



# wwPDB X-ray Structure Validation Summary Report

Oct 12, 2023 – 05:43 AM EDT

PDB ID : 8FZV  
Title : The von Willebrand factor A domain of human capillary morphogenesis gene II, flexibly fused to the 1TEL crystallization chaperone, Ala-Ala linker variant, expressed with SUMO tag  
Authors : Pedroza Romo, M.J.; Soleimani, S.; Doukov, T.; Lebedev, A.; Moody, J.D.  
Deposited on : 2023-01-30  
Resolution : 3.29 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](mailto: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>.

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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 : 2.35.1  
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) : 2.35.1

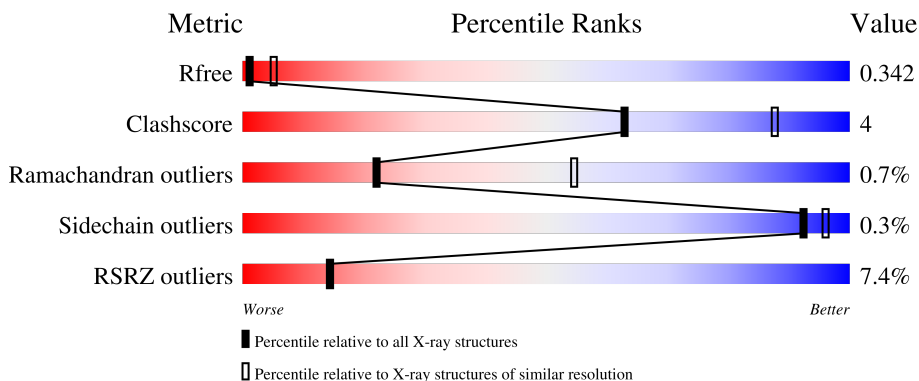
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.29 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	1149 (3.34-3.26)
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)

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  $\geq 3$ , 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	257	
1	B	257	
1	C	257	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	UNX	B	301	-	-	-	X
3	UNX	B	303	-	-	-	X
3	UNX	B	304	-	-	-	X
3	UNX	B	305	-	-	-	X
3	UNX	B	306	-	-	-	X
3	UNX	B	307	-	-	-	X
3	UNX	B	308	-	-	-	X
3	UNX	B	309	-	-	-	X
3	UNX	B	310	-	-	-	X
3	UNX	B	311	-	-	-	X
3	UNX	B	312	-	-	-	X
3	UNX	B	314	-	-	-	X
3	UNX	B	315	-	-	-	X
3	UNX	B	316	-	-	-	X
3	UNX	B	318	-	-	-	X
3	UNX	B	319	-	-	-	X
3	UNX	B	321	-	-	-	X
3	UNX	B	322	-	-	-	X
3	UNX	B	325	-	-	-	X
3	UNX	B	326	-	-	-	X
3	UNX	B	327	-	-	-	X
3	UNX	B	330	-	-	-	X
3	UNX	B	332	-	-	-	X
3	UNX	C	301	-	-	-	X
3	UNX	C	302	-	-	-	X
3	UNX	C	303	-	-	-	X
3	UNX	C	304	-	-	-	X
3	UNX	C	305	-	-	-	X
3	UNX	C	306	-	-	-	X
3	UNX	C	307	-	-	-	X
3	UNX	C	308	-	-	-	X
3	UNX	C	309	-	-	-	X
3	UNX	C	310	-	-	-	X
3	UNX	C	313	-	-	-	X
3	UNX	C	314	-	-	-	X
3	UNX	C	315	-	-	-	X
3	UNX	C	316	-	-	-	X
3	UNX	C	317	-	-	-	X
3	UNX	C	318	-	-	-	X
3	UNX	C	319	-	-	-	X
3	UNX	C	320	-	-	-	X
3	UNX	C	322	-	-	-	X
3	UNX	C	323	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	UNX	C	324	-	-	-	X
3	UNX	C	325	-	-	-	X
3	UNX	C	326	-	-	-	X
3	UNX	C	327	-	-	-	X
3	UNX	C	329	-	-	-	X
3	UNX	C	331	-	-	-	X
3	UNX	C	332	-	-	-	X
3	UNX	C	333	-	-	-	X
3	UNX	C	335	-	-	-	X
3	UNX	C	336	-	-	-	X
3	UNX	C	338	-	-	-	X
3	UNX	C	339	-	-	-	X
3	UNX	C	340	-	-	-	X
3	UNX	C	344	-	-	-	X
3	UNX	C	345	-	-	-	X
3	UNX	C	348	-	-	-	X
3	UNX	C	349	-	-	-	X
3	UNX	C	350	-	-	-	X
3	UNX	C	351	-	-	-	X
3	UNX	C	352	-	-	-	X
3	UNX	C	353	-	-	-	X
3	UNX	C	354	-	-	-	X
3	UNX	C	355	-	-	-	X
3	UNX	C	356	-	-	-	X
3	UNX	C	357	-	-	-	X
3	UNX	C	358	-	-	-	X

