



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:10 PM UTC

PDB ID : 7N0V / pdb_00007n0v
Title : Complex of recombinant Bet v 1 with Fab fragment of REGN5715
Authors : Franklin, M.C.; Romero Hernandez, A.
Deposited on : 2021-05-26
Resolution : 3.71 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

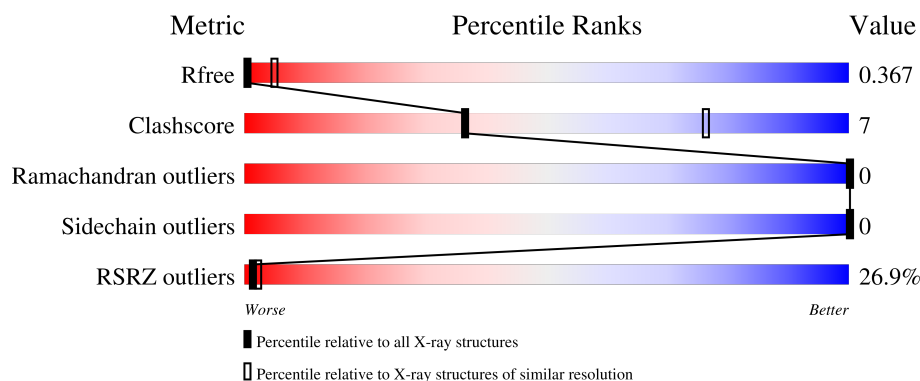
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.71 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	1182 (3.84-3.60)
Clashscore	190562	1222 (3.84-3.60)
Ramachandran outliers	187476	1178 (3.84-3.60)
Sidechain outliers	187428	1174 (3.84-3.60)
RSRZ outliers	180081	1181 (3.84-3.60)

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	H	225	21% 76% 18% 7%
2	L	215	10% 84% 16%
3	C	187	47% 71% 14% 15%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4482 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 REGN5715 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	210	Total	C	N	O	S	0	0	0
			1603	1020	265	310	8			

- Molecule 2 is a protein called REGN5715 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	215	Total	C	N	O	S	0	0	0
			1650	1031	279	335	5			

- Molecule 3 is a protein called Major pollen allergen Bet v 1-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	159	Total	C	N	O	S	0	0	0
			1229	783	202	243	1			

There are 29 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	62	LEU	PHE	engineered mutation	UNP P15494
C	160	GLU	-	expression tag	UNP P15494
C	161	GLN	-	expression tag	UNP P15494
C	162	LYS	-	expression tag	UNP P15494
C	163	LEU	-	expression tag	UNP P15494
C	164	ILE	-	expression tag	UNP P15494
C	165	SER	-	expression tag	UNP P15494
C	166	GLU	-	expression tag	UNP P15494
C	167	GLU	-	expression tag	UNP P15494
C	168	ASP	-	expression tag	UNP P15494
C	169	LEU	-	expression tag	UNP P15494
C	170	GLY	-	expression tag	UNP P15494
C	171	GLY	-	expression tag	UNP P15494
C	172	GLU	-	expression tag	UNP P15494

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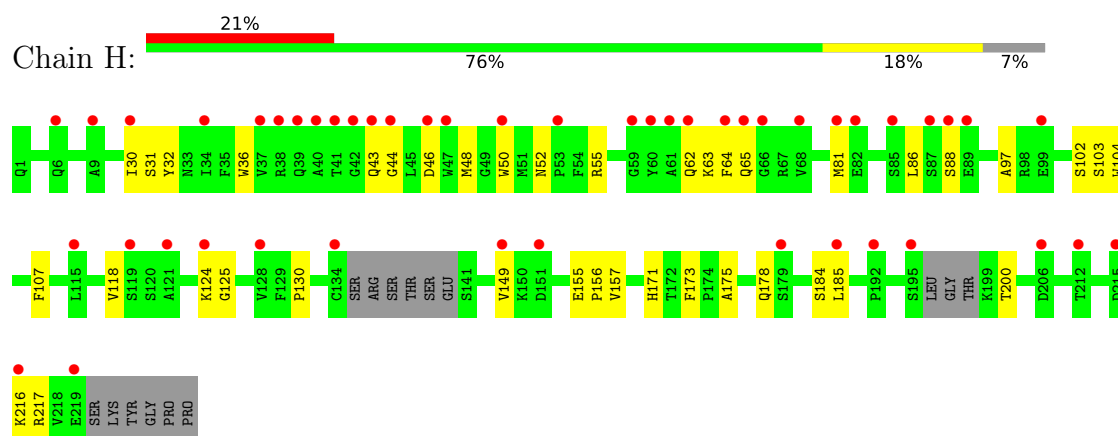
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Chain	Residue	Modelled	Actual	Comment	Reference
C	173	GLN	-	expression tag	UNP P15494
C	174	LYS	-	expression tag	UNP P15494
C	175	LEU	-	expression tag	UNP P15494
C	176	ILE	-	expression tag	UNP P15494
C	177	SER	-	expression tag	UNP P15494
C	178	GLU	-	expression tag	UNP P15494
C	179	GLU	-	expression tag	UNP P15494
C	180	ASP	-	expression tag	UNP P15494
C	181	LEU	-	expression tag	UNP P15494
C	182	HIS	-	expression tag	UNP P15494
C	183	HIS	-	expression tag	UNP P15494
C	184	HIS	-	expression tag	UNP P15494
C	185	HIS	-	expression tag	UNP P15494
C	186	HIS	-	expression tag	UNP P15494
C	187	HIS	-	expression tag	UNP P15494

