



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 30, 2026 – 08:21 AM UTC

PDB ID : 6YFG / pdb_00006yfg
Title : Virus-like particle of Beihai levi-like virus 32
Authors : Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on : 2020-03-26
Resolution : 3.90 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	:	FAILED
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

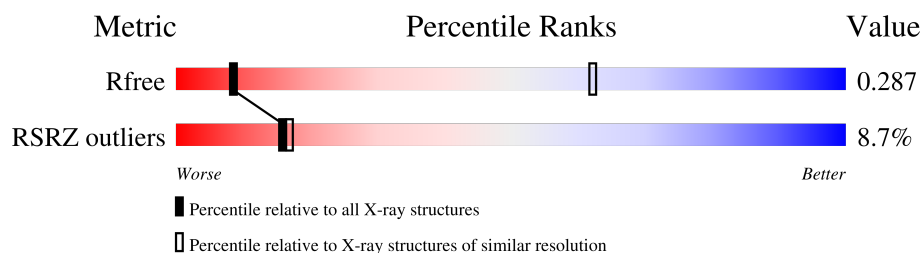
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.90 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	1270 (4.10-3.70)
RSRZ outliers	180081	1269 (4.10-3.70)

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 363000 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 coat protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	AZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	BZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	CZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	DZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ED	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	ER	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ES	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ET	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	EZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	FM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	FZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	GH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	GZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	HZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ID	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	II	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	IS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	IZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	JN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	JZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	KI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	KZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	LD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	LY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	LZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MD	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ME	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ML	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	MT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MW	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MX	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MY	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	MZ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NA	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NB	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NC	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	ND	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NE	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NF	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NG	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NH	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NI	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NJ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NK	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NL	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NM	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NN	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	NO	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NP	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NQ	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NR	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NS	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NT	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NU	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			
1	NV	130	Total	C	N	O	S	0	0	0
			1008	641	169	196	2			

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	AB	1	Total	Ca	0	0
			1	1		
2	AH	1	Total	Ca	0	0
			1	1		
2	AJ	1	Total	Ca	0	0
			1	1		
2	AK	1	Total	Ca	0	0
			1	1		
2	AN	1	Total	Ca	0	0
			1	1		
2	AQ	1	Total	Ca	0	0
			1	1		
2	AT	1	Total	Ca	0	0
			1	1		
2	AW	1	Total	Ca	0	0
			1	1		
2	AZ	1	Total	Ca	0	0
			1	1		
2	BB	1	Total	Ca	0	0
			1	1		
2	BC	1	Total	Ca	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	BF	1	Total	Ca	0	0
			1	1		
2	BI	1	Total	Ca	0	0
			1	1		
2	BL	1	Total	Ca	0	0
			1	1		
2	BO	1	Total	Ca	0	0
			1	1		
2	BU	1	Total	Ca	0	0
			1	1		
2	BX	1	Total	Ca	0	0
			1	1		
2	CA	1	Total	Ca	0	0
			1	1		
2	CD	1	Total	Ca	0	0
			1	1		
2	CG	1	Total	Ca	0	0
			1	1		
2	CJ	1	Total	Ca	0	0
			1	1		
2	CM	1	Total	Ca	0	0
			1	1		
2	CO	1	Total	Ca	0	0
			1	1		
2	CP	1	Total	Ca	0	0
			1	1		
2	CS	1	Total	Ca	0	0
			1	1		
2	CV	1	Total	Ca	0	0
			1	1		
2	CY	1	Total	Ca	0	0
			1	1		
2	DB	1	Total	Ca	0	0
			1	1		
2	DE	1	Total	Ca	0	0
			1	1		
2	DH	1	Total	Ca	0	0
			1	1		
2	DQ	1	Total	Ca	0	0
			1	1		
2	DT	1	Total	Ca	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	DW	1	Total	Ca	0	0
			1	1		
2	DZ	1	Total	Ca	0	0
			1	1		
2	EB	1	Total	Ca	0	0
			1	1		
2	EC	1	Total	Ca	0	0
			1	1		
2	EF	1	Total	Ca	0	0
			1	1		
2	EI	1	Total	Ca	0	0
			1	1		
2	EL	1	Total	Ca	0	0
			1	1		
2	EO	1	Total	Ca	0	0
			1	1		
2	ER	1	Total	Ca	0	0
			1	1		
2	EU	1	Total	Ca	0	0
			1	1		
2	EX	1	Total	Ca	0	0
			1	1		
2	FA	1	Total	Ca	0	0
			1	1		
2	FD	1	Total	Ca	0	0
			1	1		
2	FG	1	Total	Ca	0	0
			1	1		
2	FJ	1	Total	Ca	0	0
			1	1		
2	FM	1	Total	Ca	0	0
			1	1		
2	FS	1	Total	Ca	0	0
			1	1		
2	FV	1	Total	Ca	0	0
			1	1		
2	FY	1	Total	Ca	0	0
			1	1		
2	GB	1	Total	Ca	0	0
			1	1		
2	GE	1	Total	Ca	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	GH	1	Total 1	Ca 1	0	0
2	GK	1	Total 1	Ca 1	0	0
2	GN	1	Total 1	Ca 1	0	0
2	GQ	1	Total 1	Ca 1	0	0
2	GS	1	Total 1	Ca 1	0	0
2	GT	1	Total 1	Ca 1	0	0
2	GW	1	Total 1	Ca 1	0	0
2	GZ	1	Total 1	Ca 1	0	0
2	HC	1	Total 1	Ca 1	0	0
2	HF	1	Total 1	Ca 1	0	0
2	HI	1	Total 1	Ca 1	0	0
2	HL	1	Total 1	Ca 1	0	0
2	HO	1	Total 1	Ca 1	0	0
2	HR	1	Total 1	Ca 1	0	0
2	HU	1	Total 1	Ca 1	0	0
2	HX	1	Total 1	Ca 1	0	0
2	IA	1	Total 1	Ca 1	0	0
2	ID	1	Total 1	Ca 1	0	0
2	IG	1	Total 1	Ca 1	0	0
2	IJ	1	Total 1	Ca 1	0	0
2	IM	1	Total 1	Ca 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	IS	1	Total 1	Ca 1	0	0
2	IV	1	Total 1	Ca 1	0	0
2	IY	1	Total 1	Ca 1	0	0
2	JB	1	Total 1	Ca 1	0	0
2	JD	1	Total 1	Ca 1	0	0
2	JE	1	Total 1	Ca 1	0	0
2	JH	1	Total 1	Ca 1	0	0
2	JN	1	Total 1	Ca 1	0	0
2	JQ	1	Total 1	Ca 1	0	0
2	JT	1	Total 1	Ca 1	0	0
2	JW	1	Total 1	Ca 1	0	0
2	JZ	1	Total 1	Ca 1	0	0
2	KC	1	Total 1	Ca 1	0	0
2	KF	1	Total 1	Ca 1	0	0
2	KI	1	Total 1	Ca 1	0	0
2	KL	1	Total 1	Ca 1	0	0
2	KO	1	Total 1	Ca 1	0	0
2	KR	1	Total 1	Ca 1	0	0
2	KU	1	Total 1	Ca 1	0	0
2	KX	1	Total 1	Ca 1	0	0
2	KZ	1	Total 1	Ca 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	LA	1	Total 1	Ca 1	0	0
2	LD	1	Total 1	Ca 1	0	0
2	LG	1	Total 1	Ca 1	0	0
2	LJ	1	Total 1	Ca 1	0	0
2	LM	1	Total 1	Ca 1	0	0
2	LP	1	Total 1	Ca 1	0	0
2	LS	1	Total 1	Ca 1	0	0
2	LV	1	Total 1	Ca 1	0	0
2	LY	1	Total 1	Ca 1	0	0
2	MB	1	Total 1	Ca 1	0	0
2	ME	1	Total 1	Ca 1	0	0
2	MH	1	Total 1	Ca 1	0	0
2	MK	1	Total 1	Ca 1	0	0
2	MN	1	Total 1	Ca 1	0	0
2	MQ	1	Total 1	Ca 1	0	0
2	MT	1	Total 1	Ca 1	0	0
2	MW	1	Total 1	Ca 1	0	0
2	MZ	1	Total 1	Ca 1	0	0
2	NC	1	Total 1	Ca 1	0	0
2	NF	1	Total 1	Ca 1	0	0
2	NI	1	Total 1	Ca 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	NL	1	Total 1	Ca 1	0	0
2	NO	1	Total 1	Ca 1	0	0
2	NR	1	Total 1	Ca 1	0	0
2	NU	1	Total 1	Ca 1	0	0

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3 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	291.94Å 292.53Å 469.20Å 75.79° 77.92° 69.51°	Depositor
Resolution (Å)	49.83 – 3.90 49.83 – 3.90	Depositor EDS
% Data completeness (in resolution range)	95.4 (49.83-3.90) 96.2 (49.83-3.90)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.02 (at 3.88Å)	Xtriage
Refinement program	PHENIX 1.14 _3260	Depositor
R, R_{free}	0.282 , 0.285 0.283 , 0.287	Depositor DCC
R_{free} test set	20043 reflections (1.63%)	wwPDB-VP
Wilson B-factor (Å ²)	146.8	Xtriage
Anisotropy	0.146	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 145.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.21$	Xtriage
Estimated twinning fraction	0.087 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	363000	wwPDB-VP
Average B, all atoms (Å ²)	170.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.26% 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.

4 Model quality [i](#)

4.1 Standard geometry [i](#)

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4.2 Too-close contacts [i](#)

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4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

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4.3.2 Protein sidechains [i](#)

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4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

Of 120 ligands modelled in this entry, 120 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.

4.7 Other polymers

There are no such residues in this entry.

4.8 Polymer linkage issues

There are no chain breaks in this entry.

