7
1	B	101	ALA	2.7
1	B	184	ARG	2.6
1	B	195	SER	2.6
1	B	123	ALA	2.6
1	B	206	GLN	2.6
1	B	193	ALA	2.5
1	B	175	ASN	2.5
1	A	209	PRO	2.5
1	A	63	PRO	2.4
1	A	108	ASP	2.3
1	A	193	ALA	2.3
1	A	133	LYS	2.3
1	B	190	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	132	VAL	2.3
1	B	173	HIS	2.2
1	B	99	ARG	2.2
1	A	166	GLN	2.2
1	B	97	SER	2.2
1	A	189	CYS	2.1
1	B	197	ALA	2.1
1	A	204	HIS	2.1

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

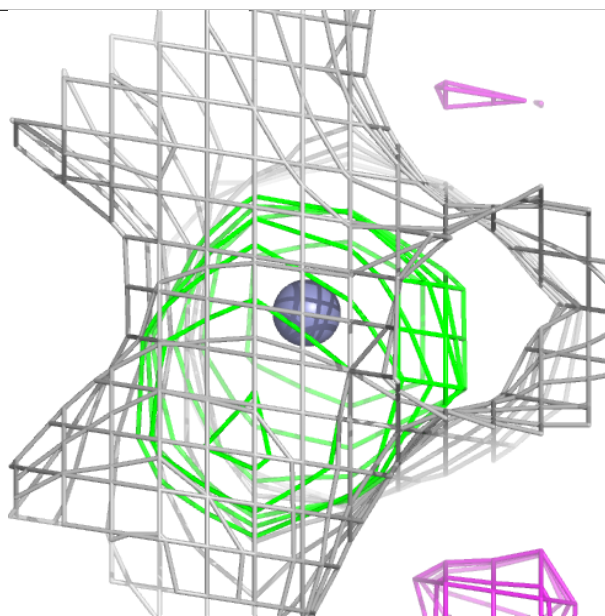
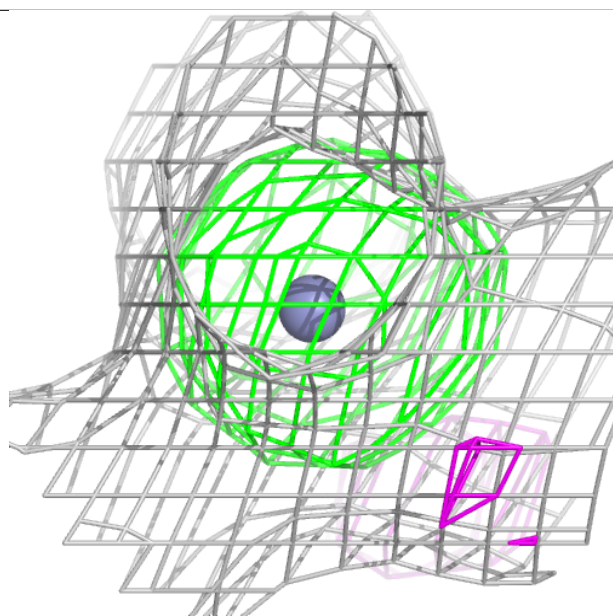
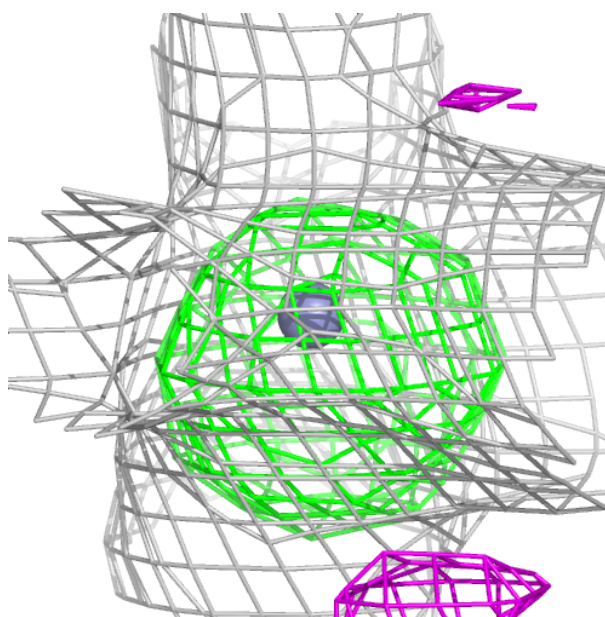
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	ZN	A	301	1/1	-	-	64,64,64,64	1
2	ZN	A	302	1/1	-	-	52,52,52,52	1
2	ZN	A	303	1/1	-	-	78,78,78,78	1