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4021 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 Transcription factor ETV6, Anthrax toxin receptor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	247	Total 1841	C 1176	N 312	O 352	S 1	0	0	0
1	B	248	Total 1509	C 933	N 281	O 294	S 1	0	0	0
1	C	72	Total 576	C 372	N 98	O 105	S 1	0	0	0

There are 51 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP P41212
A	4	ALA	ARG	conflict	UNP P41212
A	67	GLU	-	linker	UNP P41212
A	68	LEU	-	linker	UNP P41212
A	69	TYR	-	linker	UNP P41212
A	70	GLU	-	linker	UNP P41212
A	71	LEU	-	linker	UNP P41212
A	72	LEU	-	linker	UNP P41212
A	73	GLN	-	linker	UNP P41212
A	74	HIS	-	linker	UNP P41212
A	75	ILE	-	linker	UNP P41212
A	76	LEU	-	linker	UNP P41212
A	77	ALA	-	linker	UNP P41212
A	78	GLN	-	linker	UNP P41212
A	79	ALA	-	engineered mutation	UNP P41212
A	81	ALA	ARG	engineered mutation	UNP P58335
A	215	ALA	CYS	conflict	UNP P58335
B	1	GLY	-	expression tag	UNP P41212
B	4	ALA	ARG	conflict	UNP P41212
B	67	GLU	-	linker	UNP P41212
B	68	LEU	-	linker	UNP P41212
B	69	TYR	-	linker	UNP P41212
B	70	GLU	-	linker	UNP P41212

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Chain	Residue	Modelled	Actual	Comment	Reference
B	71	LEU	-	linker	UNP P41212
B	72	LEU	-	linker	UNP P41212
B	73	GLN	-	linker	UNP P41212
B	74	HIS	-	linker	UNP P41212
B	75	ILE	-	linker	UNP P41212
B	76	LEU	-	linker	UNP P41212
B	77	ALA	-	linker	UNP P41212
B	78	GLN	-	linker	UNP P41212
B	79	ALA	-	engineered mutation	UNP P41212
B	81	ALA	ARG	engineered mutation	UNP P58335
B	215	ALA	CYS	conflict	UNP P58335
C	1	GLY	-	expression tag	UNP P41212
C	4	ALA	ARG	conflict	UNP P41212
C	67	GLU	-	linker	UNP P41212
C	68	LEU	-	linker	UNP P41212
C	69	TYR	-	linker	UNP P41212
C	70	GLU	-	linker	UNP P41212
C	71	LEU	-	linker	UNP P41212
C	72	LEU	-	linker	UNP P41212
C	73	GLN	-	linker	UNP P41212
C	74	HIS	-	linker	UNP P41212
C	75	ILE	-	linker	UNP P41212
C	76	LEU	-	linker	UNP P41212
C	77	ALA	-	linker	UNP P41212
C	78	GLN	-	linker	UNP P41212
C	79	ALA	-	engineered mutation	UNP P41212
C	81	ALA	ARG	engineered mutation	UNP P58335
C	215	ALA	CYS	conflict	UNP P58335

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Mg 1 1	0	0

- Molecule 3 is UNKNOWN ATOM OR ION (three-letter code: UNX) (formula: X).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	32	Total X 32 32	0	0
3	C	58	Total X 58 58	0	0

- Molecule 4 is water.

<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>	<b>ZeroOcc</b>	<b>AltConf</b>
4	A	3	Total O 3 3	0	0
4	C	1	Total O 1 1	0	0





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	162.56Å 162.56Å 56.88Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	70.39 – 3.29 70.39 – 3.29	Depositor EDS
% Data completeness (in resolution range)	90.1 (70.39-3.29) 84.5 (70.39-3.29)	Depositor EDS
$R_{merge}$	0.34	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.44 (at 3.26Å)	Xtrriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, $R_{free}$	0.282 , 0.314 0.311 , 0.342	Depositor DCC
$R_{free}$ test set	595 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	109.1	Xtrriage
Anisotropy	0.059	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 99.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	0.047 for h,-h-k,-l	Xtrriage
$F_o, F_c$ correlation	0.87	EDS
Total number of atoms	4021	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	121.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 16.06% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: UNX, MG

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	0/1875	0.41	0/2550
1	B	0.23	0/1526	0.40	0/2090
1	C	0.22	0/592	0.38	0/806
All	All	0.24	0/3993	0.40	0/5446

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	1841	0	1763	16	0
1	B	1509	0	1065	11	0
1	C	576	0	533	7	0
2	A	1	0	0	0	0
3	B	32	0	0	0	0
3	C	58	0	0	0	0
4	A	3	0	0	0	0
4	C	1	0	0	0	0
All	All	4021	0	3361	32	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 4.