5 Fit of model and data ⓘ

5.1 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	AA	130/130 (100%)	0.56	10 (7%) 19 18	111, 164, 226, 246	0
1	AB	130/130 (100%)	0.44	7 (5%) 31 25	110, 166, 236, 289	0
1	AC	130/130 (100%)	0.63	8 (6%) 26 23	110, 168, 223, 278	0
1	AD	130/130 (100%)	0.57	9 (6%) 23 20	111, 164, 226, 246	0
1	AE	130/130 (100%)	0.84	15 (11%) 9 12	110, 166, 236, 289	0
1	AF	130/130 (100%)	0.64	14 (10%) 11 14	110, 168, 223, 278	0
1	AG	130/130 (100%)	0.70	9 (6%) 23 20	111, 164, 226, 246	0
1	AH	130/130 (100%)	0.73	14 (10%) 11 14	110, 166, 236, 289	0
1	AI	130/130 (100%)	0.61	14 (10%) 11 14	110, 168, 223, 278	0
1	AJ	130/130 (100%)	0.54	10 (7%) 19 18	111, 164, 226, 246	0
1	AK	130/130 (100%)	0.71	10 (7%) 19 18	110, 166, 236, 289	0
1	AL	130/130 (100%)	0.68	9 (6%) 23 20	110, 168, 223, 278	0
1	AM	130/130 (100%)	0.62	14 (10%) 11 14	111, 164, 226, 246	0
1	AN	130/130 (100%)	0.70	9 (6%) 23 20	110, 166, 236, 289	0
1	AO	130/130 (100%)	0.52	9 (6%) 23 20	110, 168, 223, 278	0
1	AP	130/130 (100%)	0.42	4 (3%) 51 36	111, 164, 226, 246	0
1	AQ	130/130 (100%)	0.42	7 (5%) 31 25	110, 166, 236, 289	0
1	AR	130/130 (100%)	0.61	13 (10%) 12 15	110, 168, 223, 278	0
1	AS	130/130 (100%)	0.57	13 (10%) 12 15	111, 164, 226, 246	0
1	AT	130/130 (100%)	0.61	10 (7%) 19 18	110, 166, 236, 289	0
1	AU	130/130 (100%)	0.83	18 (13%) 6 10	110, 168, 223, 278	0
1	AV	130/130 (100%)	0.58	10 (7%) 19 18	111, 164, 226, 246	0
1	AW	130/130 (100%)	0.75	8 (6%) 26 23	110, 166, 236, 289	0
1	AX	130/130 (100%)	0.70	15 (11%) 9 12	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AY	130/130 (100%)	0.73	12 (9%) 14 16	111, 164, 226, 246	0
1	AZ	130/130 (100%)	0.78	14 (10%) 11 14	110, 166, 236, 289	0
1	BA	130/130 (100%)	0.75	15 (11%) 9 12	110, 168, 223, 278	0
1	BB	130/130 (100%)	0.60	7 (5%) 31 25	111, 164, 226, 246	0
1	BC	130/130 (100%)	0.74	12 (9%) 14 16	110, 166, 236, 289	0
1	BD	130/130 (100%)	0.55	10 (7%) 19 18	110, 168, 223, 278	0
1	BE	130/130 (100%)	0.65	13 (10%) 12 15	111, 164, 226, 246	0
1	BF	130/130 (100%)	0.63	13 (10%) 12 15	110, 166, 236, 289	0
1	BG	130/130 (100%)	0.63	8 (6%) 26 23	110, 168, 223, 278	0
1	BH	130/130 (100%)	0.34	7 (5%) 31 25	111, 164, 226, 246	0
1	BI	130/130 (100%)	0.69	14 (10%) 11 14	110, 166, 236, 289	0
1	BJ	130/130 (100%)	0.63	12 (9%) 14 16	110, 168, 223, 278	0
1	BK	130/130 (100%)	0.45	7 (5%) 31 25	111, 164, 226, 246	0
1	BL	130/130 (100%)	0.65	15 (11%) 9 12	110, 166, 236, 289	0
1	BM	130/130 (100%)	0.70	13 (10%) 12 15	110, 168, 223, 278	0
1	BN	130/130 (100%)	0.57	13 (10%) 12 15	111, 164, 226, 246	0
1	BO	130/130 (100%)	0.57	8 (6%) 26 23	110, 166, 236, 289	0
1	BP	130/130 (100%)	0.48	8 (6%) 26 23	110, 168, 223, 278	0
1	BQ	130/130 (100%)	0.43	9 (6%) 23 20	111, 164, 226, 246	0
1	BR	130/130 (100%)	0.77	14 (10%) 11 14	110, 166, 236, 289	0
1	BS	130/130 (100%)	0.64	8 (6%) 26 23	110, 168, 223, 278	0
1	BT	130/130 (100%)	0.57	14 (10%) 11 14	111, 164, 226, 246	0
1	BU	130/130 (100%)	0.59	9 (6%) 23 20	110, 166, 236, 289	0
1	BV	130/130 (100%)	0.66	9 (6%) 23 20	110, 168, 223, 278	0
1	BW	130/130 (100%)	0.56	8 (6%) 26 23	111, 164, 226, 246	0
1	BX	130/130 (100%)	0.57	10 (7%) 19 18	110, 166, 236, 289	0
1	BY	130/130 (100%)	0.56	9 (6%) 23 20	110, 168, 223, 278	0
1	BZ	130/130 (100%)	0.65	12 (9%) 14 16	111, 164, 226, 246	0
1	CA	130/130 (100%)	0.53	6 (4%) 37 28	110, 166, 236, 289	0
1	CB	130/130 (100%)	0.69	15 (11%) 9 12	110, 168, 223, 278	0
1	CC	130/130 (100%)	0.82	18 (13%) 6 10	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	CD	130/130 (100%)	0.61	10 (7%) 19 18	110, 166, 236, 289	0
1	CE	130/130 (100%)	0.61	9 (6%) 23 20	110, 168, 223, 278	0
1	CF	130/130 (100%)	0.57	7 (5%) 31 25	111, 164, 226, 246	0
1	CG	130/130 (100%)	0.56	13 (10%) 12 15	110, 166, 236, 289	0
1	CH	130/130 (100%)	0.80	19 (14%) 6 9	110, 168, 223, 278	0
1	CI	130/130 (100%)	0.55	10 (7%) 19 18	111, 164, 226, 246	0
1	CJ	130/130 (100%)	0.78	11 (8%) 16 17	110, 166, 236, 289	0
1	CK	130/130 (100%)	0.65	13 (10%) 12 15	110, 168, 223, 278	0
1	CL	130/130 (100%)	0.56	9 (6%) 23 20	111, 164, 226, 246	0
1	CM	130/130 (100%)	0.65	12 (9%) 14 16	110, 166, 236, 289	0
1	CN	130/130 (100%)	0.73	9 (6%) 23 20	110, 168, 223, 278	0
1	CO	130/130 (100%)	0.43	3 (2%) 61 43	111, 164, 226, 246	0
1	CP	130/130 (100%)	0.72	15 (11%) 9 12	110, 166, 236, 289	0
1	CQ	130/130 (100%)	0.57	8 (6%) 26 23	110, 168, 223, 278	0
1	CR	130/130 (100%)	0.83	14 (10%) 11 14	111, 164, 226, 246	0
1	CS	130/130 (100%)	0.70	12 (9%) 14 16	110, 166, 236, 289	0
1	CT	130/130 (100%)	0.61	8 (6%) 26 23	110, 168, 223, 278	0
1	CU	130/130 (100%)	0.61	13 (10%) 12 15	111, 164, 226, 246	0
1	CV	130/130 (100%)	0.63	12 (9%) 14 16	110, 166, 236, 289	0
1	CW	130/130 (100%)	0.65	11 (8%) 16 17	110, 168, 223, 278	0
1	CX	130/130 (100%)	0.57	9 (6%) 23 20	111, 164, 226, 246	0
1	CY	130/130 (100%)	0.69	13 (10%) 12 15	110, 166, 236, 289	0
1	CZ	130/130 (100%)	0.58	8 (6%) 26 23	110, 168, 223, 278	0
1	DA	130/130 (100%)	0.60	15 (11%) 9 12	111, 164, 226, 246	0
1	DB	130/130 (100%)	0.56	9 (6%) 23 20	110, 166, 236, 289	0
1	DC	130/130 (100%)	0.67	16 (12%) 8 11	110, 168, 223, 278	0
1	DD	130/130 (100%)	0.62	10 (7%) 19 18	111, 164, 226, 246	0
1	DE	130/130 (100%)	0.62	10 (7%) 19 18	110, 166, 236, 289	0
1	DF	130/130 (100%)	0.61	13 (10%) 12 15	110, 168, 223, 278	0
1	DG	130/130 (100%)	0.47	8 (6%) 26 23	111, 164, 226, 246	0
1	DH	130/130 (100%)	0.73	11 (8%) 16 17	110, 166, 236, 289	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	DI	130/130 (100%)	0.63	9 (6%)	23	20	110, 168, 223, 278	0
1	DJ	130/130 (100%)	0.60	13 (10%)	12	15	111, 164, 226, 246	0
1	DK	130/130 (100%)	0.65	13 (10%)	12	15	110, 166, 236, 289	0
1	DL	130/130 (100%)	0.56	11 (8%)	16	17	110, 168, 223, 278	0
1	DM	130/130 (100%)	0.59	10 (7%)	19	18	111, 164, 226, 246	0
1	DN	130/130 (100%)	0.61	10 (7%)	19	18	110, 166, 236, 289	0
1	DO	130/130 (100%)	0.66	10 (7%)	19	18	110, 168, 223, 278	0
1	DP	130/130 (100%)	0.49	10 (7%)	19	18	111, 164, 226, 246	0
1	DQ	130/130 (100%)	0.58	11 (8%)	16	17	110, 166, 236, 289	0
1	DR	130/130 (100%)	0.50	9 (6%)	23	20	110, 168, 223, 278	0
1	DS	130/130 (100%)	0.74	16 (12%)	8	11	111, 164, 226, 246	0
1	DT	130/130 (100%)	0.83	18 (13%)	6	10	110, 166, 236, 289	0
1	DU	130/130 (100%)	0.60	10 (7%)	19	18	110, 168, 223, 278	0
1	DV	130/130 (100%)	0.66	14 (10%)	11	14	111, 164, 226, 246	0
1	DW	130/130 (100%)	0.61	14 (10%)	11	14	110, 166, 236, 289	0
1	DX	130/130 (100%)	0.67	8 (6%)	26	23	110, 168, 223, 278	0
1	DY	130/130 (100%)	0.42	7 (5%)	31	25	111, 164, 226, 246	0
1	DZ	130/130 (100%)	0.62	13 (10%)	12	15	110, 166, 236, 289	0
1	EA	130/130 (100%)	0.73	15 (11%)	9	12	110, 168, 223, 278	0
1	EB	130/130 (100%)	0.54	12 (9%)	14	16	111, 164, 226, 246	0
1	EC	130/130 (100%)	0.68	11 (8%)	16	17	110, 166, 236, 289	0
1	ED	130/130 (100%)	0.67	14 (10%)	11	14	110, 168, 223, 278	0
1	EE	130/130 (100%)	0.69	12 (9%)	14	16	111, 164, 226, 246	0
1	EF	130/130 (100%)	0.73	13 (10%)	12	15	110, 166, 236, 289	0
1	EG	130/130 (100%)	0.54	10 (7%)	19	18	110, 168, 223, 278	0
1	EH	130/130 (100%)	0.56	11 (8%)	16	17	111, 164, 226, 246	0
1	EI	130/130 (100%)	0.70	15 (11%)	9	12	110, 166, 236, 289	0
1	EJ	130/130 (100%)	0.64	13 (10%)	12	15	110, 168, 223, 278	0
1	EK	130/130 (100%)	0.69	10 (7%)	19	18	111, 164, 226, 246	0
1	EL	130/130 (100%)	0.41	8 (6%)	26	23	110, 166, 236, 289	0
1	EM	130/130 (100%)	0.76	11 (8%)	16	17	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	EN	130/130 (100%)	0.58	8 (6%) 26 23	111, 164, 226, 246	0
1	EO	130/130 (100%)	0.65	13 (10%) 12 15	110, 166, 236, 289	0
1	EP	130/130 (100%)	0.70	13 (10%) 12 15	110, 168, 223, 278	0
1	EQ	130/130 (100%)	0.64	11 (8%) 16 17	111, 164, 226, 246	0
1	ER	130/130 (100%)	0.59	11 (8%) 16 17	110, 166, 236, 289	0
1	ES	130/130 (100%)	0.68	13 (10%) 12 15	110, 168, 223, 278	0
1	ET	130/130 (100%)	0.60	11 (8%) 16 17	111, 164, 226, 246	0
1	EU	130/130 (100%)	0.60	9 (6%) 23 20	110, 166, 236, 289	0
1	EV	130/130 (100%)	0.51	9 (6%) 23 20	110, 168, 223, 278	0
1	EW	130/130 (100%)	0.56	7 (5%) 31 25	111, 164, 226, 246	0
1	EX	130/130 (100%)	0.77	15 (11%) 9 12	110, 166, 236, 289	0
1	EY	130/130 (100%)	0.63	7 (5%) 31 25	110, 168, 223, 278	0
1	EZ	130/130 (100%)	0.59	10 (7%) 19 18	111, 164, 226, 246	0
1	FA	130/130 (100%)	0.65	12 (9%) 14 16	110, 166, 236, 289	0
1	FB	130/130 (100%)	0.58	11 (8%) 16 17	110, 168, 223, 278	0
1	FC	130/130 (100%)	0.62	11 (8%) 16 17	111, 164, 226, 246	0
1	FD	130/130 (100%)	0.53	10 (7%) 19 18	110, 166, 236, 289	0
1	FE	130/130 (100%)	0.54	9 (6%) 23 20	110, 168, 223, 278	0
1	FF	130/130 (100%)	0.69	10 (7%) 19 18	111, 164, 226, 246	0
1	FG	130/130 (100%)	0.50	7 (5%) 31 25	110, 166, 236, 289	0
1	FH	130/130 (100%)	0.53	9 (6%) 23 20	110, 168, 223, 278	0
1	FI	130/130 (100%)	0.76	12 (9%) 14 16	111, 164, 226, 246	0
1	FJ	130/130 (100%)	0.56	6 (4%) 37 28	110, 166, 236, 289	0
1	FK	130/130 (100%)	0.72	11 (8%) 16 17	110, 168, 223, 278	0
1	FL	130/130 (100%)	0.61	11 (8%) 16 17	111, 164, 226, 246	0
1	FM	130/130 (100%)	0.65	7 (5%) 31 25	110, 166, 236, 289	0
1	FN	130/130 (100%)	0.73	15 (11%) 9 12	110, 168, 223, 278	0
1	FO	130/130 (100%)	0.69	12 (9%) 14 16	111, 164, 226, 246	0
1	FP	130/130 (100%)	0.59	9 (6%) 23 20	110, 166, 236, 289	0
1	FQ	130/130 (100%)	0.82	20 (15%) 5 8	110, 168, 223, 278	0
1	FR	130/130 (100%)	0.60	9 (6%) 23 20	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	FS	130/130 (100%)	0.62	14 (10%) 11 14	110, 166, 236, 289	0
1	FT	130/130 (100%)	0.85	12 (9%) 14 16	110, 168, 223, 278	0
1	FU	130/130 (100%)	0.74	12 (9%) 14 16	111, 164, 226, 246	0
1	FV	130/130 (100%)	0.59	11 (8%) 16 17	110, 166, 236, 289	0
1	FW	130/130 (100%)	0.52	9 (6%) 23 20	110, 168, 223, 278	0
1	FX	130/130 (100%)	0.60	8 (6%) 26 23	111, 164, 226, 246	0
1	FY	130/130 (100%)	0.59	11 (8%) 16 17	110, 166, 236, 289	0
1	FZ	130/130 (100%)	0.64	12 (9%) 14 16	110, 168, 223, 278	0
1	GA	130/130 (100%)	0.71	13 (10%) 12 15	111, 164, 226, 246	0
1	GB	130/130 (100%)	0.54	8 (6%) 26 23	110, 166, 236, 289	0
1	GC	130/130 (100%)	0.70	15 (11%) 9 12	110, 168, 223, 278	0
1	GD	130/130 (100%)	0.69	14 (10%) 11 14	111, 164, 226, 246	0
1	GE	130/130 (100%)	0.50	6 (4%) 37 28	110, 166, 236, 289	0
1	GF	130/130 (100%)	0.65	12 (9%) 14 16	110, 168, 223, 278	0
1	GG	130/130 (100%)	0.54	10 (7%) 19 18	111, 164, 226, 246	0
1	GH	130/130 (100%)	0.64	12 (9%) 14 16	110, 166, 236, 289	0
1	GI	130/130 (100%)	0.75	13 (10%) 12 15	110, 168, 223, 278	0
1	GJ	130/130 (100%)	0.58	9 (6%) 23 20	111, 164, 226, 246	0
1	GK	130/130 (100%)	0.67	12 (9%) 14 16	110, 166, 236, 289	0
1	GL	130/130 (100%)	0.53	11 (8%) 16 17	110, 168, 223, 278	0
1	GM	130/130 (100%)	0.82	17 (13%) 7 10	111, 164, 226, 246	0
1	GN	130/130 (100%)	0.73	13 (10%) 12 15	110, 166, 236, 289	0
1	GO	130/130 (100%)	0.80	15 (11%) 9 12	110, 168, 223, 278	0
1	GP	130/130 (100%)	0.65	13 (10%) 12 15	111, 164, 226, 246	0
1	GQ	130/130 (100%)	0.52	8 (6%) 26 23	110, 166, 236, 289	0
1	GR	130/130 (100%)	0.66	13 (10%) 12 15	110, 168, 223, 278	0
1	GS	130/130 (100%)	0.67	14 (10%) 11 14	111, 164, 226, 246	0
1	GT	130/130 (100%)	0.63	14 (10%) 11 14	110, 166, 236, 289	0
1	GU	130/130 (100%)	0.59	13 (10%) 12 15	110, 168, 223, 278	0
1	GV	130/130 (100%)	0.53	7 (5%) 31 25	111, 164, 226, 246	0
1	GW	130/130 (100%)	0.55	9 (6%) 23 20	110, 166, 236, 289	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	GX	130/130 (100%)	0.65	14 (10%) 11 14	110, 168, 223, 278	0
1	GY	130/130 (100%)	0.60	11 (8%) 16 17	111, 164, 226, 246	0
1	GZ	130/130 (100%)	0.63	8 (6%) 26 23	110, 166, 236, 289	0
1	HA	130/130 (100%)	0.73	14 (10%) 11 14	110, 168, 223, 278	0
1	HB	130/130 (100%)	0.42	8 (6%) 26 23	111, 164, 226, 246	0
1	HC	130/130 (100%)	0.59	9 (6%) 23 20	110, 166, 236, 289	0
1	HD	130/130 (100%)	0.61	8 (6%) 26 23	110, 168, 223, 278	0
1	HE	130/130 (100%)	0.63	13 (10%) 12 15	111, 164, 226, 246	0
1	HF	130/130 (100%)	0.63	10 (7%) 19 18	110, 166, 236, 289	0
1	HG	130/130 (100%)	0.50	6 (4%) 37 28	110, 168, 223, 278	0
1	HH	130/130 (100%)	0.50	8 (6%) 26 23	111, 164, 226, 246	0
1	HI	130/130 (100%)	0.55	4 (3%) 51 36	110, 166, 236, 289	0
1	HJ	130/130 (100%)	0.60	10 (7%) 19 18	110, 168, 223, 278	0
1	HK	130/130 (100%)	0.45	5 (3%) 44 32	111, 164, 226, 246	0
1	HL	130/130 (100%)	0.63	6 (4%) 37 28	110, 166, 236, 289	0
1	HM	130/130 (100%)	0.49	6 (4%) 37 28	110, 168, 223, 278	0
1	HN	130/130 (100%)	0.72	13 (10%) 12 15	111, 164, 226, 246	0
1	HO	130/130 (100%)	0.37	7 (5%) 31 25	110, 166, 236, 289	0
1	HP	130/130 (100%)	0.53	8 (6%) 26 23	110, 168, 223, 278	0
1	HQ	130/130 (100%)	0.64	9 (6%) 23 20	111, 164, 226, 246	0
1	HR	130/130 (100%)	0.73	15 (11%) 9 12	110, 166, 236, 289	0
1	HS	130/130 (100%)	0.68	11 (8%) 16 17	110, 168, 223, 278	0
1	HT	130/130 (100%)	0.58	5 (3%) 44 32	111, 164, 226, 246	0
1	HU	130/130 (100%)	0.54	6 (4%) 37 28	110, 166, 236, 289	0
1	HV	130/130 (100%)	0.64	10 (7%) 19 18	110, 168, 223, 278	0
1	HW	130/130 (100%)	0.60	8 (6%) 26 23	111, 164, 226, 246	0
1	HX	130/130 (100%)	0.67	11 (8%) 16 17	110, 166, 236, 289	0
1	HY	130/130 (100%)	0.64	11 (8%) 16 17	110, 168, 223, 278	0
1	HZ	130/130 (100%)	0.50	8 (6%) 26 23	111, 164, 226, 246	0
1	IA	130/130 (100%)	0.36	7 (5%) 31 25	110, 166, 236, 289	0
1	IB	130/130 (100%)	0.69	13 (10%) 12 15	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	IC	130/130 (100%)	0.72	14 (10%) 11 14	111, 164, 226, 246	0
1	ID	130/130 (100%)	0.56	11 (8%) 16 17	110, 166, 236, 289	0
1	IE	130/130 (100%)	0.57	10 (7%) 19 18	110, 168, 223, 278	0
1	IF	130/130 (100%)	0.50	7 (5%) 31 25	111, 164, 226, 246	0
1	IG	130/130 (100%)	0.65	13 (10%) 12 15	110, 166, 236, 289	0
1	IH	130/130 (100%)	0.70	13 (10%) 12 15	110, 168, 223, 278	0
1	II	130/130 (100%)	0.96	22 (16%) 4 7	111, 164, 226, 246	0
1	IJ	130/130 (100%)	0.63	7 (5%) 31 25	110, 166, 236, 289	0
1	IK	130/130 (100%)	0.81	16 (12%) 8 11	110, 168, 223, 278	0
1	IL	130/130 (100%)	0.63	11 (8%) 16 17	111, 164, 226, 246	0
1	IM	130/130 (100%)	0.73	13 (10%) 12 15	110, 166, 236, 289	0
1	IN	130/130 (100%)	0.60	10 (7%) 19 18	110, 168, 223, 278	0
1	IO	130/130 (100%)	0.53	8 (6%) 26 23	111, 164, 226, 246	0
1	IP	130/130 (100%)	0.74	15 (11%) 9 12	110, 166, 236, 289	0
1	IQ	130/130 (100%)	0.61	13 (10%) 12 15	110, 168, 223, 278	0
1	IR	130/130 (100%)	0.61	13 (10%) 12 15	111, 164, 226, 246	0
1	IS	130/130 (100%)	0.70	9 (6%) 23 20	110, 166, 236, 289	0
1	IT	130/130 (100%)	0.57	10 (7%) 19 18	110, 168, 223, 278	0
1	IU	130/130 (100%)	0.71	14 (10%) 11 14	111, 164, 226, 246	0
1	IV	130/130 (100%)	0.64	8 (6%) 26 23	110, 166, 236, 289	0
1	IW	130/130 (100%)	0.56	11 (8%) 16 17	110, 168, 223, 278	0
1	IX	130/130 (100%)	0.47	6 (4%) 37 28	111, 164, 226, 246	0
1	IY	130/130 (100%)	0.55	11 (8%) 16 17	110, 166, 236, 289	0
1	IZ	130/130 (100%)	0.75	7 (5%) 31 25	110, 168, 223, 278	0
1	JA	130/130 (100%)	0.62	10 (7%) 19 18	111, 164, 226, 246	0
1	JB	130/130 (100%)	0.79	14 (10%) 11 14	110, 166, 236, 289	0
1	JC	130/130 (100%)	0.72	18 (13%) 6 10	110, 168, 223, 278	0
1	JD	130/130 (100%)	0.67	14 (10%) 11 14	111, 164, 226, 246	0
1	JE	130/130 (100%)	0.70	15 (11%) 9 12	110, 166, 236, 289	0
1	JF	130/130 (100%)	0.76	14 (10%) 11 14	110, 168, 223, 278	0
1	JG	130/130 (100%)	0.61	12 (9%) 14 16	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	JH	130/130 (100%)	0.53	9 (6%) 23 20	110, 166, 236, 289	0
1	JI	130/130 (100%)	0.63	11 (8%) 16 17	110, 168, 223, 278	0
1	JJ	130/130 (100%)	0.69	13 (10%) 12 15	111, 164, 226, 246	0
1	JK	130/130 (100%)	0.83	17 (13%) 7 10	110, 166, 236, 289	0
1	JL	130/130 (100%)	0.73	17 (13%) 7 10	110, 168, 223, 278	0
1	JM	130/130 (100%)	0.48	6 (4%) 37 28	111, 164, 226, 246	0
1	JN	130/130 (100%)	0.73	14 (10%) 11 14	110, 166, 236, 289	0
1	JO	130/130 (100%)	0.50	5 (3%) 44 32	110, 168, 223, 278	0
1	JP	130/130 (100%)	0.69	10 (7%) 19 18	111, 164, 226, 246	0
1	JQ	130/130 (100%)	0.70	12 (9%) 14 16	110, 166, 236, 289	0
1	JR	130/130 (100%)	0.54	10 (7%) 19 18	110, 168, 223, 278	0
1	JS	130/130 (100%)	0.87	16 (12%) 8 11	111, 164, 226, 246	0
1	JT	130/130 (100%)	0.73	15 (11%) 9 12	110, 166, 236, 289	0
1	JU	130/130 (100%)	0.79	12 (9%) 14 16	110, 168, 223, 278	0
1	JV	130/130 (100%)	0.63	14 (10%) 11 14	111, 164, 226, 246	0
1	JW	130/130 (100%)	0.76	17 (13%) 7 10	110, 166, 236, 289	0
1	JX	130/130 (100%)	0.78	16 (12%) 8 11	110, 168, 223, 278	0
1	JY	130/130 (100%)	0.58	11 (8%) 16 17	111, 164, 226, 246	0
1	JZ	130/130 (100%)	0.69	14 (10%) 11 14	110, 166, 236, 289	0
1	KA	130/130 (100%)	0.71	11 (8%) 16 17	110, 168, 223, 278	0
1	KB	130/130 (100%)	0.52	10 (7%) 19 18	111, 164, 226, 246	0
1	KC	130/130 (100%)	0.65	10 (7%) 19 18	110, 166, 236, 289	0
1	KD	130/130 (100%)	0.58	11 (8%) 16 17	110, 168, 223, 278	0
1	KE	130/130 (100%)	0.54	7 (5%) 31 25	111, 164, 226, 246	0
1	KF	130/130 (100%)	0.72	13 (10%) 12 15	110, 166, 236, 289	0
1	KG	130/130 (100%)	0.69	12 (9%) 14 16	110, 168, 223, 278	0
1	KH	130/130 (100%)	0.63	10 (7%) 19 18	111, 164, 226, 246	0
1	KI	130/130 (100%)	0.53	11 (8%) 16 17	110, 166, 236, 289	0
1	KJ	130/130 (100%)	0.64	12 (9%) 14 16	110, 168, 223, 278	0
1	KK	130/130 (100%)	0.57	4 (3%) 51 36	111, 164, 226, 246	0
1	KL	130/130 (100%)	0.85	17 (13%) 7 10	110, 166, 236, 289	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	KM	130/130 (100%)	0.83	15 (11%) 9 12	110, 168, 223, 278	0
1	KN	130/130 (100%)	0.45	7 (5%) 31 25	111, 164, 226, 246	0
1	KO	130/130 (100%)	0.67	16 (12%) 8 11	110, 166, 236, 289	0
1	KP	130/130 (100%)	0.65	11 (8%) 16 17	110, 168, 223, 278	0
1	KQ	130/130 (100%)	0.61	10 (7%) 19 18	111, 164, 226, 246	0
1	KR	130/130 (100%)	0.69	13 (10%) 12 15	110, 166, 236, 289	0
1	KS	130/130 (100%)	0.56	10 (7%) 19 18	110, 168, 223, 278	0
1	KT	130/130 (100%)	0.56	10 (7%) 19 18	111, 164, 226, 246	0
1	KU	130/130 (100%)	0.72	15 (11%) 9 12	110, 166, 236, 289	0
1	KV	130/130 (100%)	0.74	13 (10%) 12 15	110, 168, 223, 278	0
1	KW	130/130 (100%)	0.56	10 (7%) 19 18	111, 164, 226, 246	0
1	KX	130/130 (100%)	0.67	15 (11%) 9 12	110, 166, 236, 289	0
1	KY	130/130 (100%)	0.59	16 (12%) 8 11	110, 168, 223, 278	0
1	KZ	130/130 (100%)	0.62	8 (6%) 26 23	111, 164, 226, 246	0
1	LA	130/130 (100%)	0.43	5 (3%) 44 32	110, 166, 236, 289	0
1	LB	130/130 (100%)	0.64	11 (8%) 16 17	110, 168, 223, 278	0
1	LC	130/130 (100%)	0.68	8 (6%) 26 23	111, 164, 226, 246	0
1	LD	130/130 (100%)	0.78	16 (12%) 8 11	110, 166, 236, 289	0
1	LE	130/130 (100%)	0.80	15 (11%) 9 12	110, 168, 223, 278	0
1	LF	130/130 (100%)	0.71	15 (11%) 9 12	111, 164, 226, 246	0
1	LG	130/130 (100%)	0.82	14 (10%) 11 14	110, 166, 236, 289	0
1	LH	130/130 (100%)	0.94	23 (17%) 4 6	110, 168, 223, 278	0
1	LI	130/130 (100%)	0.66	14 (10%) 11 14	111, 164, 226, 246	0
1	LJ	130/130 (100%)	0.83	13 (10%) 12 15	110, 166, 236, 289	0
1	LK	130/130 (100%)	1.06	29 (22%) 2 4	110, 168, 223, 278	0
1	LL	130/130 (100%)	0.78	16 (12%) 8 11	111, 164, 226, 246	0
1	LM	130/130 (100%)	0.78	16 (12%) 8 11	110, 166, 236, 289	0
1	LN	130/130 (100%)	0.54	8 (6%) 26 23	110, 168, 223, 278	0
1	LO	130/130 (100%)	0.66	13 (10%) 12 15	111, 164, 226, 246	0
1	LP	130/130 (100%)	0.57	12 (9%) 14 16	110, 166, 236, 289	0
1	LQ	130/130 (100%)	0.64	14 (10%) 11 14	110, 168, 223, 278	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	LR	130/130 (100%)	0.69	16 (12%) 8 11	111, 164, 226, 246	0
1	LS	130/130 (100%)	0.53	10 (7%) 19 18	110, 166, 236, 289	0
1	LT	130/130 (100%)	0.73	12 (9%) 14 16	110, 168, 223, 278	0
1	LU	130/130 (100%)	0.65	9 (6%) 23 20	111, 164, 226, 246	0
1	LV	130/130 (100%)	0.73	13 (10%) 12 15	110, 166, 236, 289	0
1	LW	130/130 (100%)	0.64	12 (9%) 14 16	110, 168, 223, 278	0
1	LX	130/130 (100%)	0.65	13 (10%) 12 15	111, 164, 226, 246	0
1	LY	130/130 (100%)	0.61	8 (6%) 26 23	110, 166, 236, 289	0
1	LZ	130/130 (100%)	0.68	14 (10%) 11 14	110, 168, 223, 278	0
1	MA	130/130 (100%)	0.86	18 (13%) 6 10	111, 164, 226, 246	0
1	MB	130/130 (100%)	0.52	9 (6%) 23 20	110, 166, 236, 289	0
1	MC	130/130 (100%)	0.60	9 (6%) 23 20	110, 168, 223, 278	0
1	MD	130/130 (100%)	0.52	6 (4%) 37 28	111, 164, 226, 246	0
1	ME	130/130 (100%)	0.60	11 (8%) 16 17	110, 166, 236, 289	0
1	MF	130/130 (100%)	0.67	16 (12%) 8 11	110, 168, 223, 278	0
1	MG	130/130 (100%)	0.53	10 (7%) 19 18	111, 164, 226, 246	0
1	MH	130/130 (100%)	0.60	7 (5%) 31 25	110, 166, 236, 289	0
1	MI	130/130 (100%)	0.76	12 (9%) 14 16	110, 168, 223, 278	0
1	MJ	130/130 (100%)	0.41	9 (6%) 23 20	111, 164, 226, 246	0
1	MK	130/130 (100%)	0.59	10 (7%) 19 18	110, 166, 236, 289	0
1	ML	130/130 (100%)	0.61	10 (7%) 19 18	110, 168, 223, 278	0
1	MM	130/130 (100%)	0.54	13 (10%) 12 15	111, 164, 226, 246	0
1	MN	130/130 (100%)	0.71	10 (7%) 19 18	110, 166, 236, 289	0
1	MO	130/130 (100%)	0.68	12 (9%) 14 16	110, 168, 223, 278	0
1	MP	130/130 (100%)	0.46	9 (6%) 23 20	111, 164, 226, 246	0
1	MQ	130/130 (100%)	0.43	6 (4%) 37 28	110, 166, 236, 289	0
1	MR	130/130 (100%)	0.91	18 (13%) 6 10	110, 168, 223, 278	0
1	MS	130/130 (100%)	0.67	10 (7%) 19 18	111, 164, 226, 246	0
1	MT	130/130 (100%)	0.50	8 (6%) 26 23	110, 166, 236, 289	0
1	MU	130/130 (100%)	0.56	9 (6%) 23 20	110, 168, 223, 278	0
1	MV	130/130 (100%)	0.56	13 (10%) 12 15	111, 164, 226, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	MW	130/130 (100%)	0.70	10 (7%) 19 18	110, 166, 236, 289	0
1	MX	130/130 (100%)	0.59	8 (6%) 26 23	110, 168, 223, 278	0
1	MY	130/130 (100%)	0.44	7 (5%) 31 25	111, 164, 226, 246	0
1	MZ	130/130 (100%)	0.55	11 (8%) 16 17	110, 166, 236, 289	0
1	NA	130/130 (100%)	0.65	10 (7%) 19 18	110, 168, 223, 278	0
1	NB	130/130 (100%)	0.48	5 (3%) 44 32	111, 164, 226, 246	0
1	NC	130/130 (100%)	0.81	15 (11%) 9 12	110, 166, 236, 289	0
1	ND	130/130 (100%)	0.79	14 (10%) 11 14	110, 168, 223, 278	0
1	NE	130/130 (100%)	0.79	14 (10%) 11 14	111, 164, 226, 246	0
1	NF	130/130 (100%)	0.58	7 (5%) 31 25	110, 166, 236, 289	0
1	NG	130/130 (100%)	0.83	19 (14%) 6 9	110, 168, 223, 278	0
1	NH	130/130 (100%)	0.81	20 (15%) 5 8	111, 164, 226, 246	0
1	NI	130/130 (100%)	0.64	8 (6%) 26 23	110, 166, 236, 289	0
1	NJ	130/130 (100%)	0.76	12 (9%) 14 16	110, 168, 223, 278	0
1	NK	130/130 (100%)	0.69	13 (10%) 12 15	111, 164, 226, 246	0
1	NL	130/130 (100%)	0.81	15 (11%) 9 12	110, 166, 236, 289	0
1	NM	130/130 (100%)	0.77	14 (10%) 11 14	110, 168, 223, 278	0
1	NN	130/130 (100%)	0.58	8 (6%) 26 23	111, 164, 226, 246	0
1	NO	130/130 (100%)	0.71	15 (11%) 9 12	110, 166, 236, 289	0
1	NP	130/130 (100%)	0.52	10 (7%) 19 18	110, 168, 223, 278	0
1	NQ	130/130 (100%)	0.73	15 (11%) 9 12	111, 164, 226, 246	0
1	NR	130/130 (100%)	0.71	13 (10%) 12 15	110, 166, 236, 289	0
1	NS	130/130 (100%)	0.81	12 (9%) 14 16	110, 168, 223, 278	0
1	NT	130/130 (100%)	0.69	10 (7%) 19 18	111, 164, 226, 246	0
1	NU	130/130 (100%)	0.74	15 (11%) 9 12	110, 166, 236, 289	0
1	NV	130/130 (100%)	0.63	9 (6%) 23 20	110, 168, 223, 278	0
All	All	46800/46800 (100%)	0.64	4070 (8%) 16 17	110, 166, 232, 289	0

All (4070) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	HQ	116	TYR	10.4
1	CB	43	LYS	9.0

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Mol	Chain	Res	Type	RSRZ
1	MS	44	GLY	7.9
1	MA	5	ALA	7.5
1	IQ	43	LYS	7.4
1	HF	84	GLY	7.3
1	EF	130	GLU	7.1
1	AF	43	LYS	7.1
1	LH	45	ASN	7.1
1	KQ	84	GLY	6.9
1	AZ	43	LYS	6.8
1	EE	127	VAL	6.8
1	DU	117	VAL	6.6
1	JK	37	HIS	6.6
1	NR	78	GLU	6.6
1	MR	72	PRO	6.5
1	IA	41	PRO	6.5
1	AO	56	ARG	6.4
1	BC	41	PRO	6.4
1	GM	40	THR	6.4
1	LX	116	TYR	6.4
1	FM	119	ASP	6.3
1	DK	43	LYS	6.2
1	EA	1	SER	6.2
1	EM	74	VAL	6.2
1	LK	29	PRO	6.2
1	II	41	PRO	6.1
1	KH	116	TYR	6.1
1	DL	48	THR	6.0
1	MI	56	ARG	6.0
1	AH	116	TYR	6.0
1	CM	78	GLU	6.0
1	EF	8	LYS	5.9
1	JQ	130	GLU	5.9
1	CH	48	THR	5.9
1	GT	48	THR	5.9
1	NS	117	VAL	5.8
1	AF	48	THR	5.8
1	IN	128	ILE	5.8
1	KM	130	GLU	5.8
1	BZ	116	TYR	5.7
1	EK	41	PRO	5.7
1	GM	41	PRO	5.7
1	BU	114	SER	5.7

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Mol	Chain	Res	Type	RSRZ
1	CK	116	TYR	5.7
1	JK	48	THR	5.7
1	FO	69	ARG	5.7
1	BC	43	LYS	5.6
1	DM	1	SER	5.6
1	JP	127	VAL	5.6
1	HF	86	THR	5.6
1	KX	72	PRO	5.5
1	LO	41	PRO	5.5
1	FJ	8	LYS	5.5
1	IK	50	LYS	5.5
1	FH	115	GLY	5.5
1	IO	84	GLY	5.5
1	HW	48	THR	5.4
1	LB	43	LYS	5.4
1	CM	129	THR	5.4
1	JD	44	GLY	5.4
1	EF	1	SER	5.3
1	KU	127	VAL	5.3
1	DV	84	GLY	5.3
1	ND	84	GLY	5.3
1	HS	126	LEU	5.3
1	KT	78	GLU	5.3
1	NQ	72	PRO	5.3
1	JJ	41	PRO	5.3
1	LM	48	THR	5.3
1	CJ	48	THR	5.2
1	IC	127	VAL	5.2
1	GM	48	THR	5.2
1	CG	8	LYS	5.1
1	JU	114	SER	5.1
1	LK	58	THR	5.1
1	GO	122	PHE	5.1
1	IC	54	ASN	5.1
1	JL	40	THR	5.1
1	NG	39	PRO	5.1
1	MR	74	VAL	5.1
1	CP	120	LYS	5.0
1	HY	72	PRO	5.0
1	MX	115	GLY	5.0
1	FV	74	VAL	5.0
1	AK	60	LEU	5.0

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Mol	Chain	Res	Type	RSRZ
1	KJ	48	THR	5.0
1	NC	48	THR	5.0
1	AH	48	THR	5.0
1	HB	41	PRO	5.0
1	LF	48	THR	5.0
1	JK	69	ARG	5.0
1	GN	48	THR	5.0
1	GD	116	TYR	5.0
1	MX	116	TYR	5.0
1	MA	48	THR	4.9
1	KG	122	PHE	4.9
1	AT	48	THR	4.9
1	DB	40	THR	4.9
1	NT	41	PRO	4.9
1	GL	115	GLY	4.9
1	HN	44	GLY	4.9
1	NK	116	TYR	4.8
1	IK	48	THR	4.8
1	NQ	74	VAL	4.8
1	KZ	116	TYR	4.8
1	CI	40	THR	4.8
1	MR	70	ALA	4.8
1	AU	1	SER	4.8
1	KR	44	GLY	4.8
1	MT	37	HIS	4.8
1	GU	70	ALA	4.8
1	KO	48	THR	4.8
1	NC	70	ALA	4.8
1	NP	70	ALA	4.8
1	AU	84	GLY	4.8
1	DT	72	PRO	4.8
1	CB	1	SER	4.8
1	LL	1	SER	4.8
1	JC	130	GLU	4.8
1	DA	48	THR	4.8
1	JG	84	GLY	4.8
1	LK	56	ARG	4.8
1	IU	116	TYR	4.7
1	LE	7	PHE	4.7
1	CX	41	PRO	4.7
1	KD	117	VAL	4.7
1	IM	69	ARG	4.7

