



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 01:23 PM UTC

PDB ID : 4CTG / pdb_00004ctg
EMDB ID : EMD-2390
Title : The limits of structural plasticity in a picornavirus capsid revealed by a massively expanded equine rhinitis A virus particle
Authors : Bakker, S.E.; Groppelli, E.; Pearson, A.R.; Stockley, P.G.; Rowlands, D.J.; Ranson, N.A.
Deposited on : 2014-03-13
Resolution : 17.00 Å (reported)
Based on initial model : 2WFF

This is a Full wwPDB EM 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/EMValidationReportHelp>

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:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

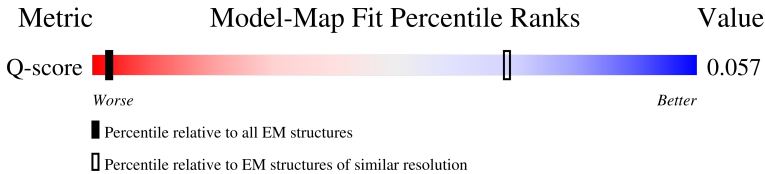
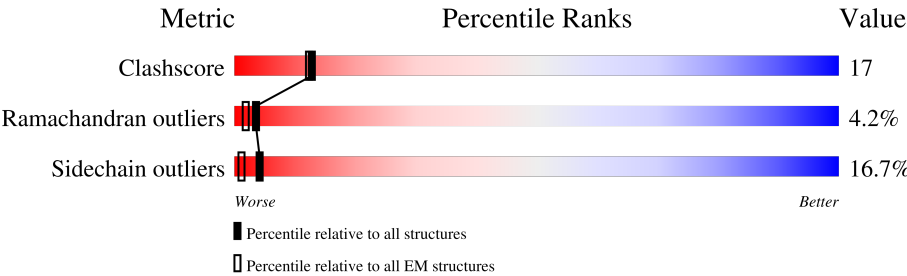
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 17.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	38 (16.50 - 17.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A0	246	10% 52% 33% 11% .
1	A1	246	9% 51% 34% 11% 5%
1	A2	246	9% 50% 34% 11% .
1	A3	246	11% 52% 34% 10% .

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Mol	Chain	Length	Quality of chain
1	A4	246	9% 51% 34% 11% .
1	A5	246	9% 51% 34% 11% .
1	A6	246	9% 51% 33% 11% 5%
1	A7	246	9% 50% 34% 11% .
1	A8	246	11% 51% 34% 11% .
1	A9	246	10% 52% 33% 11% .
1	AA	246	8% 52% 33% 11% .
1	AB	246	8% 51% 33% 11% .
1	AC	246	9% 52% 33% 11% .
1	AD	246	10% 51% 34% 11% .
1	AE	246	8% 51% 33% 11% 5%
1	AF	246	11% 51% 34% 11% .
1	AG	246	9% 52% 33% 10% .
1	AH	246	12% 51% 34% 11% .
1	AI	246	12% 52% 34% 10% .
1	AJ	246	9% 51% 34% 11% .
1	AK	246	8% 51% 34% 11% .
1	AL	246	10% 52% 33% 10% 5%
1	AM	246	10% 51% 34% 10% .
1	AN	246	6% 51% 34% 11% .
1	AO	246	9% 51% 33% 11% .
1	AP	246	7% 51% 34% 10% 5%
1	AQ	246	10% 52% 34% 9% 5%
1	AR	246	10% 51% 33% 11% .
1	AS	246	8% 51% 34% 11% .

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Mol	Chain	Length	Quality of chain
1	AT	246	
1	AU	246	
1	AV	246	
1	AW	246	
1	AX	246	
1	AY	246	
1	AZ	246	
1	Aa	246	
1	Ab	246	
1	Ac	246	
1	Ad	246	
1	Ae	246	
1	Af	246	
1	Ag	246	
1	Ah	246	
1	Ai	246	
1	Aj	246	
1	Ak	246	
1	Al	246	
1	Am	246	
1	An	246	
1	Ao	246	
1	DC	246	
1	DD	246	
1	DE	246	

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Mol	Chain	Length	Quality of chain
1	DF	246	
1	DG	246	
1	DH	246	
1	DI	246	
1	DJ	246	
1	DK	246	
2	B0	200	
2	B1	200	
2	B2	200	
2	B3	200	
2	B4	200	
2	B5	200	
2	B6	200	
2	B7	200	
2	B8	200	
2	B9	200	
2	BA	200	
2	BB	200	
2	BC	200	
2	BD	200	
2	BE	200	
2	BF	200	
2	BG	200	
2	BH	200	
2	BI	200	

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Mol	Chain	Length	Quality of chain
2	BJ	200	
2	BK	200	
2	BL	200	
2	BM	200	
2	BN	200	
2	BO	200	
2	BP	200	
2	BQ	200	
2	BR	200	
2	BS	200	
2	BT	200	
2	BU	200	
2	BV	200	
2	BW	200	
2	BX	200	
2	BY	200	
2	BZ	200	
2	Ba	200	
2	Bb	200	
2	Bc	200	
2	Bd	200	
2	Be	200	
2	Bf	200	
2	Bg	200	
2	Bh	200	

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Mol	Chain	Length	Quality of chain
2	Bi	200	
2	Bj	200	
2	Bk	200	
2	Bl	200	
2	Bm	200	
2	Bn	200	
2	Bo	200	
2	Bp	200	
2	Bq	200	
2	Br	200	
2	Bs	200	
2	Bt	200	
2	Bu	200	
2	Bv	200	
2	Bw	200	
2	Bx	200	
3	C0	226	
3	C1	226	
3	C2	226	
3	C3	226	
3	C4	226	
3	C5	226	
3	C6	226	
3	C7	226	
3	C8	226	

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Mol	Chain	Length	Quality of chain
3	C9	226	
3	CA	226	
3	CB	226	
3	CC	226	
3	CD	226	
3	CE	226	
3	CF	226	
3	CG	226	
3	CH	226	
3	CI	226	
3	CJ	226	
3	CK	226	
3	CL	226	
3	CM	226	
3	CN	226	
3	CO	226	
3	CP	226	
3	CQ	226	
3	CR	226	
3	CS	226	
3	CT	226	
3	CU	226	
3	CV	226	
3	CW	226	
3	CX	226	

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Mol	Chain	Length	Quality of chain
3	CY	226	
3	CZ	226	
3	Cc	226	
3	Cd	226	
3	Ce	226	
3	Cf	226	
3	Cg	226	
3	Ch	226	
3	Ci	226	
3	Cj	226	
3	Ck	226	
3	Cl	226	
3	Cm	226	
3	Cn	226	
3	Co	226	
3	Cp	226	
3	Cq	226	
3	Cr	226	
3	Cs	226	
3	Ct	226	
3	Cu	226	
3	Cv	226	
3	Cw	226	
3	Cx	226	
3	DA	226	

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Mol	Chain	Length	Quality of chain
3	DB	226	12% 56% 31% 11%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 311940 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AB	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AC	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AD	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AE	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AF	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AG	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AH	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AI	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AJ	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AK	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AL	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AM	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AN	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AO	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AP	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AQ	246	Total 1928	C 1240	N 329	O 351	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AR	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AS	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AT	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AU	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AV	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AW	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AX	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AY	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	AZ	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A0	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A1	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A2	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A3	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A4	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A5	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A6	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A7	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A8	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	A9	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Aa	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ab	246	Total 1928	C 1240	N 329	O 351	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ac	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ad	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ae	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Af	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ag	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ah	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ai	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Aj	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ak	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Al	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Am	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	An	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	Ao	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DC	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DD	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DE	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DF	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DG	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DH	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DI	246	Total 1928	C 1240	N 329	O 351	S 8	0	0
1	DJ	246	Total 1928	C 1240	N 329	O 351	S 8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	DK	246	Total	C	N	O	S	0	0
			1928	1240	329	351	8		

- Molecule 2 is a protein called P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	BA	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BB	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BC	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BD	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BE	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BF	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BG	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BH	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BI	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BJ	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BK	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BL	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BM	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BN	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BR	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BO	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BS	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		
2	BP	200	Total	C	N	O	S	0	0
			1553	997	266	283	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	BQ	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BT	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BU	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BV	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BW	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BX	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BY	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	BZ	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B0	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B1	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B2	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B3	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B4	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B5	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B6	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B7	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B8	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	B9	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Ba	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bb	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bc	200	Total 1553	C 997	N 266	O 283	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Bd	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Be	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bf	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bg	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bh	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bi	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bj	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bk	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bl	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bm	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bn	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bo	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bp	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bq	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Br	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bs	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bt	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bu	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bv	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bw	200	Total 1553	C 997	N 266	O 283	S 7	0	0
2	Bx	200	Total 1553	C 997	N 266	O 283	S 7	0	0

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B0	85	SER	GLY	conflict	UNP Q91B42
B1	85	SER	GLY	conflict	UNP Q91B42
B2	85	SER	GLY	conflict	UNP Q91B42
B3	85	SER	GLY	conflict	UNP Q91B42
B4	85	SER	GLY	conflict	UNP Q91B42
B5	85	SER	GLY	conflict	UNP Q91B42
B6	85	SER	GLY	conflict	UNP Q91B42
B7	85	SER	GLY	conflict	UNP Q91B42
B8	85	SER	GLY	conflict	UNP Q91B42
B9	85	SER	GLY	conflict	UNP Q91B42
BA	85	SER	GLY	conflict	UNP Q91B42
BB	85	SER	GLY	conflict	UNP Q91B42
BC	85	SER	GLY	conflict	UNP Q91B42
BD	85	SER	GLY	conflict	UNP Q91B42
BE	85	SER	GLY	conflict	UNP Q91B42
BF	85	SER	GLY	conflict	UNP Q91B42
BG	85	SER	GLY	conflict	UNP Q91B42
BH	85	SER	GLY	conflict	UNP Q91B42
BI	85	SER	GLY	conflict	UNP Q91B42
BJ	85	SER	GLY	conflict	UNP Q91B42
BK	85	SER	GLY	conflict	UNP Q91B42
BL	85	SER	GLY	conflict	UNP Q91B42
BM	85	SER	GLY	conflict	UNP Q91B42
BN	85	SER	GLY	conflict	UNP Q91B42
BO	85	SER	GLY	conflict	UNP Q91B42
BP	85	SER	GLY	conflict	UNP Q91B42
BQ	85	SER	GLY	conflict	UNP Q91B42
BR	85	SER	GLY	conflict	UNP Q91B42
BS	85	SER	GLY	conflict	UNP Q91B42
BT	85	SER	GLY	conflict	UNP Q91B42
BU	85	SER	GLY	conflict	UNP Q91B42
BV	85	SER	GLY	conflict	UNP Q91B42
BW	85	SER	GLY	conflict	UNP Q91B42
BX	85	SER	GLY	conflict	UNP Q91B42
BY	85	SER	GLY	conflict	UNP Q91B42
BZ	85	SER	GLY	conflict	UNP Q91B42
Ba	85	SER	GLY	conflict	UNP Q91B42
Bb	85	SER	GLY	conflict	UNP Q91B42
Bc	85	SER	GLY	conflict	UNP Q91B42
Bd	85	SER	GLY	conflict	UNP Q91B42
Be	85	SER	GLY	conflict	UNP Q91B42
Bf	85	SER	GLY	conflict	UNP Q91B42

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Chain	Residue	Modelled	Actual	Comment	Reference
Bg	85	SER	GLY	conflict	UNP Q91B42
Bh	85	SER	GLY	conflict	UNP Q91B42
Bi	85	SER	GLY	conflict	UNP Q91B42
Bj	85	SER	GLY	conflict	UNP Q91B42
Bk	85	SER	GLY	conflict	UNP Q91B42
Bl	85	SER	GLY	conflict	UNP Q91B42
Bm	85	SER	GLY	conflict	UNP Q91B42
Bn	85	SER	GLY	conflict	UNP Q91B42
Bo	85	SER	GLY	conflict	UNP Q91B42
Bp	85	SER	GLY	conflict	UNP Q91B42
Bq	85	SER	GLY	conflict	UNP Q91B42
Br	85	SER	GLY	conflict	UNP Q91B42
Bs	85	SER	GLY	conflict	UNP Q91B42
Bt	85	SER	GLY	conflict	UNP Q91B42
Bu	85	SER	GLY	conflict	UNP Q91B42
Bv	85	SER	GLY	conflict	UNP Q91B42
Bw	85	SER	GLY	conflict	UNP Q91B42
Bx	85	SER	GLY	conflict	UNP Q91B42

- Molecule 3 is a protein called P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	CA	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CB	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CC	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CD	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CE	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CF	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CG	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CH	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CI	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CJ	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	CK	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CL	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CM	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CN	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CO	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CP	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CQ	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CR	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CS	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CT	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CU	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CV	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CW	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CX	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CY	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	CZ	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C0	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C1	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C2	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C3	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C4	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	C5	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C6	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C7	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C8	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	C9	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cc	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cd	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Ce	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cf	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cg	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Ch	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Ci	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cj	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Ck	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cl	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cm	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cn	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Co	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cp	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cq	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cr	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		