2	ZN	A	304	1/1	-	-	72,72,72,72	1
2	ZN	A	305	1/1	-	-	181,181,181,181	1
2	ZN	B	301	1/1	-	-	48,48,48,48	1
2	ZN	B	302	1/1	-	-	50,50,50,50	1
2	ZN	B	303	1/1	-	-	102,102,102,102	1
2	ZN	B	304	1/1	-	-	274,274,274,274	1
2	ZN	B	305	1/1	-	-	284,284,284,284	1

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

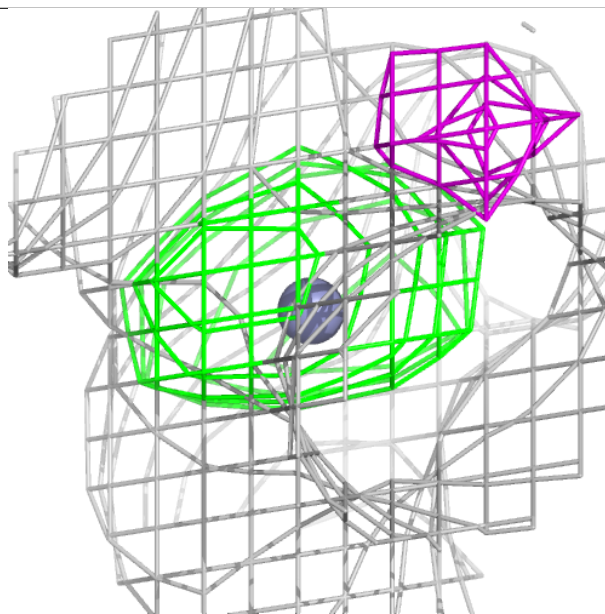
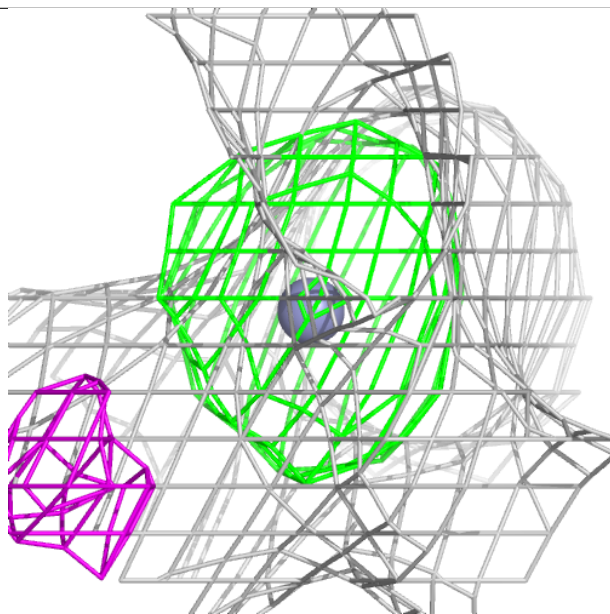