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Mol	Chain	Res	Type	RSRZ
1	IO	1	SER	4.7
1	IT	56	ARG	4.7
1	LL	41	PRO	4.7
1	NR	50	LYS	4.7
1	DZ	116	TYR	4.7
1	AC	50	LYS	4.7
1	CI	48	THR	4.7
1	IM	115	GLY	4.7
1	KX	84	GLY	4.7
1	NM	22	PRO	4.7
1	AH	130	GLU	4.7
1	CE	48	THR	4.7
1	EN	48	THR	4.7
1	HN	73	ILE	4.7
1	NL	72	PRO	4.6
1	HR	114	SER	4.6
1	BE	41	PRO	4.6
1	FK	115	GLY	4.6
1	KB	127	VAL	4.6
1	IQ	48	THR	4.6
1	EP	72	PRO	4.6
1	FC	56	ARG	4.6
1	JE	69	ARG	4.6
1	AZ	52	MET	4.6
1	NR	48	THR	4.6
1	AR	126	LEU	4.6
1	ET	119	ASP	4.6
1	NT	47	GLY	4.5
1	NC	72	PRO	4.5
1	MO	117	VAL	4.5
1	DB	48	THR	4.5
1	CC	78	GLU	4.5
1	DN	130	GLU	4.5
1	AE	72	PRO	4.5
1	BL	7	PHE	4.5
1	HY	71	VAL	4.5
1	NU	37	HIS	4.5
1	IG	70	ALA	4.5
1	NR	80	SER	4.5
1	AZ	69	ARG	4.5
1	BL	129	THR	4.5
1	GM	39	PRO	4.5

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Mol	Chain	Res	Type	RSRZ
1	KV	41	PRO	4.5
1	HT	48	THR	4.5
1	AG	116	TYR	4.5
1	CU	124	GLU	4.5
1	NV	117	VAL	4.5
1	NO	70	ALA	4.5
1	CB	115	GLY	4.4
1	HW	47	GLY	4.4
1	NT	48	THR	4.4
1	JS	46	PRO	4.4
1	GS	26	VAL	4.4
1	JR	128	ILE	4.4
1	MN	5	ALA	4.4
1	GJ	56	ARG	4.4
1	EY	48	THR	4.4
1	AC	72	PRO	4.4
1	BN	41	PRO	4.4
1	DJ	116	TYR	4.4
1	IP	130	GLU	4.4
1	NA	117	VAL	4.4
1	JK	52	MET	4.4
1	MS	5	ALA	4.4
1	EG	56	ARG	4.4
1	JX	69	ARG	4.4
1	LJ	69	ARG	4.4
1	JI	126	LEU	4.4
1	LO	12	LEU	4.4
1	DQ	48	THR	4.4
1	FN	48	THR	4.4
1	CC	124	GLU	4.4
1	NN	120	LYS	4.4
1	DV	47	GLY	4.4
1	AS	41	PRO	4.4
1	LF	82	PRO	4.4
1	MO	1	SER	4.4
1	FU	48	THR	4.4
1	JL	47	GLY	4.4
1	MF	115	GLY	4.4
1	AN	8	LYS	4.4
1	DY	116	TYR	4.4
1	EJ	78	GLU	4.4
1	EC	127	VAL	4.4

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Mol	Chain	Res	Type	RSRZ
1	LK	9	LEU	4.4
1	GT	118	GLN	4.4
1	CR	40	THR	4.4
1	IZ	48	THR	4.4
1	HN	2	LYS	4.4
1	GC	130	GLU	4.3
1	EN	1	SER	4.3
1	CG	122	PHE	4.3
1	AY	48	THR	4.3
1	DN	40	THR	4.3
1	NJ	126	LEU	4.3
1	AS	116	TYR	4.3
1	KJ	124	GLU	4.3
1	IT	84	GLY	4.3
1	MC	48	THR	4.3
1	EB	117	VAL	4.3
1	AS	124	GLU	4.3
1	MR	78	GLU	4.3
1	JW	48	THR	4.3
1	JA	69	ARG	4.3
1	NI	69	ARG	4.3
1	LG	127	VAL	4.3
1	JJ	121	TYR	4.3
1	GI	128	ILE	4.3
1	AL	126	LEU	4.3
1	LL	48	THR	4.3
1	EM	117	VAL	4.3
1	HX	41	PRO	4.3
1	JK	72	PRO	4.3
1	LP	127	VAL	4.3
1	LT	117	VAL	4.3
1	BD	48	THR	4.3
1	BP	84	GLY	4.3
1	MU	115	GLY	4.3
1	NN	44	GLY	4.3
1	NT	39	PRO	4.3
1	CD	124	GLU	4.3
1	FQ	128	ILE	4.3
1	JA	124	GLU	4.3
1	CV	48	THR	4.2
1	GA	44	GLY	4.2
1	GR	3	PRO	4.2

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Mol	Chain	Res	Type	RSRZ
1	BJ	122	PHE	4.2
1	HR	50	LYS	4.2
1	DW	5	ALA	4.2
1	JZ	52	MET	4.2
1	IN	129	THR	4.2
1	LO	44	GLY	4.2
1	AX	74	VAL	4.2
1	MW	7	PHE	4.2
1	KW	73	ILE	4.2
1	BA	80	SER	4.2
1	DT	80	SER	4.2
1	AB	84	GLY	4.2
1	EM	48	THR	4.2
1	GC	48	THR	4.2
1	LT	48	THR	4.2
1	NO	58	THR	4.2
1	LK	74	VAL	4.2
1	MR	117	VAL	4.2
1	CL	128	ILE	4.2
1	DO	48	THR	4.2
1	JG	48	THR	4.2
1	JN	48	THR	4.2
1	DC	72	PRO	4.2
1	JE	41	PRO	4.2
1	EA	69	ARG	4.2
1	GP	44	GLY	4.2
1	LL	44	GLY	4.2
1	DB	127	VAL	4.2
1	BK	78	GLU	4.2
1	ED	117	VAL	4.1
1	LP	119	ASP	4.1
1	AG	114	SER	4.1
1	CH	72	PRO	4.1
1	DA	72	PRO	4.1
1	EO	72	PRO	4.1
1	CD	8	LYS	4.1
1	GI	126	LEU	4.1
1	DL	128	ILE	4.1
1	FN	117	VAL	4.1
1	JR	117	VAL	4.1
1	IS	8	LYS	4.1
1	IE	126	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
1	EU	124	GLU	4.1
1	GZ	78	GLU	4.1
1	LD	7	PHE	4.1
1	BG	117	VAL	4.1
1	DT	74	VAL	4.1
1	KS	117	VAL	4.1
1	KV	40	THR	4.1
1	CH	41	PRO	4.1
1	JA	56	ARG	4.1
1	KY	72	PRO	4.1
1	HE	60	LEU	4.1
1	MI	126	LEU	4.1
1	AZ	48	THR	4.1
1	IU	48	THR	4.1
1	GS	114	SER	4.1
1	CD	76	LYS	4.1
1	IL	48	THR	4.1
1	JB	48	THR	4.1
1	MC	126	LEU	4.1
1	NH	66	ALA	4.1
1	NJ	117	VAL	4.1
1	LX	48	THR	4.1
1	NE	56	ARG	4.1
1	DI	112	ALA	4.1
1	KL	118	GLN	4.0
1	DM	124	GLU	4.0
1	EO	69	ARG	4.0
1	HM	115	GLY	4.0
1	IL	44	GLY	4.0
1	DM	128	ILE	4.0
1	MH	70	ALA	4.0
1	BM	117	VAL	4.0
1	FZ	69	ARG	4.0
1	HH	56	ARG	4.0
1	JL	116	TYR	4.0
1	LU	124	GLU	4.0
1	EQ	48	THR	4.0
1	HW	86	THR	4.0
1	JQ	129	THR	4.0
1	LG	70	ALA	4.0
1	AH	72	PRO	4.0
1	AP	41	PRO	4.0

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Mol	Chain	Res	Type	RSRZ
1	MW	126	LEU	4.0
1	CP	56	ARG	4.0
1	DC	117	VAL	4.0
1	JT	74	VAL	4.0
1	MW	116	TYR	4.0
1	DW	48	THR	4.0
1	JS	33	GLY	4.0
1	JX	48	THR	4.0
1	LH	48	THR	4.0
1	KJ	56	ARG	4.0
1	MD	127	VAL	4.0
1	DF	122	PHE	4.0
1	DH	48	THR	4.0
1	EA	48	THR	4.0
1	FI	48	THR	4.0
1	HP	48	THR	4.0
1	LT	1	SER	4.0
1	MO	115	GLY	4.0
1	JB	8	LYS	4.0
1	DF	72	PRO	4.0
1	CN	117	VAL	4.0
1	LF	83	VAL	4.0
1	CT	43	LYS	4.0
1	DW	76	LYS	4.0
1	EA	40	THR	4.0
1	GO	48	THR	4.0
1	KM	48	THR	4.0
1	GA	91	ALA	4.0
1	JR	12	LEU	4.0
1	JZ	41	PRO	4.0
1	EV	117	VAL	3.9
1	IM	74	VAL	3.9
1	LF	122	PHE	3.9
1	HD	48	THR	3.9
1	HU	48	THR	3.9
1	LJ	70	ALA	3.9
1	AX	12	LEU	3.9
1	KD	126	LEU	3.9
1	BW	48	THR	3.9
1	IK	121	TYR	3.9
1	LG	40	THR	3.9
1	EH	41	PRO	3.9

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Mol	Chain	Res	Type	RSRZ
1	MH	10	ARG	3.9
1	FA	8	LYS	3.9
1	KC	8	LYS	3.9
1	JX	126	LEU	3.9
1	JP	48	THR	3.9
1	CX	119	ASP	3.9
1	HR	41	PRO	3.9
1	IQ	72	PRO	3.9
1	LU	128	ILE	3.9
1	CT	126	LEU	3.9
1	IB	117	VAL	3.9
1	JK	35	VAL	3.9
1	JT	61	LEU	3.9
1	EM	114	SER	3.9
1	EY	115	GLY	3.9
1	GC	129	THR	3.9
1	IP	40	THR	3.9
1	LI	48	THR	3.9
1	JX	128	ILE	3.9
1	GY	26	VAL	3.9
1	JT	117	VAL	3.9
1	MI	117	VAL	3.9
1	AC	48	THR	3.9
1	DV	48	THR	3.9
1	FE	84	GLY	3.9
1	GH	115	GLY	3.9
1	MT	115	GLY	3.9
1	FC	124	GLU	3.9
1	KV	42	ARG	3.9
1	MO	119	ASP	3.9
1	BS	48	THR	3.9
1	LY	48	THR	3.9
1	EE	128	ILE	3.8
1	EX	116	TYR	3.8
1	BR	126	LEU	3.8
1	FQ	122	PHE	3.8
1	LK	117	VAL	3.8
1	KH	114	SER	3.8
1	DC	115	GLY	3.8
1	BP	56	ARG	3.8
1	MK	70	ALA	3.8
1	BL	116	TYR	3.8

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Mol	Chain	Res	Type	RSRZ
1	DT	78	GLU	3.8
1	FR	124	GLU	3.8
1	BB	41	PRO	3.8
1	KE	26	VAL	3.8
1	CS	120	LYS	3.8
1	HS	128	ILE	3.8
1	AN	48	THR	3.8
1	CP	31	THR	3.8
1	ET	56	ARG	3.8
1	IY	48	THR	3.8
1	ME	48	THR	3.8
1	DT	88	GLU	3.8
1	GX	124	GLU	3.8
1	LD	69	ARG	3.8
1	NM	126	LEU	3.8
1	AD	115	GLY	3.8
1	FK	48	THR	3.8
1	HX	48	THR	3.8
1	KZ	48	THR	3.8
1	HE	41	PRO	3.8
1	AL	117	VAL	3.8
1	DT	44	GLY	3.8
1	HS	48	THR	3.8
1	ES	39	PRO	3.8
1	FR	41	PRO	3.8
1	JK	50	LYS	3.8
1	IV	126	LEU	3.8
1	MG	56	ARG	3.8
1	AJ	52	MET	3.8
1	DS	48	THR	3.8
1	JO	48	THR	3.8
1	EE	120	LYS	3.8
1	FX	116	TYR	3.8
1	JS	124	GLU	3.8
1	AY	41	PRO	3.8
1	DS	74	VAL	3.8
1	KB	24	HIS	3.8
1	AI	126	LEU	3.7
1	GF	126	LEU	3.7
1	GX	1	SER	3.7
1	KU	128	ILE	3.7
1	EJ	122	PHE	3.7

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Mol	Chain	Res	Type	RSRZ
1	MK	122	PHE	3.7
1	DE	48	THR	3.7
1	FG	48	THR	3.7
1	AD	117	VAL	3.7
1	BY	72	PRO	3.7
1	FK	124	GLU	3.7
1	LR	127	VAL	3.7
1	NI	22	PRO	3.7
1	AO	44	GLY	3.7
1	CC	120	LYS	3.7
1	DO	115	GLY	3.7
1	FQ	48	THR	3.7
1	JF	48	THR	3.7
1	KW	44	GLY	3.7
1	LG	48	THR	3.7
1	BJ	117	VAL	3.7
1	BR	74	VAL	3.7
1	BR	78	GLU	3.7
1	BY	117	VAL	3.7
1	ID	128	ILE	3.7
1	EQ	104	GLU	3.7
1	KK	116	TYR	3.7
1	HN	41	PRO	3.7
1	JD	41	PRO	3.7
1	LB	130	GLU	3.7
1	LZ	124	GLU	3.7
1	CQ	1	SER	3.7
1	KO	118	GLN	3.7
1	DX	48	THR	3.7
1	FD	48	THR	3.7
1	LN	48	THR	3.7
1	HM	71	VAL	3.7
1	BU	113	TYR	3.7
1	FI	56	ARG	3.7
1	IF	56	ARG	3.7
1	LV	78	GLU	3.7
1	JK	70	ALA	3.7
1	ND	60	LEU	3.7
1	FX	48	THR	3.7
1	BW	74	VAL	3.7
1	GM	74	VAL	3.7
1	MF	117	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
1	NN	71	VAL	3.7
1	EZ	116	TYR	3.7
1	IX	124	GLU	3.7
1	LU	41	PRO	3.7
1	BA	125	ASP	3.7
1	CM	43	LYS	3.7
1	GO	126	LEU	3.7
1	BM	40	THR	3.7
1	LZ	48	THR	3.7
1	NJ	115	GLY	3.7
1	MR	71	VAL	3.7
1	GR	43	LYS	3.7
1	HA	72	PRO	3.7
1	NH	19	PHE	3.7
1	NG	128	ILE	3.6
1	FR	44	GLY	3.6
1	HE	44	GLY	3.6
1	KH	115	GLY	3.6
1	NU	48	THR	3.6
1	AI	74	VAL	3.6
1	BY	56	ARG	3.6
1	JJ	127	VAL	3.6
1	LE	117	VAL	3.6
1	CY	8	LYS	3.6
1	AI	41	PRO	3.6
1	AG	124	GLU	3.6
1	BV	126	LEU	3.6
1	GY	78	GLU	3.6
1	KO	116	TYR	3.6
1	LQ	126	LEU	3.6
1	AA	70	ALA	3.6
1	KS	70	ALA	3.6
1	DN	129	THR	3.6
1	HJ	48	THR	3.6
1	LC	122	PHE	3.6
1	CC	1	SER	3.6
1	GK	1	SER	3.6
1	DD	41	PRO	3.6
1	EX	126	LEU	3.6
1	GN	78	GLU	3.6
1	NC	130	GLU	3.6
1	CU	73	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
1	FU	128	ILE	3.6
1	AA	56	ARG	3.6
1	GI	56	ARG	3.6
1	IG	120	LYS	3.6
1	DF	117	VAL	3.6
1	GN	80	SER	3.6
1	IP	36	SER	3.6
1	NQ	114	SER	3.6
1	NR	126	LEU	3.6
1	BN	82	PRO	3.6
1	CK	124	GLU	3.6
1	JK	116	TYR	3.6
1	IG	119	ASP	3.6
1	EI	48	THR	3.6
1	LH	96	GLN	3.6
1	AU	3	PRO	3.6
1	CW	128	ILE	3.6
1	JL	41	PRO	3.6
1	AU	124	GLU	3.6
1	GO	11	GLU	3.6
1	CT	52	MET	3.6
1	ER	8	LYS	3.6
1	IM	8	LYS	3.6
1	MK	69	ARG	3.6
1	AE	48	THR	3.6
1	BQ	48	THR	3.6
1	CZ	48	THR	3.6
1	AM	26	VAL	3.6
1	FA	37	HIS	3.6
1	IG	117	VAL	3.6
1	NF	127	VAL	3.6
1	JU	59	ILE	3.6
1	JU	116	TYR	3.6
1	GF	43	LYS	3.6
1	MW	124	GLU	3.6
1	GJ	44	GLY	3.6
1	BC	74	VAL	3.6
1	BN	74	VAL	3.6
1	CR	83	VAL	3.6
1	FT	117	VAL	3.6
1	MZ	48	THR	3.6
1	CK	114	SER	3.6

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Mol	Chain	Res	Type	RSRZ
1	ND	1	SER	3.6
1	DS	75	ILE	3.5
1	HG	75	ILE	3.5
1	BJ	52	MET	3.5
1	GA	120	LYS	3.5
1	GE	8	LYS	3.5
1	BG	104	GLU	3.5
1	BQ	78	GLU	3.5
1	LA	130	GLU	3.5
1	MF	116	TYR	3.5
1	GK	126	LEU	3.5
1	AF	117	VAL	3.5
1	KJ	128	ILE	3.5
1	DZ	52	MET	3.5
1	EO	120	LYS	3.5
1	GP	72	PRO	3.5
1	HC	46	PRO	3.5
1	JV	41	PRO	3.5
1	ND	72	PRO	3.5
1	AS	121	TYR	3.5
1	NQ	78	GLU	3.5
1	BK	48	THR	3.5
1	IB	48	THR	3.5
1	JL	48	THR	3.5
1	JY	48	THR	3.5
1	JZ	48	THR	3.5
1	MA	71	VAL	3.5
1	MA	117	VAL	3.5
1	MH	48	THR	3.5
1	MS	48	THR	3.5
1	MK	120	LYS	3.5
1	NE	120	LYS	3.5
1	GA	96	GLN	3.5
1	IG	118	GLN	3.5
1	BJ	126	LEU	3.5
1	EE	41	PRO	3.5
1	KX	116	TYR	3.5
1	MV	113	TYR	3.5
1	BT	48	THR	3.5
1	CH	71	VAL	3.5
1	FI	84	GLY	3.5
1	HE	26	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
1	II	48	THR	3.5
1	NV	48	THR	3.5
1	NV	115	GLY	3.5
1	AX	72	PRO	3.5
1	GV	119	ASP	3.5
1	LZ	39	PRO	3.5
1	EY	124	GLU	3.5
1	IC	124	GLU	3.5
1	FV	127	VAL	3.5
1	JF	71	VAL	3.5
1	BC	48	THR	3.5
1	EE	40	THR	3.5
1	FT	48	THR	3.5
1	HM	48	THR	3.5
1	JK	8	LYS	3.5
1	KR	43	LYS	3.5
1	NF	115	GLY	3.5
1	CW	126	LEU	3.5
1	JB	126	LEU	3.5
1	LK	126	LEU	3.5
1	FU	41	PRO	3.5
1	AH	119	ASP	3.5
1	FZ	125	ASP	3.5
1	AP	73	ILE	3.5
1	BU	116	TYR	3.5
1	DJ	110	GLU	3.5
1	ET	73	ILE	3.5
1	EW	128	ILE	3.5
1	IR	124	GLU	3.5
1	EO	127	VAL	3.5
1	FS	48	THR	3.5
1	JE	80	SER	3.5
1	KE	48	THR	3.5
1	KG	126	LEU	3.5
1	LT	126	LEU	3.5
1	AE	56	ARG	3.5
1	EJ	39	PRO	3.5
1	LM	46	PRO	3.5
1	MI	72	PRO	3.5
1	BP	128	ILE	3.4
1	CL	73	ILE	3.4
1	FE	112	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
1	GJ	73	ILE	3.4
1	JB	34	ILE	3.4
1	NS	112	ALA	3.4
1	BO	8	LYS	3.4
1	LK	116	TYR	3.4
1	JO	117	VAL	3.4
1	BU	13	SER	3.4
1	ED	80	SER	3.4
1	GR	126	LEU	3.4
1	LH	44	GLY	3.4
1	LH	126	LEU	3.4
1	AQ	48	THR	3.4
1	CY	48	THR	3.4
1	IO	48	THR	3.4
1	KR	48	THR	3.4
1	LJ	48	THR	3.4
1	NE	48	THR	3.4
1	CS	122	PHE	3.4
1	KX	69	ARG	3.4
1	HC	72	PRO	3.4
1	HO	72	PRO	3.4
1	KE	41	PRO	3.4
1	LG	72	PRO	3.4
1	NN	72	PRO	3.4
1	BU	128	ILE	3.4
1	CJ	120	LYS	3.4
1	JM	120	LYS	3.4
1	CE	83	VAL	3.4
1	DC	126	LEU	3.4
1	II	124	GLU	3.4
1	KL	126	LEU	3.4
1	LZ	127	VAL	3.4
1	NG	126	LEU	3.4
1	HQ	115	GLY	3.4
1	KY	1	SER	3.4
1	BC	40	THR	3.4
1	EU	48	THR	3.4
1	IP	48	THR	3.4
1	ML	48	THR	3.4
1	MT	48	THR	3.4
1	NG	56	ARG	3.4
1	CU	72	PRO	3.4

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Mol	Chain	Res	Type	RSRZ
1	DX	72	PRO	3.4
1	MO	52	MET	3.4
1	GS	116	TYR	3.4
1	MN	78	GLU	3.4
1	HS	64	GLY	3.4
1	AV	48	THR	3.4
1	CB	48	THR	3.4
1	FD	40	THR	3.4
1	IR	48	THR	3.4
1	JH	48	THR	3.4
1	LS	48	THR	3.4
1	NS	48	THR	3.4
1	IC	56	ARG	3.4
1	KA	69	ARG	3.4
1	BY	71	VAL	3.4
1	DU	74	VAL	3.4
1	GK	78	GLU	3.4
1	AY	115	GLY	3.4
1	AZ	44	GLY	3.4
1	LG	115	GLY	3.4
1	CL	48	THR	3.4
1	DG	48	THR	3.4
1	HL	48	THR	3.4
1	MX	69	ARG	3.4
1	JI	128	ILE	3.4
1	AV	9	LEU	3.4
1	FG	126	LEU	3.4
1	FT	82	PRO	3.4
1	NO	117	VAL	3.4
1	FD	36	SER	3.4
1	JY	121	TYR	3.4
1	FU	124	GLU	3.4
1	FY	78	GLU	3.4
1	HJ	84	GLY	3.4
1	NQ	44	GLY	3.4
1	CM	48	THR	3.4
1	FM	48	THR	3.4
1	IT	95	LYS	3.4
1	KG	128	ILE	3.4
1	LC	118	GLN	3.4
1	LE	126	LEU	3.4
1	NA	12	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
1	AO	43	LYS	3.4
1	ID	37	HIS	3.4
1	LE	56	ARG	3.4
1	MU	116	TYR	3.4
1	BB	44	GLY	3.3
1	EN	84	GLY	3.3
1	FF	59	ILE	3.3
1	GC	128	ILE	3.3
1	ND	48	THR	3.3
1	BH	52	MET	3.3
1	FO	46	PRO	3.3
1	CL	74	VAL	3.3
1	HW	26	VAL	3.3
1	JM	117	VAL	3.3
1	GK	80	SER	3.3
1	AW	128	ILE	3.3
1	BG	48	THR	3.3
1	DA	124	GLU	3.3
1	GX	126	LEU	3.3
1	HR	48	THR	3.3
1	IF	48	THR	3.3
1	IY	130	GLU	3.3
1	CX	118	GLN	3.3
1	ED	5	ALA	3.3
1	EG	72	PRO	3.3
1	GA	41	PRO	3.3
1	GF	41	PRO	3.3
1	JR	72	PRO	3.3
1	MJ	41	PRO	3.3
1	NG	82	PRO	3.3
1	BP	100	PHE	3.3
1	GD	74	VAL	3.3
1	HJ	100	PHE	3.3
1	FJ	126	LEU	3.3
1	FN	128	ILE	3.3
1	LF	84	GLY	3.3
1	LW	115	GLY	3.3
1	GS	78	GLU	3.3
1	JE	48	THR	3.3
1	LO	48	THR	3.3
1	BZ	118	GLN	3.3
1	IC	125	ASP	3.3