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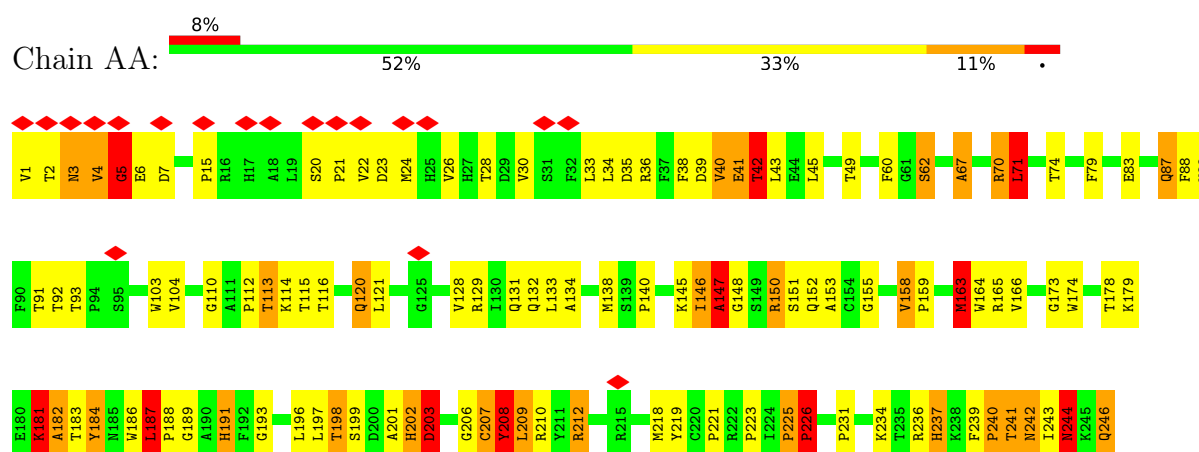
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Mol	Chain	Residues	Atoms					AltConf	Trace
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			1718	1107	280	325	6		
3	Ct	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cu	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cv	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cw	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	Cx	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	DA	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		
3	DB	226	Total	C	N	O	S	0	0
			1718	1107	280	325	6		

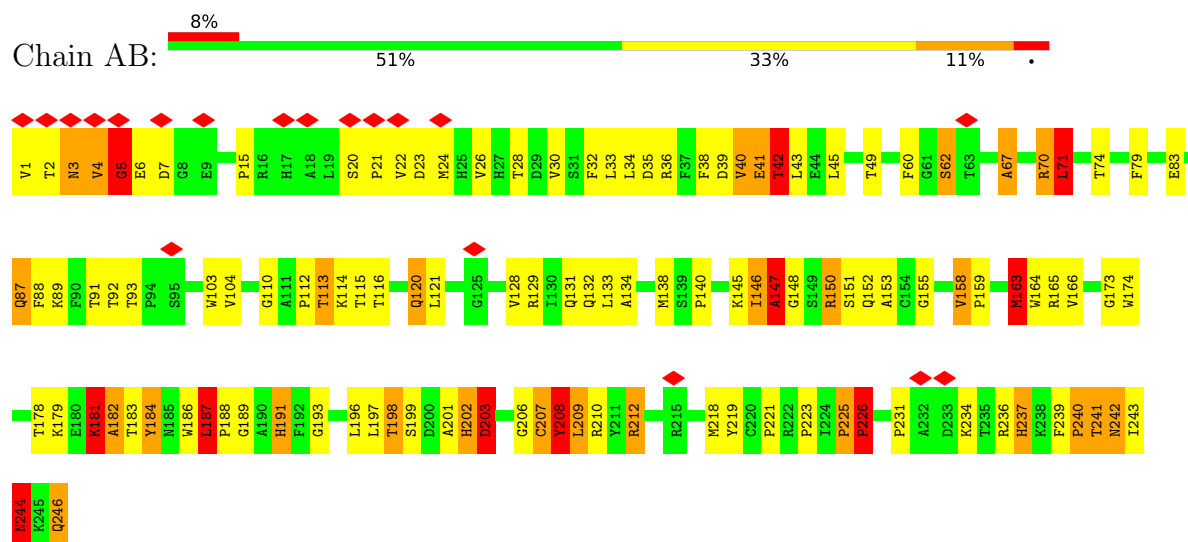
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: P1

