



# Full wwPDB X-ray Structure Validation Report ⓘ

May 25, 2020 – 09:26 pm BST

PDB ID : 1GD2  
Title : CRYSTAL STRUCTURE OF BZIP TRANSCRIPTION FACTOR PAP1  
BOUND TO DNA  
Authors : Fujii, Y.; Shimizu, T.; Toda, T.; Yanagida, M.; Hakoshima, T.  
Deposited on : 2000-08-25  
Resolution : 2.00 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](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.

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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 : 2.11  
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) : 2.11

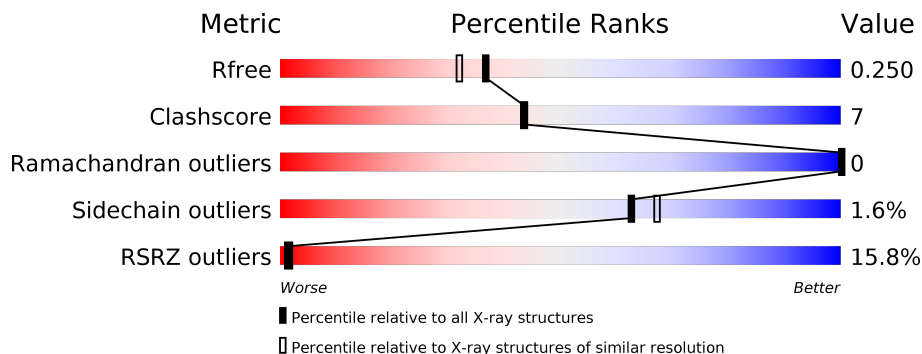
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.00 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.



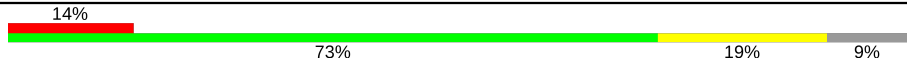
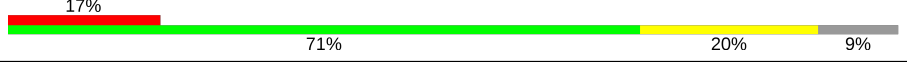
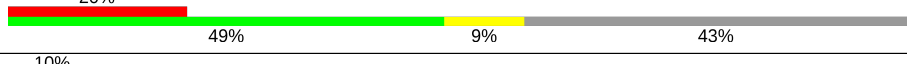

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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 on 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	13	 92% 8%
1	B	13	 85% 15%
1	C	13	 77% 23%
1	D	13	 62% 38%
2	E	70	 10% 84% 9% 7%
2	F	70	 10% 74% 17% 9%

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Mol	Chain	Length	Quality of chain
2	G	70	
2	H	70	
2	I	70	
2	J	70	

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 4287 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 (5'-D(\*AP\*GP\*GP\*TP\*TP\*AP\*CP\*GP\*TP\*AP\*AP\*CP\*C)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	13	Total	C	N	O	P	0	0	0
			264	127	50	75	12			
1	B	13	Total	C	N	O	P	0	0	0
			264	127	50	75	12			
1	C	13	Total	C	N	O	P	0	0	0
			264	127	50	75	12			
1	D	13	Total	C	N	O	P	0	0	0
			264	127	50	75	12			

- Molecule 2 is a protein called TRANSCRIPTION FACTOR PAP1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	E	65	Total	C	N	O	0	0	0
			530	322	106	102			
2	F	64	Total	C	N	O	0	0	0
			521	318	103	100			
2	G	64	Total	C	N	O	0	0	0
			523	318	106	99			
2	H	64	Total	C	N	O	0	0	0
			511	312	100	99			
2	I	40	Total	C	N	O	0	0	0
			253	153	49	51			
2	J	11	Total	C	N	O	0	0	0
			62	38	12	12			

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	80	Total	O	0	0
			80	80		
3	B	79	Total	O	0	0
			79	79		

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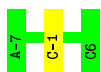
<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
3	C	93	Total 93	O 93	0	0
3	D	87	Total 87	O 87	0	0
3	E	99	Total 99	O 99	0	0
3	F	87	Total 87	O 87	0	0
3	G	130	Total 130	O 130	0	0
3	H	123	Total 123	O 123	0	0
3	I	37	Total 37	O 37	0	0
3	J	16	Total 16	O 16	0	0