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Mol	Chain	Res	Type	RSRZ
1	IH	70	ALA	3.3
1	CM	127	VAL	3.3
1	EP	74	VAL	3.3
1	IR	69	ARG	3.3
1	IU	73	ILE	3.3
1	JE	36	SER	3.3
1	KU	126	LEU	3.3
1	CH	44	GLY	3.3
1	DP	115	GLY	3.3
1	EY	47	GLY	3.3
1	GP	84	GLY	3.3
1	IW	115	GLY	3.3
1	JL	115	GLY	3.3
1	EZ	48	THR	3.3
1	FH	48	THR	3.3
1	LG	129	THR	3.3
1	LD	8	LYS	3.3
1	KD	122	PHE	3.3
1	LM	122	PHE	3.3
1	AH	74	VAL	3.3
1	BE	56	ARG	3.3
1	AQ	114	SER	3.3
1	AX	73	ILE	3.3
1	CE	126	LEU	3.3
1	CV	75	ILE	3.3
1	DX	128	ILE	3.3
1	FL	128	ILE	3.3
1	HD	117	VAL	3.3
1	MA	73	ILE	3.3
1	CC	84	GLY	3.3
1	CO	84	GLY	3.3
1	EO	52	MET	3.3
1	EP	121	TYR	3.3
1	ML	116	TYR	3.3
1	NJ	48	THR	3.3
1	BC	120	LYS	3.3
1	AF	5	ALA	3.3
1	CK	126	LEU	3.3
1	LN	112	ALA	3.3
1	BW	114	SER	3.3
1	DJ	117	VAL	3.3
1	EG	117	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
1	GG	41	PRO	3.3
1	GL	117	VAL	3.3
1	JY	72	PRO	3.3
1	KD	74	VAL	3.3
1	LK	41	PRO	3.3
1	LR	74	VAL	3.3
1	NQ	128	ILE	3.3
1	MK	119	ASP	3.3
1	NJ	114	SER	3.3
1	AT	84	GLY	3.3
1	CH	84	GLY	3.3
1	GA	84	GLY	3.3
1	EL	86	THR	3.3
1	GH	116	TYR	3.3
1	JZ	40	THR	3.3
1	KI	48	THR	3.3
1	GC	88	GLU	3.3
1	MN	76	LYS	3.3
1	HV	126	LEU	3.2
1	NH	81	PHE	3.2
1	NI	126	LEU	3.2
1	GM	128	ILE	3.2
1	IB	70	ALA	3.2
1	AC	117	VAL	3.2
1	DL	117	VAL	3.2
1	HQ	114	SER	3.2
1	GJ	119	ASP	3.2
1	KL	52	MET	3.2
1	BM	27	THR	3.2
1	FQ	2	LYS	3.2
1	IK	120	LYS	3.2
1	JX	115	GLY	3.2
1	MQ	130	GLU	3.2
1	DT	81	PHE	3.2
1	DW	126	LEU	3.2
1	NC	126	LEU	3.2
1	AV	56	ARG	3.2
1	EJ	128	ILE	3.2
1	ER	37	HIS	3.2
1	FI	128	ILE	3.2
1	KW	56	ARG	3.2
1	CH	70	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
1	AC	46	PRO	3.2
1	AR	74	VAL	3.2
1	GX	117	VAL	3.2
1	KO	46	PRO	3.2
1	NP	71	VAL	3.2
1	CQ	120	LYS	3.2
1	LZ	125	ASP	3.2
1	AY	47	GLY	3.2
1	BI	48	THR	3.2
1	IS	48	THR	3.2
1	KV	48	THR	3.2
1	DP	116	TYR	3.2
1	GC	126	LEU	3.2
1	KA	126	LEU	3.2
1	GF	75	ILE	3.2
1	JE	122	PHE	3.2
1	JR	56	ARG	3.2
1	KZ	56	ARG	3.2
1	GB	70	ALA	3.2
1	CK	46	PRO	3.2
1	CS	1	SER	3.2
1	GB	74	VAL	3.2
1	LB	127	VAL	3.2
1	MA	70	ALA	3.2
1	JH	80	SER	3.2
1	NK	26	VAL	3.2
1	NK	52	MET	3.2
1	BF	120	LYS	3.2
1	AU	18	LEU	3.2
1	BP	115	GLY	3.2
1	DH	126	LEU	3.2
1	IJ	126	LEU	3.2
1	JP	84	GLY	3.2
1	BO	48	THR	3.2
1	DY	48	THR	3.2
1	EI	40	THR	3.2
1	KX	48	THR	3.2
1	FD	128	ILE	3.2
1	KT	128	ILE	3.2
1	LH	128	ILE	3.2
1	BZ	124	GLU	3.2
1	EK	56	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
1	BL	127	VAL	3.2
1	CV	114	SER	3.2
1	DR	1	SER	3.2
1	DT	127	VAL	3.2
1	LT	5	ALA	3.2
1	HE	114	SER	3.2
1	LR	1	SER	3.2
1	AI	72	PRO	3.2
1	DZ	50	LYS	3.2
1	FF	41	PRO	3.2
1	FK	72	PRO	3.2
1	GI	72	PRO	3.2
1	GL	41	PRO	3.2
1	KC	126	LEU	3.2
1	CK	115	GLY	3.2
1	IR	84	GLY	3.2
1	FR	128	ILE	3.2
1	FY	48	THR	3.2
1	AV	116	TYR	3.2
1	BI	118	GLN	3.2
1	BM	119	ASP	3.2
1	CK	69	ARG	3.2
1	DV	56	ARG	3.2
1	GX	121	TYR	3.2
1	GF	124	GLU	3.2
1	MA	124	GLU	3.2
1	BJ	120	LYS	3.2
1	IS	127	VAL	3.2
1	AE	41	PRO	3.2
1	FQ	46	PRO	3.2
1	LG	37	HIS	3.2
1	NO	46	PRO	3.2
1	MZ	126	LEU	3.2
1	FE	128	ILE	3.2
1	FI	73	ILE	3.2
1	LD	44	GLY	3.2
1	MY	128	ILE	3.2
1	EK	48	THR	3.2
1	GR	48	THR	3.2
1	JD	56	ARG	3.2
1	NA	48	THR	3.2
1	HR	118	GLN	3.2

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Mol	Chain	Res	Type	RSRZ
1	AQ	119	ASP	3.2
1	ER	113	TYR	3.2
1	FO	116	TYR	3.2
1	FQ	119	ASP	3.2
1	HR	116	TYR	3.2
1	FO	124	GLU	3.2
1	GR	124	GLU	3.2
1	JY	124	GLU	3.2
1	JZ	104	GLU	3.2
1	AS	114	SER	3.2
1	KR	127	VAL	3.2
1	MX	114	SER	3.2
1	FS	41	PRO	3.2
1	GO	128	ILE	3.1
1	IG	122	PHE	3.1
1	LQ	73	ILE	3.1
1	ML	128	ILE	3.1
1	NN	122	PHE	3.1
1	GY	44	GLY	3.1
1	II	47	GLY	3.1
1	II	84	GLY	3.1
1	LI	84	GLY	3.1
1	BM	48	THR	3.1
1	CK	48	THR	3.1
1	GI	48	THR	3.1
1	IC	48	THR	3.1
1	JC	129	THR	3.1
1	JD	48	THR	3.1
1	JR	48	THR	3.1
1	LI	118	GLN	3.1
1	CH	50	LYS	3.1
1	KQ	2	LYS	3.1
1	KU	8	LYS	3.1
1	LH	120	LYS	3.1
1	MH	8	LYS	3.1
1	DD	124	GLU	3.1
1	GG	124	GLU	3.1
1	CC	71	VAL	3.1
1	CH	1	SER	3.1
1	FY	63	ALA	3.1
1	FZ	117	VAL	3.1
1	II	117	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
1	EM	60	LEU	3.1
1	LG	114	SER	3.1
1	IP	41	PRO	3.1
1	CU	128	ILE	3.1
1	DC	128	ILE	3.1
1	NE	122	PHE	3.1
1	NV	37	HIS	3.1
1	NV	128	ILE	3.1
1	BN	56	ARG	3.1
1	BT	84	GLY	3.1
1	NM	69	ARG	3.1
1	EC	48	THR	3.1
1	GE	48	THR	3.1
1	AL	124	GLU	3.1
1	AR	117	VAL	3.1
1	DI	74	VAL	3.1
1	EZ	78	GLU	3.1
1	IZ	71	VAL	3.1
1	JT	12	LEU	3.1
1	LV	112	ALA	3.1
1	MA	74	VAL	3.1
1	MM	124	GLU	3.1
1	NH	117	VAL	3.1
1	CP	119	ASP	3.1
1	DJ	128	ILE	3.1
1	IH	128	ILE	3.1
1	II	122	PHE	3.1
1	BB	56	ARG	3.1
1	EP	56	ARG	3.1
1	AB	43	LYS	3.1
1	DS	86	THR	3.1
1	JV	20	THR	3.1
1	LO	40	THR	3.1
1	MB	48	THR	3.1
1	MI	20	THR	3.1
1	CY	18	LEU	3.1
1	DQ	127	VAL	3.1
1	DS	117	VAL	3.1
1	EB	127	VAL	3.1
1	HP	117	VAL	3.1
1	JA	1	SER	3.1
1	JF	117	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
1	KF	127	VAL	3.1
1	AM	124	GLU	3.1
1	KT	124	GLU	3.1
1	II	128	ILE	3.1
1	LU	119	ASP	3.1
1	DI	81	PHE	3.1
1	HD	41	PRO	3.1
1	MA	72	PRO	3.1
1	CL	76	LYS	3.1
1	GZ	76	LYS	3.1
1	NS	52	MET	3.1
1	NH	115	GLY	3.1
1	AO	48	THR	3.1
1	AR	58	THR	3.1
1	AS	48	THR	3.1
1	ES	48	THR	3.1
1	KV	126	LEU	3.1
1	MI	58	THR	3.1
1	MJ	48	THR	3.1
1	NB	48	THR	3.1
1	AM	112	ALA	3.1
1	DX	121	TYR	3.1
1	ET	121	TYR	3.1
1	FF	114	SER	3.1
1	GB	116	TYR	3.1
1	IV	127	VAL	3.1
1	GM	6	ILE	3.1
1	HQ	124	GLU	3.1
1	MF	130	GLU	3.1
1	EC	72	PRO	3.1
1	EI	69	ARG	3.1
1	GQ	69	ARG	3.1
1	JF	69	ARG	3.1
1	JJ	56	ARG	3.1
1	LI	119	ASP	3.1
1	MR	69	ARG	3.1
1	CJ	126	LEU	3.1
1	JA	44	GLY	3.1
1	JL	126	LEU	3.1
1	LH	47	GLY	3.1
1	ND	126	LEU	3.1
1	BX	48	THR	3.1

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Mol	Chain	Res	Type	RSRZ
1	DJ	48	THR	3.1
1	IG	48	THR	3.1
1	ND	58	THR	3.1
1	CC	83	VAL	3.1
1	CZ	117	VAL	3.1
1	FS	127	VAL	3.1
1	FT	74	VAL	3.1
1	IN	117	VAL	3.1
1	IN	127	VAL	3.1
1	JT	13	SER	3.1
1	JU	117	VAL	3.1
1	ME	127	VAL	3.1
1	AX	128	ILE	3.1
1	HC	116	TYR	3.1
1	HI	128	ILE	3.1
1	JS	128	ILE	3.1
1	NS	116	TYR	3.1
1	FT	124	GLU	3.1
1	ID	130	GLU	3.1
1	JA	78	GLU	3.1
1	JM	7	PHE	3.1
1	NQ	76	LYS	3.1
1	IO	69	ARG	3.1
1	LQ	72	PRO	3.1
1	LB	125	ASP	3.1
1	EJ	37	HIS	3.1
1	GI	58	THR	3.1
1	GK	86	THR	3.1
1	KC	48	THR	3.1
1	LY	24	HIS	3.1
1	AA	128	ILE	3.0
1	CP	1	SER	3.0
1	DK	6	ILE	3.0
1	DW	6	ILE	3.0
1	GA	26	VAL	3.0
1	KM	1	SER	3.0
1	LM	127	VAL	3.0
1	LR	117	VAL	3.0
1	LX	114	SER	3.0
1	KY	70	ALA	3.0
1	CE	81	PHE	3.0
1	KN	81	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
1	GO	56	ARG	3.0
1	KP	78	GLU	3.0
1	MA	115	GLY	3.0
1	DP	48	THR	3.0
1	KU	48	THR	3.0
1	LZ	129	THR	3.0
1	IK	128	ILE	3.0
1	JQ	128	ILE	3.0
1	HP	74	VAL	3.0
1	JH	127	VAL	3.0
1	KW	74	VAL	3.0
1	LV	127	VAL	3.0
1	ND	83	VAL	3.0
1	BA	95	LYS	3.0
1	CP	122	PHE	3.0
1	IX	7	PHE	3.0
1	JB	122	PHE	3.0
1	KL	120	LYS	3.0
1	LH	98	ALA	3.0
1	DI	56	ARG	3.0
1	CD	126	LEU	3.0
1	EC	78	GLU	3.0
1	IM	78	GLU	3.0
1	JB	78	GLU	3.0
1	JD	124	GLU	3.0
1	LL	52	MET	3.0
1	AG	41	PRO	3.0
1	CG	72	PRO	3.0
1	DW	22	PRO	3.0
1	GD	41	PRO	3.0
1	JI	39	PRO	3.0
1	MZ	46	PRO	3.0
1	BS	84	GLY	3.0
1	IW	44	GLY	3.0
1	DO	65	THR	3.0
1	HF	48	THR	3.0
1	HG	48	THR	3.0
1	JV	48	THR	3.0
1	KF	48	THR	3.0
1	NC	86	THR	3.0
1	BT	76	LYS	3.0
1	DO	117	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
1	ER	127	VAL	3.0
1	FF	105	VAL	3.0
1	HQ	117	VAL	3.0
1	IB	71	VAL	3.0
1	JC	95	LYS	3.0
1	GE	24	HIS	3.0
1	JX	127	VAL	3.0
1	NL	49	VAL	3.0
1	JN	91	ALA	3.0
1	AH	69	ARG	3.0
1	KK	56	ARG	3.0
1	AD	121	TYR	3.0
1	DK	116	TYR	3.0
1	AD	72	PRO	3.0
1	AX	3	PRO	3.0
1	FC	41	PRO	3.0
1	IL	41	PRO	3.0
1	AA	84	GLY	3.0
1	AU	47	GLY	3.0
1	IC	84	GLY	3.0
1	NJ	128	ILE	3.0
1	EE	48	THR	3.0
1	EH	48	THR	3.0
1	FH	95	LYS	3.0
1	JC	48	THR	3.0
1	KF	40	THR	3.0
1	NL	48	THR	3.0
1	NO	48	THR	3.0
1	BV	127	VAL	3.0
1	CH	117	VAL	3.0
1	DH	127	VAL	3.0
1	KU	13	SER	3.0
1	MB	127	VAL	3.0
1	NQ	81	PHE	3.0
1	DC	69	ARG	3.0
1	HR	69	ARG	3.0
1	II	9	LEU	3.0
1	KP	126	LEU	3.0
1	LC	56	ARG	3.0
1	DS	54	ASN	3.0
1	GN	116	TYR	3.0
1	HK	124	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	AN	3	PRO	3.0
1	DY	120	LYS	3.0
1	GF	95	LYS	3.0
1	CU	115	GLY	3.0
1	HR	115	GLY	3.0
1	NK	115	GLY	3.0
1	BR	48	THR	3.0
1	ES	31	THR	3.0
1	NG	48	THR	3.0
1	AX	126	LEU	3.0
1	KP	117	VAL	3.0
1	LH	117	VAL	3.0
1	AD	56	ARG	3.0
1	DF	56	ARG	3.0
1	FH	91	ALA	3.0
1	LJ	119	ASP	3.0
1	NT	70	ALA	3.0
1	DH	78	GLU	3.0
1	HC	78	GLU	3.0
1	IA	124	GLU	3.0
1	JF	124	GLU	3.0
1	JM	124	GLU	3.0
1	KG	78	GLU	3.0
1	KR	72	PRO	3.0
1	BZ	128	ILE	3.0
1	GP	73	ILE	3.0
1	GR	128	ILE	3.0
1	HR	8	LYS	3.0
1	IW	128	ILE	3.0
1	DF	100	PHE	3.0
1	DM	33	GLY	3.0
1	DX	84	GLY	3.0
1	AT	40	THR	3.0
1	CD	83	VAL	3.0
1	IZ	117	VAL	3.0
1	KH	48	THR	3.0
1	KY	48	THR	3.0
1	LD	48	THR	3.0
1	MD	48	THR	3.0
1	NH	114	SER	3.0
1	DR	69	ARG	3.0
1	ED	70	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
1	JT	119	ASP	3.0
1	KF	45	ASN	2.9
1	IB	124	GLU	2.9
1	IC	128	ILE	2.9
1	KF	76	LYS	2.9
1	LX	45	ASN	2.9
1	AQ	41	PRO	2.9
1	AX	124	GLU	2.9
1	BP	124	GLU	2.9
1	EF	128	ILE	2.9
1	EV	73	ILE	2.9
1	FC	73	ILE	2.9
1	FY	41	PRO	2.9
1	LP	104	GLU	2.9
1	ND	124	GLU	2.9
1	NE	41	PRO	2.9
1	BS	126	LEU	2.9
1	NP	126	LEU	2.9
1	AY	44	GLY	2.9
1	FM	115	GLY	2.9
1	GG	84	GLY	2.9
1	HF	1	SER	2.9
1	II	52	MET	2.9
1	KM	84	GLY	2.9
1	DC	74	VAL	2.9
1	DO	1	SER	2.9
1	FM	127	VAL	2.9
1	HQ	56	ARG	2.9
1	KJ	117	VAL	2.9
1	NN	117	VAL	2.9
1	NP	48	THR	2.9
1	NV	1	SER	2.9
1	II	63	ALA	2.9
1	AS	128	ILE	2.9
1	CZ	128	ILE	2.9
1	GJ	128	ILE	2.9
1	GK	76	LYS	2.9
1	GY	128	ILE	2.9
1	GZ	128	ILE	2.9
1	NJ	43	LYS	2.9
1	NU	95	LYS	2.9
1	EN	41	PRO	2.9

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Mol	Chain	Res	Type	RSRZ
1	FC	72	PRO	2.9
1	KC	72	PRO	2.9
1	DL	126	LEU	2.9
1	EM	126	LEU	2.9
1	HX	126	LEU	2.9
1	AU	48	THR	2.9
1	CX	48	THR	2.9
1	DA	49	VAL	2.9
1	DA	71	VAL	2.9
1	ER	114	SER	2.9
1	FQ	127	VAL	2.9
1	IC	35	VAL	2.9
1	JC	56	ARG	2.9
1	FR	48	THR	2.9
1	IM	48	THR	2.9
1	JN	96	GLN	2.9
1	KP	74	VAL	2.9
1	NF	26	VAL	2.9
1	CR	120	LYS	2.9
1	ES	128	ILE	2.9
1	LC	73	ILE	2.9
1	LT	128	ILE	2.9
1	NF	73	ILE	2.9
1	EY	126	LEU	2.9
1	GV	116	TYR	2.9
1	HI	126	LEU	2.9
1	MR	12	LEU	2.9
1	BE	122	PHE	2.9
1	BU	122	PHE	2.9
1	CI	39	PRO	2.9
1	DT	130	GLU	2.9
1	ES	124	GLU	2.9
1	FA	78	GLU	2.9
1	FN	104	GLU	2.9
1	HD	72	PRO	2.9
1	HH	72	PRO	2.9
1	IH	122	PHE	2.9
1	IK	122	PHE	2.9
1	NM	124	GLU	2.9
1	FQ	52	MET	2.9
1	AJ	56	ARG	2.9
1	AX	117	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
1	CH	47	GLY	2.9
1	DK	80	SER	2.9
1	EA	49	VAL	2.9
1	EZ	49	VAL	2.9
1	FB	1	SER	2.9
1	HS	84	GLY	2.9
1	IK	117	VAL	2.9
1	MS	74	VAL	2.9
1	CA	48	THR	2.9
1	CG	48	THR	2.9
1	CJ	86	THR	2.9
1	FN	129	THR	2.9
1	GA	27	THR	2.9
1	JQ	48	THR	2.9
1	KS	48	THR	2.9
1	DE	34	ILE	2.9
1	CY	9	LEU	2.9
1	GU	126	LEU	2.9
1	CH	124	GLU	2.9
1	KH	78	GLU	2.9
1	LF	41	PRO	2.9
1	LP	68	GLU	2.9
1	LV	72	PRO	2.9
1	MB	41	PRO	2.9
1	ME	41	PRO	2.9
1	MP	41	PRO	2.9
1	JP	56	ARG	2.9
1	BF	127	VAL	2.9
1	BI	109	GLN	2.9
1	CP	127	VAL	2.9
1	DH	36	SER	2.9
1	FC	115	GLY	2.9
1	MF	71	VAL	2.9
1	BF	8	LYS	2.9
1	GW	43	LYS	2.9
1	GZ	48	THR	2.9
1	KW	48	THR	2.9
1	JJ	128	ILE	2.9
1	NM	128	ILE	2.9
1	DF	126	LEU	2.9
1	HA	126	LEU	2.9
1	JK	126	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
1	AN	46	PRO	2.9
1	AZ	56	ARG	2.9
1	BJ	124	GLU	2.9
1	FW	89	ASP	2.9
1	IN	3	PRO	2.9
1	LK	72	PRO	2.9
1	IO	78	GLU	2.9
1	JI	124	GLU	2.9
1	LD	130	GLU	2.9
1	LW	78	GLU	2.9
1	CY	120	LYS	2.9
1	DD	117	VAL	2.9
1	EQ	114	SER	2.9
1	GR	115	GLY	2.9
1	HY	95	LYS	2.9
1	KY	43	LYS	2.9
1	LJ	43	LYS	2.9
1	MK	36	SER	2.9
1	MT	76	LYS	2.9
1	NG	83	VAL	2.9
1	NS	84	GLY	2.9
1	CZ	40	THR	2.9
1	LE	48	THR	2.9
1	MA	40	THR	2.9
1	NK	48	THR	2.9
1	AT	128	ILE	2.9
1	GC	6	ILE	2.9
1	JW	128	ILE	2.9
1	EC	126	LEU	2.9
1	EG	126	LEU	2.9
1	LD	126	LEU	2.9
1	HS	100	PHE	2.9
1	NH	7	PHE	2.9
1	AC	52	MET	2.9
1	AL	121	TYR	2.9
1	HA	56	ARG	2.9
1	HT	41	PRO	2.9
1	JS	72	PRO	2.9
1	AF	37	HIS	2.8
1	AO	124	GLU	2.9
1	BH	37	HIS	2.8
1	CL	2	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	CN	120	LYS	2.9
1	HW	78	GLU	2.9
1	IU	78	GLU	2.9
1	LV	104	GLU	2.9
1	MJ	78	GLU	2.9
1	MK	8	LYS	2.9
1	MT	78	GLU	2.9
1	NT	120	LYS	2.9
1	BR	127	VAL	2.8
1	GC	127	VAL	2.8
1	HL	80	SER	2.8
1	JP	1	SER	2.8
1	JY	127	VAL	2.8
1	KN	117	VAL	2.8
1	LJ	114	SER	2.8
1	BJ	48	THR	2.8
1	CR	5	ALA	2.8
1	DD	48	THR	2.8
1	DQ	128	ILE	2.8
1	FZ	48	THR	2.8
1	GF	128	ILE	2.8
1	HH	48	THR	2.8
1	IL	128	ILE	2.8
1	LM	118	GLN	2.8
1	DE	126	LEU	2.8
1	GL	48	THR	2.8
1	IP	112	ALA	2.8
1	IV	48	THR	2.8
1	NQ	73	ILE	2.8
1	GX	91	ALA	2.8
1	GZ	126	LEU	2.8
1	LF	18	LEU	2.8
1	LW	5	ALA	2.8
1	NS	5	ALA	2.8
1	IV	81	PHE	2.8
1	KM	19	PHE	2.8
1	MM	56	ARG	2.8
1	EW	46	PRO	2.8
1	FO	95	LYS	2.8
1	FZ	76	LYS	2.8
1	HV	113	TYR	2.8
1	JC	72	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
1	JG	116	TYR	2.8
1	LF	116	TYR	2.8
1	MC	121	TYR	2.8
1	BR	1	SER	2.8
1	EK	127	VAL	2.8
1	FC	104	GLU	2.8
1	GX	130	GLU	2.8
1	IY	74	VAL	2.8
1	IY	114	SER	2.8
1	JL	127	VAL	2.8
1	JN	127	VAL	2.8
1	JP	124	GLU	2.8
1	KB	114	SER	2.8
1	KJ	78	GLU	2.8
1	MT	80	SER	2.8
1	AG	44	GLY	2.8
1	BN	12	LEU	2.8
1	GT	59	ILE	2.8
1	KF	44	GLY	2.8
1	NC	115	GLY	2.8
1	AK	48	THR	2.8
1	CB	5	ALA	2.8
1	CD	48	THR	2.8
1	DF	48	THR	2.8
1	EB	27	THR	2.8
1	LK	27	THR	2.8
1	DQ	52	MET	2.8
1	FR	52	MET	2.8
1	NF	7	PHE	2.8
1	CU	56	ARG	2.8
1	JN	95	LYS	2.8
1	LR	56	ARG	2.8
1	AO	72	PRO	2.8
1	JP	41	PRO	2.8
1	KB	46	PRO	2.8
1	KD	46	PRO	2.8
1	LR	116	TYR	2.8
1	MG	72	PRO	2.8
1	AT	6	ILE	2.8
1	CC	128	ILE	2.8
1	CR	103	GLU	2.8
1	CV	74	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
1	DP	117	VAL	2.8
1	DQ	126	LEU	2.8
1	EJ	80	SER	2.8
1	HB	74	VAL	2.8
1	IE	80	SER	2.8
1	HU	78	GLU	2.8
1	JP	128	ILE	2.8
1	KD	124	GLU	2.8
1	KP	124	GLU	2.8
1	LZ	117	VAL	2.8
1	MX	126	LEU	2.8
1	BV	115	GLY	2.8
1	CN	115	GLY	2.8
1	BA	86	THR	2.8
1	BZ	48	THR	2.8
1	CW	48	THR	2.8
1	EW	48	THR	2.8
1	DV	122	PHE	2.8
1	BX	8	LYS	2.8
1	CK	56	ARG	2.8
1	GU	120	LYS	2.8
1	LO	56	ARG	2.8
1	NL	76	LYS	2.8
1	NN	56	ARG	2.8
1	NS	50	LYS	2.8
1	BN	73	ILE	2.8
1	CB	116	TYR	2.8
1	EE	22	PRO	2.8
1	EK	72	PRO	2.8
1	DX	127	VAL	2.8
1	EB	74	VAL	2.8
1	EG	83	VAL	2.8
1	ER	80	SER	2.8
1	EY	39	PRO	2.8
1	IQ	126	LEU	2.8
1	IY	73	ILE	2.8
1	LJ	60	LEU	2.8
1	MH	12	LEU	2.8
1	HL	1	SER	2.8
1	MS	46	PRO	2.8
1	CF	74	VAL	2.8
1	DG	117	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
1	HA	117	VAL	2.8
1	HY	117	VAL	2.8
1	HZ	26	VAL	2.8
1	MD	74	VAL	2.8
1	DG	115	GLY	2.8
1	DS	124	GLU	2.8
1	ER	115	GLY	2.8
1	FK	47	GLY	2.8
1	JB	124	GLU	2.8
1	JX	103	GLU	2.8
1	IH	5	ALA	2.8
1	IC	52	MET	2.8
1	LU	48	THR	2.8
1	IJ	89	ASP	2.8
1	EZ	56	ARG	2.8
1	FA	10	ARG	2.8
1	GP	56	ARG	2.8
1	IG	69	ARG	2.8
1	LE	53	ARG	2.8
1	NO	69	ARG	2.8
1	CJ	38	LEU	2.8
1	GV	128	ILE	2.8
1	JD	73	ILE	2.8
1	LZ	128	ILE	2.8
1	MM	128	ILE	2.8
1	DK	114	SER	2.8
1	AX	113	TYR	2.8
1	CQ	121	TYR	2.8
1	DN	127	VAL	2.8
1	MK	72	PRO	2.8
1	EQ	116	TYR	2.8
1	ND	71	VAL	2.8
1	BQ	84	GLY	2.8
1	EC	124	GLU	2.8
1	KL	78	GLU	2.8
1	MO	118	GLN	2.8
1	ND	47	GLY	2.8
1	NG	84	GLY	2.8
1	NK	78	GLU	2.8
1	AM	91	ALA	2.8
1	BL	48	THR	2.8
1	HE	48	THR	2.8