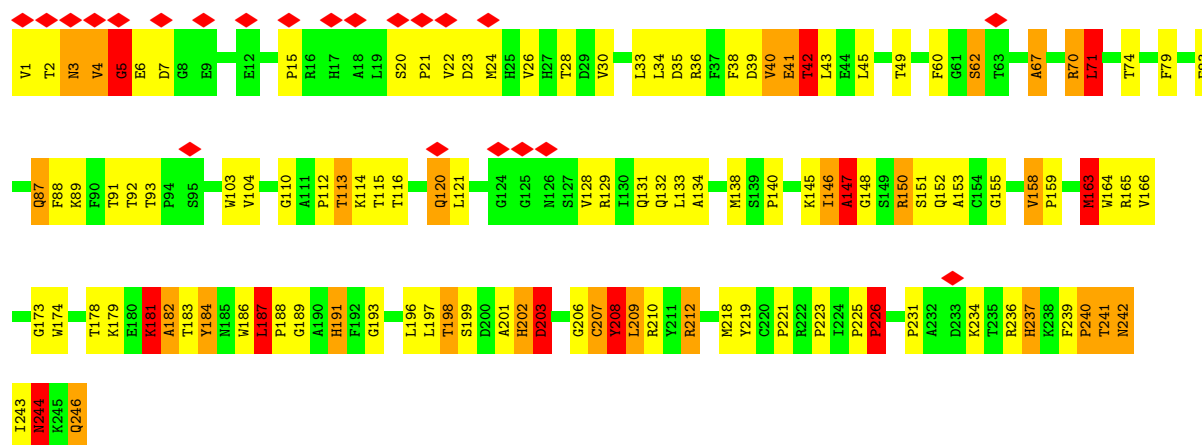


• Molecule 1: P1

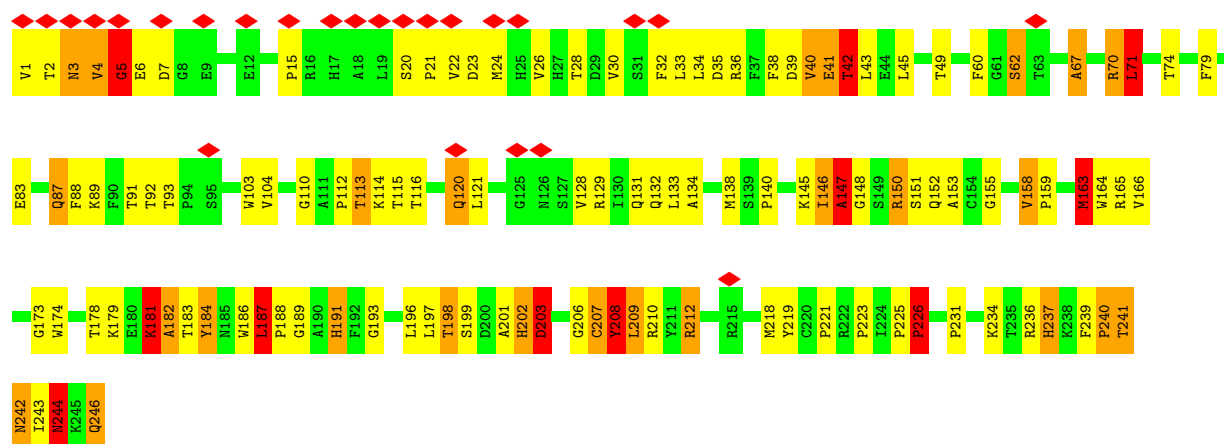


• Molecule 1: P1

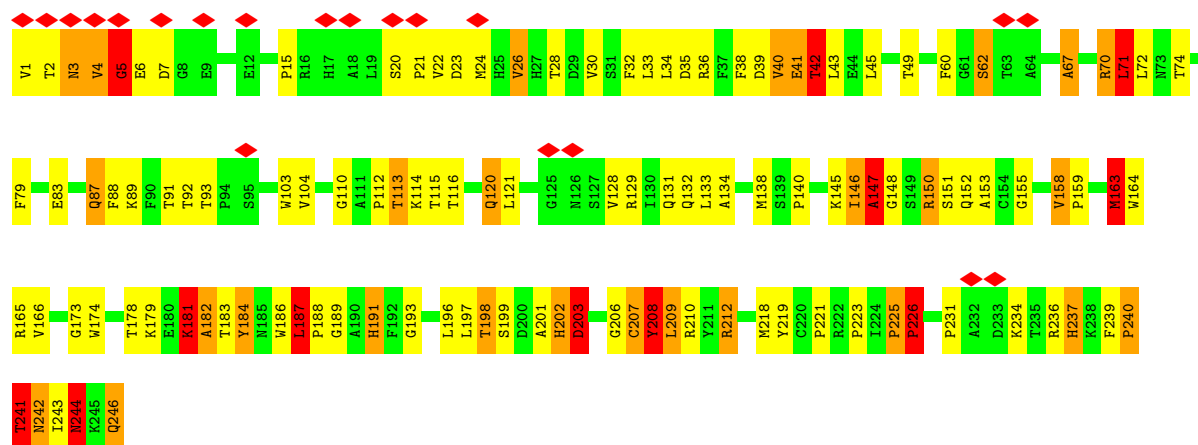




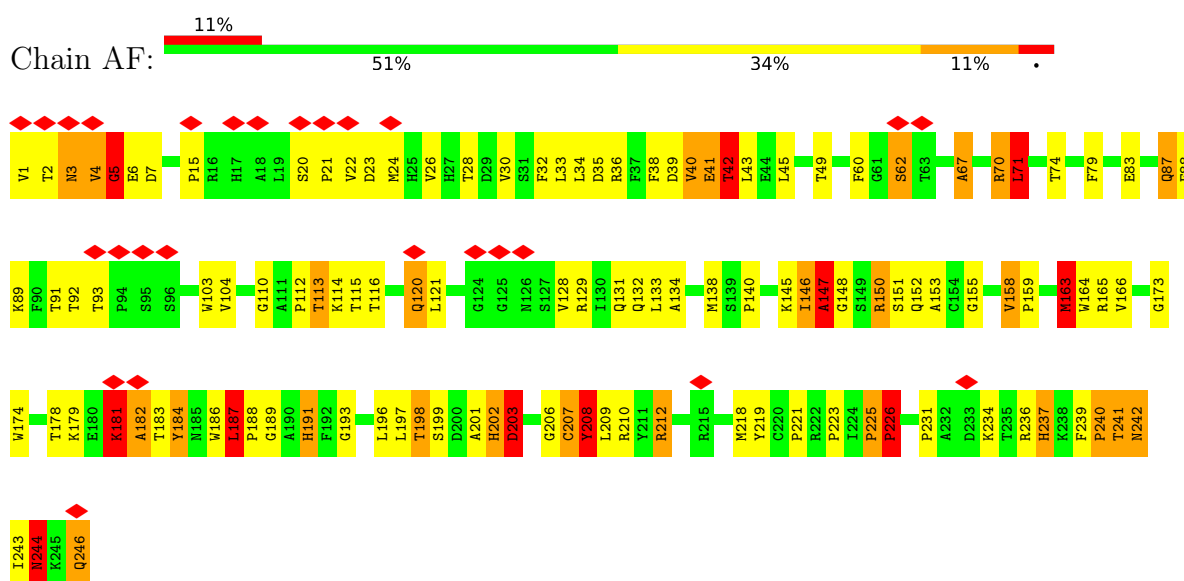
• Molecule 1: P1



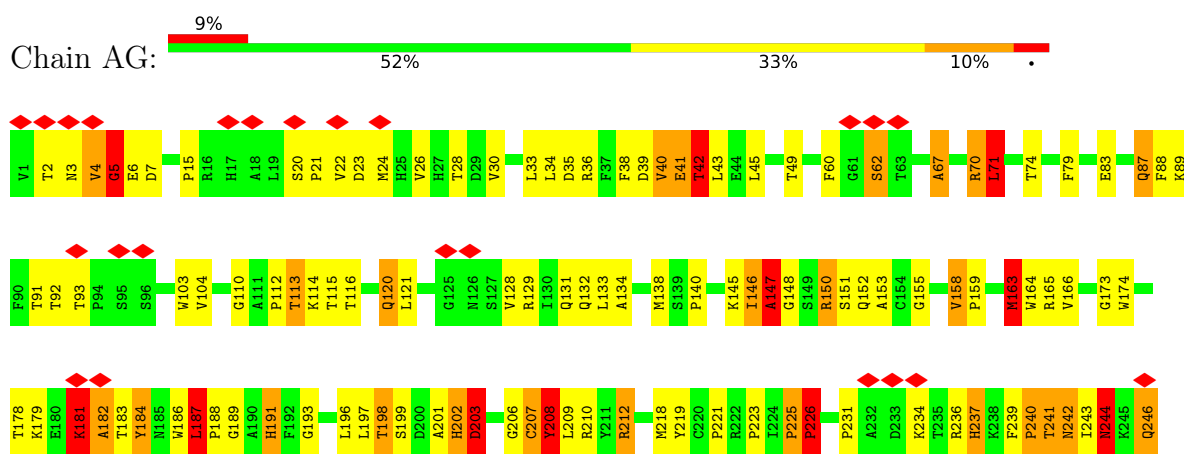
• Molecule 1: P1



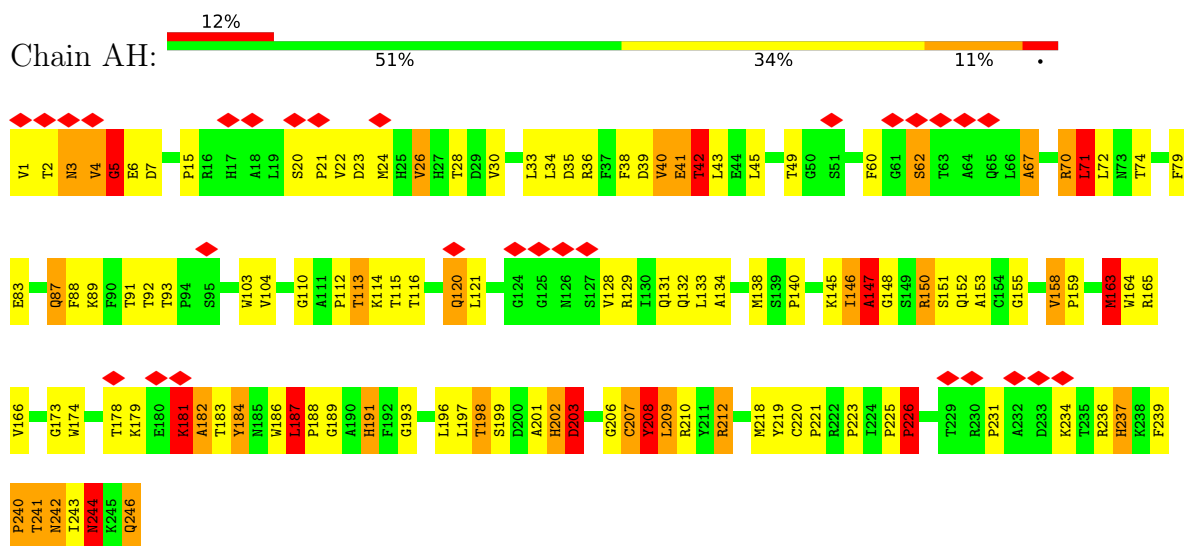
• Molecule 1: P1



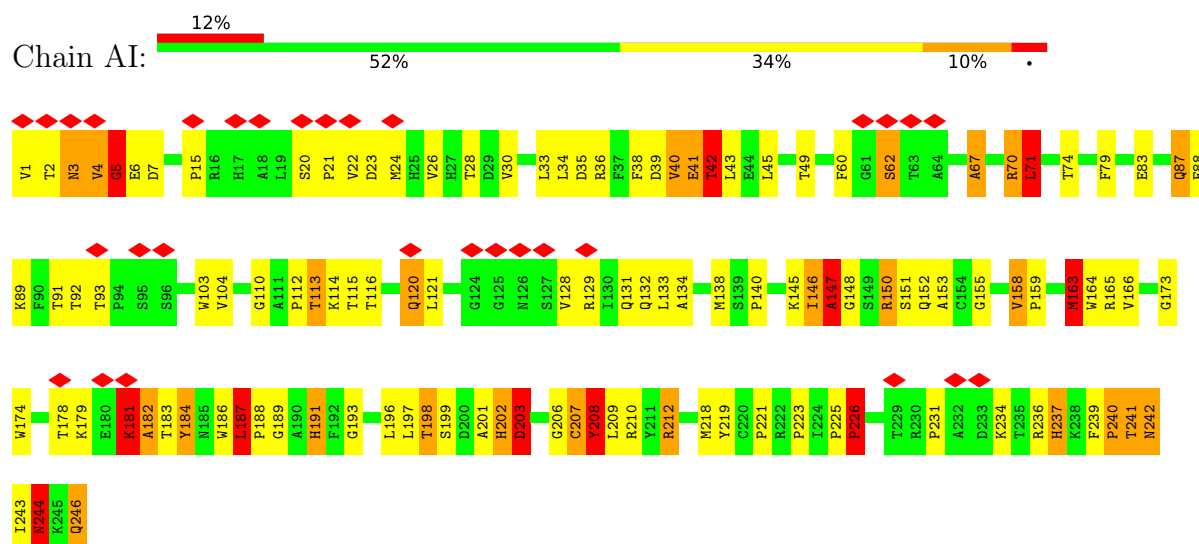
• Molecule 1: P1



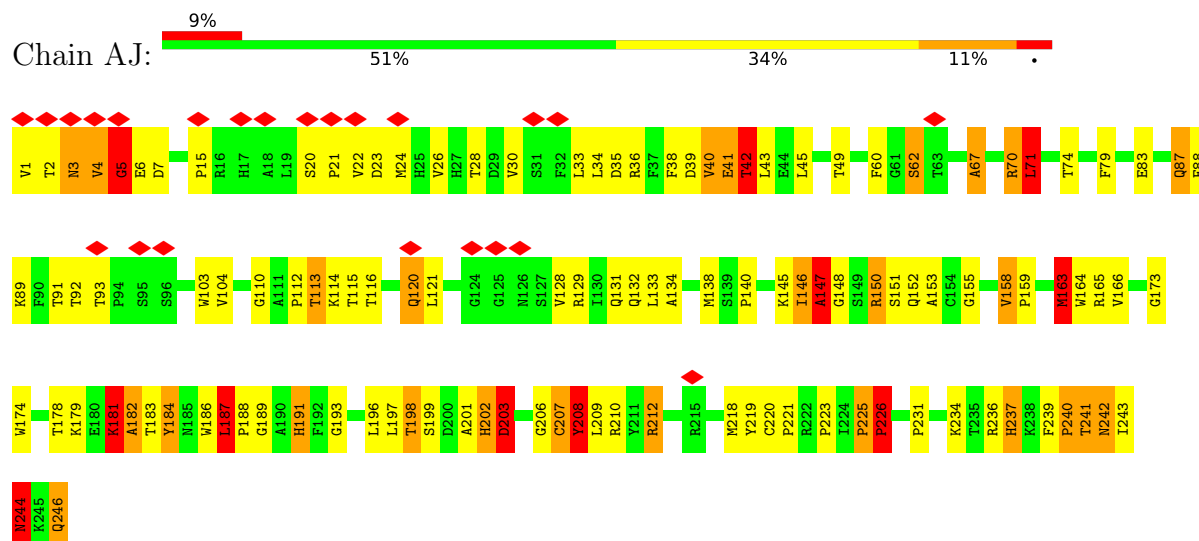
• Molecule 1: P1



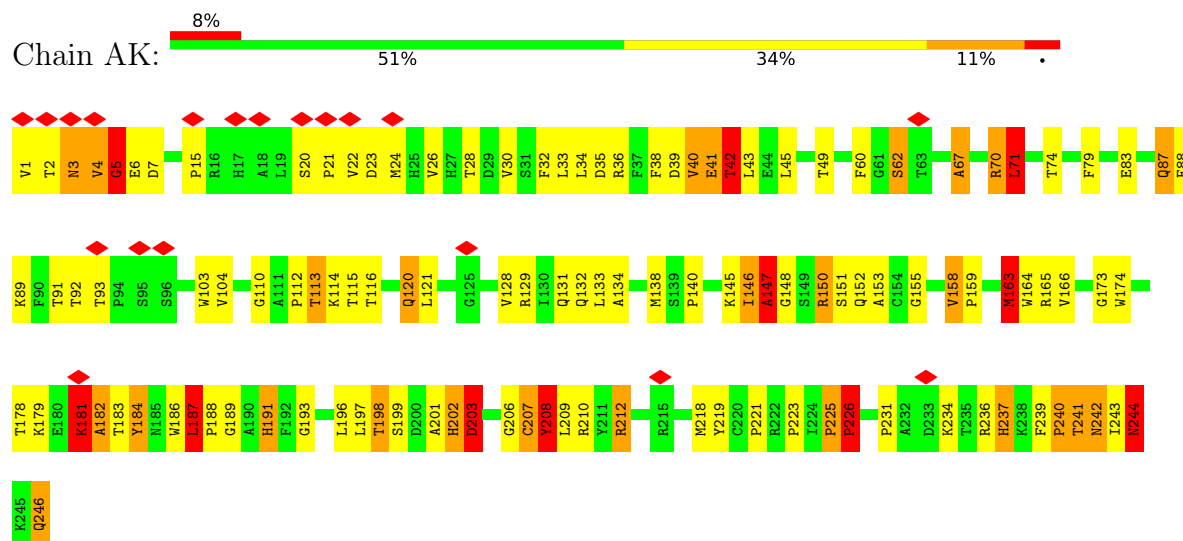
• Molecule 1: P1



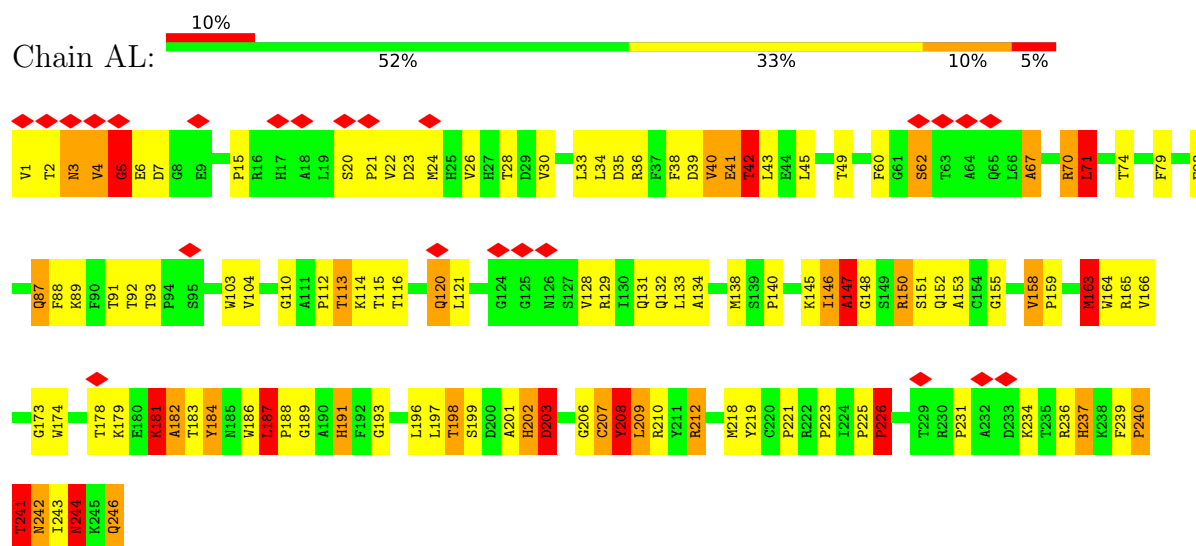
• Molecule 1: P1