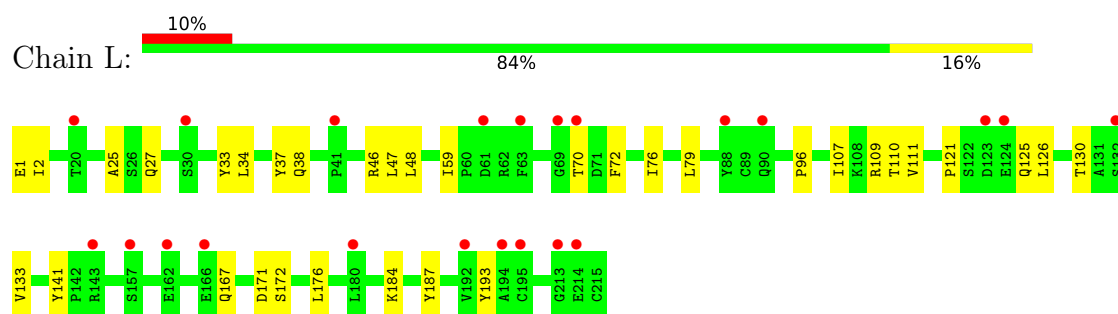
3 Residue-property plots [i](#)

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.

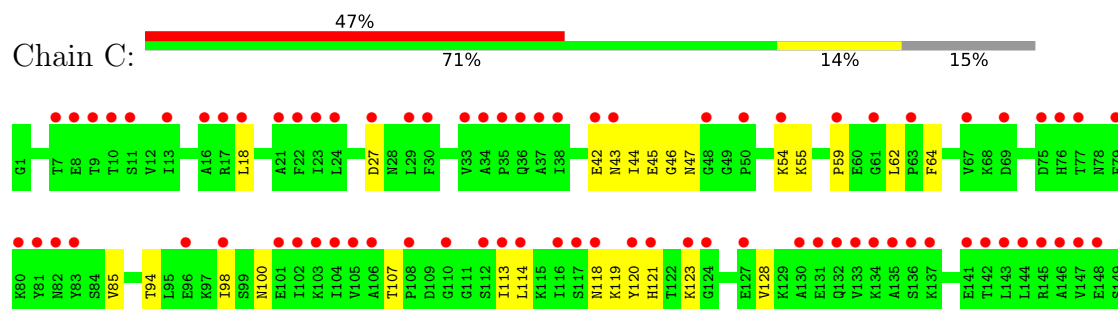
- Molecule 1: REGN5715 Fab heavy chain



- Molecule 2: REGN5715 Fab light chain



- Molecule 3: Major pollen allergen Bet v 1-A



Y150	GLU
L151	GLN
L152	LYS
A153	LEU
H154	ILE
S155	SER
D156	GLU
A157	GLU
Y158	GLU
N159	ASP
	LEU
	GLY
	GLY
	GLU
	GLN
	LYS
	LEU
	ILE
	SER
	GLU
	GLU
	ASP
	LEU
	HIS
	HIS
	HIS
	HIS
	HIS