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Mol	Chain	Res	Type	RSRZ
1	HN	40	THR	2.8
1	ID	48	THR	2.8
1	MV	48	THR	2.8
1	NK	40	THR	2.8
1	JJ	24	HIS	2.8
1	KL	37	HIS	2.8
1	MJ	43	LYS	2.8
1	CC	119	ASP	2.8
1	GG	56	ARG	2.8
1	MO	56	ARG	2.8
1	FA	128	ILE	2.8
1	JG	6	ILE	2.8
1	JY	128	ILE	2.8
1	MA	6	ILE	2.8
1	BA	117	VAL	2.8
1	CQ	117	VAL	2.8
1	GH	74	VAL	2.8
1	GJ	72	PRO	2.8
1	IS	74	VAL	2.8
1	KH	72	PRO	2.8
1	LW	74	VAL	2.8
1	MZ	74	VAL	2.8
1	EI	116	TYR	2.8
1	AR	130	GLU	2.8
1	BE	54	ASN	2.8
1	EE	124	GLU	2.8
1	FN	78	GLU	2.8
1	FQ	124	GLU	2.8
1	JO	84	GLY	2.8
1	JZ	124	GLU	2.8
1	KQ	124	GLU	2.8
1	LE	124	GLU	2.8
1	AG	48	THR	2.8
1	BU	48	THR	2.8
1	BX	40	THR	2.8
1	CJ	40	THR	2.8
1	FU	5	ALA	2.8
1	IP	129	THR	2.8
1	BZ	56	ARG	2.7
1	DT	37	HIS	2.7
1	DX	126	LEU	2.7
1	FK	126	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	IM	75	ILE	2.7
1	LC	128	ILE	2.7
1	CD	127	VAL	2.7
1	ET	1	SER	2.7
1	FE	74	VAL	2.7
1	FQ	72	PRO	2.7
1	IB	22	PRO	2.7
1	IE	74	VAL	2.7
1	IH	117	VAL	2.7
1	JD	83	VAL	2.7
1	JI	72	PRO	2.7
1	JS	41	PRO	2.7
1	LJ	71	VAL	2.7
1	LL	39	PRO	2.7
1	AE	7	PHE	2.7
1	BD	2	LYS	2.7
1	CS	8	LYS	2.7
1	DL	50	LYS	2.7
1	FU	2	LYS	2.7
1	FV	8	LYS	2.7
1	HY	116	TYR	2.7
1	JJ	120	LYS	2.7
1	JS	76	LYS	2.7
1	LR	118	GLN	2.7
1	NR	76	LYS	2.7
1	CO	44	GLY	2.7
1	DQ	124	GLU	2.7
1	GD	124	GLU	2.7
1	IK	70	ALA	2.7
1	JJ	104	GLU	2.7
1	NV	84	GLY	2.7
1	HB	112	ALA	2.7
1	KB	5	ALA	2.7
1	NM	70	ALA	2.7
1	NO	5	ALA	2.7
1	GD	48	THR	2.7
1	HO	48	THR	2.7
1	LK	48	THR	2.7
1	AU	126	LEU	2.7
1	BF	126	LEU	2.7
1	EJ	126	LEU	2.7
1	LK	28	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	LS	69	ARG	2.7
1	BW	73	ILE	2.7
1	MC	128	ILE	2.7
1	NP	59	ILE	2.7
1	JH	119	ASP	2.7
1	AH	127	VAL	2.7
1	AN	127	VAL	2.7
1	EN	114	SER	2.7
1	EO	71	VAL	2.7
1	FC	117	VAL	2.7
1	FQ	117	VAL	2.7
1	HG	74	VAL	2.7
1	KO	127	VAL	2.7
1	MO	36	SER	2.7
1	IJ	41	PRO	2.7
1	KZ	72	PRO	2.7
1	EU	44	GLY	2.7
1	IE	115	GLY	2.7
1	FS	40	THR	2.7
1	FW	126	LEU	2.7
1	GA	48	THR	2.7
1	GD	130	GLU	2.7
1	GV	124	GLU	2.7
1	HF	126	LEU	2.7
1	II	78	GLU	2.7
1	JF	126	LEU	2.7
1	JL	12	LEU	2.7
1	KD	112	ALA	2.7
1	IN	48	THR	2.7
1	IO	86	THR	2.7
1	NE	124	GLU	2.7
1	GU	56	ARG	2.7
1	MS	56	ARG	2.7
1	NJ	56	ARG	2.7
1	HY	128	ILE	2.7
1	KA	128	ILE	2.7
1	CM	2	LYS	2.7
1	DH	114	SER	2.7
1	HS	1	SER	2.7
1	JN	119	ASP	2.7
1	HE	117	VAL	2.7
1	IU	26	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	JW	120	LYS	2.7
1	KF	8	LYS	2.7
1	MA	114	SER	2.7
1	FB	117	VAL	2.7
1	GN	74	VAL	2.7
1	GR	127	VAL	2.7
1	KO	74	VAL	2.7
1	LH	127	VAL	2.7
1	DJ	46	PRO	2.7
1	DK	3	PRO	2.7
1	IB	72	PRO	2.7
1	JA	3	PRO	2.7
1	NO	72	PRO	2.7
1	NP	72	PRO	2.7
1	AN	126	LEU	2.7
1	CJ	44	GLY	2.7
1	CR	47	GLY	2.7
1	GX	115	GLY	2.7
1	JC	70	ALA	2.7
1	JP	5	ALA	2.7
1	NB	116	TYR	2.7
1	EK	124	GLU	2.7
1	EX	68	GLU	2.7
1	GG	48	THR	2.7
1	HJ	124	GLU	2.7
1	IU	128	ILE	2.7
1	KP	48	THR	2.7
1	MG	128	ILE	2.7
1	NQ	54	ASN	2.7
1	EA	50	LYS	2.7
1	GT	120	LYS	2.7
1	JH	120	LYS	2.7
1	EI	36	SER	2.7
1	KV	52	MET	2.7
1	EQ	117	VAL	2.7
1	JH	74	VAL	2.7
1	KY	74	VAL	2.7
1	JD	119	ASP	2.7
1	KP	125	ASP	2.7
1	AA	46	PRO	2.7
1	BS	72	PRO	2.7
1	EP	12	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	ES	9	LEU	2.7
1	HQ	41	PRO	2.7
1	II	39	PRO	2.7
1	IK	72	PRO	2.7
1	KQ	41	PRO	2.7
1	NM	72	PRO	2.7
1	FA	116	TYR	2.7
1	HP	121	TYR	2.7
1	LV	116	TYR	2.7
1	MF	47	GLY	2.7
1	MY	56	ARG	2.7
1	FW	128	ILE	2.7
1	KD	59	ILE	2.7
1	CR	48	THR	2.7
1	EH	104	GLU	2.7
1	EX	48	THR	2.7
1	HP	124	GLU	2.7
1	JE	51	THR	2.7
1	KN	48	THR	2.7
1	KS	86	THR	2.7
1	LD	124	GLU	2.7
1	MR	48	THR	2.7
1	NG	124	GLU	2.7
1	IR	108	ASN	2.7
1	BG	50	LYS	2.7
1	CG	43	LYS	2.7
1	HA	120	LYS	2.7
1	KS	120	LYS	2.7
1	BU	71	VAL	2.7
1	FH	126	LEU	2.7
1	HH	60	LEU	2.7
1	JS	18	LEU	2.7
1	MR	126	LEU	2.7
1	DU	72	PRO	2.7
1	GS	72	PRO	2.7
1	CS	69	ARG	2.7
1	GU	125	ASP	2.7
1	HW	56	ARG	2.7
1	JV	119	ASP	2.7
1	LI	41	PRO	2.7
1	BM	128	ILE	2.7
1	CV	116	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
1	DR	112	ALA	2.7
1	DV	112	ALA	2.7
1	FD	70	ALA	2.7
1	FL	116	TYR	2.7
1	HM	70	ALA	2.7
1	HV	112	ALA	2.7
1	LB	112	ALA	2.7
1	NA	115	GLY	2.7
1	AB	124	GLU	2.7
1	AI	48	THR	2.7
1	AI	58	THR	2.7
1	DC	124	GLU	2.7
1	DT	92	GLU	2.7
1	FE	86	THR	2.7
1	GO	17	THR	2.7
1	IH	124	GLU	2.7
1	KL	48	THR	2.7
1	LH	124	GLU	2.7
1	LQ	48	THR	2.7
1	MZ	124	GLU	2.7
1	DS	108	ASN	2.7
1	EB	45	ASN	2.7
1	MB	8	LYS	2.7
1	MI	2	LYS	2.7
1	LQ	7	PHE	2.7
1	GL	126	LEU	2.7
1	GZ	80	SER	2.7
1	IM	114	SER	2.7
1	JT	114	SER	2.7
1	KJ	126	LEU	2.7
1	MJ	12	LEU	2.7
1	MU	114	SER	2.7
1	GY	24	HIS	2.6
1	IU	74	VAL	2.6
1	KV	117	VAL	2.6
1	LK	71	VAL	2.6
1	AG	72	PRO	2.6
1	CC	41	PRO	2.6
1	EA	56	ARG	2.6
1	FL	6	ILE	2.6
1	II	56	ARG	2.6
1	JY	3	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
1	LK	39	PRO	2.6
1	DR	115	GLY	2.6
1	IQ	112	ALA	2.6
1	KW	5	ALA	2.6
1	NE	119	ASP	2.6
1	EF	116	TYR	2.6
1	IU	121	TYR	2.6
1	LM	121	TYR	2.6
1	BV	48	THR	2.6
1	BY	48	THR	2.6
1	CZ	129	THR	2.6
1	DJ	43	LYS	2.6
1	EQ	120	LYS	2.6
1	FD	50	LYS	2.6
1	FJ	48	THR	2.6
1	FL	48	THR	2.6
1	GW	48	THR	2.6
1	JS	48	THR	2.6
1	AJ	78	GLU	2.6
1	CT	130	GLU	2.6
1	JF	11	GLU	2.6
1	JQ	11	GLU	2.6
1	KF	78	GLU	2.6
1	LK	124	GLU	2.6
1	CM	52	MET	2.6
1	LP	45	ASN	2.6
1	CY	126	LEU	2.6
1	GS	19	PHE	2.6
1	HR	126	LEU	2.6
1	JC	126	LEU	2.6
1	JS	9	LEU	2.6
1	AV	114	SER	2.6
1	CG	114	SER	2.6
1	JV	80	SER	2.6
1	KO	80	SER	2.6
1	AO	117	VAL	2.6
1	BT	83	VAL	2.6
1	GQ	127	VAL	2.6
1	AK	128	ILE	2.6
1	BE	73	ILE	2.6
1	EU	10	ARG	2.6
1	FY	53	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	JC	4	ILE	2.6
1	LC	69	ARG	2.6
1	LE	128	ILE	2.6
1	LX	41	PRO	2.6
1	AR	84	GLY	2.6
1	GB	5	ALA	2.6
1	FM	8	LYS	2.6
1	GX	64	GLY	2.6
1	IY	95	LYS	2.6
1	JJ	44	GLY	2.6
1	MY	115	GLY	2.6
1	NH	5	ALA	2.6
1	NM	5	ALA	2.6
1	KM	50	LYS	2.6
1	NH	120	LYS	2.6
1	AR	48	THR	2.6
1	AV	27	THR	2.6
1	BJ	121	TYR	2.6
1	DT	79	THR	2.6
1	ED	116	TYR	2.6
1	EK	116	TYR	2.6
1	ES	125	ASP	2.6
1	EX	119	ASP	2.6
1	JA	48	THR	2.6
1	KL	119	ASP	2.6
1	LK	125	ASP	2.6
1	DO	124	GLU	2.6
1	BK	9	LEU	2.6
1	CA	19	PHE	2.6
1	IH	126	LEU	2.6
1	AP	114	SER	2.6
1	BA	14	SER	2.6
1	BJ	1	SER	2.6
1	BQ	1	SER	2.6
1	FX	114	SER	2.6
1	MC	1	SER	2.6
1	BT	49	VAL	2.6
1	DV	83	VAL	2.6
1	GS	74	VAL	2.6
1	HE	74	VAL	2.6
1	JS	127	VAL	2.6
1	JY	71	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	JZ	35	VAL	2.6
1	AY	128	ILE	2.6
1	BI	69	ARG	2.6
1	CI	128	ILE	2.6
1	HP	59	ILE	2.6
1	LI	6	ILE	2.6
1	MW	128	ILE	2.6
1	NT	56	ARG	2.6
1	CG	46	PRO	2.6
1	DW	72	PRO	2.6
1	FG	37	HIS	2.6
1	CS	50	LYS	2.6
1	GF	76	LYS	2.6
1	JL	50	LYS	2.6
1	MS	72	PRO	2.6
1	NP	120	LYS	2.6
1	CW	112	ALA	2.6
1	DH	44	GLY	2.6
1	EP	112	ALA	2.6
1	LI	115	GLY	2.6
1	MW	84	GLY	2.6
1	NG	91	ALA	2.6
1	BY	40	THR	2.6
1	DZ	48	THR	2.6
1	ES	18	LEU	2.6
1	GB	48	THR	2.6
1	GG	126	LEU	2.6
1	IK	40	THR	2.6
1	IL	121	TYR	2.6
1	LB	129	THR	2.6
1	LX	119	ASP	2.6
1	MF	126	LEU	2.6
1	AK	78	GLU	2.6
1	BR	88	GLU	2.6
1	CW	124	GLU	2.6
1	DE	19	PHE	2.6
1	FO	81	PHE	2.6
1	KU	124	GLU	2.6
1	AY	80	SER	2.6
1	CP	114	SER	2.6
1	DZ	114	SER	2.6
1	FE	1	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	FO	54	ASN	2.6
1	HK	54	ASN	2.6
1	LS	1	SER	2.6
1	BB	128	ILE	2.6
1	CU	74	VAL	2.6
1	ES	74	VAL	2.6
1	IF	127	VAL	2.6
1	JI	83	VAL	2.6
1	KA	74	VAL	2.6
1	KL	127	VAL	2.6
1	MA	56	ARG	2.6
1	MP	56	ARG	2.6
1	NB	128	ILE	2.6
1	NC	10	ARG	2.6
1	NE	128	ILE	2.6
1	AQ	120	LYS	2.6
1	GX	120	LYS	2.6
1	BI	91	ALA	2.6
1	CV	115	GLY	2.6
1	EY	28	LEU	2.6
1	GY	52	MET	2.6
1	HX	115	GLY	2.6
1	IG	126	LEU	2.6
1	IX	115	GLY	2.6
1	NV	126	LEU	2.6
1	DT	48	THR	2.6
1	GH	113	TYR	2.6
1	GO	121	TYR	2.6
1	HY	48	THR	2.6
1	JE	116	TYR	2.6
1	KQ	116	TYR	2.6
1	DM	104	GLU	2.6
1	DZ	119	ASP	2.6
1	FI	78	GLU	2.6
1	GT	119	ASP	2.6
1	KV	89	ASP	2.6
1	LM	78	GLU	2.6
1	AU	56	ARG	2.6
1	BX	127	VAL	2.6
1	EA	117	VAL	2.6
1	EI	127	VAL	2.6
1	EM	75	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	EP	117	VAL	2.6
1	EV	128	ILE	2.6
1	FR	127	VAL	2.6
1	II	83	VAL	2.6
1	IQ	128	ILE	2.6
1	JT	128	ILE	2.6
1	LF	105	VAL	2.6
1	LK	128	ILE	2.6
1	LP	69	ARG	2.6
1	NQ	71	VAL	2.6
1	EF	2	LYS	2.6
1	JN	8	LYS	2.6
1	AR	72	PRO	2.6
1	BO	126	LEU	2.6
1	CK	112	ALA	2.6
1	CP	118	GLN	2.6
1	DI	12	LEU	2.6
1	EQ	72	PRO	2.6
1	FP	126	LEU	2.6
1	FQ	126	LEU	2.6
1	JF	46	PRO	2.6
1	JW	39	PRO	2.6
1	LM	52	MET	2.6
1	AE	84	GLY	2.6
1	AX	84	GLY	2.6
1	GO	84	GLY	2.6
1	IT	115	GLY	2.6
1	LR	44	GLY	2.6
1	MM	115	GLY	2.6
1	AI	7	PHE	2.6
1	GT	122	PHE	2.6
1	BE	121	TYR	2.6
1	BF	40	THR	2.6
1	BG	116	TYR	2.6
1	EB	116	TYR	2.6
1	HA	48	THR	2.6
1	KC	116	TYR	2.6
1	KV	116	TYR	2.6
1	MM	48	THR	2.6
1	NQ	48	THR	2.6
1	BJ	128	ILE	2.6
1	CN	78	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	DI	104	GLU	2.6
1	EB	78	GLU	2.6
1	FW	104	GLU	2.6
1	GK	36	SER	2.6
1	GW	6	ILE	2.6
1	KC	124	GLU	2.6
1	LD	128	ILE	2.6
1	NP	78	GLU	2.6
1	GU	119	ASP	2.6
1	NB	114	SER	2.6
1	NE	114	SER	2.6
1	AQ	127	VAL	2.6
1	DD	105	VAL	2.6
1	IF	54	ASN	2.6
1	IR	56	ARG	2.6
1	IW	117	VAL	2.6
1	KH	43	LYS	2.6
1	KI	76	LYS	2.6
1	LY	69	ARG	2.6
1	MP	26	VAL	2.6
1	AE	12	LEU	2.6
1	BX	60	LEU	2.6
1	CF	52	MET	2.6
1	DW	60	LEU	2.6
1	GI	60	LEU	2.6
1	JR	126	LEU	2.6
1	KM	18	LEU	2.6
1	KV	9	LEU	2.6
1	DD	46	PRO	2.6
1	GC	41	PRO	2.6
1	HG	39	PRO	2.6
1	KJ	46	PRO	2.6
1	LF	112	ALA	2.6
1	LP	91	ALA	2.6
1	MI	29	PRO	2.6
1	AF	44	GLY	2.6
1	GC	115	GLY	2.6
1	GN	47	GLY	2.6
1	KD	115	GLY	2.6
1	LD	115	GLY	2.6
1	LP	84	GLY	2.6
1	NS	115	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	ND	37	HIS	2.5
1	CY	40	THR	2.5
1	DK	48	THR	2.5
1	DW	20	THR	2.5
1	ER	48	THR	2.5
1	JK	40	THR	2.5
1	KE	27	THR	2.5
1	KM	129	THR	2.5
1	LW	48	THR	2.5
1	BO	73	ILE	2.5
1	CT	128	ILE	2.5
1	DO	128	ILE	2.5
1	FM	113	TYR	2.5
1	GT	116	TYR	2.5
1	IT	128	ILE	2.5
1	LH	116	TYR	2.5
1	BH	78	GLU	2.5
1	DS	78	GLU	2.5
1	DT	124	GLU	2.5
1	EX	124	GLU	2.5
1	FS	36	SER	2.5
1	FU	69	ARG	2.5
1	HC	80	SER	2.5
1	HF	114	SER	2.5
1	ID	50	LYS	2.5
1	JV	124	GLU	2.5
1	JZ	78	GLU	2.5
1	KR	78	GLU	2.5
1	LC	120	LYS	2.5
1	LD	50	LYS	2.5
1	MF	124	GLU	2.5
1	NR	114	SER	2.5
1	AW	127	VAL	2.5
1	DA	74	VAL	2.5
1	IG	127	VAL	2.5
1	IR	83	VAL	2.5
1	JV	26	VAL	2.5
1	MI	127	VAL	2.5
1	MJ	127	VAL	2.5
1	AU	125	ASP	2.5
1	CX	9	LEU	2.5
1	KM	126	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
1	LJ	18	LEU	2.5
1	NU	126	LEU	2.5
1	AO	112	ALA	2.5
1	CH	46	PRO	2.5
1	DA	39	PRO	2.5
1	DV	82	PRO	2.5
1	FW	22	PRO	2.5
1	HM	72	PRO	2.5
1	HP	122	PHE	2.5
1	JC	7	PHE	2.5
1	LE	22	PRO	2.5
1	LZ	7	PHE	2.5
1	NJ	41	PRO	2.5
1	BR	84	GLY	2.5
1	CU	84	GLY	2.5
1	DC	48	THR	2.5
1	DN	128	ILE	2.5
1	GK	48	THR	2.5
1	HA	20	THR	2.5
1	LE	27	THR	2.5
1	LG	58	THR	2.5
1	MS	27	THR	2.5
1	BN	121	TYR	2.5
1	EA	43	LYS	2.5
1	EJ	113	TYR	2.5
1	GO	43	LYS	2.5
1	IB	120	LYS	2.5
1	II	8	LYS	2.5
1	IN	106	LYS	2.5
1	CF	56	ARG	2.5
1	GK	69	ARG	2.5
1	KY	56	ARG	2.5
1	LH	25	SER	2.5
1	AX	71	VAL	2.5
1	BX	104	GLU	2.5
1	CC	103	GLU	2.5
1	DH	124	GLU	2.5
1	DU	78	GLU	2.5
1	GJ	74	VAL	2.5
1	JS	35	VAL	2.5
1	LL	130	GLU	2.5
1	ML	88	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	NA	74	VAL	2.5
1	NF	126	LEU	2.5
1	IH	119	ASP	2.5
1	EH	112	ALA	2.5
1	EZ	118	GLN	2.5
1	HO	46	PRO	2.5
1	KB	3	PRO	2.5
1	KI	72	PRO	2.5
1	MA	41	PRO	2.5
1	NC	41	PRO	2.5
1	EQ	47	GLY	2.5
1	GI	84	GLY	2.5
1	AF	50	LYS	2.5
1	JE	8	LYS	2.5
1	LM	8	LYS	2.5
1	LZ	6	ILE	2.5
1	CB	27	THR	2.5
1	CU	48	THR	2.5
1	LZ	40	THR	2.5
1	MI	48	THR	2.5
1	BC	80	SER	2.5
1	BM	116	TYR	2.5
1	BO	114	SER	2.5
1	BS	113	TYR	2.5
1	JN	114	SER	2.5
1	JV	116	TYR	2.5
1	KI	116	TYR	2.5
1	MM	116	TYR	2.5
1	AM	71	VAL	2.5
1	BD	124	GLU	2.5
1	CA	124	GLU	2.5
1	DL	127	VAL	2.5
1	EV	126	LEU	2.5
1	FK	26	VAL	2.5
1	GK	127	VAL	2.5
1	HN	124	GLU	2.5
1	HY	92	GLU	2.5
1	IZ	74	VAL	2.5
1	IZ	126	LEU	2.5
1	KU	60	LEU	2.5
1	KX	71	VAL	2.5
1	MW	127	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	AK	52	MET	2.5
1	AS	54	ASN	2.5
1	CS	7	PHE	2.5
1	EL	89	ASP	2.5
1	FE	125	ASP	2.5
1	FI	122	PHE	2.5
1	LI	19	PHE	2.5
1	NH	119	ASP	2.5
1	BS	112	ALA	2.5
1	JV	22	PRO	2.5
1	KC	118	GLN	2.5
1	LC	5	ALA	2.5
1	MN	118	GLN	2.5
1	NE	66	ALA	2.5
1	FT	41	PRO	2.5
1	GN	72	PRO	2.5
1	EC	76	LYS	2.5
1	FH	128	ILE	2.5
1	FP	95	LYS	2.5
1	KU	120	LYS	2.5
1	LK	73	ILE	2.5
1	LV	8	LYS	2.5
1	NU	8	LYS	2.5
1	AJ	48	THR	2.5
1	EJ	48	THR	2.5
1	GU	69	ARG	2.5
1	KE	56	ARG	2.5
1	LP	48	THR	2.5
1	LZ	56	ARG	2.5
1	MY	48	THR	2.5
1	NH	56	ARG	2.5
1	CB	126	LEU	2.5
1	CX	1	SER	2.5
1	DP	114	SER	2.5
1	GW	126	LEU	2.5
1	JZ	37	HIS	2.5
1	LK	18	LEU	2.5
1	LN	126	LEU	2.5
1	AS	93	VAL	2.5
1	CC	127	VAL	2.5
1	EP	71	VAL	2.5
1	NK	35	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	HB	124	GLU	2.5
1	JN	124	GLU	2.5
1	MC	124	GLU	2.5
1	MQ	78	GLU	2.5
1	MR	11	GLU	2.5
1	MR	124	GLU	2.5
1	MV	124	GLU	2.5
1	GF	54	ASN	2.5
1	GW	7	PHE	2.5
1	NL	81	PHE	2.5
1	NU	19	PHE	2.5
1	DN	2	LYS	2.5
1	EZ	76	LYS	2.5
1	GQ	76	LYS	2.5
1	KO	120	LYS	2.5
1	MP	112	ALA	2.5
1	JG	72	PRO	2.5
1	MV	44	GLY	2.5
1	MZ	23	GLY	2.5
1	GH	56	ARG	2.5
1	JU	126	LEU	2.5
1	LQ	69	ARG	2.5
1	LX	56	ARG	2.5
1	NE	9	LEU	2.5
1	NN	69	ARG	2.5
1	GX	48	THR	2.5
1	LK	31	THR	2.5
1	IJ	36	SER	2.5
1	MB	80	SER	2.5
1	BP	127	VAL	2.5
1	GF	74	VAL	2.5
1	GL	116	TYR	2.5
1	HN	74	VAL	2.5
1	IK	74	VAL	2.5
1	IP	127	VAL	2.5
1	LI	116	TYR	2.5
1	LJ	127	VAL	2.5
1	MC	117	VAL	2.5
1	AR	124	GLU	2.5
1	BK	124	GLU	2.5
1	FN	88	GLU	2.5
1	LS	124	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	NL	78	GLU	2.5
1	AA	81	PHE	2.5
1	BQ	81	PHE	2.5
1	DF	7	PHE	2.5
1	JT	100	PHE	2.5
1	JV	19	PHE	2.5
1	MN	7	PHE	2.5
1	AN	2	LYS	2.5
1	BD	106	LYS	2.5
1	GQ	8	LYS	2.5
1	GX	95	LYS	2.5
1	BJ	112	ALA	2.5
1	BK	128	ILE	2.5
1	DK	128	ILE	2.5
1	EN	128	ILE	2.5
1	FV	128	ILE	2.5
1	FZ	112	ALA	2.5
1	HI	75	ILE	2.5
1	JG	73	ILE	2.5
1	KA	112	ALA	2.5
1	LL	128	ILE	2.5
1	NA	66	ALA	2.5
1	BC	72	PRO	2.5
1	EE	119	ASP	2.5
1	JF	125	ASP	2.5
1	KT	56	ARG	2.5
1	LQ	84	GLY	2.5
1	MU	10	ARG	2.5
1	AE	65	THR	2.5
1	AM	48	THR	2.5
1	AW	48	THR	2.5
1	LT	27	THR	2.5
1	MN	27	THR	2.5
1	MW	86	THR	2.5
1	DS	52	MET	2.5
1	IV	114	SER	2.5
1	BD	74	VAL	2.5
1	BJ	93	VAL	2.5
1	EI	74	VAL	2.5
1	HB	105	VAL	2.5
1	HV	74	VAL	2.5
1	IT	117	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	NC	74	VAL	2.5
1	DY	121	TYR	2.5
1	NG	113	TYR	2.5
1	AC	37	HIS	2.4
1	JV	37	HIS	2.4
1	CP	130	GLU	2.4
1	EH	120	LYS	2.4
1	FI	124	GLU	2.4
1	GC	124	GLU	2.4
1	HA	124	GLU	2.4
1	LM	19	PHE	2.4
1	LT	124	GLU	2.4
1	MB	122	PHE	2.4
1	IO	2	LYS	2.4
1	NM	2	LYS	2.4
1	NU	50	LYS	2.4
1	BW	128	ILE	2.4
1	ED	128	ILE	2.4
1	EX	34	ILE	2.4
1	JC	128	ILE	2.4
1	KH	128	ILE	2.4
1	KW	128	ILE	2.4
1	BG	126	LEU	2.4
1	BX	41	PRO	2.4
1	CV	126	LEU	2.4
1	DD	38	LEU	2.4
1	DV	96	GLN	2.4
1	KK	112	ALA	2.4
1	FD	72	PRO	2.4
1	HP	126	LEU	2.4
1	IY	72	PRO	2.4
1	KX	126	LEU	2.4
1	LH	41	PRO	2.4
1	NU	60	LEU	2.4
1	GD	69	ARG	2.4
1	GX	56	ARG	2.4
1	KB	56	ARG	2.4
1	MR	56	ARG	2.4
1	BQ	44	GLY	2.4
1	DE	115	GLY	2.4
1	LR	23	GLY	2.4
1	LR	84	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	MN	84	GLY	2.4
1	NJ	33	GLY	2.4
1	AX	48	THR	2.4
1	ET	27	THR	2.4
1	FP	52	MET	2.4
1	KU	40	THR	2.4
1	LV	36	SER	2.4
1	GI	71	VAL	2.4
1	KV	71	VAL	2.4
1	MP	117	VAL	2.4
1	NG	127	VAL	2.4
1	NH	127	VAL	2.4
1	DK	120	LYS	2.4
1	DT	76	LYS	2.4
1	EM	113	TYR	2.4
1	ET	116	TYR	2.4
1	GO	2	LYS	2.4
1	JU	81	PHE	2.4
1	KG	121	TYR	2.4
1	KY	116	TYR	2.4
1	LZ	122	PHE	2.4
1	MV	43	LYS	2.4
1	NQ	116	TYR	2.4
1	AM	104	GLU	2.4
1	BR	124	GLU	2.4
1	CB	124	GLU	2.4
1	GM	78	GLU	2.4
1	GP	124	GLU	2.4
1	GZ	124	GLU	2.4
1	ID	11	GLU	2.4
1	LR	37	HIS	2.4
1	LW	128	ILE	2.4
1	MA	37	HIS	2.4
1	MF	78	GLU	2.4
1	DG	126	LEU	2.4
1	NI	21	LEU	2.4
1	AH	118	GLN	2.4
1	CH	10	ARG	2.4
1	EQ	56	ARG	2.4
1	FT	118	GLN	2.4
1	GD	56	ARG	2.4
1	IQ	45	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
1	BT	39	PRO	2.4
1	KA	72	PRO	2.4
1	AL	84	GLY	2.4
1	BA	84	GLY	2.4
1	FO	33	GLY	2.4
1	GD	115	GLY	2.4
1	MP	115	GLY	2.4
1	AM	119	ASP	2.4
1	BZ	114	SER	2.4
1	CY	31	THR	2.4
1	FB	40	THR	2.4
1	FI	119	ASP	2.4
1	HU	114	SER	2.4
1	HZ	114	SER	2.4
1	IE	48	THR	2.4
1	IX	48	THR	2.4
1	JI	48	THR	2.4
1	KF	13	SER	2.4
1	KF	119	ASP	2.4
1	MC	40	THR	2.4
1	NK	36	SER	2.4
1	AE	74	VAL	2.4
1	BN	127	VAL	2.4
1	EK	83	VAL	2.4
1	FL	120	LYS	2.4
1	FM	120	LYS	2.4
1	FW	117	VAL	2.4
1	IF	19	PHE	2.4
1	IP	8	LYS	2.4
1	JG	74	VAL	2.4
1	KV	43	LYS	2.4
1	ME	50	LYS	2.4
1	MQ	127	VAL	2.4
1	NC	127	VAL	2.4
1	DH	116	TYR	2.4
1	FV	73	ILE	2.4
1	NC	128	ILE	2.4
1	NG	73	ILE	2.4
1	NK	128	ILE	2.4
1	NP	128	ILE	2.4
1	BF	24	HIS	2.4
1	BT	38	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	DB	124	GLU	2.4
1	DQ	37	HIS	2.4
1	FJ	78	GLU	2.4
1	GI	28	LEU	2.4
1	HF	37	HIS	2.4
1	HX	78	GLU	2.4
1	JL	37	HIS	2.4
1	EF	118	GLN	2.4
1	FB	56	ARG	2.4
1	IR	118	GLN	2.4
1	JY	70	ALA	2.4
1	LU	56	ARG	2.4
1	ML	70	ALA	2.4
1	NM	98	ALA	2.4
1	GB	54	ASN	2.4
1	BW	72	PRO	2.4
1	DA	41	PRO	2.4
1	DE	46	PRO	2.4
1	DT	3	PRO	2.4
1	FS	46	PRO	2.4
1	GB	46	PRO	2.4
1	GD	3	PRO	2.4
1	GU	41	PRO	2.4
1	NH	82	PRO	2.4
1	NI	46	PRO	2.4
1	CL	84	GLY	2.4
1	II	44	GLY	2.4
1	IO	115	GLY	2.4
1	AL	48	THR	2.4
1	CH	43	LYS	2.4
1	DB	50	LYS	2.4
1	EC	80	SER	2.4
1	ED	1	SER	2.4
1	HK	48	THR	2.4
1	HK	76	LYS	2.4
1	HS	43	LYS	2.4
1	HV	1	SER	2.4
1	ID	129	THR	2.4
1	AC	71	VAL	2.4
1	AI	71	VAL	2.4
1	CT	117	VAL	2.4
1	JC	117	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	JW	49	VAL	2.4
1	KJ	74	VAL	2.4
1	LO	19	PHE	2.4
1	ML	26	VAL	2.4
1	MP	127	VAL	2.4
1	MR	122	PHE	2.4
1	FP	119	ASP	2.4
1	DF	128	ILE	2.4
1	EG	128	ILE	2.4
1	LE	34	ILE	2.4
1	BW	116	TYR	2.4
1	DJ	121	TYR	2.4
1	FX	121	TYR	2.4
1	IW	116	TYR	2.4
1	LW	60	LEU	2.4
1	CS	124	GLU	2.4
1	GF	130	GLU	2.4
1	IZ	124	GLU	2.4
1	LA	78	GLU	2.4
1	LL	78	GLU	2.4
1	DC	5	ALA	2.4
1	DM	56	ARG	2.4
1	DS	112	ALA	2.4
1	ED	56	ARG	2.4
1	KY	112	ALA	2.4
1	NC	69	ARG	2.4
1	KR	52	MET	2.4
1	KU	52	MET	2.4
1	BC	46	PRO	2.4
1	AU	2	LYS	2.4
1	BE	115	GLY	2.4
1	BG	72	PRO	2.4
1	CC	82	PRO	2.4
1	DB	22	PRO	2.4
1	GO	72	PRO	2.4
1	HH	41	PRO	2.4
1	IF	41	PRO	2.4
1	LR	41	PRO	2.4
1	MJ	115	GLY	2.4
1	MM	72	PRO	2.4
1	MX	46	PRO	2.4
1	BL	114	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	CM	80	SER	2.4
1	DR	43	LYS	2.4
1	FQ	8	LYS	2.4
1	FV	43	LYS	2.4
1	GC	50	LYS	2.4
1	JJ	2	LYS	2.4
1	JN	50	LYS	2.4
1	LO	36	SER	2.4
1	LS	2	LYS	2.4
1	LZ	50	LYS	2.4
1	MA	1	SER	2.4
1	AM	127	VAL	2.4
1	CX	127	VAL	2.4
1	DN	48	THR	2.4
1	HD	17	THR	2.4
1	HO	81	PHE	2.4
1	JQ	19	PHE	2.4
1	JX	81	PHE	2.4
1	KQ	48	THR	2.4
1	KT	48	THR	2.4
1	LK	81	PHE	2.4
1	NI	48	THR	2.4
1	NK	19	PHE	2.4
1	NO	127	VAL	2.4
1	HT	128	ILE	2.4
1	IP	128	ILE	2.4
1	LE	73	ILE	2.4
1	MU	128	ILE	2.4
1	AF	126	LEU	2.4
1	AH	126	LEU	2.4
1	ME	126	LEU	2.4
1	BO	116	TYR	2.4
1	EO	116	TYR	2.4
1	FK	116	TYR	2.4
1	IW	121	TYR	2.4
1	JT	116	TYR	2.4
1	CM	130	GLU	2.4
1	EP	130	GLU	2.4
1	FO	56	ARG	2.4
1	HU	69	ARG	2.4
1	HY	124	GLU	2.4
1	HZ	56	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	IP	78	GLU	2.4
1	JF	10	ARG	2.4
1	NK	124	GLU	2.4
1	FX	118	GLN	2.4
1	II	96	GLN	2.4
1	ME	52	MET	2.4
1	AD	41	PRO	2.4
1	AD	84	GLY	2.4
1	AV	84	GLY	2.4
1	BK	44	GLY	2.4
1	CR	41	PRO	2.4
1	DJ	41	PRO	2.4
1	FB	41	PRO	2.4
1	FK	43	LYS	2.4
1	GG	46	PRO	2.4
1	GN	8	LYS	2.4
1	GN	50	LYS	2.4
1	HH	46	PRO	2.4
1	JN	76	LYS	2.4
1	HT	115	GLY	2.4
1	IU	54	ASN	2.4
1	JN	115	GLY	2.4
1	KA	54	ASN	2.4
1	KP	72	PRO	2.4
1	KU	76	LYS	2.4
1	LH	43	LYS	2.4
1	MO	120	LYS	2.4
1	NL	8	LYS	2.4
1	AK	19	PHE	2.4
1	CT	81	PHE	2.4
1	IN	1	SER	2.4
1	MB	36	SER	2.4
1	MF	114	SER	2.4
1	MZ	114	SER	2.4
1	AB	126	LEU	2.4
1	AW	126	LEU	2.4
1	BM	74	VAL	2.4
1	CU	127	VAL	2.4
1	DV	127	VAL	2.4
1	FI	40	THR	2.4
1	ES	126	LEU	2.4
1	FJ	127	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	FS	128	ILE	2.4
1	FY	65	THR	2.4
1	FU	18	LEU	2.4
1	FZ	128	ILE	2.4
1	IH	48	THR	2.4
1	IM	127	VAL	2.4
1	JQ	34	ILE	2.4
1	KY	71	VAL	2.4
1	KZ	58	THR	2.4
1	LA	48	THR	2.4
1	GN	9	LEU	2.4
1	MJ	128	ILE	2.4
1	NG	74	VAL	2.4
1	AL	125	ASP	2.4
1	AP	42	ARG	2.4
1	BM	53	ARG	2.4
1	DO	116	TYR	2.4
1	EC	10	ARG	2.4
1	EV	56	ARG	2.4
1	GW	69	ARG	2.4
1	HJ	121	TYR	2.4
1	IK	113	TYR	2.4
1	JF	42	ARG	2.4
1	LT	52	MET	2.4
1	DK	11	GLU	2.4
1	DQ	78	GLU	2.4
1	EW	124	GLU	2.4
1	GM	112	ALA	2.4
1	KI	68	GLU	2.4
1	LE	112	ALA	2.4
1	NI	78	GLU	2.4
1	CM	50	LYS	2.4
1	CV	76	LYS	2.4
1	EI	50	LYS	2.4
1	FL	118	GLN	2.3
1	GP	120	LYS	2.4
1	IP	95	LYS	2.4
1	BL	37	HIS	2.3
1	AU	22	PRO	2.3
1	FB	3	PRO	2.3
1	FN	39	PRO	2.3
1	FY	64	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	FZ	46	PRO	2.3
1	HB	46	PRO	2.3
1	IT	72	PRO	2.3
1	HG	1	SER	2.3
1	IU	115	GLY	2.3
1	JC	115	GLY	2.3
1	JG	41	PRO	2.3
1	JX	72	PRO	2.3
1	KT	80	SER	2.3
1	KZ	81	PHE	2.3
1	NJ	54	ASN	2.3
1	AI	9	LEU	2.3
1	AY	126	LEU	2.3
1	DG	128	ILE	2.3
1	DN	34	ILE	2.3
1	HL	123	ILE	2.3
1	HO	126	LEU	2.3
1	IJ	4	ILE	2.3
1	JD	128	ILE	2.3
1	JW	126	LEU	2.3
1	KI	126	LEU	2.3
1	KL	128	ILE	2.3
1	KM	128	ILE	2.3
1	LM	34	ILE	2.3
1	LP	126	LEU	2.3
1	LR	128	ILE	2.3
1	MN	126	LEU	2.3
1	BI	127	VAL	2.3
1	DA	83	VAL	2.3
1	FC	74	VAL	2.3
1	HX	117	VAL	2.3
1	ID	127	VAL	2.3
1	KG	117	VAL	2.3
1	LD	49	VAL	2.3
1	LO	127	VAL	2.3
1	MP	48	THR	2.3
1	NR	40	THR	2.3
1	BF	69	ARG	2.3
1	LF	56	ARG	2.3
1	LI	56	ARG	2.3
1	BE	116	TYR	2.3
1	DW	52	MET	2.3