### 3 Residue-property plots [i](#)


These plots are drawn for all protein, RNA and DNA 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 (5'-D(\*AP\*GP\*GP\*TP\*TP\*AP\*CP\*GP\*TP\*AP\*AP\*CP\*C)-3')

Chain A: 




- Molecule 1: DNA (5'-D(\*AP\*GP\*GP\*TP\*TP\*AP\*CP\*GP\*TP\*AP\*AP\*CP\*C)-3')

Chain B: 



- Molecule 1: DNA (5'-D(\*AP\*GP\*GP\*TP\*TP\*AP\*CP\*GP\*TP\*AP\*AP\*CP\*C)-3')

Chain C: 




- Molecule 1: DNA (5'-D(\*AP\*GP\*GP\*TP\*TP\*AP\*CP\*GP\*TP\*AP\*AP\*CP\*C)-3')

Chain D: 




- Molecule 2: TRANSCRIPTION FACTOR PAP1

Chain E: 

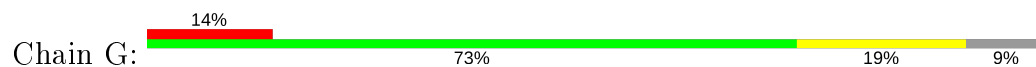


- Molecule 2: TRANSCRIPTION FACTOR PAP1

Chain F: 



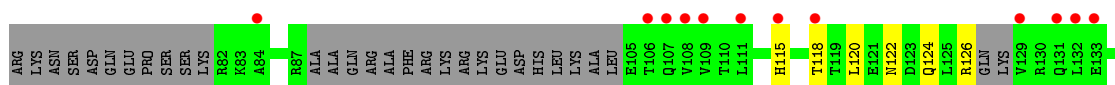
- Molecule 2: TRANSCRIPTION FACTOR PAP1



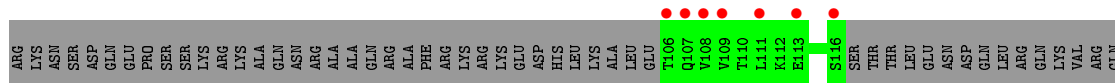
- Molecule 2: TRANSCRIPTION FACTOR PAP1



- Molecule 2: TRANSCRIPTION FACTOR PAP1



- Molecule 2: TRANSCRIPTION FACTOR PAP1



## 4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	240.91Å 240.91Å 43.87Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	20.00 – 2.00 45.53 – 2.00	Depositor EDS
% Data completeness (in resolution range)	83.3 (20.00-2.00) 83.4 (45.53-2.00)	Depositor EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.14 (at 2.00Å)	Xtrriage
Refinement program	CNS 0.9	Depositor
R, $R_{free}$	0.230 , 0.253 0.228 , 0.250	Depositor DCC
$R_{free}$ test set	5434 reflections (10.16%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	25.5	Xtrriage
Anisotropy	0.104	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.29 , 76.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.014 for h,-h-k,-l	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	4287	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	42.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.98% 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 [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	0.43	0/296	0.75	0/455
1	B	0.44	0/296	0.79	0/455
1	C	0.45	0/296	0.76	0/455
1	D	0.45	0/296	0.75	0/455
2	E	0.34	0/533	0.52	0/711
2	F	0.35	0/524	0.54	0/698
2	G	0.36	0/526	0.51	0/701
2	H	0.36	0/514	0.58	0/687
2	I	0.32	0/251	0.49	0/341
2	J	0.37	0/61	0.40	0/83
All	All	0.38	0/3593	0.62	0/5041

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	-1	DC	Sidechain

## 5.2 Too-close contacts [\(i\)](#)

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	264	0	148	0	0
1	B	264	0	148	2	0
1	C	264	0	148	5	0
1	D	264	0	148	4	0
2	E	530	0	540	5	0
2	F	521	0	535	9	0
2	G	523	0	537	10	0
2	H	511	0	515	12	0
2	I	253	0	194	3	0
2	J	62	0	36	0	0
3	A	80	0	0	0	0
3	B	79	0	0	0	0
3	C	93	0	0	1	0
3	D	87	0	0	0	0
3	E	99	0	0	1	0
3	F	87	0	0	2	0
3	G	130	0	0	3	0
3	H	123	0	0	1	0
3	I	37	0	0	1	0
3	J	16	0	0	0	0
All	All	4287	0	2949	43	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 7.