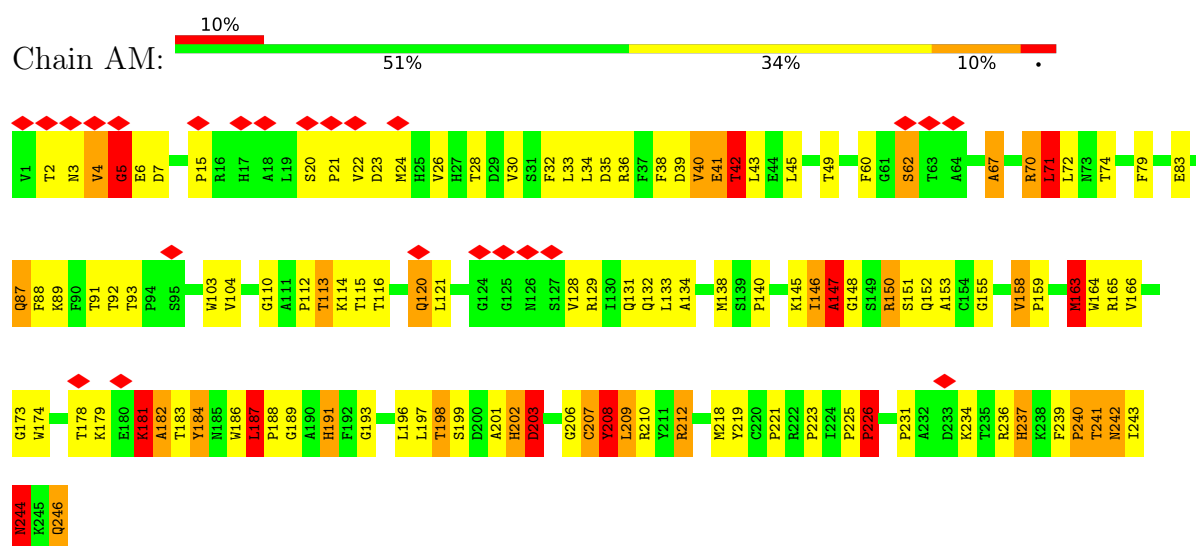
• Molecule 1: P1



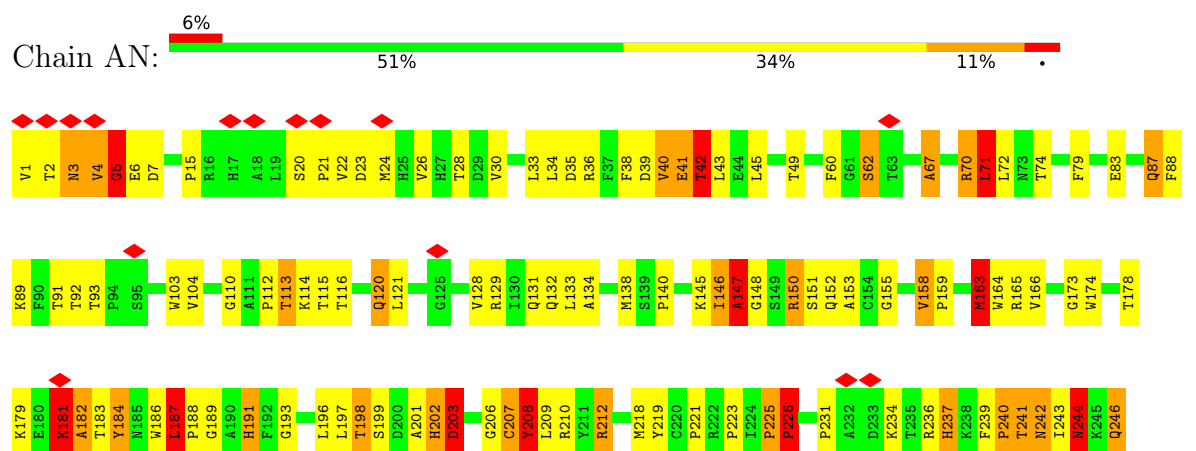
- Molecule 1: P1



- Molecule 1: P1

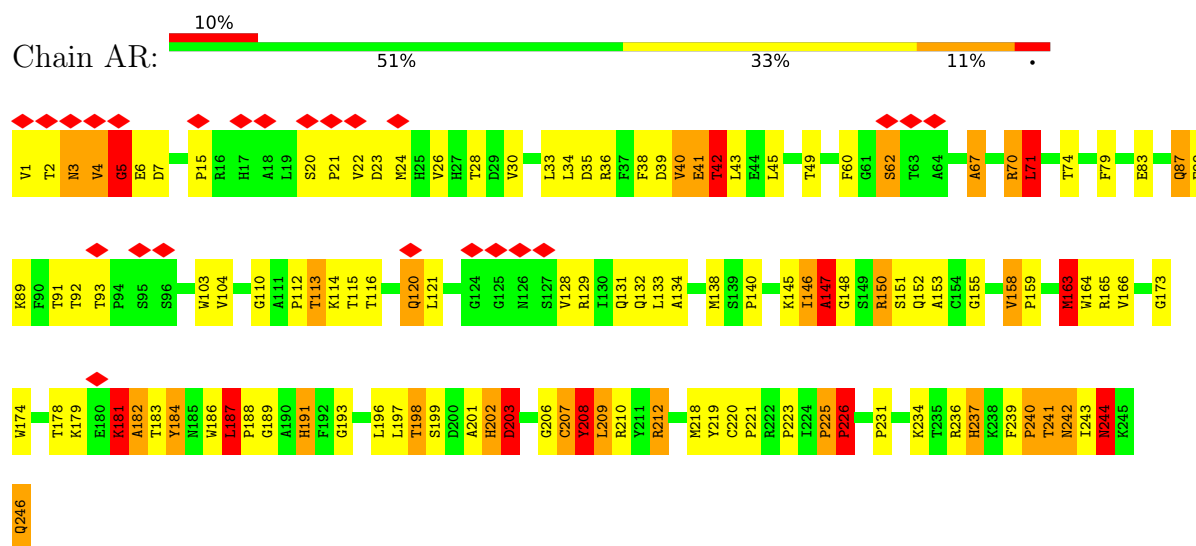


- Molecule 1: P1

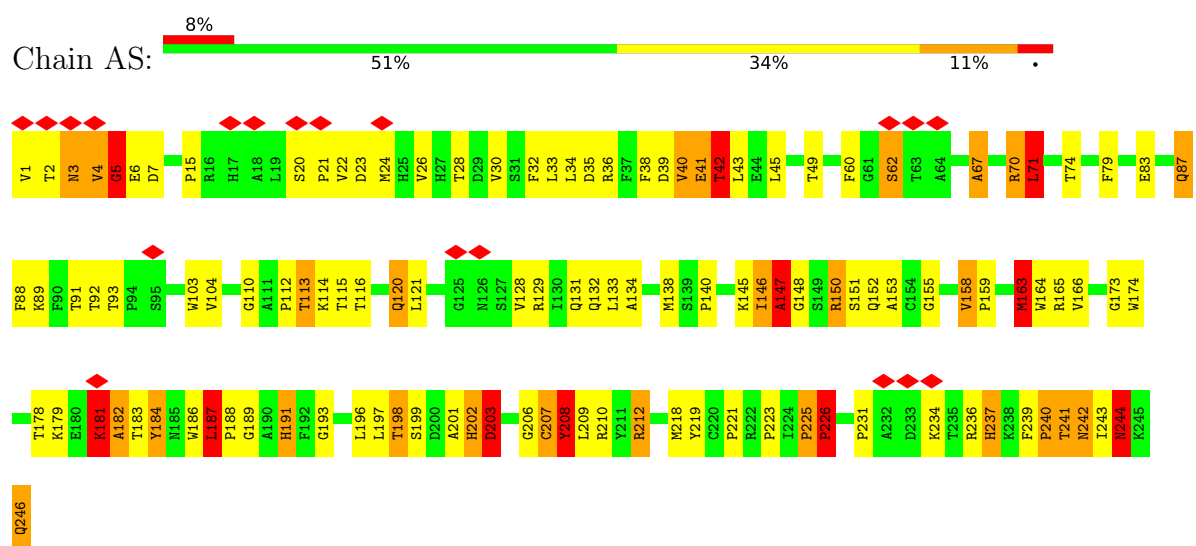


- Molecule 1: P1

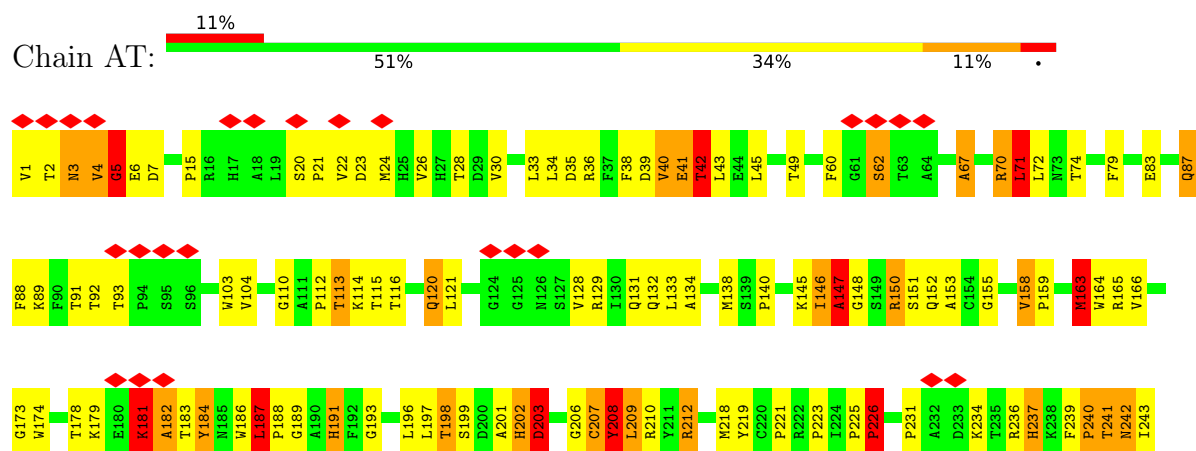
- Molecule 1: P1



- Molecule 1: P1

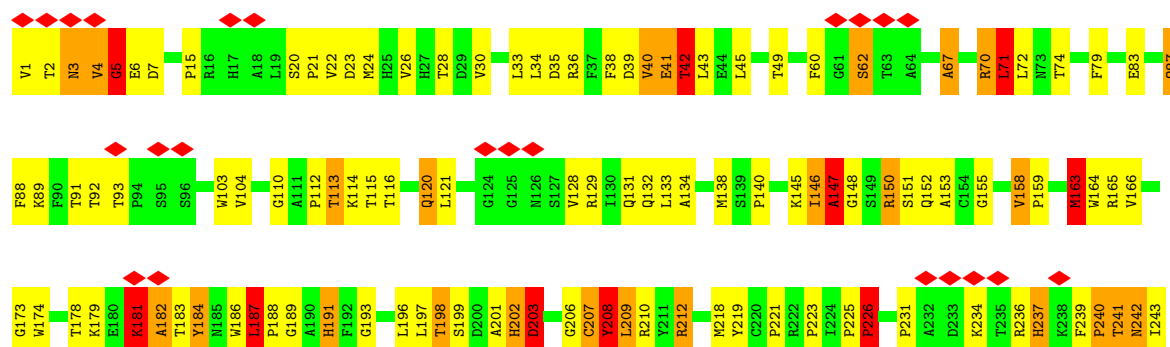


- Molecule 1: P1

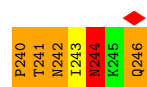
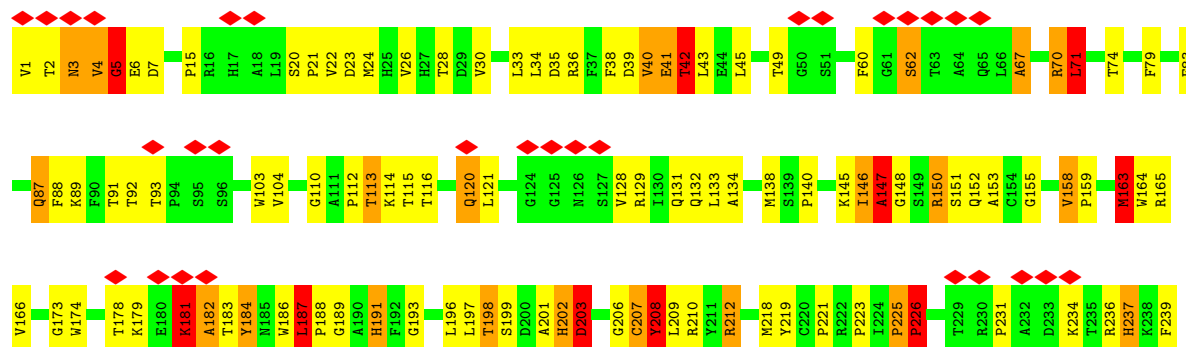




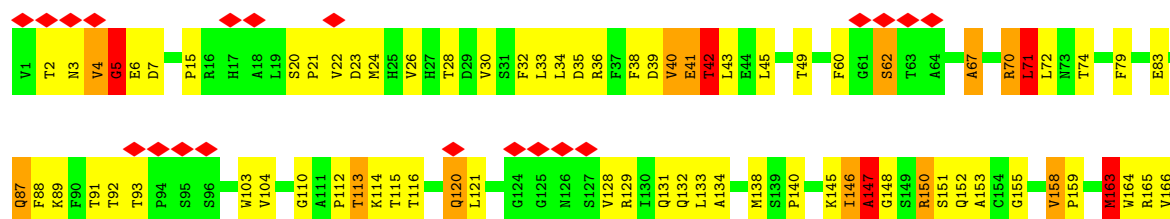
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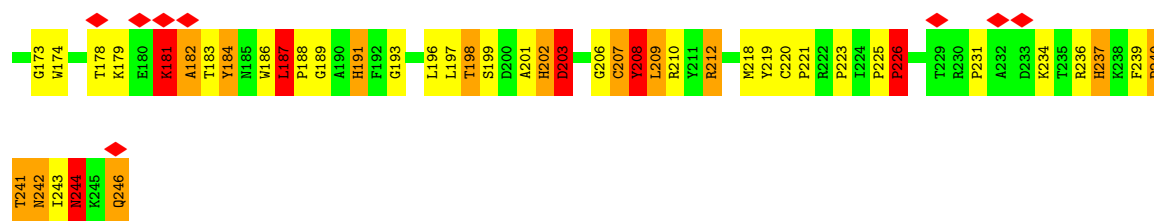