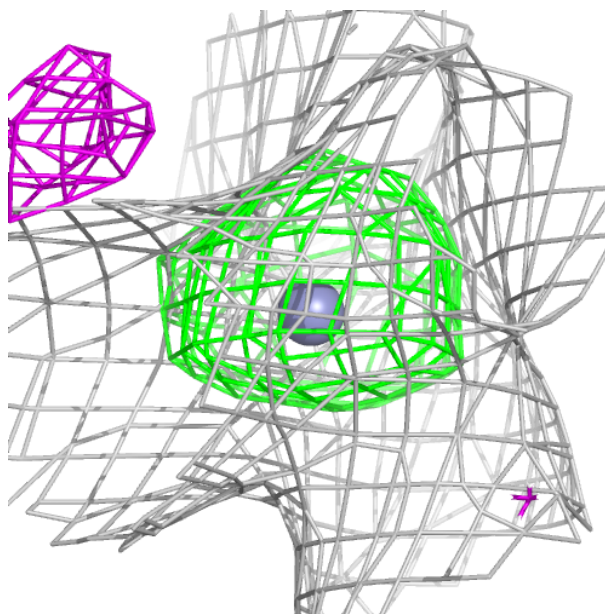
Electron density around ZN A 301:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



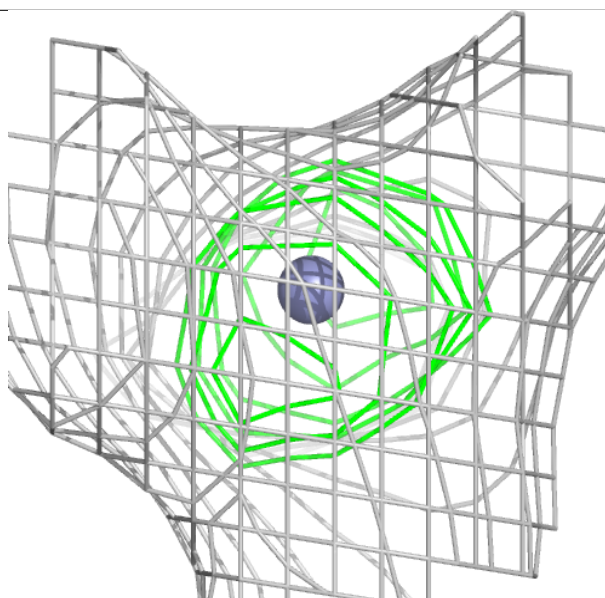
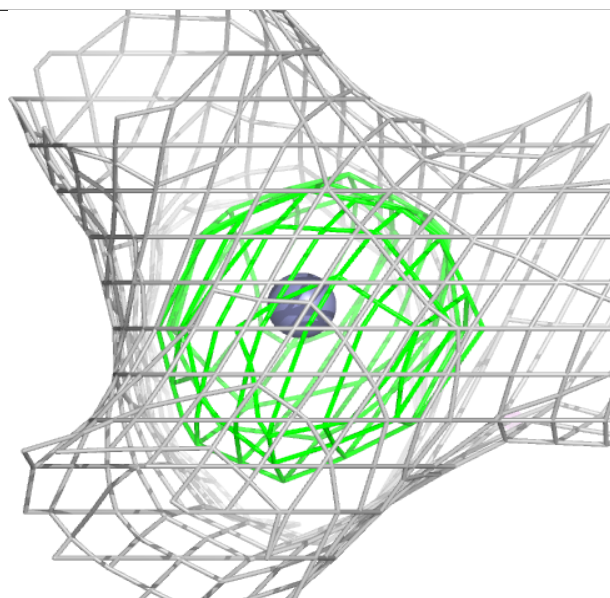
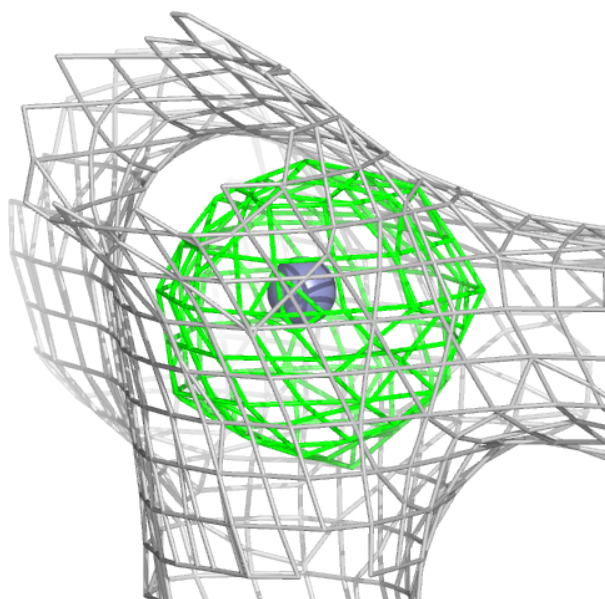
Electron density around ZN A 302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