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Mol	Chain	Res	Type	RSRZ
1	EL	116	TYR	2.3
1	FS	116	TYR	2.3
1	GD	97	MET	2.3
1	IY	116	TYR	2.3
1	KL	116	TYR	2.3
1	KT	52	MET	2.3
1	ML	113	TYR	2.3
1	HO	8	LYS	2.3
1	LJ	120	LYS	2.3
1	DN	78	GLU	2.3
1	FB	112	ALA	2.3
1	FG	130	GLU	2.3
1	FN	110	GLU	2.3
1	JI	130	GLU	2.3
1	JR	104	GLU	2.3
1	KO	110	GLU	2.3
1	LI	124	GLU	2.3
1	MP	96	GLN	2.3
1	NU	78	GLU	2.3
1	CH	37	HIS	2.3
1	CS	12	LEU	2.3
1	CY	19	PHE	2.3
1	AF	47	GLY	2.3
1	AH	36	SER	2.3
1	AH	80	SER	2.3
1	BD	72	PRO	2.3
1	BH	44	GLY	2.3
1	BT	128	ILE	2.3
1	DY	73	ILE	2.3
1	EA	128	ILE	2.3
1	EF	115	GLY	2.3
1	EI	114	SER	2.3
1	EM	73	ILE	2.3
1	ER	72	PRO	2.3
1	FY	128	ILE	2.3
1	GD	73	ILE	2.3
1	GU	73	ILE	2.3
1	HA	60	LEU	2.3
1	HQ	128	ILE	2.3
1	IN	115	GLY	2.3
1	IQ	39	PRO	2.3
1	IR	38	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	IW	126	LEU	2.3
1	KX	37	HIS	2.3
1	LF	100	PHE	2.3
1	IX	23	GLY	2.3
1	JG	44	GLY	2.3
1	JW	114	SER	2.3
1	KC	128	ILE	2.3
1	KX	128	ILE	2.3
1	KZ	41	PRO	2.3
1	LM	39	PRO	2.3
1	LX	46	PRO	2.3
1	AY	127	VAL	2.3
1	CB	117	VAL	2.3
1	EL	48	THR	2.3
1	FD	127	VAL	2.3
1	FP	35	VAL	2.3
1	FS	86	THR	2.3
1	GE	127	VAL	2.3
1	HL	26	VAL	2.3
1	KK	40	THR	2.3
1	MX	117	VAL	2.3
1	BI	10	ARG	2.3
1	BL	52	MET	2.3
1	CW	10	ARG	2.3
1	DK	69	ARG	2.3
1	EM	56	ARG	2.3
1	HX	10	ARG	2.3
1	KS	69	ARG	2.3
1	NQ	56	ARG	2.3
1	DF	43	LYS	2.3
1	GK	50	LYS	2.3
1	MH	76	LYS	2.3
1	CD	116	TYR	2.3
1	EO	121	TYR	2.3
1	FH	116	TYR	2.3
1	KH	121	TYR	2.3
1	NH	116	TYR	2.3
1	IM	70	ALA	2.3
1	LL	91	ALA	2.3
1	BR	130	GLU	2.3
1	EA	130	GLU	2.3
1	HA	78	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	HH	124	GLU	2.3
1	HO	124	GLU	2.3
1	JK	88	GLU	2.3
1	MZ	78	GLU	2.3
1	BD	73	ILE	2.3
1	BI	6	ILE	2.3
1	BV	100	PHE	2.3
1	DI	126	LEU	2.3
1	EA	81	PHE	2.3
1	FE	122	PHE	2.3
1	FT	81	PHE	2.3
1	GL	128	ILE	2.3
1	AH	46	PRO	2.3
1	BQ	80	SER	2.3
1	CB	41	PRO	2.3
1	CG	41	PRO	2.3
1	DV	72	PRO	2.3
1	FE	72	PRO	2.3
1	HA	1	SER	2.3
1	HE	72	PRO	2.3
1	HV	84	GLY	2.3
1	IC	33	GLY	2.3
1	IY	115	GLY	2.3
1	JT	80	SER	2.3
1	MK	46	PRO	2.3
1	BD	117	VAL	2.3
1	GL	49	VAL	2.3
1	IQ	49	VAL	2.3
1	JB	45	ASN	2.3
1	JX	108	ASN	2.3
1	JY	117	VAL	2.3
1	KY	117	VAL	2.3
1	AE	40	THR	2.3
1	AF	86	THR	2.3
1	IW	27	THR	2.3
1	AI	56	ARG	2.3
1	BM	42	ARG	2.3
1	CZ	69	ARG	2.3
1	EK	2	LYS	2.3
1	IA	42	ARG	2.3
1	IL	56	ARG	2.3
1	IM	50	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	JE	50	LYS	2.3
1	JN	69	ARG	2.3
1	JS	56	ARG	2.3
1	JZ	43	LYS	2.3
1	AF	116	TYR	2.3
1	AO	126	LEU	2.3
1	BK	63	ALA	2.3
1	BN	116	TYR	2.3
1	CJ	66	ALA	2.3
1	CX	116	TYR	2.3
1	EH	116	TYR	2.3
1	EP	116	TYR	2.3
1	EV	70	ALA	2.3
1	FL	112	ALA	2.3
1	JE	112	ALA	2.3
1	LB	5	ALA	2.3
1	NA	5	ALA	2.3
1	BL	124	GLU	2.3
1	BL	128	ILE	2.3
1	BZ	78	GLU	2.3
1	DQ	34	ILE	2.3
1	DZ	128	ILE	2.3
1	HU	34	ILE	2.3
1	ID	19	PHE	2.3
1	EH	11	GLU	2.3
1	GV	78	GLU	2.3
1	JZ	34	ILE	2.3
1	KT	119	ASP	2.3
1	LN	78	GLU	2.3
1	LS	130	GLU	2.3
1	MO	124	GLU	2.3
1	AE	36	SER	2.3
1	DB	80	SER	2.3
1	LQ	14	SER	2.3
1	AT	64	GLY	2.3
1	FF	22	PRO	2.3
1	FZ	22	PRO	2.3
1	GM	115	GLY	2.3
1	IL	115	GLY	2.3
1	JD	47	GLY	2.3
1	LA	46	PRO	2.3
1	LM	22	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	AJ	117	VAL	2.3
1	AU	117	VAL	2.3
1	AV	26	VAL	2.3
1	AZ	35	VAL	2.3
1	IH	71	VAL	2.3
1	LV	71	VAL	2.3
1	NF	74	VAL	2.3
1	AI	31	THR	2.3
1	AS	40	THR	2.3
1	BO	40	THR	2.3
1	JU	48	THR	2.3
1	KF	54	ASN	2.3
1	CZ	120	LYS	2.3
1	EW	56	ARG	2.3
1	HN	120	LYS	2.3
1	LK	8	LYS	2.3
1	MT	52	MET	2.3
1	NL	69	ARG	2.3
1	AN	60	LEU	2.3
1	BA	126	LEU	2.3
1	BL	126	LEU	2.3
1	BO	60	LEU	2.3
1	DB	126	LEU	2.3
1	EW	9	LEU	2.3
1	FN	126	LEU	2.3
1	JP	18	LEU	2.3
1	LS	126	LEU	2.3
1	AK	122	PHE	2.3
1	BF	113	TYR	2.3
1	DI	34	ILE	2.3
1	DX	4	ILE	2.3
1	ED	112	ALA	2.3
1	HA	121	TYR	2.3
1	HY	91	ALA	2.3
1	IE	113	TYR	2.3
1	JW	122	PHE	2.3
1	KN	128	ILE	2.3
1	LX	128	ILE	2.3
1	MB	63	ALA	2.3
1	NA	121	TYR	2.3
1	NE	113	TYR	2.3
1	DJ	118	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
1	AJ	124	GLU	2.3
1	DR	78	GLU	2.3
1	IZ	78	GLU	2.3
1	JX	124	GLU	2.3
1	LG	78	GLU	2.3
1	NU	11	GLU	2.3
1	EP	1	SER	2.3
1	IR	114	SER	2.3
1	JW	80	SER	2.3
1	LM	80	SER	2.3
1	AL	127	VAL	2.3
1	BI	46	PRO	2.3
1	BR	72	PRO	2.3
1	CN	84	GLY	2.3
1	CY	119	ASP	2.3
1	EV	46	PRO	2.3
1	FS	119	ASP	2.3
1	IF	26	VAL	2.3
1	IL	47	GLY	2.3
1	LR	119	ASP	2.3
1	DC	83	VAL	2.3
1	GA	93	VAL	2.3
1	LH	26	VAL	2.3
1	MR	46	PRO	2.3
1	MY	74	VAL	2.3
1	CC	2	LYS	2.3
1	FI	57	LYS	2.3
1	EO	129	THR	2.3
1	ET	37	HIS	2.3
1	EU	120	LYS	2.3
1	LJ	8	LYS	2.3
1	AE	10	ARG	2.3
1	BH	48	THR	2.3
1	CA	17	THR	2.3
1	CC	86	THR	2.3
1	FV	48	THR	2.3
1	GJ	48	THR	2.3
1	HF	27	THR	2.3
1	KO	69	ARG	2.3
1	MU	48	THR	2.3
1	CI	12	LEU	2.3
1	DN	126	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	DU	9	LEU	2.3
1	GT	126	LEU	2.3
1	KV	12	LEU	2.3
1	AL	128	ILE	2.3
1	IC	34	ILE	2.3
1	KB	128	ILE	2.3
1	NH	6	ILE	2.3
1	NT	128	ILE	2.3
1	CJ	121	TYR	2.3
1	DD	5	ALA	2.3
1	FT	116	TYR	2.3
1	FW	116	TYR	2.3
1	JB	66	ALA	2.3
1	CN	13	SER	2.3
1	DA	114	SER	2.3
1	EI	80	SER	2.3
1	FN	1	SER	2.3
1	FY	80	SER	2.3
1	IL	1	SER	2.3
1	IW	124	GLU	2.3
1	JU	124	GLU	2.3
1	KS	78	GLU	2.3
1	LK	14	SER	2.3
1	AJ	41	PRO	2.3
1	BH	41	PRO	2.3
1	CN	127	VAL	2.3
1	CS	127	VAL	2.3
1	CW	117	VAL	2.3
1	DR	46	PRO	2.3
1	EB	46	PRO	2.3
1	ED	84	GLY	2.3
1	EH	39	PRO	2.3
1	EX	83	VAL	2.3
1	FZ	127	VAL	2.3
1	GC	72	PRO	2.3
1	GH	127	VAL	2.3
1	GI	64	GLY	2.3
1	GM	127	VAL	2.3
1	HI	49	VAL	2.3
1	JK	115	GLY	2.3
1	JS	74	VAL	2.3
1	KG	46	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	KO	83	VAL	2.3
1	KP	46	PRO	2.3
1	KX	8	LYS	2.3
1	KY	41	PRO	2.3
1	MF	72	PRO	2.3
1	MJ	44	GLY	2.3
1	NE	46	PRO	2.3
1	NU	33	GLY	2.3
1	BH	56	ARG	2.3
1	LQ	125	ASP	2.3
1	MD	56	ARG	2.3
1	AF	40	THR	2.2
1	AE	37	HIS	2.2
1	CC	54	ASN	2.2
1	DR	48	THR	2.2
1	EF	129	THR	2.2
1	EG	27	THR	2.2
1	EO	48	THR	2.2
1	GF	48	THR	2.2
1	JE	31	THR	2.2
1	ME	40	THR	2.2
1	MI	31	THR	2.2
1	MQ	48	THR	2.2
1	MW	48	THR	2.2
1	EO	37	HIS	2.2
1	JY	37	HIS	2.2
1	CB	60	LEU	2.2
1	GU	9	LEU	2.2
1	HZ	60	LEU	2.2
1	CU	81	PHE	2.2
1	FQ	7	PHE	2.2
1	JT	73	ILE	2.2
1	KX	122	PHE	2.2
1	LS	128	ILE	2.2
1	NO	7	PHE	2.2
1	FU	112	ALA	2.2
1	MT	112	ALA	2.2
1	DZ	118	GLN	2.2
1	IL	118	GLN	2.2
1	KG	118	GLN	2.2
1	NT	113	TYR	2.2
1	BR	76	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	DL	95	LYS	2.2
1	ES	114	SER	2.2
1	FH	120	LYS	2.2
1	FY	43	LYS	2.2
1	IT	2	LYS	2.2
1	DP	124	GLU	2.2
1	EF	78	GLU	2.2
1	FB	124	GLU	2.2
1	FX	78	GLU	2.2
1	GY	124	GLU	2.2
1	JW	124	GLU	2.2
1	KA	124	GLU	2.2
1	MG	104	GLU	2.2
1	AI	69	ARG	2.2
1	BS	74	VAL	2.2
1	BZ	127	VAL	2.2
1	CC	72	PRO	2.2
1	CN	10	ARG	2.2
1	CU	3	PRO	2.2
1	DS	56	ARG	2.2
1	FA	41	PRO	2.2
1	GA	64	GLY	2.2
1	GA	117	VAL	2.2
1	GE	35	VAL	2.2
1	GG	47	GLY	2.2
1	GS	127	VAL	2.2
1	GY	41	PRO	2.2
1	HC	69	ARG	2.2
1	HF	69	ARG	2.2
1	JC	46	PRO	2.2
1	JW	3	PRO	2.2
1	KU	46	PRO	2.2
1	LQ	10	ARG	2.2
1	LV	84	GLY	2.2
1	MV	69	ARG	2.2
1	AB	86	THR	2.2
1	AE	9	LEU	2.2
1	AJ	125	ASP	2.2
1	BI	12	LEU	2.2
1	CP	27	THR	2.2
1	ED	126	LEU	2.2
1	GL	125	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	GR	89	ASP	2.2
1	IR	125	ASP	2.2
1	LO	32	LEU	2.2
1	ND	125	ASP	2.2
1	BT	54	ASN	2.2
1	ME	37	HIS	2.2
1	AU	7	PHE	2.2
1	DA	128	ILE	2.2
1	GH	73	ILE	2.2
1	GU	128	ILE	2.2
1	LI	34	ILE	2.2
1	MR	123	ILE	2.2
1	CC	70	ALA	2.2
1	CQ	70	ALA	2.2
1	JQ	112	ALA	2.2
1	JR	112	ALA	2.2
1	BC	76	LYS	2.2
1	DH	118	GLN	2.2
1	DC	1	SER	2.2
1	DM	116	TYR	2.2
1	EX	118	GLN	2.2
1	GR	1	SER	2.2
1	IG	121	TYR	2.2
1	IS	116	TYR	2.2
1	JX	76	LYS	2.2
1	JH	36	SER	2.2
1	KD	121	TYR	2.2
1	LF	76	LYS	2.2
1	LO	116	TYR	2.2
1	LX	121	TYR	2.2
1	MM	1	SER	2.2
1	AK	127	VAL	2.2
1	AZ	74	VAL	2.2
1	BA	56	ARG	2.2
1	CD	78	GLU	2.2
1	CG	83	VAL	2.2
1	CI	74	VAL	2.2
1	CR	124	GLU	2.2
1	BE	72	PRO	2.2
1	BI	33	GLY	2.2
1	DE	10	ARG	2.2
1	DL	56	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
1	DM	69	ARG	2.2
1	CB	46	PRO	2.2
1	CG	84	GLY	2.2
1	CM	126	LEU	2.2
1	CP	115	GLY	2.2
1	CQ	69	ARG	2.2
1	DU	124	GLU	2.2
1	FO	78	GLU	2.2
1	FX	124	GLU	2.2
1	EA	84	GLY	2.2
1	ED	47	GLY	2.2
1	FG	127	VAL	2.2
1	GV	56	ARG	2.2
1	HE	56	ARG	2.2
1	IB	69	ARG	2.2
1	IH	127	VAL	2.2
1	IK	56	ARG	2.2
1	IU	124	GLU	2.2
1	KU	74	VAL	2.2
1	LX	127	VAL	2.2
1	LY	87	GLU	2.2
1	MQ	74	VAL	2.2
1	NL	71	VAL	2.2
1	BM	126	LEU	2.2
1	BT	3	PRO	2.2
1	BU	61	LEU	2.2
1	DL	18	LEU	2.2
1	FA	9	LEU	2.2
1	GP	46	PRO	2.2
1	IP	46	PRO	2.2
1	KR	126	LEU	2.2
1	LH	46	PRO	2.2
1	LN	41	PRO	2.2
1	LP	72	PRO	2.2
1	LV	126	LEU	2.2
1	ML	126	LEU	2.2
1	MY	72	PRO	2.2
1	BP	48	THR	2.2
1	DZ	40	THR	2.2
1	ED	48	THR	2.2
1	FA	48	THR	2.2
1	FB	48	THR	2.2