4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α , β , γ	133.10Å 133.10Å 145.42Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.09 – 3.71 49.09 – 3.71	Depositor EDS
% Data completeness (in resolution range)	95.0 (49.09-3.71) 95.1 (49.09-3.71)	Depositor EDS
R_{merge}	0.30	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 3.67Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.327 , 0.378 0.324 , 0.367	Depositor DCC
R_{free} test set	380 reflections (4.44%)	wwPDB-VP
Wilson B-factor (Å ²)	34.4	Xtriage
Anisotropy	0.388	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 24.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.73	EDS
Total number of atoms	4482	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.13% 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 [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	H	0.10	0/1646	0.32	0/2242
2	L	0.10	0/1687	0.33	0/2290
3	C	0.08	0/1254	0.27	0/1696
All	All	0.10	0/4587	0.31	0/6228

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 [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	H	1603	0	1541	31	0
2	L	1650	0	1596	20	0
3	C	1229	0	1221	24	0
All	All	4482	0	4358	64	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 (64) 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:H:52:ASN:HD21	1:H:55:ARG:HH11	1.28	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:46:ASP:OD2	1:H:63:LYS:NZ	2.17	0.77
2:L:109:ARG:NH1	2:L:171:ASP:O	2.21	0.73
1:H:155:GLU:HG2	1:H:156:PRO:HA	1.70	0.72
3:C:120:TYR:HD2	3:C:128:VAL:HG11	1.55	0.72
1:H:178:GLN:HE21	1:H:184:SER:HB2	1.55	0.71
2:L:2:ILE:HG12	2:L:27:GLN:HB2	1.75	0.67
2:L:33:TYR:OH	3:C:42:GLU:OE2	2.13	0.65
2:L:121:PRO:HD3	2:L:133:VAL:HG22	1.80	0.64
3:C:44:ILE:HD11	3:C:55:LYS:HB2	1.80	0.61
2:L:1:GLU:HG2	2:L:96:PRO:HG2	1.83	0.60
1:H:175:ALA:HB2	1:H:185:LEU:HD23	1.84	0.60
1:H:97:ALA:HB1	1:H:107:PHE:HB3	1.86	0.57
1:H:62:GLN:O	1:H:65:GLN:NE2	2.38	0.56
1:H:149:VAL:HG11	1:H:157:VAL:HG21	1.86	0.56
1:H:102:SER:HB2	3:C:43:ASN:HD22	1.72	0.55
3:C:119:LYS:HE2	3:C:121:HIS:CE1	2.42	0.54
1:H:32:TYR:OH	3:C:45:GLU:OE2	2.26	0.53
1:H:104:TRP:CD1	3:C:44:ILE:HA	2.44	0.53
3:C:18:LEU:HD21	3:C:114:LEU:HD11	1.91	0.52
3:C:119:LYS:HE2	3:C:121:HIS:HE1	1.74	0.52
3:C:85:VAL:HB	3:C:98:ILE:HB	1.92	0.52
1:H:36:TRP:CE2	1:H:81:MET:HB2	2.45	0.51
1:H:31:SER:O	3:C:47:ASN:N	2.43	0.50
2:L:48:LEU:HD22	2:L:59:ILE:HD12	1.95	0.49
3:C:107:THR:HG21	3:C:113:ILE:HG23	1.94	0.49
3:C:43:ASN:HA	3:C:54:LYS:HG2	1.94	0.49
1:H:104:TRP:HD1	3:C:43:ASN:O	1.96	0.49
1:H:171:HIS:HB3	1:H:173:PHE:HE1	1.76	0.49
1:H:103:SER:HB3	3:C:43:ASN:O	2.14	0.48
1:H:130:PRO:HD3	1:H:216:LYS:HE2	1.94	0.48
2:L:34:LEU:HD13	2:L:72:PHE:CD2	2.49	0.47
2:L:38:GLN:OE1	2:L:46:ARG:NH2	2.47	0.47
2:L:25:ALA:O	2:L:70:THR:OG1	2.32	0.46
2:L:107:ILE:H	2:L:107:ILE:HD12	1.81	0.46
2:L:76:ILE:HG21	2:L:79:LEU:HD23	1.98	0.46
2:L:126:LEU:O	2:L:184:LYS:HD2	2.16	0.46
1:H:52:ASN:ND2	1:H:55:ARG:HD2	2.30	0.45
1:H:86:LEU:HB3	1:H:118:VAL:HG21	1.99	0.45
3:C:100:ASN:OD1	3:C:118:ASN:ND2	2.42	0.45
2:L:125:GLN:HG2	2:L:130:THR:O	2.15	0.45
1:H:43:GLN:HG2	1:H:44:GLY:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:27:ASP:OD2	3:C:54:LYS:HE3	2.16	0.45
1:H:124:LYS:HD3	1:H:125:GLY:O	2.17	0.44
1:H:200:THR:HG22	1:H:217:ARG:HH21	1.82	0.44
1:H:30:ILE:O	3:C:47:ASN:ND2	2.47	0.44
1:H:55:ARG:NH2	3:C:47:ASN:O	2.49	0.44
3:C:62:LEU:HD13	3:C:64:PHE:C	2.43	0.44
1:H:88:SER:HA	1:H:118:VAL:O	2.18	0.43
2:L:187:TYR:HA	2:L:193:TYR:OH	2.18	0.43
1:H:48:MET:HG2	1:H:64:PHE:CE2	2.54	0.42
2:L:167:GLN:HE21	2:L:172:SER:HB3	1.85	0.42
2:L:111:VAL:HG13	2:L:141:TYR:O	2.19	0.42
2:L:47:LEU:O	2:L:48:LEU:HD23	2.20	0.42
1:H:173:PHE:HE2	2:L:176:LEU:C	2.28	0.42
1:H:173:PHE:N	1:H:173:PHE:CD1	2.88	0.42
3:C:43:ASN:ND2	3:C:46:GLY:O	2.50	0.41
3:C:94:THR:HG22	3:C:123:LYS:HD3	2.03	0.41
3:C:59:PRO:O	3:C:62:LEU:HB3	2.20	0.41
1:H:107:PHE:N	2:L:37:TYR:OH	2.51	0.40
1:H:50:TRP:HZ3	1:H:52:ASN:HB2	1.85	0.40
3:C:62:LEU:H	3:C:62:LEU:HG	1.74	0.40
1:H:155:GLU:HG2	1:H:156:PRO:CA	2.46	0.40
2:L:109:ARG:NE	2:L:110:THR:O	2.51	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	
1	H	204/225 (91%)	200 (98%)	4 (2%)	0	100	100
2	L	213/215 (99%)	207 (97%)	6 (3%)	0	100	100
3	C	157/187 (84%)	155 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	574/627 (92%)	562 (98%)	12 (2%)	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	H	178/191 (93%)	178 (100%)	0	100	100
2	L	186/186 (100%)	186 (100%)	0	100	100
3	C	134/160 (84%)	134 (100%)	0	100	100
All	All	498/537 (93%)	498 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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