The worst 5 of 32 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:212:SER:HA	1:B:231:ASP:OD2	2.02	0.59
1:B:5:LEU:H	1:B:6:PRO:HD2	1.68	0.57
1:A:89:LEU:HB2	1:A:124:VAL:HG12	1.87	0.56
1:A:148:ASP:HA	1:A:151:ARG:HD3	1.88	0.56
1:C:12:GLN:HB3	1:C:15:TYR:HD2	1.71	0.55

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	243/257 (95%)	227 (93%)	15 (6%)	1 (0%)	34	66
1	B	238/257 (93%)	218 (92%)	17 (7%)	3 (1%)	12	40
1	C	70/257 (27%)	66 (94%)	4 (6%)	0	100	100
All	All	551/771 (72%)	511 (93%)	36 (6%)	4 (1%)	22	54

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	238	PRO
1	A	126	SER
1	B	5	LEU
1	B	194	LEU

### 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	181/216 (84%)	180 (99%)	1 (1%)	86	91
1	B	76/216 (35%)	76 (100%)	0	100	100
1	C	57/216 (26%)	57 (100%)	0	100	100
All	All	314/648 (48%)	313 (100%)	1 (0%)	92	96

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	128	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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 91 ligands modelled in this entry, 1 is monoatomic and 90 are unknown - 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

There are no such residues in this entry.

## 5.8 Polymer linkage issues

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	247/257 (96%)	0.63	22 (8%) 9 10	83, 117, 148, 232	0
1	B	248/257 (96%)	0.35	16 (6%) 18 18	68, 138, 206, 258	0
1	C	72/257 (28%)	0.44	4 (5%) 24 23	83, 103, 130, 165	0
All	All	567/771 (73%)	0.48	42 (7%) 14 14	68, 119, 192, 258	0

The worst 5 of 42 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	132	ILE	4.7
1	A	126	SER	4.6
1	A	127	SER	3.7
1	B	92	SER	3.3
1	A	234	GLU	3.3