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Mol	Chain	Res	Type	RSRZ
1	LK	40	THR	2.2
1	LY	86	THR	2.2
1	NA	65	THR	2.2
1	AW	34	ILE	2.2
1	BA	128	ILE	2.2
1	DY	128	ILE	2.2
1	GH	128	ILE	2.2
1	HA	128	ILE	2.2
1	DW	19	PHE	2.2
1	FS	7	PHE	2.2
1	JX	100	PHE	2.2
1	KI	7	PHE	2.2
1	BT	24	HIS	2.2
1	LU	37	HIS	2.2
1	FA	120	LYS	2.2
1	MM	70	ALA	2.2
1	JX	114	SER	2.2
1	KX	52	MET	2.2
1	LD	52	MET	2.2
1	MN	52	MET	2.2
1	MN	116	TYR	2.2
1	MV	116	TYR	2.2
1	AZ	126	LEU	2.2
1	BV	105	VAL	2.2
1	CI	56	ARG	2.2
1	CY	127	VAL	2.2
1	EC	69	ARG	2.2
1	EJ	117	VAL	2.2
1	ET	124	GLU	2.2
1	FN	103	GLU	2.2
1	EB	72	PRO	2.2
1	ED	72	PRO	2.2
1	FX	84	GLY	2.2
1	FZ	88	GLU	2.2
1	GL	104	GLU	2.2
1	GM	35	VAL	2.2
1	HR	127	VAL	2.2
1	HS	117	VAL	2.2
1	HV	69	ARG	2.2
1	HN	115	GLY	2.2
1	IG	78	GLU	2.2
1	JG	83	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
1	KW	124	GLU	2.2
1	LQ	71	VAL	2.2
1	MF	127	VAL	2.2
1	MG	78	GLU	2.2
1	MI	124	GLU	2.2
1	MW	49	VAL	2.2
1	ND	56	ARG	2.2
1	GX	104	GLU	2.2
1	KG	84	GLY	2.2
1	KL	11	GLU	2.2
1	BD	46	PRO	2.2
1	IH	72	PRO	2.2
1	IU	82	PRO	2.2
1	JW	82	PRO	2.2
1	KC	46	PRO	2.2
1	LW	41	PRO	2.2
1	NU	46	PRO	2.2
1	BA	48	THR	2.2
1	CI	75	ILE	2.2
1	CP	48	THR	2.2
1	FF	40	THR	2.2
1	FP	48	THR	2.2
1	GU	48	THR	2.2
1	HZ	128	ILE	2.2
1	KQ	128	ILE	2.2
1	KR	129	THR	2.2
1	KS	40	THR	2.2
1	LH	40	THR	2.2
1	MG	77	THR	2.2
1	MV	34	ILE	2.2
1	CH	81	PHE	2.2
1	EO	122	PHE	2.2
1	IS	19	PHE	2.2
1	BL	119	ASP	2.2
1	BZ	54	ASN	2.2
1	GO	50	LYS	2.2
1	GY	50	LYS	2.2
1	HX	76	LYS	2.2
1	KM	43	LYS	2.2
1	LG	8	LYS	2.2
1	NL	119	ASP	2.2
1	NL	120	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	NM	95	LYS	2.2
1	HF	52	MET	2.2
1	ID	52	MET	2.2
1	AR	1	SER	2.2
1	CB	69	ARG	2.2
1	CR	56	ARG	2.2
1	DI	111	LEU	2.2
1	DP	56	ARG	2.2
1	DZ	126	LEU	2.2
1	HR	61	LEU	2.2
1	IK	126	LEU	2.2
1	JO	1	SER	2.2
1	JB	69	ARG	2.2
1	JC	53	ARG	2.2
1	JT	18	LEU	2.2
1	MU	126	LEU	2.2
1	MV	114	SER	2.2
1	NC	36	SER	2.2
1	NK	80	SER	2.2
1	FV	121	TYR	2.2
1	GS	121	TYR	2.2
1	JW	10	ARG	2.2
1	JW	121	TYR	2.2
1	KJ	69	ARG	2.2
1	KO	121	TYR	2.2
1	DP	127	VAL	2.2
1	FL	117	VAL	2.2
1	GA	83	VAL	2.2
1	JO	74	VAL	2.2
1	KG	83	VAL	2.2
1	LL	127	VAL	2.2
1	MV	127	VAL	2.2
1	AI	124	GLU	2.2
1	AZ	78	GLU	2.2
1	BD	22	PRO	2.2
1	BS	124	GLU	2.2
1	CU	11	GLU	2.2
1	DS	41	PRO	2.2
1	DW	78	GLU	2.2
1	EH	72	PRO	2.2
1	ES	130	GLU	2.2
1	FS	124	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	GQ	41	PRO	2.2
1	GR	39	PRO	2.2
1	HN	104	GLU	2.2
1	HW	23	GLY	2.2
1	JI	104	GLU	2.2
1	JT	115	GLY	2.2
1	JU	115	GLY	2.2
1	JX	11	GLU	2.2
1	JB	128	ILE	2.2
1	KL	41	PRO	2.2
1	KZ	3	PRO	2.2
1	LG	124	GLU	2.2
1	LU	88	GLU	2.2
1	MZ	115	GLY	2.2
1	KM	6	ILE	2.2
1	LH	6	ILE	2.2
1	BT	77	THR	2.2
1	JQ	81	PHE	2.2
1	KM	7	PHE	2.2
1	LR	48	THR	2.2
1	MG	48	THR	2.2
1	NR	79	THR	2.2
1	NT	40	THR	2.2
1	AZ	76	LYS	2.2
1	BR	95	LYS	2.2
1	CP	8	LYS	2.2
1	DC	76	LYS	2.2
1	DS	76	LYS	2.2
1	EJ	50	LYS	2.2
1	FQ	43	LYS	2.2
1	FQ	120	LYS	2.2
1	FT	120	LYS	2.2
1	LK	76	LYS	2.2
1	NR	120	LYS	2.2
1	KN	54	ASN	2.2
1	CE	91	ALA	2.2
1	CH	125	ASP	2.2
1	CW	15	ASP	2.2
1	EX	52	MET	2.2
1	FQ	37	HIS	2.2
1	FR	119	ASP	2.2
1	IY	112	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	NR	125	ASP	2.2
1	AK	96	GLN	2.2
1	CR	55	LEU	2.2
1	DU	126	LEU	2.2
1	EF	126	LEU	2.2
1	GH	126	LEU	2.2
1	HY	1	SER	2.2
1	LY	9	LEU	2.2
1	MA	38	LEU	2.2
1	ME	80	SER	2.2
1	NO	60	LEU	2.2
1	DD	56	ARG	2.2
1	MV	56	ARG	2.2
1	BW	83	VAL	2.2
1	CW	113	TYR	2.2
1	DQ	116	TYR	2.2
1	HC	127	VAL	2.2
1	JA	121	TYR	2.2
1	JL	83	VAL	2.2
1	JX	117	VAL	2.2
1	KH	117	VAL	2.2
1	LN	113	TYR	2.2
1	MG	71	VAL	2.2
1	BY	128	ILE	2.2
1	CF	73	ILE	2.2
1	CK	128	ILE	2.2
1	EI	73	ILE	2.2
1	EU	128	ILE	2.2
1	JA	128	ILE	2.2
1	IP	72	PRO	2.2
1	IQ	44	GLY	2.2
1	JF	72	PRO	2.2
1	JM	23	GLY	2.2
1	JZ	128	ILE	2.2
1	NB	73	ILE	2.2
1	NM	102	ILE	2.2
1	BT	104	GLU	2.2
1	CL	7	PHE	2.2
1	CO	124	GLU	2.2
1	DC	78	GLU	2.2
1	EI	72	PRO	2.2
1	EN	124	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	EV	72	PRO	2.2
1	GQ	46	PRO	2.2
1	GT	82	PRO	2.2
1	IE	81	PHE	2.2
1	IU	81	PHE	2.2
1	IW	104	GLU	2.2
1	KD	92	GLU	2.2
1	KI	22	PRO	2.2
1	KS	122	PHE	2.2
1	LL	124	GLU	2.2
1	LW	81	PHE	2.2
1	BF	48	THR	2.2
1	FR	40	THR	2.2
1	IE	8	LYS	2.2
1	IG	129	THR	2.2
1	IQ	76	LYS	2.2
1	LL	129	THR	2.2
1	NG	40	THR	2.2
1	FS	45	ASN	2.2
1	BI	126	LEU	2.2
1	BX	126	LEU	2.2
1	DZ	61	LEU	2.2
1	KE	52	MET	2.2
1	GR	70	ALA	2.1
1	KO	61	LEU	2.2
1	LL	112	ALA	2.1
1	AX	69	ARG	2.1
1	BQ	56	ARG	2.1
1	BV	36	SER	2.1
1	BZ	125	ASP	2.1
1	CJ	16	SER	2.1
1	DD	37	HIS	2.1
1	EL	56	ARG	2.1
1	ER	96	GLN	2.1
1	FF	56	ARG	2.1
1	FU	80	SER	2.1
1	GH	118	GLN	2.1
1	GW	56	ARG	2.1
1	HS	69	ARG	2.1
1	JW	119	ASP	2.1
1	KL	56	ARG	2.1
1	LB	119	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	LL	37	HIS	2.1
1	LN	42	ARG	2.1
1	NO	118	GLN	2.1
1	AG	71	VAL	2.1
1	AR	71	VAL	2.1
1	AS	73	ILE	2.1
1	CK	117	VAL	2.1
1	DO	71	VAL	2.1
1	DS	116	TYR	2.1
1	DV	73	ILE	2.1
1	DV	121	TYR	2.1
1	EE	73	ILE	2.1
1	FJ	128	ILE	2.1
1	FQ	71	VAL	2.1
1	GQ	128	ILE	2.1
1	HD	127	VAL	2.1
1	HU	127	VAL	2.1
1	IB	74	VAL	2.1
1	IX	128	ILE	2.1
1	JU	71	VAL	2.1
1	KX	127	VAL	2.1
1	LE	113	TYR	2.1
1	MV	128	ILE	2.1
1	BE	33	GLY	2.1
1	FF	19	PHE	2.1
1	FS	47	GLY	2.1
1	FW	122	PHE	2.1
1	FY	76	LYS	2.1
1	GN	84	GLY	2.1
1	GS	46	PRO	2.1
1	HJ	115	GLY	2.1
1	HZ	19	PHE	2.1
1	GU	43	LYS	2.1
1	HD	124	GLU	2.1
1	IB	41	PRO	2.1
1	ID	78	GLU	2.1
1	IE	82	PRO	2.1
1	JD	115	GLY	2.1
1	JM	72	PRO	2.1
1	JW	8	LYS	2.1
1	LH	72	PRO	2.1
1	LM	120	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	MZ	130	GLU	2.1
1	NL	22	PRO	2.1
1	NS	120	LYS	2.1
1	EI	27	THR	2.1
1	HE	40	THR	2.1
1	HW	40	THR	2.1
1	JR	27	THR	2.1
1	BQ	52	MET	2.1
1	CI	38	LEU	2.1
1	DO	126	LEU	2.1
1	FB	12	LEU	2.1
1	GM	38	LEU	2.1
1	IA	126	LEU	2.1
1	IS	18	LEU	2.1
1	IM	91	ALA	2.1
1	JI	108	ASN	2.1
1	MF	112	ALA	2.1
1	BC	69	ARG	2.1
1	CA	10	ARG	2.1
1	FD	69	ARG	2.1
1	NJ	69	ARG	2.1
1	NO	14	SER	2.1
1	CS	37	HIS	2.1
1	AR	128	ILE	2.1
1	BV	128	ILE	2.1
1	CD	128	ILE	2.1
1	CE	49	VAL	2.1
1	DB	128	ILE	2.1
1	DC	125	ASP	2.1
1	JJ	37	HIS	2.1
1	KX	119	ASP	2.1
1	LD	37	HIS	2.1
1	AY	74	VAL	2.1
1	BE	74	VAL	2.1
1	EI	117	VAL	2.1
1	GH	26	VAL	2.1
1	GS	34	ILE	2.1
1	GT	127	VAL	2.1
1	HE	128	ILE	2.1
1	IV	83	VAL	2.1
1	JL	128	ILE	2.1
1	KM	35	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	LW	6	ILE	2.1
1	MZ	127	VAL	2.1
1	HJ	122	PHE	2.1
1	IA	116	TYR	2.1
1	JD	116	TYR	2.1
1	JQ	8	LYS	2.1
1	KR	76	LYS	2.1
1	KY	120	LYS	2.1
1	NC	50	LYS	2.1
1	NQ	122	PHE	2.1
1	NU	76	LYS	2.1
1	AF	41	PRO	2.1
1	AM	84	GLY	2.1
1	AG	110	GLU	2.1
1	AW	22	PRO	2.1
1	AW	78	GLU	2.1
1	AW	82	PRO	2.1
1	DE	41	PRO	2.1
1	GQ	22	PRO	2.1
1	GT	47	GLY	2.1
1	HE	124	GLU	2.1
1	JQ	78	GLU	2.1
1	KA	82	PRO	2.1
1	LQ	124	GLU	2.1
1	LU	22	PRO	2.1
1	NH	72	PRO	2.1
1	NL	115	GLY	2.1
1	NV	3	PRO	2.1
1	AA	48	THR	2.1
1	AM	85	THR	2.1
1	DL	27	THR	2.1
1	EV	48	THR	2.1
1	FV	129	THR	2.1
1	GP	48	THR	2.1
1	GW	40	THR	2.1
1	JC	40	THR	2.1
1	JS	129	THR	2.1
1	MF	48	THR	2.1
1	DC	60	LEU	2.1
1	GG	9	LEU	2.1
1	GG	12	LEU	2.1
1	HD	126	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	KE	38	LEU	2.1
1	AB	69	ARG	2.1
1	AT	63	ALA	2.1
1	CX	56	ARG	2.1
1	CY	54	ASN	2.1
1	DA	69	ARG	2.1
1	EA	70	ALA	2.1
1	EG	53	ARG	2.1
1	GV	70	ALA	2.1
1	IH	56	ARG	2.1
1	LK	30	ASN	2.1
1	BN	80	SER	2.1
1	DE	36	SER	2.1
1	FV	36	SER	2.1
1	HJ	1	SER	2.1
1	NL	36	SER	2.1
1	DA	73	ILE	2.1
1	FV	75	ILE	2.1
1	HV	128	ILE	2.1
1	MF	118	GLN	2.1
1	NI	102	ILE	2.1
1	AF	83	VAL	2.1
1	AI	125	ASP	2.1
1	AU	100	PHE	2.1
1	CG	7	PHE	2.1
1	CI	49	VAL	2.1
1	DW	50	LYS	2.1
1	ES	117	VAL	2.1
1	EZ	127	VAL	2.1
1	DE	119	ASP	2.1
1	FL	122	PHE	2.1
1	HZ	74	VAL	2.1
1	IB	76	LYS	2.1
1	IV	8	LYS	2.1
1	LD	127	VAL	2.1
1	LP	7	PHE	2.1
1	LW	127	VAL	2.1
1	LY	8	LYS	2.1
1	MH	26	VAL	2.1
1	NO	50	LYS	2.1
1	GY	116	TYR	2.1
1	LS	116	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
1	NS	113	TYR	2.1
1	AM	23	GLY	2.1
1	AZ	115	GLY	2.1
1	JT	33	GLY	2.1
1	KS	84	GLY	2.1
1	KY	84	GLY	2.1
1	BF	3	PRO	2.1
1	CE	82	PRO	2.1
1	EQ	41	PRO	2.1
1	GK	39	PRO	2.1
1	HK	72	PRO	2.1
1	IR	41	PRO	2.1
1	JK	46	PRO	2.1
1	LD	39	PRO	2.1
1	BB	11	GLU	2.1
1	FO	9	LEU	2.1
1	FP	124	GLU	2.1
1	IB	78	GLU	2.1
1	JG	9	LEU	2.1
1	KM	88	GLU	2.1
1	BA	79	THR	2.1
1	BR	52	MET	2.1
1	HA	27	THR	2.1
1	HB	129	THR	2.1
1	HR	40	THR	2.1
1	JV	40	THR	2.1
1	JW	129	THR	2.1
1	NM	58	THR	2.1
1	FL	56	ARG	2.1
1	LN	56	ARG	2.1
1	HH	70	ALA	2.1
1	HJ	112	ALA	2.1
1	HQ	66	ALA	2.1
1	KR	70	ALA	2.1
1	LO	112	ALA	2.1
1	AX	59	ILE	2.1
1	DJ	45	ASN	2.1
1	DP	54	ASN	2.1
1	EE	1	SER	2.1
1	FG	128	ILE	2.1
1	FP	75	ILE	2.1
1	FW	1	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	GP	45	ASN	2.1
1	IA	36	SER	2.1
1	IL	54	ASN	2.1
1	IP	67	SER	2.1
1	IV	128	ILE	2.1
1	JS	73	ILE	2.1
1	KJ	4	ILE	2.1
1	NE	54	ASN	2.1
1	AD	120	LYS	2.1
1	BI	8	LYS	2.1
1	ET	8	LYS	2.1
1	GT	43	LYS	2.1
1	BA	35	VAL	2.1
1	BT	74	VAL	2.1
1	DG	26	VAL	2.1
1	FN	100	PHE	2.1
1	FO	26	VAL	2.1
1	GJ	127	VAL	2.1
1	KA	117	VAL	2.1
1	NG	71	VAL	2.1
1	DZ	84	GLY	2.1
1	FD	126	LEU	2.1
1	IN	126	LEU	2.1
1	LT	125	ASP	2.1
1	FL	44	GLY	2.1
1	FQ	115	GLY	2.1
1	MD	84	GLY	2.1
1	DA	82	PRO	2.1
1	DL	22	PRO	2.1
1	KY	82	PRO	2.1
1	AU	20	THR	2.1
1	CG	110	GLU	2.1
1	DM	103	GLU	2.1
1	DR	11	GLU	2.1
1	HC	48	THR	2.1
1	HM	124	GLU	2.1
1	IJ	48	THR	2.1
1	IK	58	THR	2.1
1	IT	77	THR	2.1
1	JE	27	THR	2.1
1	KP	20	THR	2.1
1	KY	58	THR	2.1