Mol	Chain	Res	Type
1	H	52	ASN
1	H	178	GLN
2	L	167	GLN
3	C	43	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

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	H	210/225 (93%)	1.50	48 (22%) 2 3	22, 43, 73, 129	0
2	L	215/215 (100%)	1.14	22 (10%) 12 12	21, 44, 69, 113	0
3	C	159/187 (85%)	2.31	87 (54%) 0 0	37, 102, 157, 188	0
All	All	584/627 (93%)	1.59	157 (26%) 1 2	21, 52, 129, 188	0

All (157) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	22	PHE	9.3
3	C	143	LEU	7.0
3	C	144	LEU	6.7
3	C	18	LEU	5.7
1	H	44	GLY	5.2
3	C	147	VAL	5.2
3	C	151	LEU	4.9
3	C	69	ASP	4.8
1	H	41	THR	4.8
3	C	130	ALA	4.7
3	C	150	TYR	4.6
1	H	53	PRO	4.5
3	C	132	GLN	4.4
3	C	101	GLU	4.3
1	H	47	TRP	4.2
3	C	30	PHE	4.2
3	C	34	ALA	3.9
3	C	154	HIS	3.9
1	H	65	GLN	3.8
3	C	81	TYR	3.8
3	C	102	ILE	3.7
1	H	42	GLY	3.7
3	C	76	HIS	3.6