• Molecule 1: P1

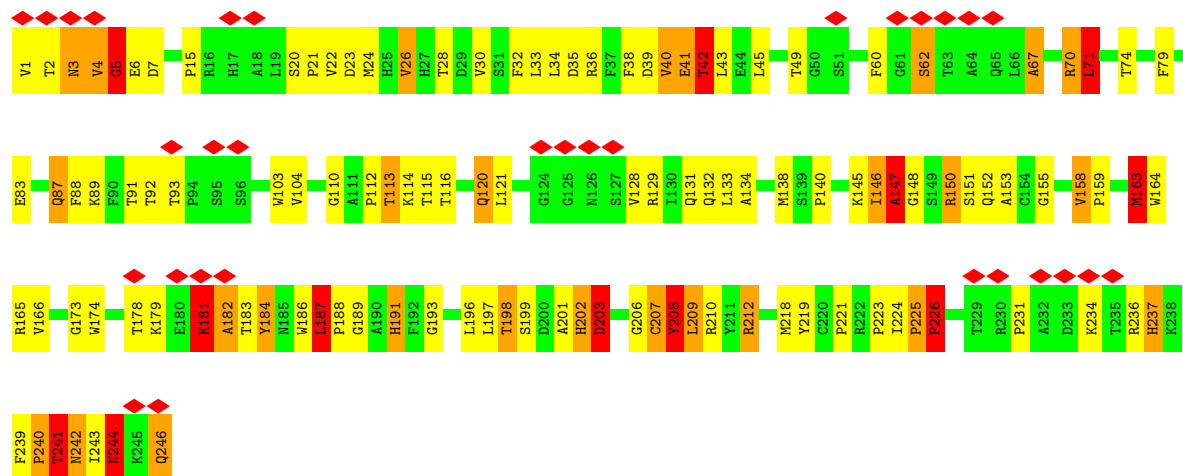


• Molecule 1: P1

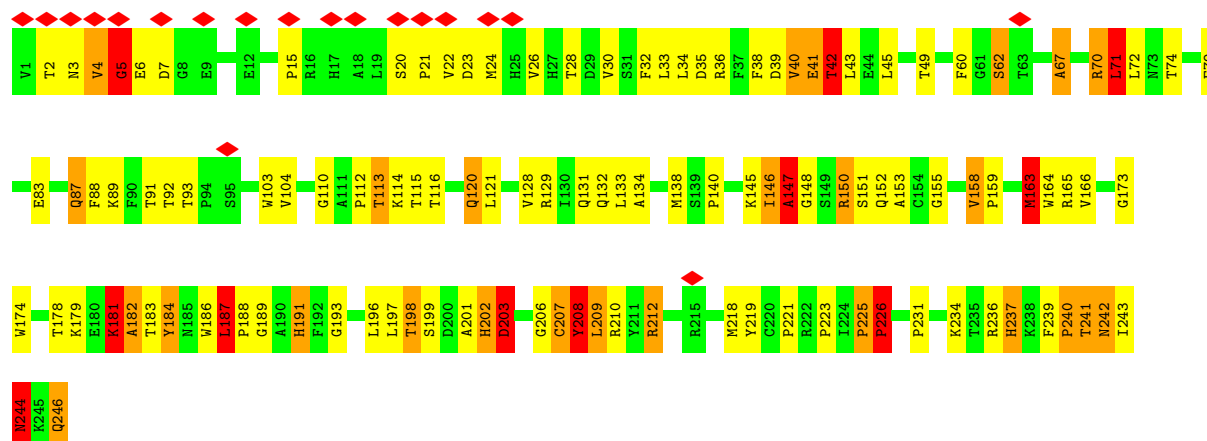




• Molecule 1: P1

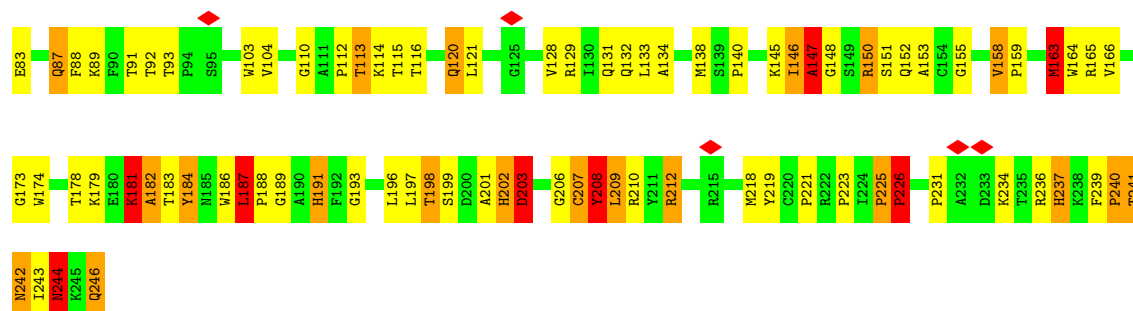


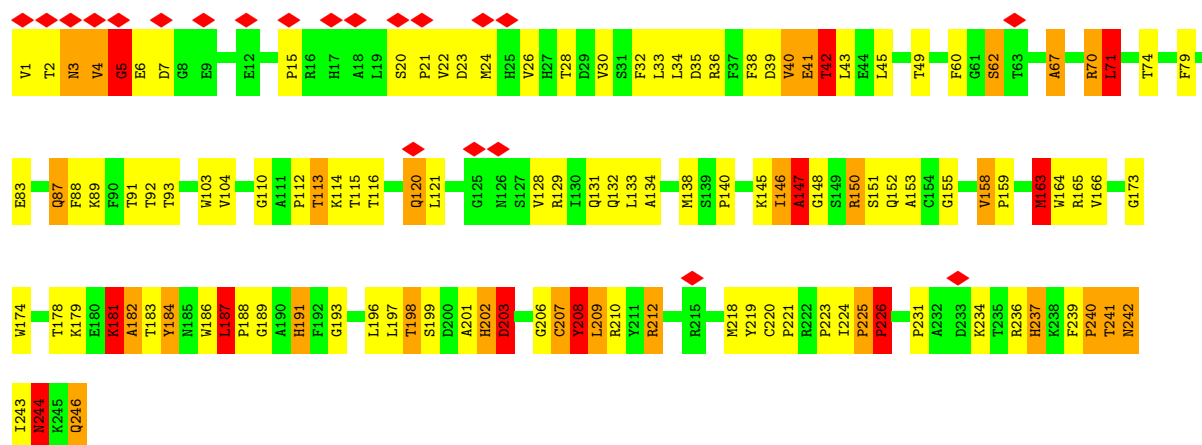
• Molecule 1: P1



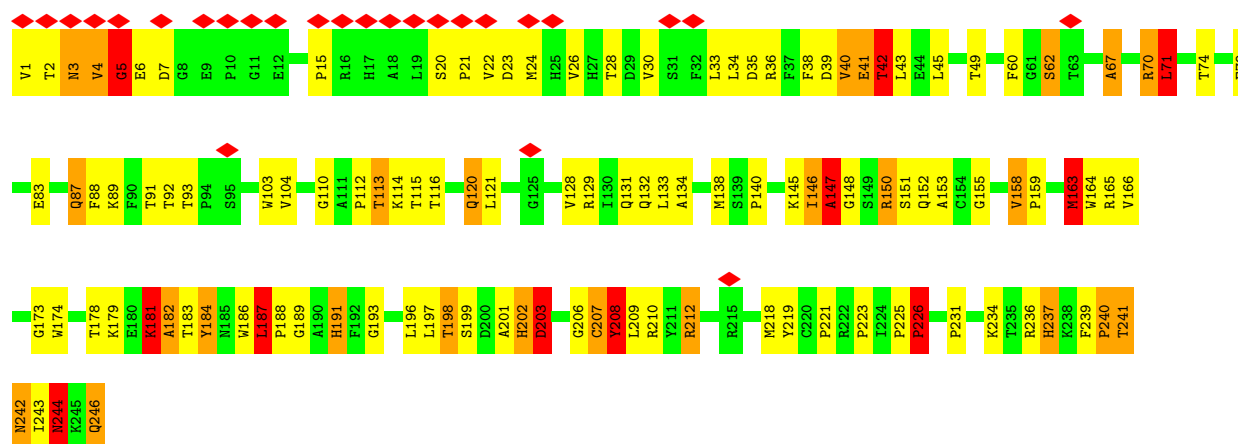
• Molecule 1: P1



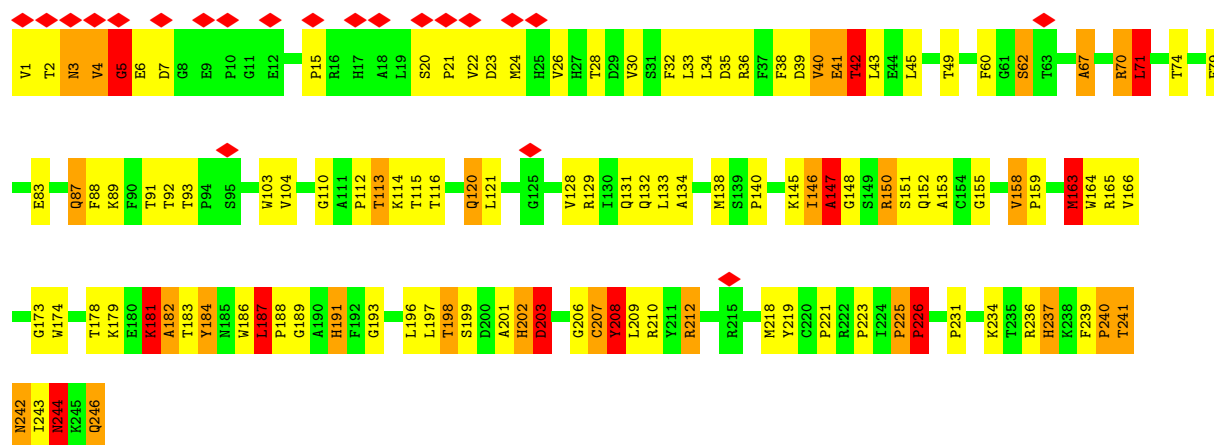




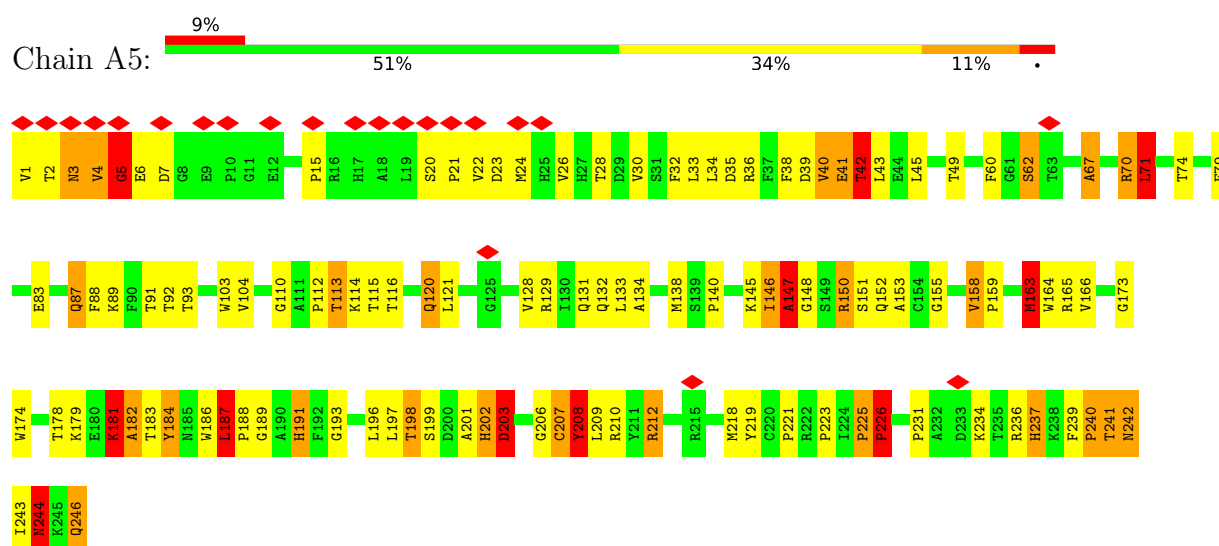
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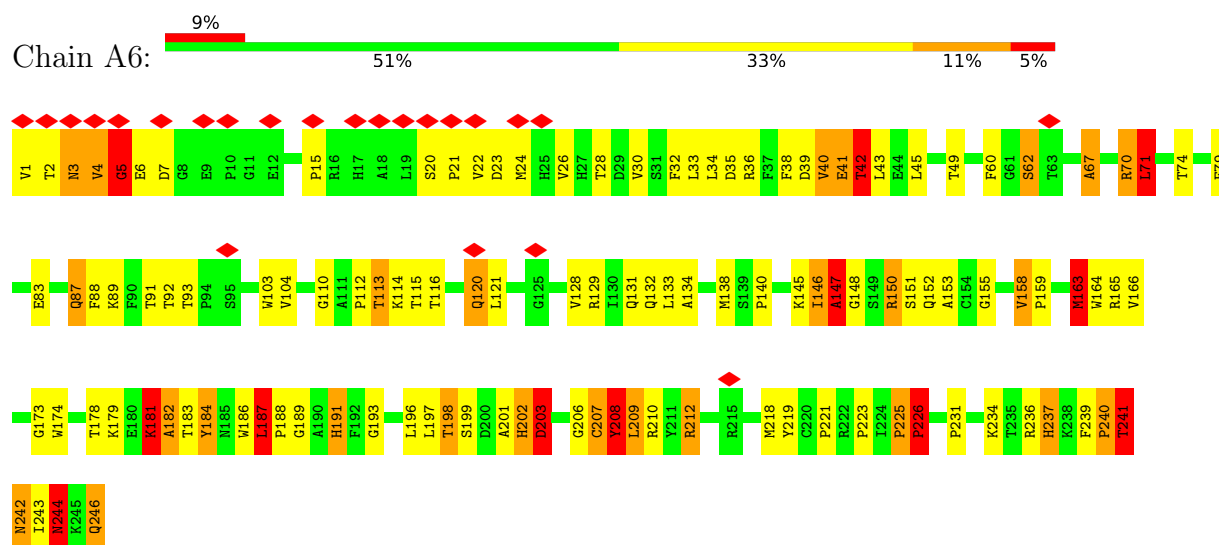
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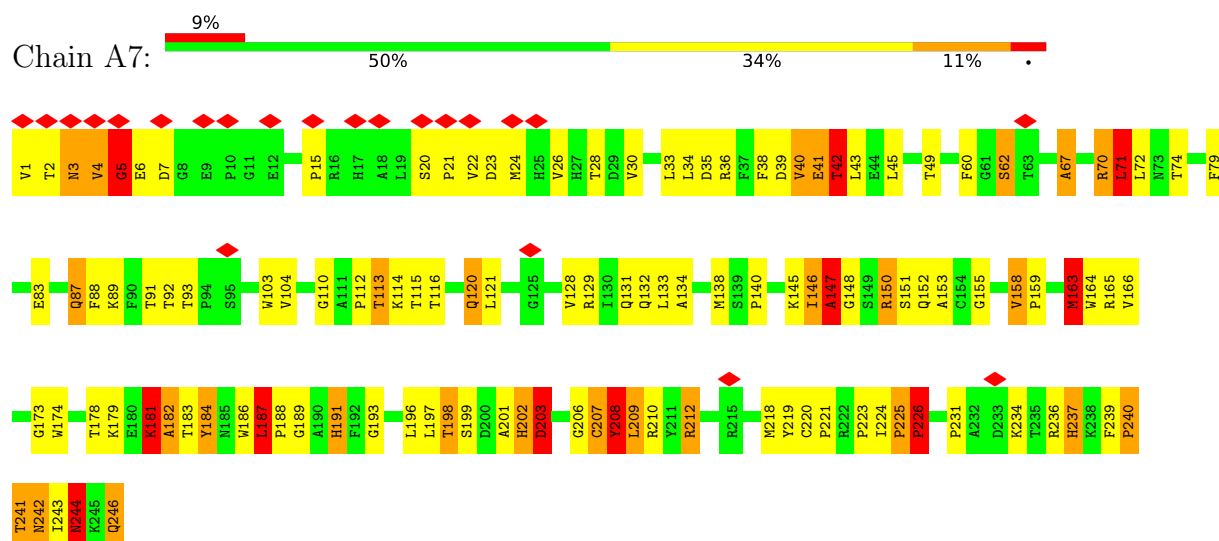
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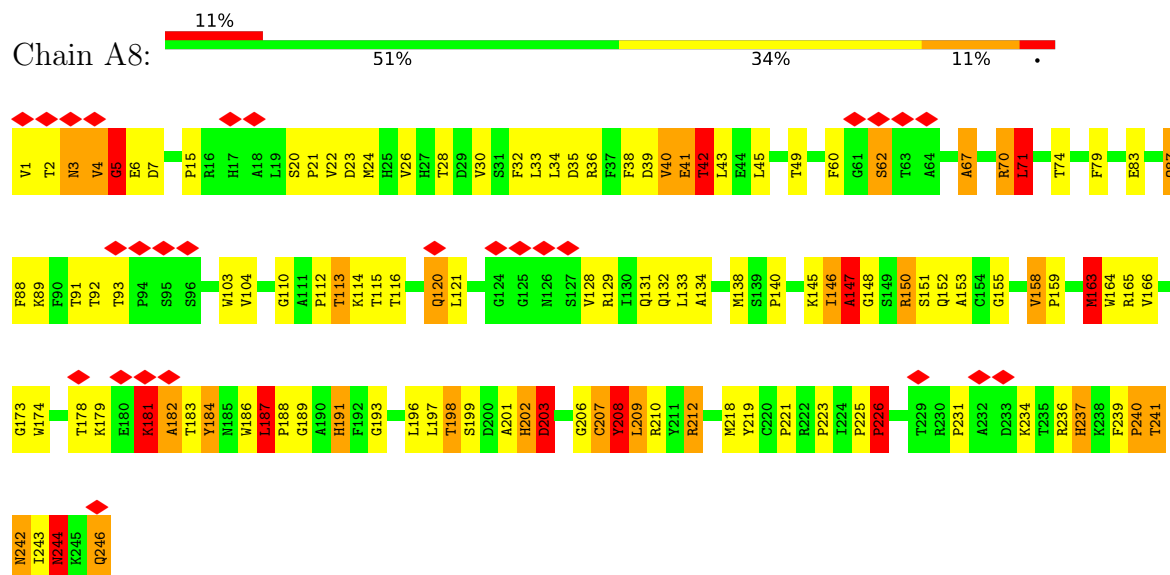
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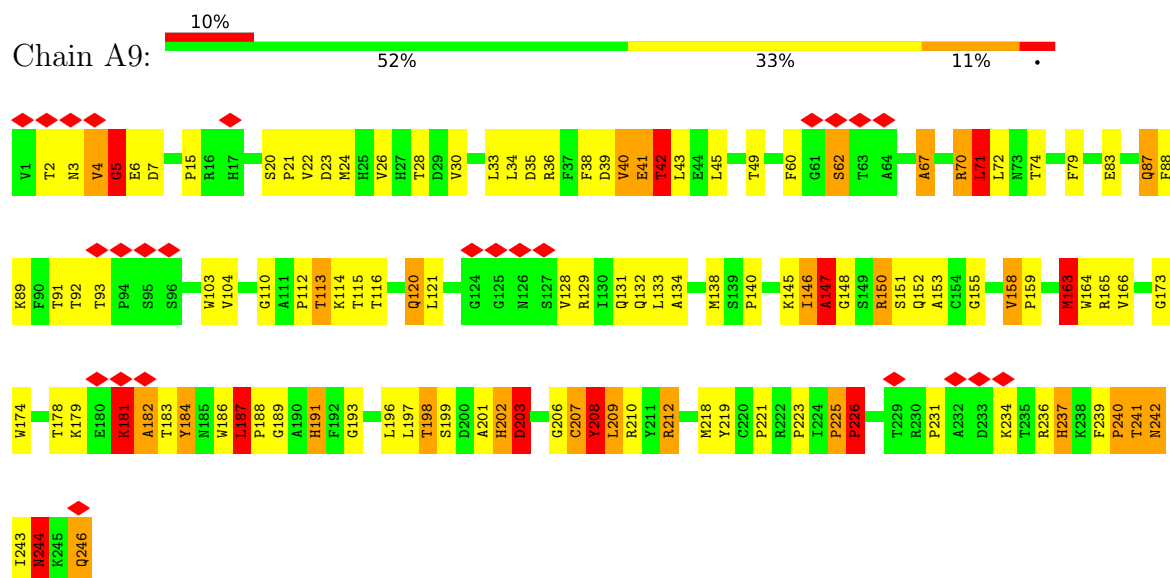
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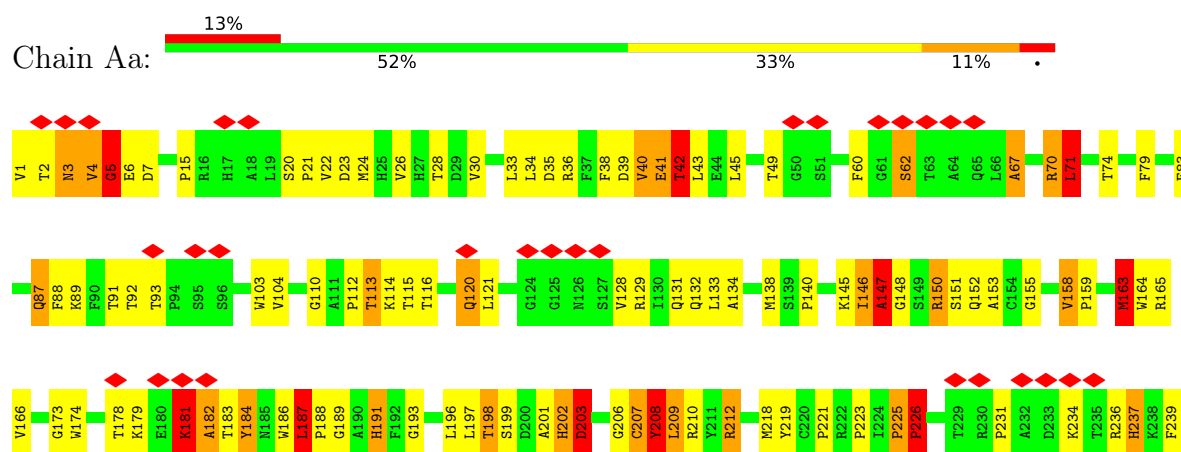
- Molecule 1: P1