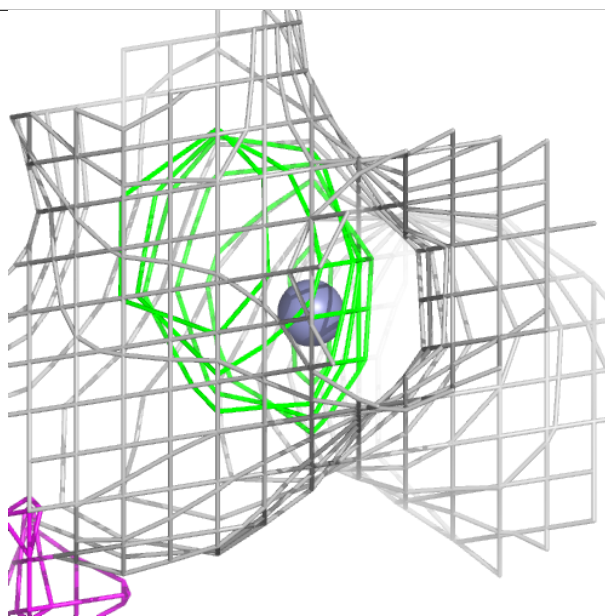
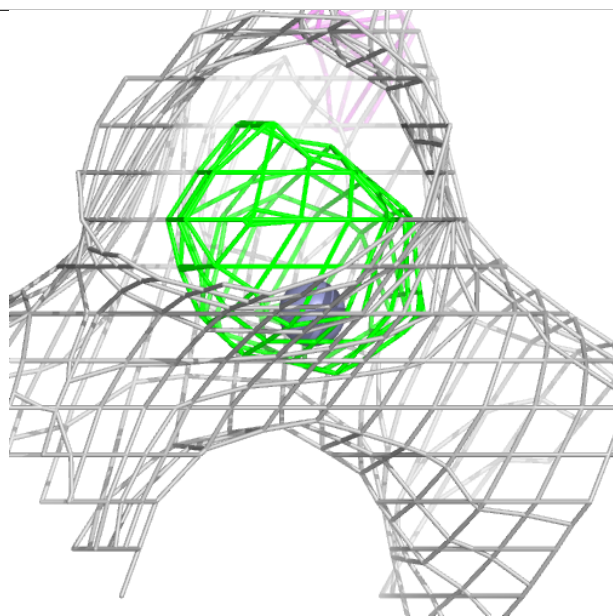
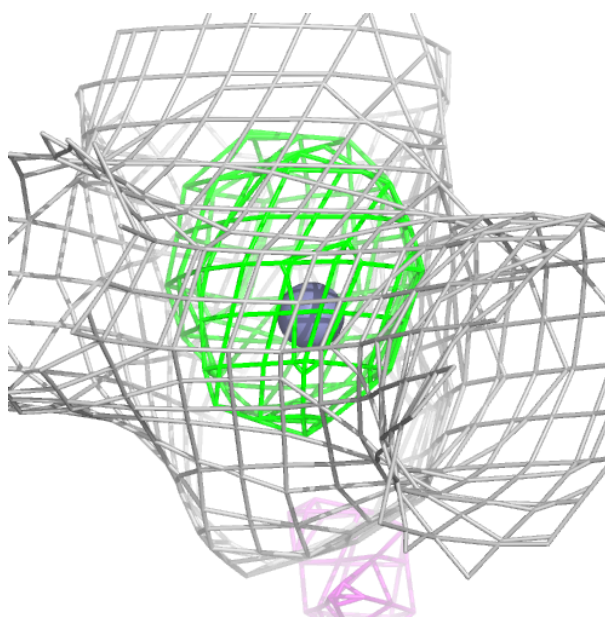
Electron density around ZN A 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



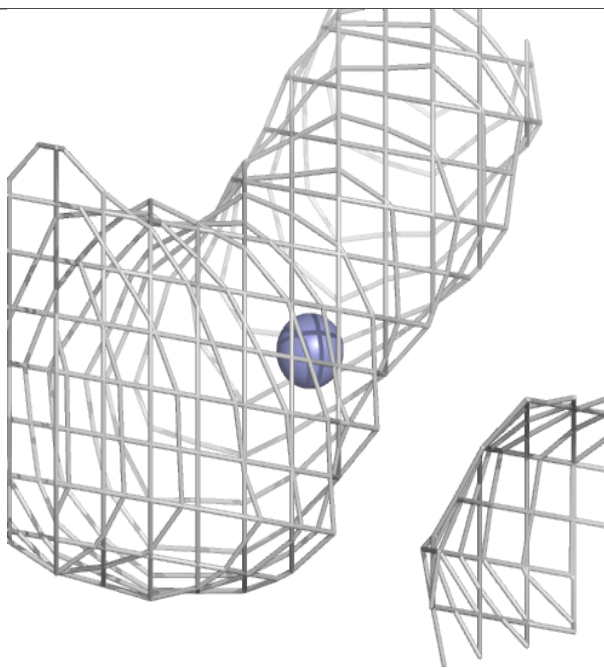
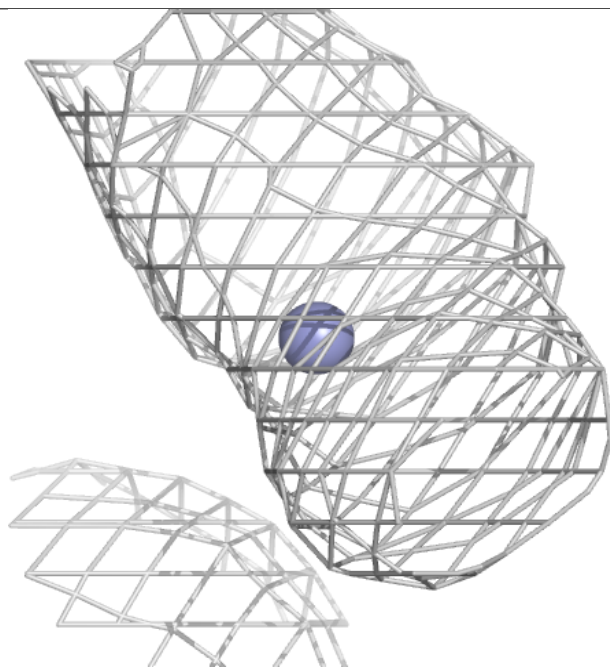
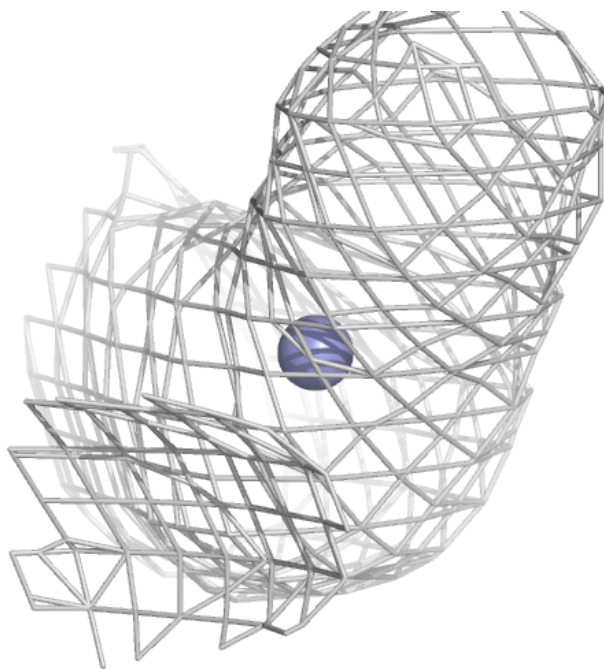