All (43) 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:C:-3:DT:H2''	1:C:-2:DA:H5'	1.40	1.03
1:D:-3:DT:H2''	1:D:-2:DA:H5'	1.45	0.99
1:C:-3:DT:H2''	1:C:-2:DA:C5'	2.09	0.83
2:F:93:PHE:CZ	2:F:97:LYS:HE3	2.24	0.72
2:G:104:LEU:HD23	2:H:104:LEU:HD23	1.74	0.69
2:E:125:LEU:HD21	2:F:126:ARG:HG3	1.78	0.65
2:G:110:THR:HG22	3:G:183:HOH:O	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:-3:DT:C2'	1:D:-2:DA:H5'	2.26	0.63
1:C:1:DG:H1'	3:C:45:HOH:O	1.97	0.63
2:G:108:VAL:HG11	2:H:107:GLN:HE21	1.62	0.63
2:F:97:LYS:HG2	3:F:174:HOH:O	2.01	0.61
2:H:110:THR:O	2:H:114:LEU:HB2	2.01	0.59
2:I:115:HIS:HA	2:I:118:THR:HG22	1.87	0.54
2:H:103:ALA:O	2:H:107:GLN:HB2	2.08	0.54
2:H:87:ARG:NH2	3:H:141:HOH:O	2.41	0.54
1:B:-2:DA:H2''	1:B:-1:DC:H5''	1.91	0.52
1:C:1:DG:N7	2:G:94:ARG:NH2	2.58	0.52
2:G:111:LEU:HD12	3:G:183:HOH:O	2.09	0.52
2:E:97:LYS:HD3	3:E:148:HOH:O	2.11	0.51
2:G:128:LYS:HD2	2:H:129:VAL:HG11	1.93	0.51
2:G:108:VAL:HG11	2:H:107:GLN:NE2	2.25	0.51
1:C:-3:DT:C2'	1:C:-2:DA:C5'	2.86	0.50
2:G:102:LYS:O	2:G:106:THR:HG23	2.12	0.50
2:F:90:GLN:O	2:F:94:ARG:HB2	2.12	0.49
2:F:96:ARG:NH2	3:F:143:HOH:O	2.46	0.47
2:I:122:ASN:O	2:I:126:ARG:HG2	2.15	0.46
1:D:-7:DA:H2''	1:D:-6:DG:OP2	2.17	0.45
2:H:129:VAL:O	2:H:133:GLU:HG2	2.16	0.45
2:F:122:ASN:HB3	2:F:126:ARG:NH1	2.32	0.45
2:E:120:LEU:O	2:E:124:GLN:HG3	2.17	0.44
2:H:112:LYS:HD3	3:I:170:HOH:O	2.19	0.43
2:I:120:LEU:O	2:I:124:GLN:HG2	2.18	0.43
1:D:-6:DG:H2''	1:D:-5:DG:N7	2.34	0.42
2:E:125:LEU:HD21	2:F:126:ARG:CG	2.46	0.42
2:G:95:LYS:HA	2:G:98:GLU:HG2	2.00	0.42
3:G:194:HOH:O	2:H:108:VAL:HG11	2.18	0.42
2:H:124:GLN:O	2:H:127:GLN:HB2	2.20	0.42
2:H:102:LYS:N	2:H:102:LYS:HD2	2.35	0.42
2:F:121:GLU:O	2:F:125:LEU:HG	2.21	0.41
2:F:101:LEU:O	2:F:105:GLU:HG2	2.20	0.41
1:B:-2:DA:C2'	1:B:-1:DC:H5''	2.50	0.41
2:E:128:LYS:HA	2:E:128:LYS:HD2	1.91	0.40
2:G:77:GLU:N	2:G:78:PRO:CD	2.85	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	E	63/70 (90%)	63 (100%)	0	0	100	100
2	F	62/70 (89%)	62 (100%)	0	0	100	100
2	G	62/70 (89%)	61 (98%)	1 (2%)	0	100	100
2	H	62/70 (89%)	61 (98%)	1 (2%)	0	100	100
2	I	34/70 (49%)	33 (97%)	1 (3%)	0	100	100
2	J	9/70 (13%)	9 (100%)	0	0	100	100
All	All	292/420 (70%)	289 (99%)	3 (1%)	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	
2	E	57/65 (88%)	56 (98%)	1 (2%)	59	63
2	F	56/65 (86%)	55 (98%)	1 (2%)	59	63
2	G	56/65 (86%)	55 (98%)	1 (2%)	59	63
2	H	54/65 (83%)	53 (98%)	1 (2%)	57	61
2	I	18/65 (28%)	18 (100%)	0	100	100
2	J	2/65 (3%)	2 (100%)	0	100	100
All	All	243/390 (62%)	239 (98%)	4 (2%)	62	67