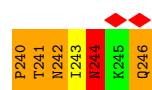


- Molecule 1: P1

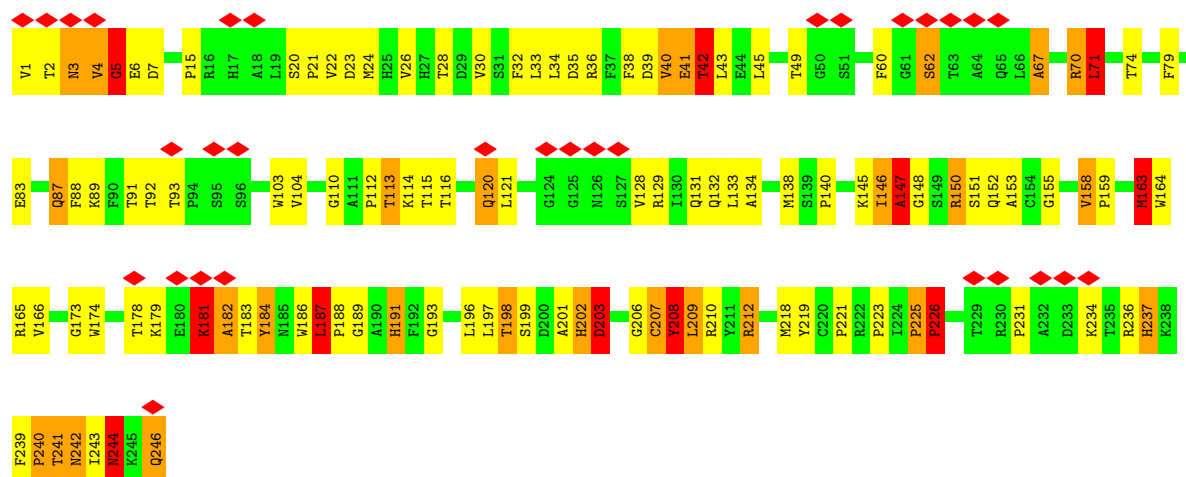


- Molecule 1: P1

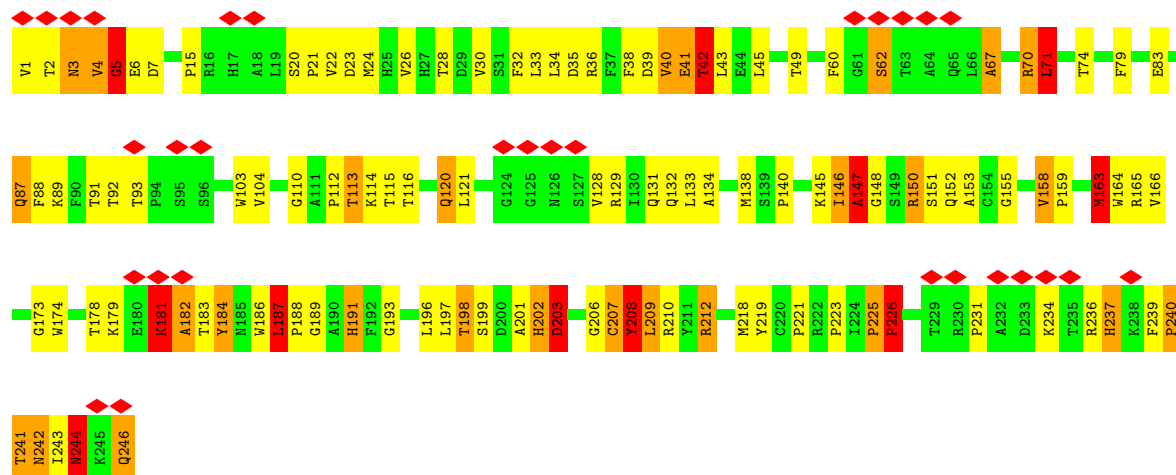




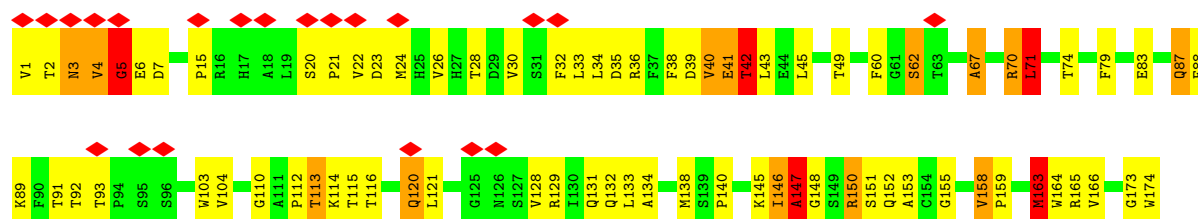
• Molecule 1: P1

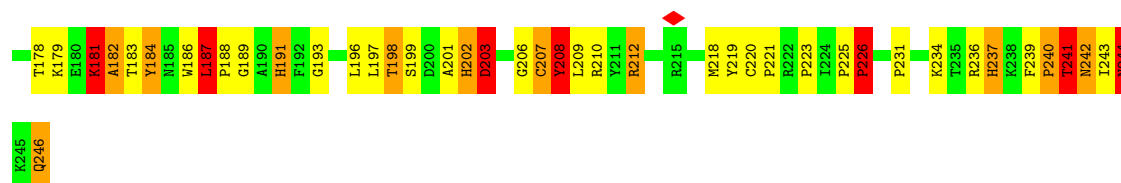


• Molecule 1: P1

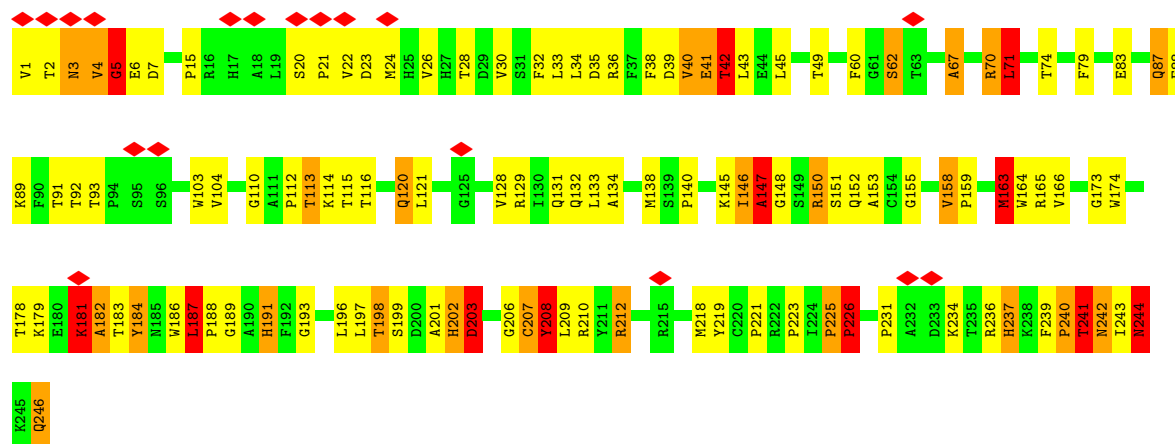


• Molecule 1: P1

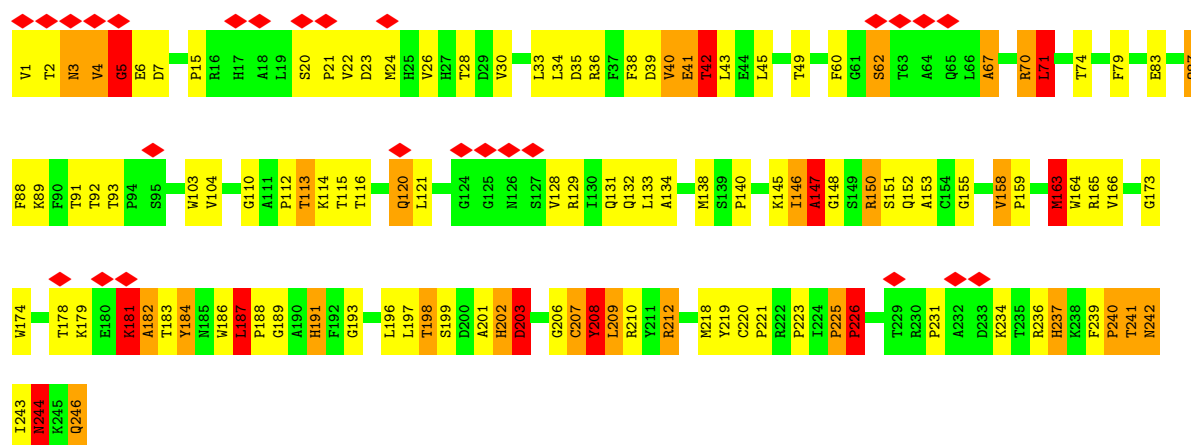




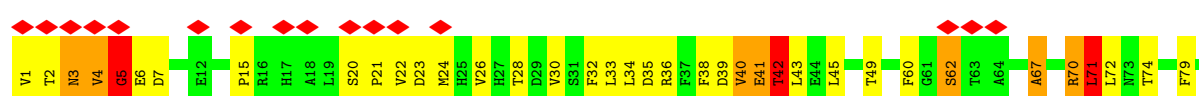
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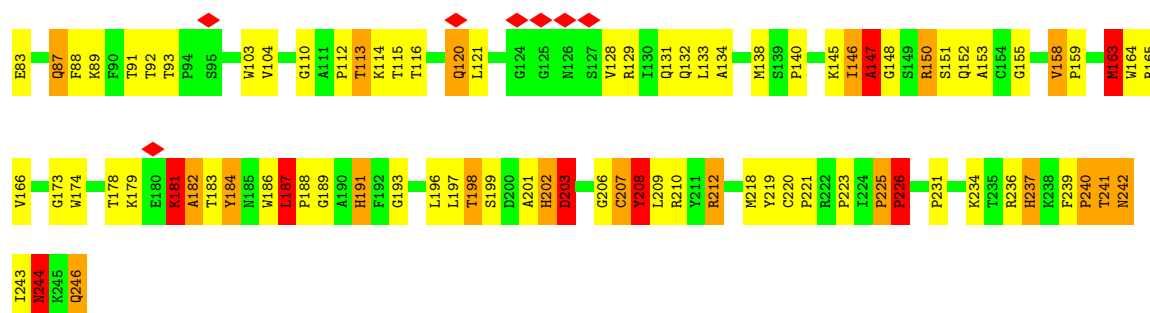