Electron density around ZN A 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



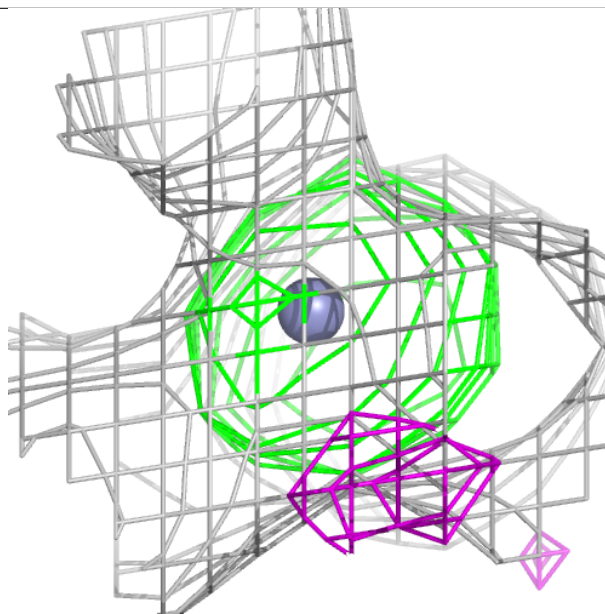
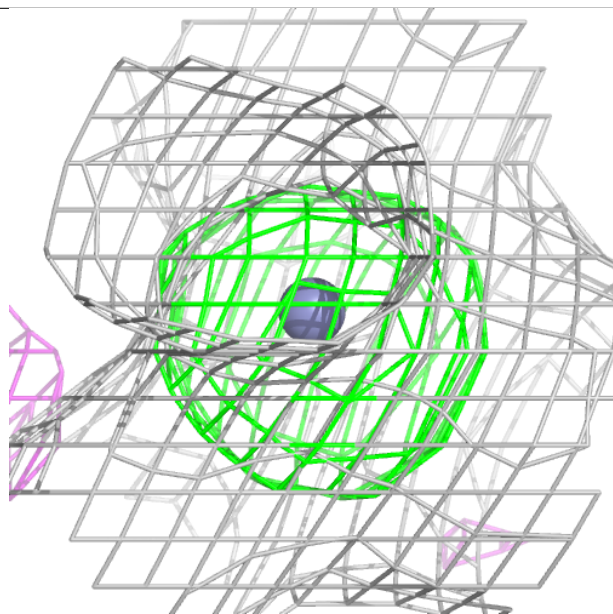
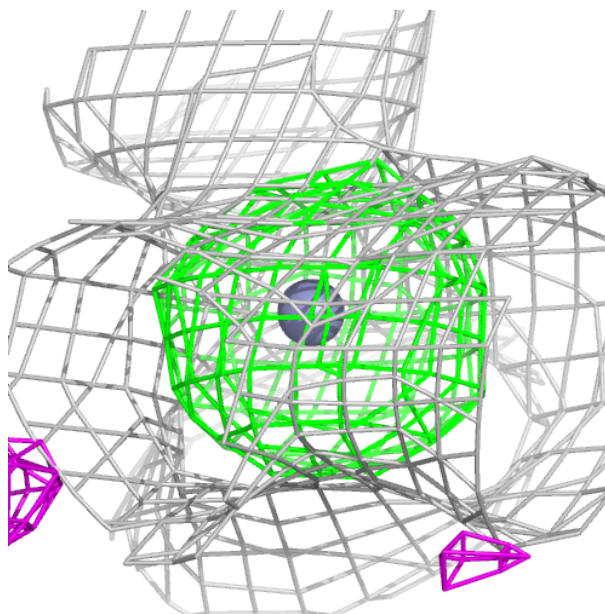
Electron density around ZN A 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



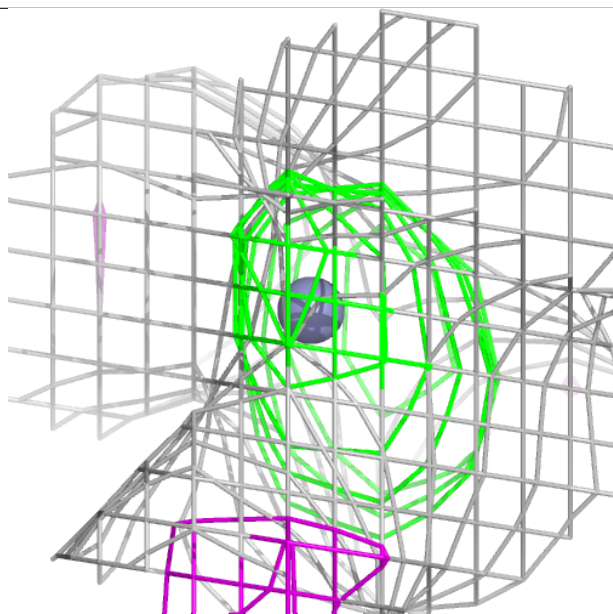
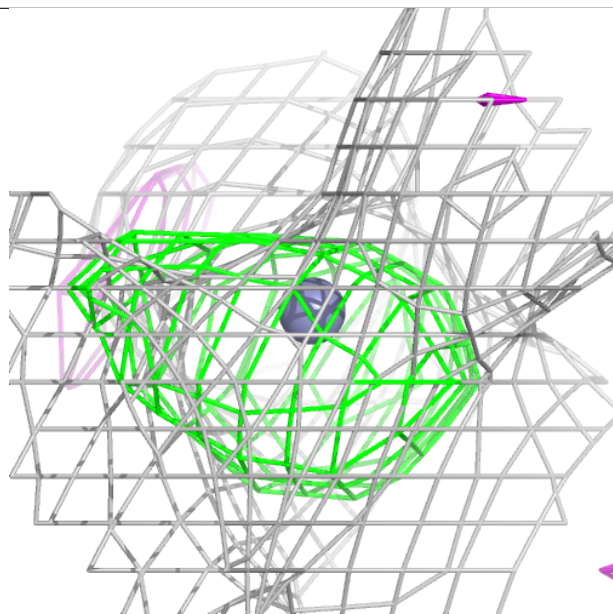