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

Mol	Chain	Res	Type
2	E	111	LEU
2	F	114	LEU
2	G	101	LEU
2	H	109	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
2	E	90	GLN
2	E	107	GLN
2	E	124	GLN
2	G	124	GLN
2	H	107	GLN
2	I	124	GLN
2	J	107	GLN

### 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 carbohydrates 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

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	13/13 (100%)	-0.15	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	15, 20, 28, 40	0
1	B	13/13 (100%)	-0.24	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	14, 20, 29, 38	0
1	C	13/13 (100%)	-0.20	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	15, 20, 28, 39	0
1	D	13/13 (100%)	-0.17	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	15, 19, 31, 41	0
2	E	65/70 (92%)	0.75	7 (10%) <span style="border: 1px solid red; padding: 2px;">5</span> <span style="border: 1px solid red; padding: 2px;">5</span>	14, 41, 82, 83	0
2	F	64/70 (91%)	0.67	7 (10%) <span style="border: 1px solid red; padding: 2px;">5</span> <span style="border: 1px solid red; padding: 2px;">5</span>	13, 42, 71, 72	0
2	G	64/70 (91%)	0.80	10 (15%) <span style="border: 1px solid red; padding: 2px;">2</span> <span style="border: 1px solid red; padding: 2px;">1</span>	14, 47, 65, 67	0
2	H	64/70 (91%)	1.00	12 (18%) <span style="border: 1px solid red; padding: 2px;">1</span> <span style="border: 1px solid red; padding: 2px;">1</span>	14, 51, 75, 77	0
2	I	40/70 (57%)	1.80	14 (35%) <span style="border: 1px solid red; padding: 2px;">0</span> <span style="border: 1px solid red; padding: 2px;">0</span>	68, 73, 83, 83	0
2	J	11/70 (15%)	2.65	7 (63%) <span style="border: 1px solid red; padding: 2px;">0</span> <span style="border: 1px solid red; padding: 2px;">0</span>	83, 83, 85, 85	0
All	All	360/472 (76%)	0.83	57 (15%) <span style="border: 1px solid red; padding: 2px;">2</span> <span style="border: 1px solid red; padding: 2px;">1</span>	13, 46, 83, 85	0

All (57) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	J	111	LEU	5.8
2	E	138	ILE	5.4
2	I	139	LEU	4.9
2	E	136	LEU	4.8
2	F	136	LEU	4.7
2	H	137	ARG	4.3
2	J	108	VAL	4.2
2	I	129	VAL	4.2
2	H	138	ILE	4.2
2	E	139	LEU	3.9
2	E	135	GLU	3.8
2	I	109	VAL	3.6
2	I	106	THR	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	I	108	VAL	3.4
2	F	119	THR	3.4
2	H	118	THR	3.4
2	I	107	GLN	3.3
2	H	128	LYS	3.3
2	I	132	LEU	3.2
2	J	109	VAL	3.1
2	I	138	ILE	3.1
2	G	120	LEU	3.0
2	F	126	ARG	3.0
2	J	106	THR	3.0
2	I	133	GLU	3.0
2	G	117	SER	2.9
2	J	113	GLU	2.9
2	F	139	LEU	2.9
2	F	125	LEU	2.8
2	J	116	SER	2.8
2	J	107	GLN	2.7
2	I	118	THR	2.7
2	E	129	VAL	2.6
2	E	137	ARG	2.5
2	G	76	GLN	2.6
2	G	138	ILE	2.5
2	G	114	LEU	2.5
2	H	129	VAL	2.5
2	G	122	ASN	2.4
2	H	125	LEU	2.4
2	H	139	LEU	2.4
2	I	131	GLN	2.4
2	G	132	LEU	2.3
2	H	136	LEU	2.3
2	I	84	ALA	2.3
2	H	110	THR	2.3
2	H	133	GLU	2.2
2	G	113	GLU	2.2
2	G	126	ARG	2.2
2	H	106	THR	2.2
2	E	132	LEU	2.1
2	G	118	THR	2.1
2	F	134	GLU	2.1
2	H	119	THR	2.1
2	F	122	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
2	I	111	LEU	2.1
2	I	115	HIS	2.0

## 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 carbohydrates in this entry.

## 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.