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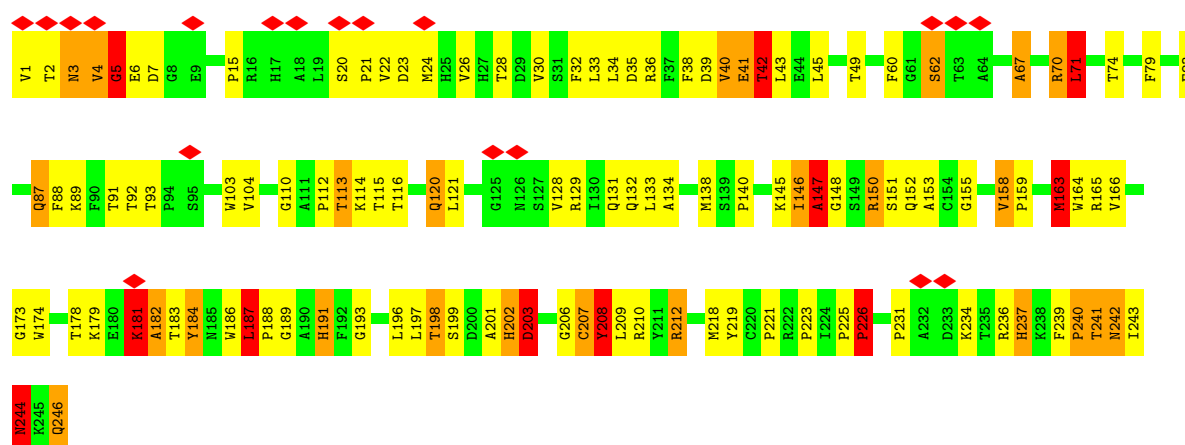


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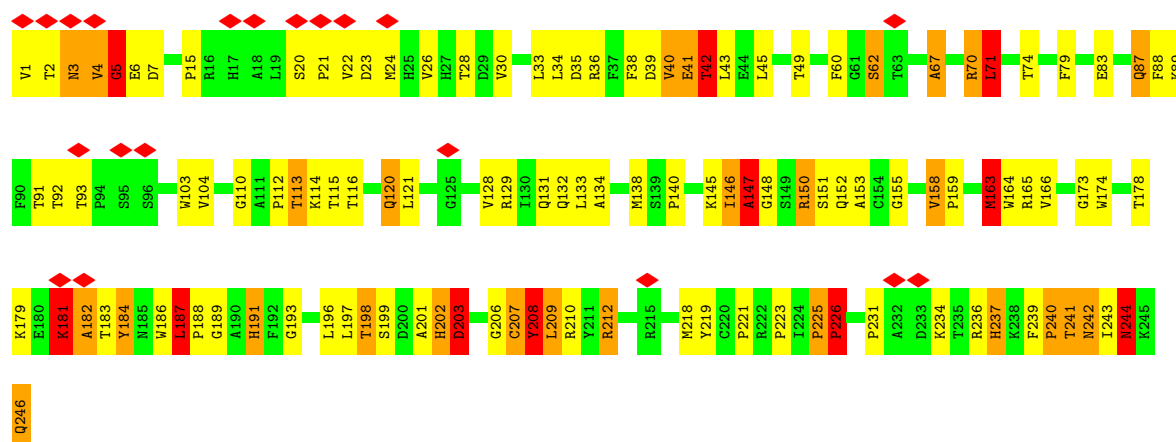




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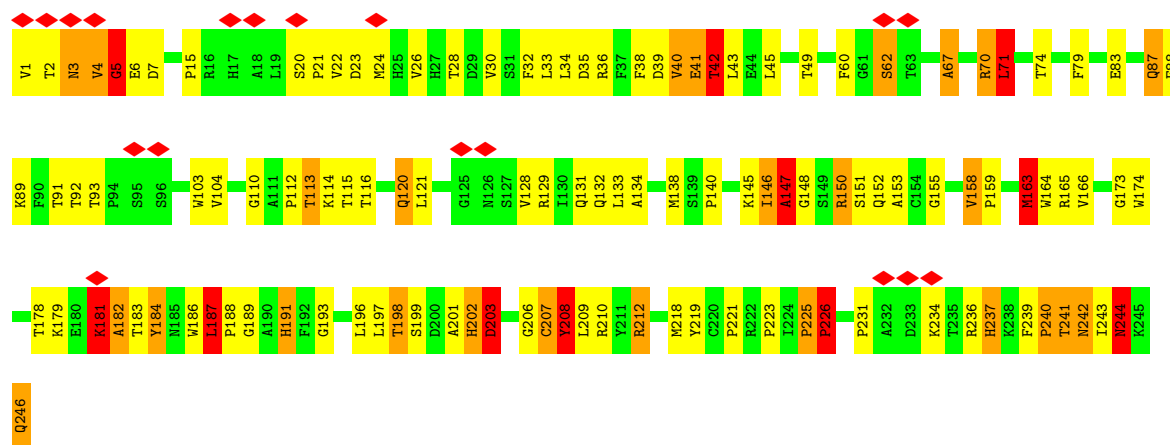


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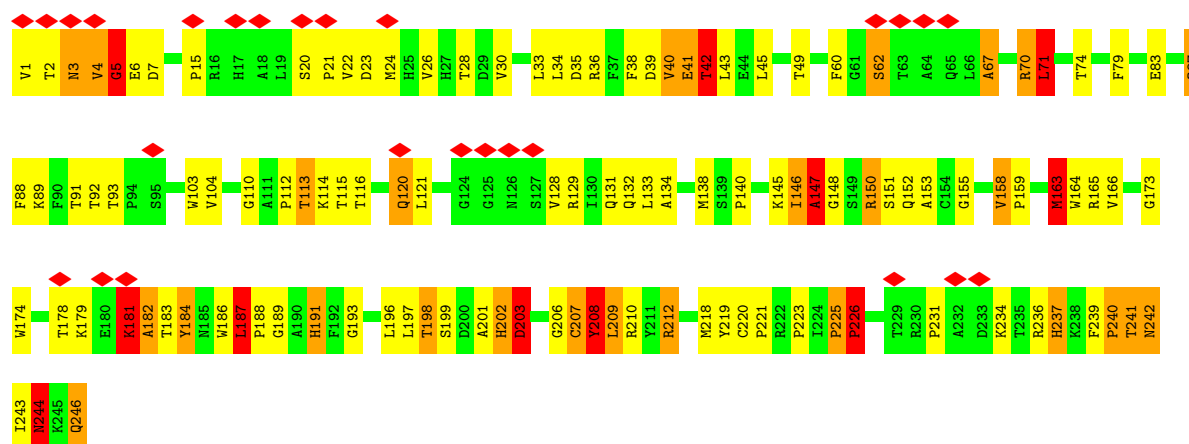


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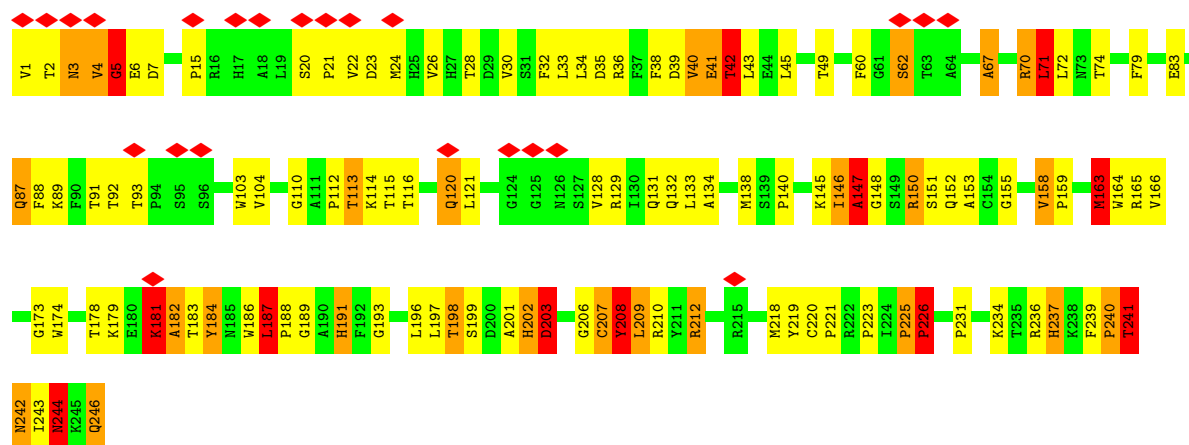




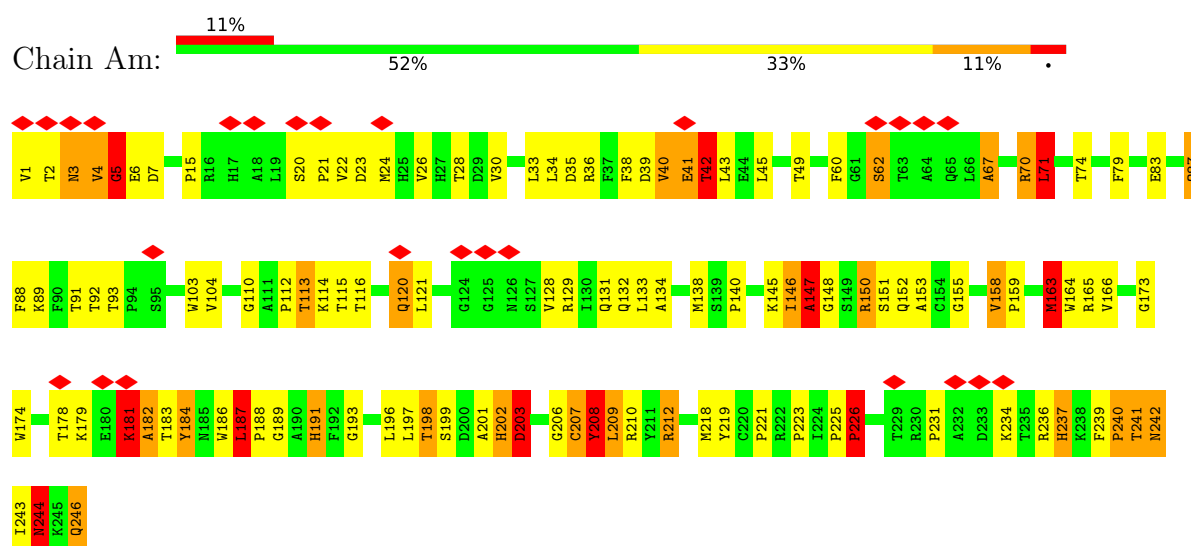
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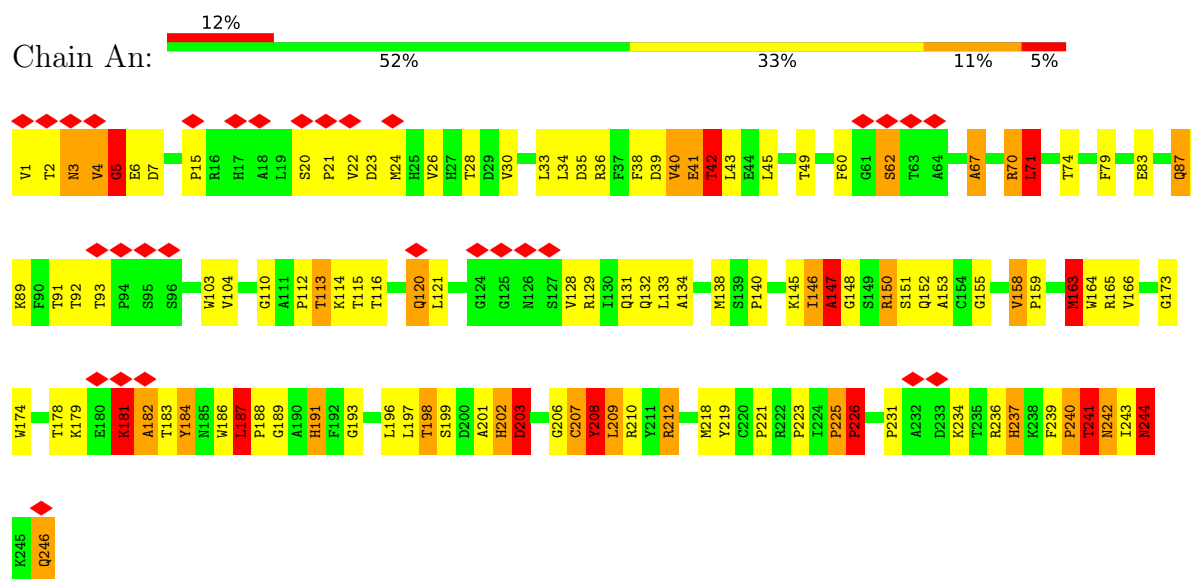
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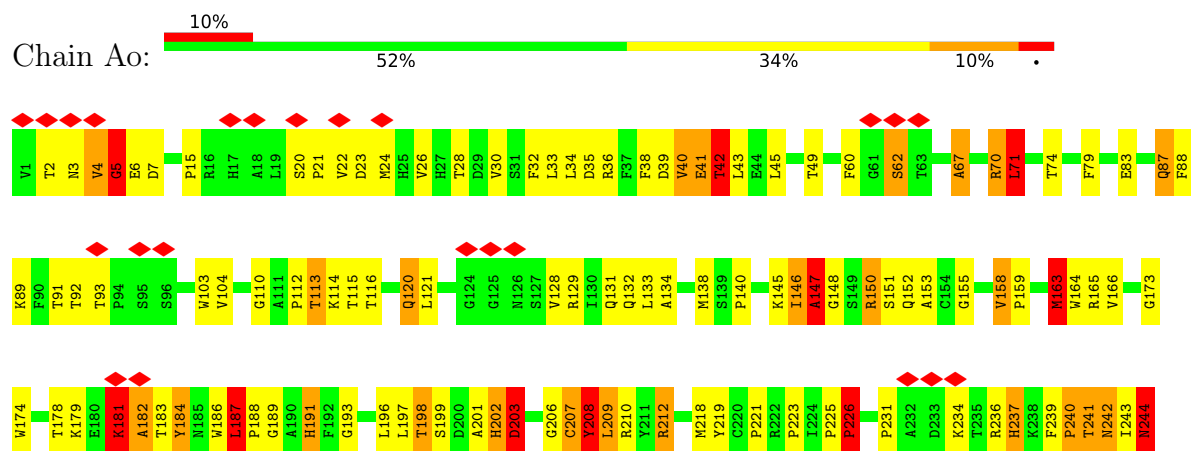
• Molecule 1: P1