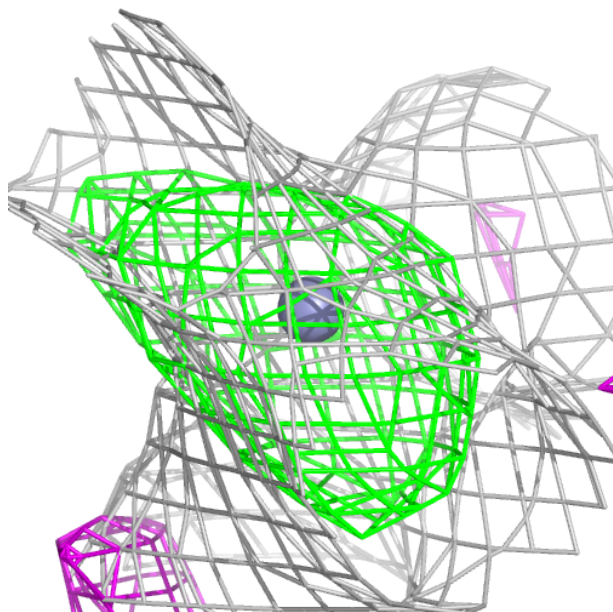
Electron density around ZN B 301:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



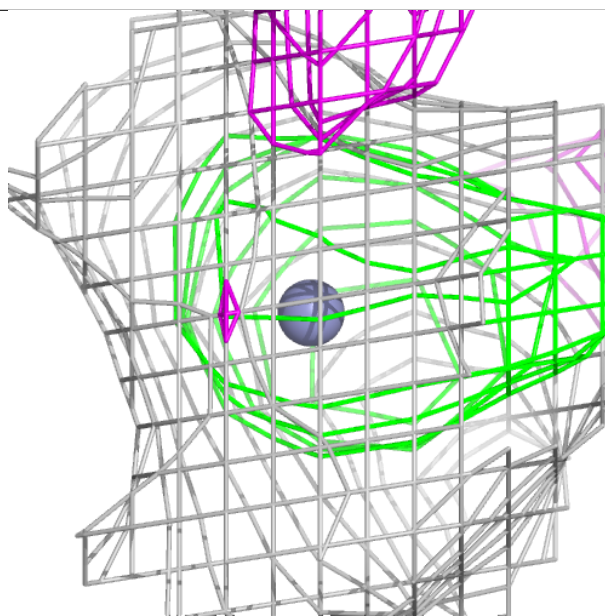
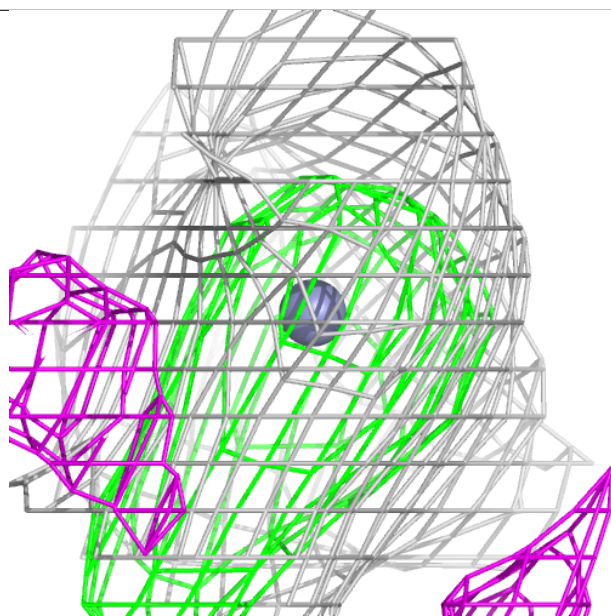
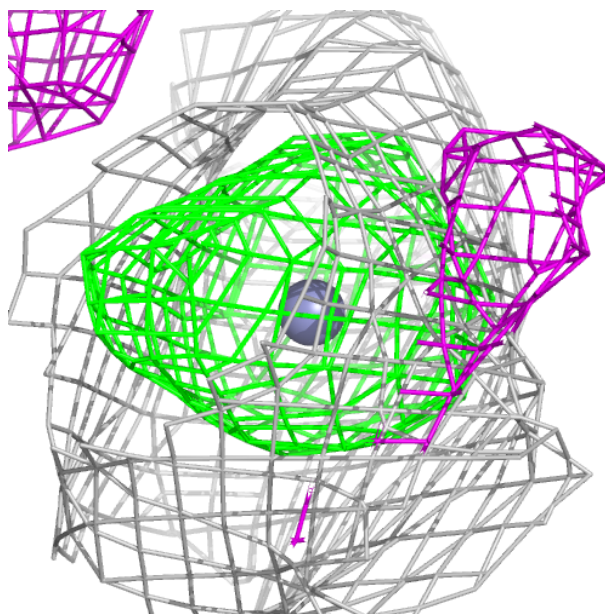
Electron density around ZN B 302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



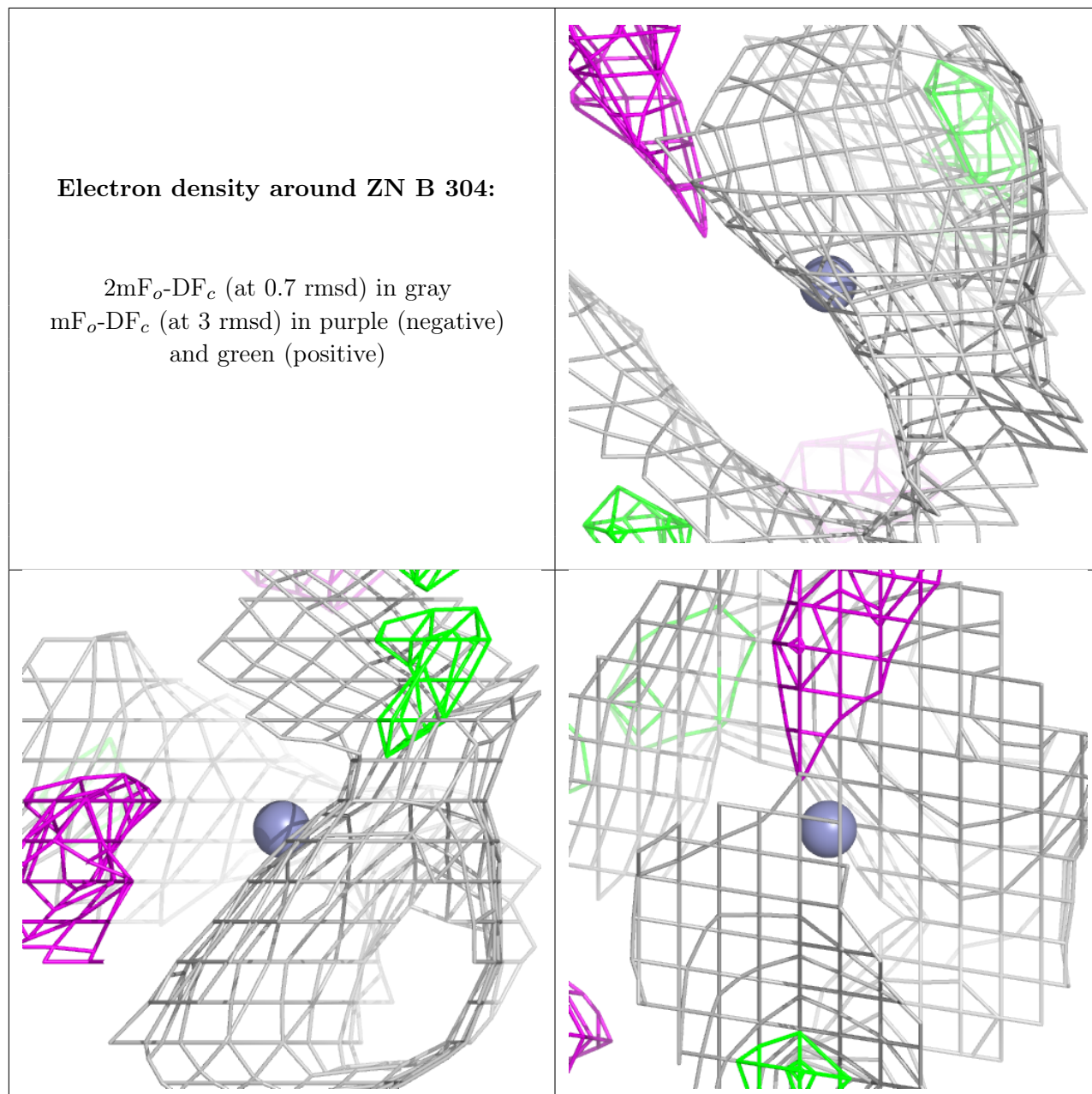