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Mol	Chain	Res	Type	RSRZ
1	MB	124	GLU	2.1
1	MU	58	THR	2.1
1	HB	56	ARG	2.1
1	BN	75	ILE	2.1
1	AB	120	LYS	2.1
1	AD	5	ALA	2.1
1	AJ	112	ALA	2.1
1	AV	73	ILE	2.1
1	EX	128	ILE	2.1
1	FC	112	ALA	2.1
1	FG	70	ALA	2.1
1	GB	75	ILE	2.1
1	IS	34	ILE	2.1
1	JH	128	ILE	2.1
1	JD	76	LYS	2.1
1	JF	8	LYS	2.1
1	KG	8	LYS	2.1
1	KX	70	ALA	2.1
1	BG	80	SER	2.1
1	CW	36	SER	2.1
1	GE	114	SER	2.1
1	KO	36	SER	2.1
1	LJ	36	SER	2.1
1	LO	2	LYS	2.1
1	NH	67	SER	2.1
1	NU	43	LYS	2.1
1	AT	54	ASN	2.1
1	CR	54	ASN	2.1
1	FP	96	GLN	2.1
1	IU	109	GLN	2.1
1	LK	54	ASN	2.1
1	AZ	127	VAL	2.1
1	BN	83	VAL	2.1
1	CG	26	VAL	2.1
1	CL	83	VAL	2.1
1	CQ	74	VAL	2.1
1	EF	74	VAL	2.1
1	EH	117	VAL	2.1
1	EL	127	VAL	2.1
1	FH	117	VAL	2.1
1	FK	71	VAL	2.1
1	FU	127	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	GD	71	VAL	2.1
1	HT	105	VAL	2.1
1	HZ	49	VAL	2.1
1	IC	74	VAL	2.1
1	LS	127	VAL	2.1
1	JQ	126	LEU	2.1
1	LY	37	HIS	2.1
1	CJ	113	TYR	2.1
1	EL	52	MET	2.1
1	KA	125	ASP	2.1
1	KO	84	GLY	2.1
1	KQ	23	GLY	2.1
1	BM	39	PRO	2.1
1	CF	82	PRO	2.1
1	ET	3	PRO	2.1
1	FI	46	PRO	2.1
1	LH	39	PRO	2.1
1	DK	129	THR	2.1
1	EA	86	THR	2.1
1	EG	48	THR	2.1
1	GP	104	GLU	2.1
1	HN	20	THR	2.1
1	JZ	11	GLU	2.1
1	LI	86	THR	2.1
1	LT	78	GLU	2.1
1	LV	124	GLU	2.1
1	ME	78	GLU	2.1
1	MR	27	THR	2.1
1	NU	40	THR	2.1
1	AY	56	ARG	2.1
1	JL	42	ARG	2.1
1	JU	10	ARG	2.1
1	AJ	73	ILE	2.1
1	DQ	50	LYS	2.1
1	EM	43	LYS	2.1
1	FN	2	LYS	2.1
1	GS	128	ILE	2.1
1	HL	50	LYS	2.1
1	HR	120	LYS	2.1
1	JL	73	ILE	2.1
1	KL	8	LYS	2.1
1	MO	59	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	CT	112	ALA	2.1
1	EJ	112	ALA	2.1
1	FQ	1	SER	2.1
1	GI	70	ALA	2.1
1	GM	5	ALA	2.1
1	IE	91	ALA	2.1
1	KP	112	ALA	2.1
1	MM	36	SER	2.1
1	MX	1	SER	2.1
1	NP	5	ALA	2.1
1	BM	122	PHE	2.1
1	BV	81	PHE	2.1
1	DJ	7	PHE	2.1
1	FF	7	PHE	2.1
1	MM	122	PHE	2.1
1	AS	117	VAL	2.1
1	CB	74	VAL	2.1
1	CE	107	ASN	2.1
1	AT	12	LEU	2.1
1	CF	18	LEU	2.1
1	CV	61	LEU	2.1
1	DA	38	LEU	2.1
1	DF	127	VAL	2.1
1	DU	83	VAL	2.1
1	DW	127	VAL	2.1
1	GC	74	VAL	2.1
1	GY	74	VAL	2.1
1	HG	117	VAL	2.1
1	HX	30	ASN	2.1
1	JC	127	VAL	2.1
1	JZ	32	LEU	2.1
1	KB	9	LEU	2.1
1	KF	126	LEU	2.1
1	KL	26	VAL	2.1
1	LL	38	LEU	2.1
1	LW	126	LEU	2.1
1	MO	83	VAL	2.1
1	NA	126	LEU	2.1
1	NL	74	VAL	2.1
1	BZ	52	MET	2.1
1	CR	84	GLY	2.0
1	DV	116	TYR	2.0

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Mol	Chain	Res	Type	RSRZ
1	EH	44	GLY	2.0
1	GM	116	TYR	2.0
1	GZ	24	HIS	2.0
1	KN	115	GLY	2.0
1	LB	116	TYR	2.0
1	MD	116	TYR	2.0
1	IW	72	PRO	2.0
1	AR	56	ARG	2.0
1	BB	48	THR	2.0
1	CV	69	ARG	2.0
1	DG	77	THR	2.0
1	DH	119	ASP	2.0
1	EQ	119	ASP	2.0
1	GP	119	ASP	2.0
1	AQ	50	LYS	2.0
1	AU	128	ILE	2.0
1	AZ	128	ILE	2.0
1	BE	120	LYS	2.0
1	BL	102	ILE	2.0
1	BY	76	LYS	2.0
1	CP	73	ILE	2.0
1	DZ	78	GLU	2.0
1	EP	124	GLU	2.0
1	ER	128	ILE	2.0
1	FN	124	GLU	2.0
1	GC	78	GLU	2.0
1	IA	48	THR	2.0
1	IJ	42	ARG	2.0
1	KG	48	THR	2.0
1	KT	120	LYS	2.0
1	LF	120	LYS	2.0
1	LG	68	GLU	2.0
1	MU	56	ARG	2.0
1	NO	27	THR	2.0
1	HN	76	LYS	2.0
1	II	73	ILE	2.0
1	JV	128	ILE	2.0
1	KO	50	LYS	2.0
1	LM	50	LYS	2.0
1	MF	128	ILE	2.0
1	MG	76	LYS	2.0
1	NS	128	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	AS	66	ALA	2.0
1	BA	70	ALA	2.0
1	BL	80	SER	2.0
1	EF	36	SER	2.0
1	GP	66	ALA	2.0
1	FA	19	PHE	2.0
1	JG	7	PHE	2.0
1	KI	80	SER	2.0
1	ML	80	SER	2.0
1	BB	9	LEU	2.0
1	BE	71	VAL	2.0
1	BL	74	VAL	2.0
1	CS	118	GLN	2.0
1	EZ	38	LEU	2.0
1	IR	9	LEU	2.0
1	LB	126	LEU	2.0
1	DK	127	VAL	2.0
1	DM	74	VAL	2.0
1	EX	74	VAL	2.0
1	IQ	74	VAL	2.0
1	JE	74	VAL	2.0
1	KR	117	VAL	2.0
1	KT	26	VAL	2.0
1	NH	74	VAL	2.0
1	NM	117	VAL	2.0
1	CZ	107	ASN	2.0
1	DG	52	MET	2.0
1	DT	52	MET	2.0
1	IM	52	MET	2.0
1	CE	47	GLY	2.0
1	EX	62	GLY	2.0
1	AU	72	PRO	2.0
1	BN	120	LYS	2.0
1	CA	69	ARG	2.0
1	CF	41	PRO	2.0
1	CN	41	PRO	2.0
1	DF	41	PRO	2.0
1	EE	72	PRO	2.0
1	EW	121	TYR	2.0
1	EZ	121	TYR	2.0
1	EL	10	ARG	2.0
1	EO	8	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
1	FZ	37	HIS	2.0
1	GD	72	PRO	2.0
1	FB	4	ILE	2.0
1	GO	10	ARG	2.0
1	GT	39	PRO	2.0
1	HR	43	LYS	2.0
1	IC	72	PRO	2.0
1	IQ	116	TYR	2.0
1	JH	50	LYS	2.0
1	JV	72	PRO	2.0
1	KC	37	HIS	2.0
1	KU	37	HIS	2.0
1	KW	82	PRO	2.0
1	MR	121	TYR	2.0
1	NR	46	PRO	2.0
1	NR	116	TYR	2.0
1	AA	40	THR	2.0
1	BA	65	THR	2.0
1	CK	4	ILE	2.0
1	CQ	48	THR	2.0
1	CW	20	THR	2.0
1	CY	128	ILE	2.0
1	FU	34	ILE	2.0
1	LB	6	ILE	2.0
1	LH	56	ARG	2.0
1	GH	48	THR	2.0
1	GI	65	THR	2.0
1	GN	40	THR	2.0
1	JC	58	THR	2.0
1	AV	104	GLU	2.0
1	BC	124	GLU	2.0
1	CR	88	GLU	2.0
1	EB	124	GLU	2.0
1	GS	125	ASP	2.0
1	IK	78	GLU	2.0
1	JK	11	GLU	2.0
1	JK	68	GLU	2.0
1	KN	78	GLU	2.0
1	KW	119	ASP	2.0
1	LF	104	GLU	2.0
1	LK	78	GLU	2.0
1	MM	104	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
1	MS	124	GLU	2.0
1	AY	19	PHE	2.0
1	EU	122	PHE	2.0
1	EB	9	LEU	2.0
1	EC	70	ALA	2.0
1	EJ	61	LEU	2.0
1	EX	67	SER	2.0
1	GL	114	SER	2.0
1	GN	36	SER	2.0
1	GT	60	LEU	2.0
1	HC	66	ALA	2.0
1	II	1	SER	2.0
1	JF	1	SER	2.0
1	JI	80	SER	2.0
1	JJ	9	LEU	2.0
1	JU	36	SER	2.0
1	KJ	7	PHE	2.0
1	KI	60	LEU	2.0
1	LQ	1	SER	2.0
1	LX	111	LEU	2.0
1	MY	5	ALA	2.0
1	AN	83	VAL	2.0
1	DF	74	VAL	2.0
1	DY	117	VAL	2.0
1	GM	49	VAL	2.0
1	GO	117	VAL	2.0
1	HX	127	VAL	2.0
1	JJ	26	VAL	2.0
1	JN	74	VAL	2.0
1	LX	117	VAL	2.0
1	MG	74	VAL	2.0
1	MK	127	VAL	2.0
1	NG	49	VAL	2.0
1	GM	52	MET	2.0
1	EN	54	ASN	2.0
1	AM	120	LYS	2.0
1	AA	72	PRO	2.0
1	AE	46	PRO	2.0
1	AK	4	ILE	2.0
1	BF	116	TYR	2.0
1	BI	116	TYR	2.0
1	BX	69	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
1	EG	120	LYS	2.0
1	EX	120	LYS	2.0
1	FA	76	LYS	2.0
1	HJ	44	GLY	2.0
1	HX	84	GLY	2.0
1	II	50	LYS	2.0
1	IS	120	LYS	2.0
1	JB	50	LYS	2.0
1	JB	76	LYS	2.0
1	KF	120	LYS	2.0
1	LT	47	GLY	2.0
1	MC	84	GLY	2.0
1	CV	113	TYR	2.0
1	DP	41	PRO	2.0
1	DS	73	ILE	2.0
1	DU	116	TYR	2.0
1	EB	41	PRO	2.0
1	EI	3	PRO	2.0
1	HV	73	ILE	2.0
1	HV	121	TYR	2.0
1	KB	4	ILE	2.0
1	KI	34	ILE	2.0
1	LQ	128	ILE	2.0
1	LR	73	ILE	2.0
1	MM	41	PRO	2.0
1	MS	116	TYR	2.0
1	AA	27	THR	2.0
1	BF	37	HIS	2.0
1	DJ	40	THR	2.0
1	GR	40	THR	2.0
1	GS	27	THR	2.0
1	JB	129	THR	2.0
1	KQ	86	THR	2.0
1	LE	20	THR	2.0
1	NH	65	THR	2.0
1	BF	130	GLU	2.0
1	AH	89	ASP	2.0
1	BX	119	ASP	2.0
1	BY	126	LEU	2.0
1	CM	38	LEU	2.0
1	DT	126	LEU	2.0
1	DU	130	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
1	EP	126	LEU	2.0
1	EU	78	GLU	2.0
1	FF	124	GLU	2.0
1	FK	38	LEU	2.0
1	FT	60	LEU	2.0
1	FT	126	LEU	2.0
1	GW	19	PHE	2.0
1	IT	126	LEU	2.0
1	JD	111	LEU	2.0
1	JL	124	GLU	2.0
1	LA	119	ASP	2.0
1	ME	38	LEU	2.0
1	NG	81	PHE	2.0
1	NH	124	GLU	2.0
1	AT	114	SER	2.0
1	CV	36	SER	2.0
1	HN	112	ALA	2.0
1	HS	112	ALA	2.0
1	II	112	ALA	2.0
1	IY	80	SER	2.0
1	JE	5	ALA	2.0
1	JL	112	ALA	2.0
1	KR	36	SER	2.0
1	MV	119	ASP	2.0
1	NG	14	SER	2.0
1	AM	83	VAL	2.0
1	CH	83	VAL	2.0
1	EK	26	VAL	2.0
1	EU	127	VAL	2.0
1	FC	127	VAL	2.0
1	KL	35	VAL	2.0
1	KQ	105	VAL	2.0
1	LI	117	VAL	2.0
1	LV	35	VAL	2.0
1	ML	71	VAL	2.0
1	MQ	117	VAL	2.0

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

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

5.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.4 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	CA	FV	201	1/1	0.90	0.10	148,148,148,148	0
2	CA	NO	201	1/1	0.90	0.12	148,148,148,148	0
2	CA	IA	201	1/1	0.91	0.09	148,148,148,148	0
2	CA	FM	201	1/1	0.91	0.09	148,148,148,148	0
2	CA	BF	201	1/1	0.92	0.09	148,148,148,148	0
2	CA	HR	201	1/1	0.92	0.15	148,148,148,148	0
2	CA	NU	201	1/1	0.92	0.10	148,148,148,148	0
2	CA	EO	201	1/1	0.93	0.14	148,148,148,148	0
2	CA	FA	201	1/1	0.93	0.12	148,148,148,148	0
2	CA	DH	201	1/1	0.93	0.15	148,148,148,148	0
2	CA	EC	201	1/1	0.93	0.06	148,148,148,148	0
2	CA	EB	201	1/1	0.94	0.07	148,148,148,148	0
2	CA	HI	201	1/1	0.94	0.06	148,148,148,148	0
2	CA	CG	201	1/1	0.94	0.09	148,148,148,148	0
2	CA	CY	201	1/1	0.94	0.06	148,148,148,148	0
2	CA	LA	201	1/1	0.94	0.07	148,148,148,148	0
2	CA	LJ	201	1/1	0.94	0.07	148,148,148,148	0
2	CA	LV	201	1/1	0.94	0.08	148,148,148,148	0
2	CA	NF	201	1/1	0.94	0.13	148,148,148,148	0
2	CA	AZ	201	1/1	0.94	0.12	148,148,148,148	0
2	CA	DT	201	1/1	0.94	0.08	148,148,148,148	0
2	CA	BL	201	1/1	0.95	0.06	148,148,148,148	0
2	CA	FJ	201	1/1	0.95	0.06	148,148,148,148	0
2	CA	ID	201	1/1	0.95	0.10	148,148,148,148	0
2	CA	IV	201	1/1	0.95	0.05	148,148,148,148	0
2	CA	CD	201	1/1	0.95	0.07	148,148,148,148	0
2	CA	EI	201	1/1	0.95	0.07	148,148,148,148	0
2	CA	LP	201	1/1	0.95	0.07	148,148,148,148	0
2	CA	FY	201	1/1	0.95	0.06	148,148,148,148	0
2	CA	GQ	201	1/1	0.95	0.06	148,148,148,148	0
2	CA	GW	201	1/1	0.95	0.07	148,148,148,148	0
2	CA	AW	201	1/1	0.95	0.14	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	GB	201	1/1	0.96	0.10	148,148,148,148	0
2	CA	IJ	201	1/1	0.96	0.08	148,148,148,148	0
2	CA	AJ	201	1/1	0.96	0.08	148,148,148,148	0
2	CA	JB	201	1/1	0.96	0.09	148,148,148,148	0
2	CA	JN	201	1/1	0.96	0.07	148,148,148,148	0
2	CA	JQ	201	1/1	0.96	0.07	148,148,148,148	0
2	CA	KR	201	1/1	0.96	0.06	148,148,148,148	0
2	CA	KZ	201	1/1	0.96	0.08	148,148,148,148	0
2	CA	CM	201	1/1	0.96	0.12	148,148,148,148	0
2	CA	GZ	201	1/1	0.96	0.17	148,148,148,148	0
2	CA	HC	201	1/1	0.96	0.17	148,148,148,148	0
2	CA	EL	201	1/1	0.96	0.09	148,148,148,148	0
2	CA	ME	201	1/1	0.96	0.11	148,148,148,148	0
2	CA	MQ	201	1/1	0.96	0.05	148,148,148,148	0
2	CA	HL	201	1/1	0.96	0.07	148,148,148,148	0
2	CA	AH	201	1/1	0.96	0.11	148,148,148,148	0
2	CA	EX	201	1/1	0.96	0.09	148,148,148,148	0
2	CA	EF	201	1/1	0.97	0.10	148,148,148,148	0
2	CA	CS	201	1/1	0.97	0.09	148,148,148,148	0
2	CA	GH	201	1/1	0.97	0.06	148,148,148,148	0
2	CA	JH	201	1/1	0.97	0.05	148,148,148,148	0
2	CA	GK	201	1/1	0.97	0.11	148,148,148,148	0
2	CA	CA	201	1/1	0.97	0.06	148,148,148,148	0
2	CA	JW	201	1/1	0.97	0.04	148,148,148,148	0
2	CA	JZ	201	1/1	0.97	0.13	148,148,148,148	0
2	CA	KF	201	1/1	0.97	0.07	148,148,148,148	0
2	CA	KO	201	1/1	0.97	0.04	148,148,148,148	0
2	CA	GT	201	1/1	0.97	0.12	148,148,148,148	0
2	CA	KU	201	1/1	0.97	0.09	148,148,148,148	0
2	CA	BI	201	1/1	0.97	0.12	148,148,148,148	0
2	CA	ER	201	1/1	0.97	0.14	148,148,148,148	0
2	CA	DQ	201	1/1	0.97	0.09	148,148,148,148	0
2	CA	BB	201	1/1	0.97	0.20	148,148,148,148	0
2	CA	LS	201	1/1	0.97	0.07	148,148,148,148	0
2	CA	DW	201	1/1	0.97	0.09	148,148,148,148	0
2	CA	LY	201	1/1	0.97	0.14	148,148,148,148	0
2	CA	BX	201	1/1	0.97	0.12	148,148,148,148	0
2	CA	MH	201	1/1	0.97	0.09	148,148,148,148	0
2	CA	MK	201	1/1	0.97	0.11	148,148,148,148	0
2	CA	HX	201	1/1	0.97	0.06	148,148,148,148	0
2	CA	FS	201	1/1	0.97	0.06	148,148,148,148	0
2	CA	NL	201	1/1	0.97	0.06	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	CP	201	1/1	0.97	0.08	148,148,148,148	0
2	CA	NR	201	1/1	0.97	0.13	148,148,148,148	0
2	CA	IG	201	1/1	0.97	0.09	148,148,148,148	0
2	CA	KX	201	1/1	0.98	0.05	148,148,148,148	0
2	CA	IM	201	1/1	0.98	0.15	148,148,148,148	0
2	CA	IS	201	1/1	0.98	0.07	148,148,148,148	0
2	CA	LD	201	1/1	0.98	0.09	148,148,148,148	0
2	CA	LG	201	1/1	0.98	0.11	148,148,148,148	0
2	CA	FD	201	1/1	0.98	0.08	148,148,148,148	0
2	CA	LM	201	1/1	0.98	0.08	148,148,148,148	0
2	CA	IY	201	1/1	0.98	0.04	148,148,148,148	0
2	CA	GE	201	1/1	0.98	0.13	148,148,148,148	0
2	CA	JE	201	1/1	0.98	0.06	148,148,148,148	0
2	CA	FG	201	1/1	0.98	0.06	148,148,148,148	0
2	CA	HO	201	1/1	0.98	0.05	148,148,148,148	0
2	CA	DE	201	1/1	0.98	0.11	148,148,148,148	0
2	CA	HU	201	1/1	0.98	0.09	148,148,148,148	0
2	CA	MN	201	1/1	0.98	0.05	148,148,148,148	0
2	CA	BC	201	1/1	0.98	0.06	148,148,148,148	0
2	CA	MW	201	1/1	0.98	0.11	148,148,148,148	0
2	CA	MZ	201	1/1	0.98	0.07	148,148,148,148	0
2	CA	KC	201	1/1	0.98	0.04	148,148,148,148	0
2	CA	NI	201	1/1	0.98	0.04	148,148,148,148	0
2	CA	GS	201	1/1	0.98	0.10	148,148,148,148	0
2	CA	EU	201	1/1	0.98	0.07	148,148,148,148	0
2	CA	DZ	201	1/1	0.98	0.09	148,148,148,148	0
2	CA	AQ	201	1/1	0.98	0.11	148,148,148,148	0
2	CA	AN	201	1/1	0.99	0.10	148,148,148,148	0
2	CA	AB	201	1/1	0.99	0.10	148,148,148,148	0
2	CA	CJ	201	1/1	0.99	0.10	148,148,148,148	0
2	CA	MB	201	1/1	0.99	0.07	148,148,148,148	0
2	CA	KI	201	1/1	0.99	0.03	148,148,148,148	0
2	CA	KL	201	1/1	0.99	0.13	148,148,148,148	0
2	CA	HF	201	1/1	0.99	0.11	148,148,148,148	0
2	CA	BO	201	1/1	0.99	0.10	148,148,148,148	0
2	CA	CO	201	1/1	0.99	0.13	148,148,148,148	0
2	CA	MT	201	1/1	0.99	0.08	148,148,148,148	0
2	CA	BU	201	1/1	0.99	0.07	148,148,148,148	0
2	CA	JD	201	1/1	0.99	0.15	148,148,148,148	0
2	CA	NC	201	1/1	0.99	0.04	148,148,148,148	0
2	CA	AT	201	1/1	0.99	0.05	148,148,148,148	0
2	CA	GN	201	1/1	0.99	0.16	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	CV	201	1/1	0.99	0.04	148,148,148,148	0
2	CA	AK	201	1/1	0.99	0.04	148,148,148,148	0
2	CA	JT	201	1/1	0.99	0.07	148,148,148,148	0
2	CA	DB	201	1/1	0.99	0.05	148,148,148,148	0

5.5 Other polymers [i](#)

There are no such residues in this entry.