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
3	UNX	C	355	1/1	-0.43	0.90	141,141,141,141	0
3	UNX	C	354	1/1	-0.21	0.72	138,138,138,138	0
3	UNX	C	324	1/1	-0.08	1.03	175,175,175,175	0
3	UNX	C	339	1/1	-0.00	0.91	156,156,156,156	0
3	UNX	B	319	1/1	0.04	0.95	137,137,137,137	0
3	UNX	C	348	1/1	0.06	0.99	156,156,156,156	0
3	UNX	B	309	1/1	0.07	0.64	127,127,127,127	0
3	UNX	C	326	1/1	0.07	1.05	141,141,141,141	0
3	UNX	B	307	1/1	0.14	0.68	150,150,150,150	0
3	UNX	B	314	1/1	0.17	0.66	116,116,116,116	0
3	UNX	C	303	1/1	0.17	0.40	123,123,123,123	0
3	UNX	B	325	1/1	0.23	1.25	138,138,138,138	0
3	UNX	C	305	1/1	0.29	0.54	133,133,133,133	0
3	UNX	C	307	1/1	0.31	0.86	144,144,144,144	0
3	UNX	C	310	1/1	0.32	0.81	121,121,121,121	0
3	UNX	C	323	1/1	0.36	0.78	134,134,134,134	0
3	UNX	C	350	1/1	0.36	0.74	129,129,129,129	0
3	UNX	B	316	1/1	0.37	0.93	135,135,135,135	0
3	UNX	C	317	1/1	0.38	0.83	137,137,137,137	0
3	UNX	C	356	1/1	0.38	0.50	115,115,115,115	0
3	UNX	B	311	1/1	0.39	0.86	136,136,136,136	0
3	UNX	C	336	1/1	0.39	0.91	123,123,123,123	0
3	UNX	B	305	1/1	0.40	0.71	144,144,144,144	0
3	UNX	C	331	1/1	0.41	0.87	130,130,130,130	0
3	UNX	C	318	1/1	0.42	0.69	131,131,131,131	0
3	UNX	C	332	1/1	0.43	0.71	142,142,142,142	0
3	UNX	C	333	1/1	0.45	0.67	113,113,113,113	0
3	UNX	C	308	1/1	0.45	0.86	120,120,120,120	0
3	UNX	B	332	1/1	0.47	0.82	142,142,142,142	0
3	UNX	C	325	1/1	0.49	0.72	146,146,146,146	0
3	UNX	C	313	1/1	0.49	0.81	136,136,136,136	0
3	UNX	B	306	1/1	0.50	0.49	139,139,139,139	0
3	UNX	C	314	1/1	0.50	0.69	123,123,123,123	0
3	UNX	B	312	1/1	0.53	0.90	148,148,148,148	0
3	UNX	C	344	1/1	0.54	0.78	116,116,116,116	0
3	UNX	C	345	1/1	0.56	0.74	115,115,115,115	0
3	UNX	C	301	1/1	0.57	0.62	124,124,124,124	0
3	UNX	C	351	1/1	0.58	0.79	115,115,115,115	0
3	UNX	C	358	1/1	0.59	0.74	133,133,133,133	0
3	UNX	C	338	1/1	0.62	0.80	126,126,126,126	0
3	UNX	C	302	1/1	0.63	0.66	126,126,126,126	0
3	UNX	C	335	1/1	0.64	0.78	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	UNX	C	353	1/1	0.64	0.65	128,128,128,128	0
3	UNX	C	357	1/1	0.64	0.41	108,108,108,108	0
3	UNX	C	306	1/1	0.64	0.73	126,126,126,126	0
3	UNX	C	340	1/1	0.65	0.80	143,143,143,143	0
3	UNX	C	316	1/1	0.65	0.74	138,138,138,138	0
3	UNX	C	352	1/1	0.65	0.72	117,117,117,117	0
3	UNX	B	303	1/1	0.67	0.84	130,130,130,130	0
3	UNX	C	319	1/1	0.67	0.74	136,136,136,136	0
3	UNX	B	308	1/1	0.68	0.59	157,157,157,157	0
3	UNX	B	315	1/1	0.69	0.71	128,128,128,128	0
3	UNX	C	320	1/1	0.69	0.70	135,135,135,135	0
3	UNX	C	349	1/1	0.69	0.80	131,131,131,131	0
3	UNX	C	304	1/1	0.69	0.48	123,123,123,123	0
3	UNX	C	327	1/1	0.70	0.58	99,99,99,99	0
3	UNX	B	304	1/1	0.71	0.96	164,164,164,164	0
3	UNX	B	322	1/1	0.71	0.43	133,133,133,133	0
3	UNX	C	329	1/1	0.74	0.86	135,135,135,135	0
3	UNX	B	301	1/1	0.75	0.81	119,119,119,119	0
3	UNX	B	330	1/1	0.77	0.61	119,119,119,119	0
3	UNX	B	318	1/1	0.77	0.84	128,128,128,128	0
3	UNX	B	327	1/1	0.77	0.91	131,131,131,131	0
3	UNX	C	322	1/1	0.78	0.70	105,105,105,105	0
3	UNX	C	315	1/1	0.78	0.78	118,118,118,118	0
3	UNX	B	310	1/1	0.78	0.66	128,128,128,128	0
3	UNX	B	326	1/1	0.78	0.70	100,100,100,100	0
3	UNX	C	309	1/1	0.79	0.81	119,119,119,119	0
3	UNX	B	321	1/1	0.80	0.78	132,132,132,132	0
3	UNX	C	312	1/1	0.80	0.76	120,120,120,120	0
3	UNX	C	330	1/1	0.80	0.77	110,110,110,110	0
3	UNX	B	320	1/1	0.80	0.71	117,117,117,117	0
3	UNX	C	346	1/1	0.82	0.80	114,114,114,114	0
3	UNX	C	334	1/1	0.82	0.82	140,140,140,140	0
3	UNX	C	343	1/1	0.82	0.76	98,98,98,98	0
3	UNX	C	337	1/1	0.83	0.79	112,112,112,112	0
3	UNX	C	342	1/1	0.84	0.75	95,95,95,95	0
3	UNX	C	347	1/1	0.85	0.84	149,149,149,149	0
3	UNX	B	324	1/1	0.85	0.91	125,125,125,125	0
2	MG	A	300	1/1	0.85	0.15	132,132,132,132	0
3	UNX	B	331	1/1	0.86	0.61	102,102,102,102	0
3	UNX	B	317	1/1	0.86	0.78	118,118,118,118	0
3	UNX	C	341	1/1	0.87	0.91	122,122,122,122	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	UNX	C	311	1/1	0.87	0.76	118,118,118,118	0
3	UNX	B	323	1/1	0.87	0.66	161,161,161,161	0
3	UNX	B	329	1/1	0.89	0.78	119,119,119,119	0
3	UNX	B	328	1/1	0.89	0.76	134,134,134,134	0
3	UNX	B	302	1/1	0.90	0.91	127,127,127,127	0
3	UNX	C	321	1/1	0.90	0.76	112,112,112,112	0
3	UNX	B	313	1/1	0.92	0.77	117,117,117,117	0
3	UNX	C	328	1/1	0.92	0.78	111,111,111,111	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.