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Mol	Chain	Res	Type	RSRZ
1	H	9	ALA	3.6
1	H	68	VAL	3.4
3	C	146	ALA	3.4
2	L	70	THR	3.4
1	H	50	TRP	3.4
1	H	62	GLN	3.4
3	C	21	ALA	3.3
3	C	104	ILE	3.3
3	C	38	ILE	3.2
1	H	46	ASP	3.2
1	H	40	ALA	3.2
3	C	23	ILE	3.2
3	C	136	SER	3.2
3	C	9	THR	3.1
2	L	123	ASP	3.1
3	C	148	GLU	3.1
3	C	116	ILE	3.1
1	H	39	GLN	3.0
2	L	192	VAL	3.0
3	C	79	PHE	3.0
3	C	82	ASN	3.0
3	C	152	LEU	3.0
3	C	131	GLU	3.0
3	C	114	LEU	3.0
3	C	158	TYR	3.0
3	C	83	TYR	2.9
3	C	145	ARG	2.9
2	L	180	LEU	2.9
1	H	81	MET	2.9
1	H	206	ASP	2.9
3	C	135	ALA	2.9
3	C	77	THR	2.8
1	H	66	GLY	2.8
3	C	153	ALA	2.8
3	C	24	LEU	2.8
3	C	133	VAL	2.8
3	C	36	GLN	2.8
3	C	80	LYS	2.8
1	H	215	ASP	2.8
3	C	67	VAL	2.8
1	H	43	GLN	2.8
3	C	8	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
3	C	106	ALA	2.7
1	H	219	GLU	2.7
3	C	123	LYS	2.7
3	C	120	TYR	2.7
3	C	112	SER	2.7
3	C	63	PRO	2.6
3	C	124	GLY	2.6
3	C	98	ILE	2.6
1	H	115	LEU	2.6
1	H	34	ILE	2.5
1	H	124	LYS	2.5
2	L	124	GLU	2.5
3	C	42	GLU	2.5
3	C	11	SER	2.5
3	C	108	PRO	2.5
1	H	85	SER	2.5
2	L	157	SER	2.5
3	C	127	GLU	2.5
3	C	43	ASN	2.5
3	C	110	GLY	2.5
2	L	195	CYS	2.5
1	H	149	VAL	2.5
3	C	33	VAL	2.5
1	H	59	GLY	2.5
3	C	156	ASP	2.5
3	C	113	ILE	2.4
2	L	166	GLU	2.4
3	C	157	ALA	2.4
1	H	38	ARG	2.4
3	C	10	THR	2.4
3	C	117	SER	2.4
3	C	155	SER	2.4
1	H	185	LEU	2.4
3	C	96	GLU	2.4
1	H	119	SER	2.4
3	C	142	THR	2.4
1	H	89	GLU	2.4
2	L	69	GLY	2.4
3	C	103	LYS	2.4
3	C	48	GLY	2.3
2	L	20	THR	2.3
1	H	195	SER	2.3

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Mol	Chain	Res	Type	RSRZ
2	L	213	GLY	2.3
3	C	35	PRO	2.3
1	H	134	CYS	2.3
1	H	61	ALA	2.3
2	L	194	ALA	2.3
2	L	63	PHE	2.3
3	C	61	GLY	2.3
3	C	159	ASN	2.3
3	C	29	LEU	2.3
3	C	16	ALA	2.3
3	C	137	LYS	2.3
3	C	75	ASP	2.3
1	H	64	PHE	2.2
3	C	54	LYS	2.2
3	C	13	ILE	2.2
1	H	60	TYR	2.2
1	H	82	GLU	2.2
2	L	214	GLU	2.2
3	C	141	GLU	2.2
2	L	132	SER	2.2
2	L	162	GLU	2.2
3	C	27	ASP	2.2
1	H	37	VAL	2.1
3	C	50	PRO	2.1
3	C	59	PRO	2.1
3	C	105	VAL	2.1
2	L	88	TYR	2.1
3	C	17	ARG	2.1
1	H	6	GLN	2.1
2	L	143	ARG	2.1
1	H	88	SER	2.1
1	H	179	SER	2.1
2	L	30	SER	2.1
1	H	128	VAL	2.1
1	H	151	ASP	2.1
1	H	192	PRO	2.1
3	C	7	THR	2.1
1	H	121	ALA	2.1
1	H	87	SER	2.1
2	L	61	ASP	2.1
1	H	30	ILE	2.1
3	C	121	HIS	2.0

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Mol	Chain	Res	Type	RSRZ
2	L	41	PRO	2.0
3	C	118	ASN	2.0
1	H	212	THR	2.0
3	C	37	ALA	2.0
2	L	90	GLN	2.0
1	H	216	LYS	2.0
3	C	134	LYS	2.0
1	H	99	GLU	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 oligosaccharides 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.