Electron density around ZN B 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



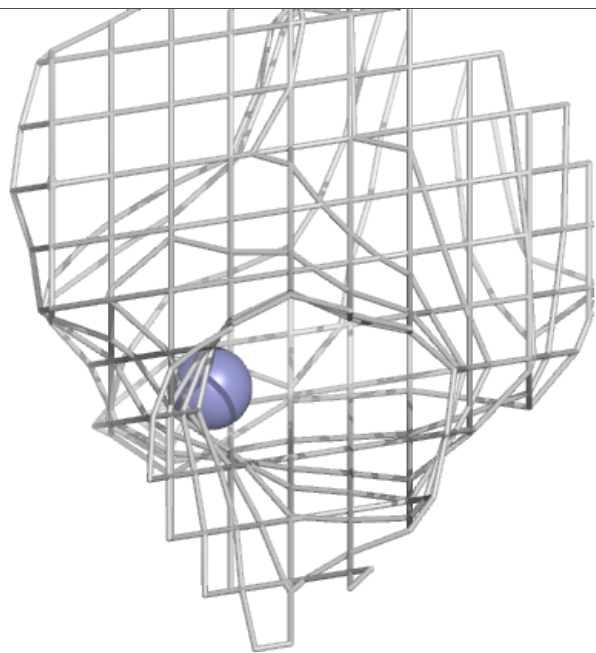
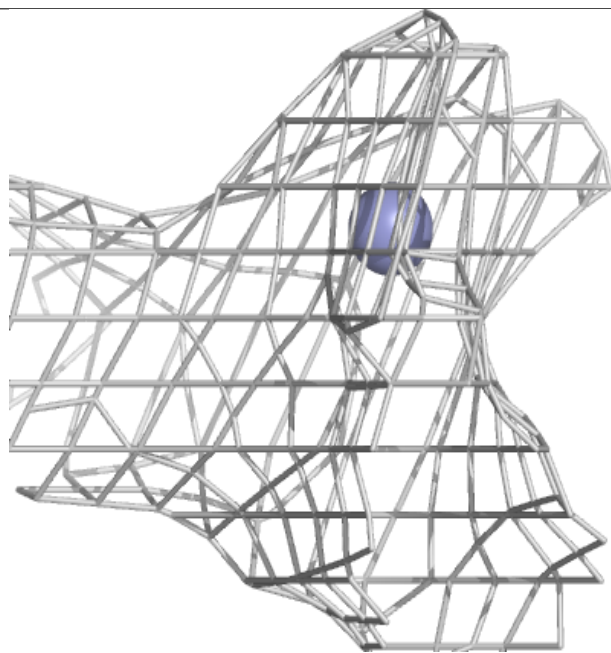
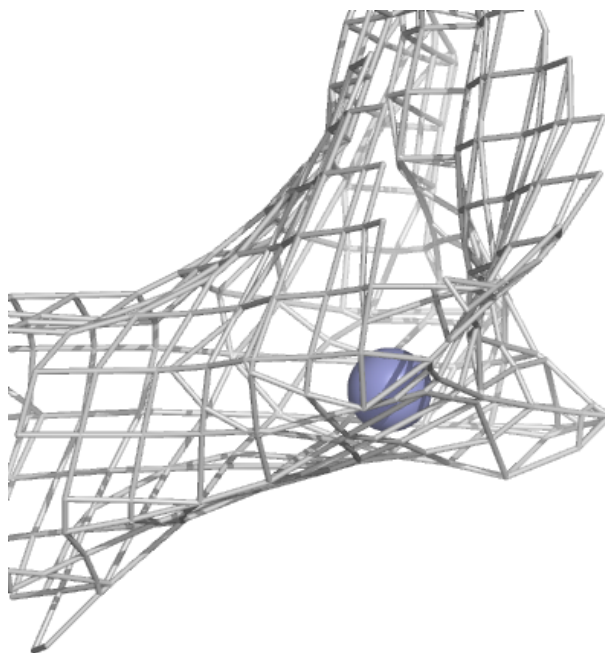
Electron density around ZN B 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ZN B 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.