• Molecule 1: P1

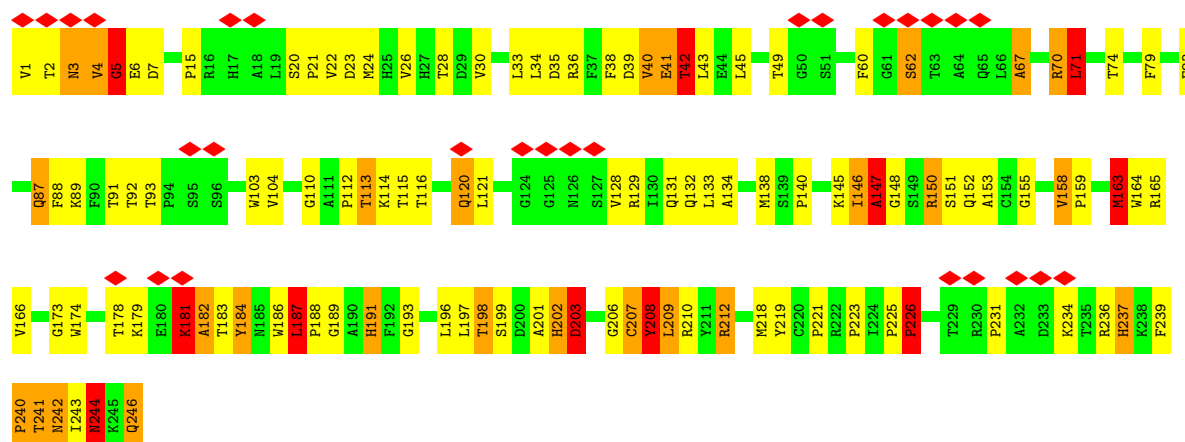


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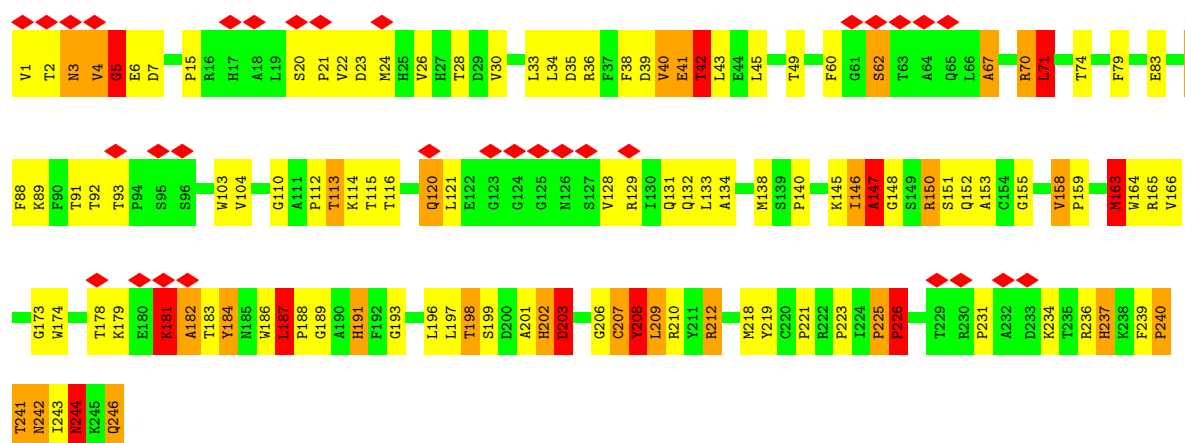




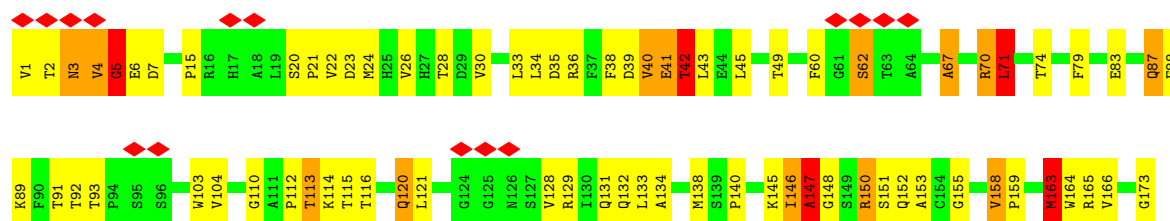
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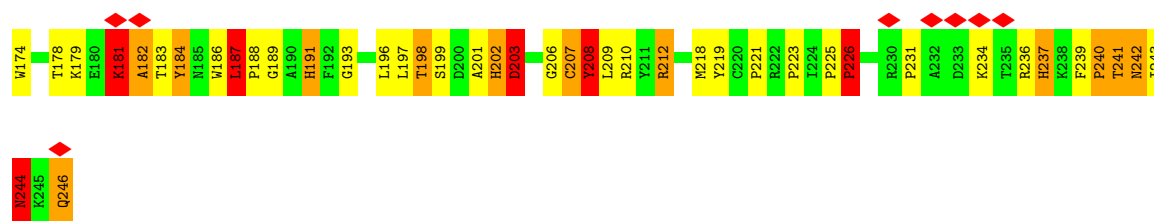


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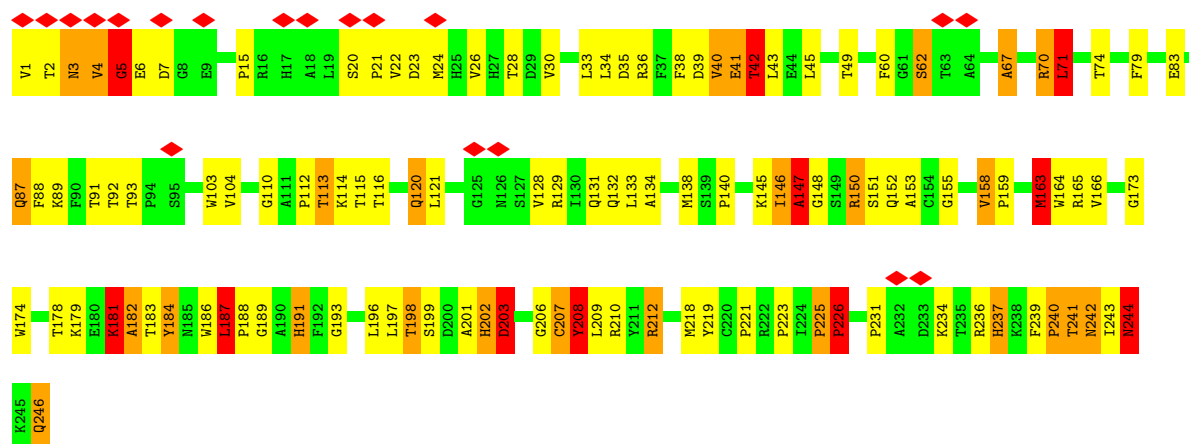


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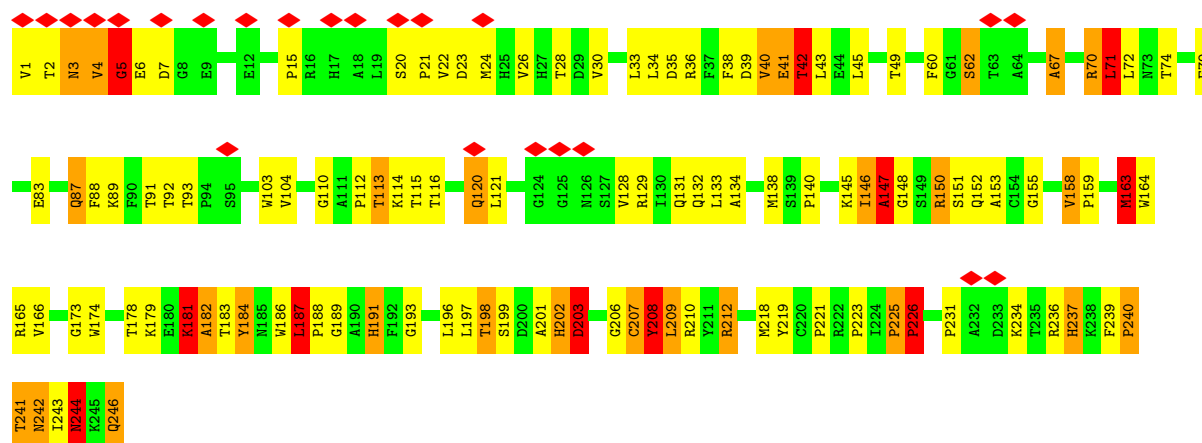




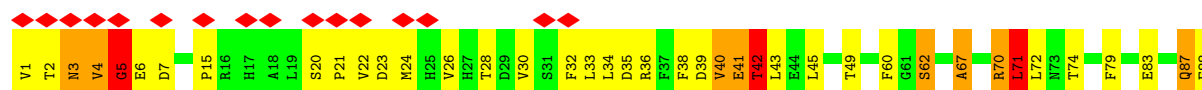
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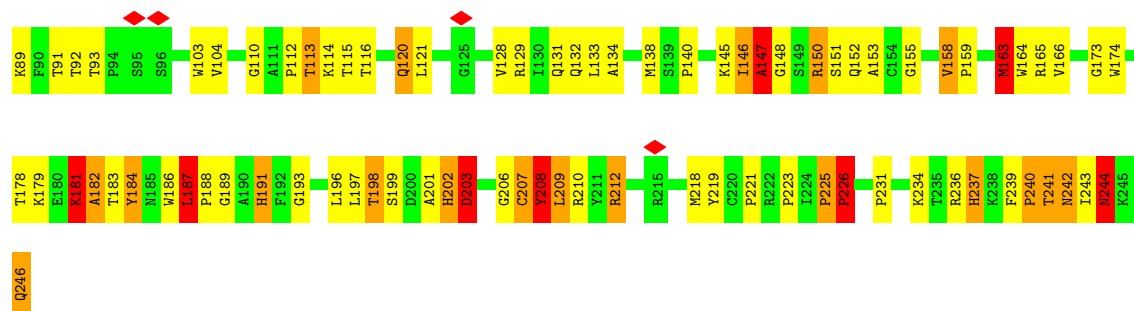


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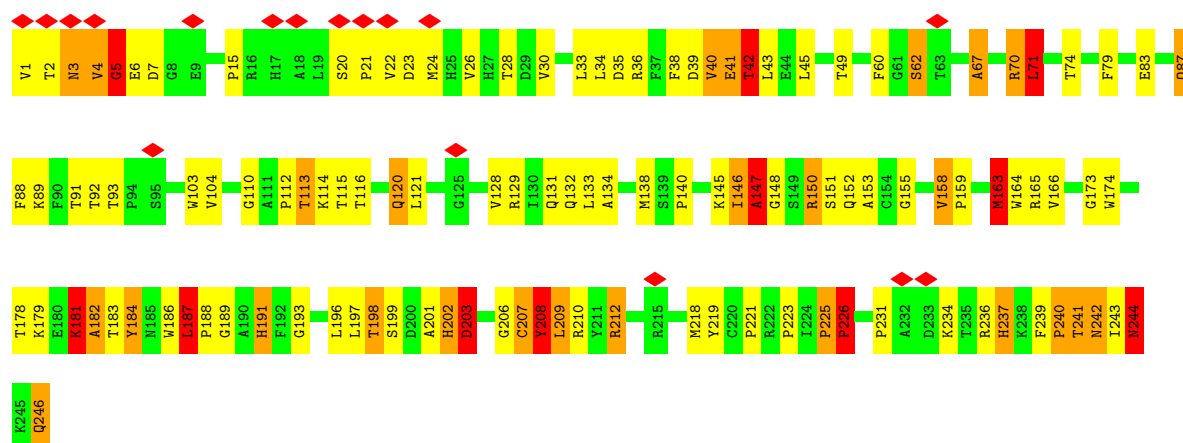


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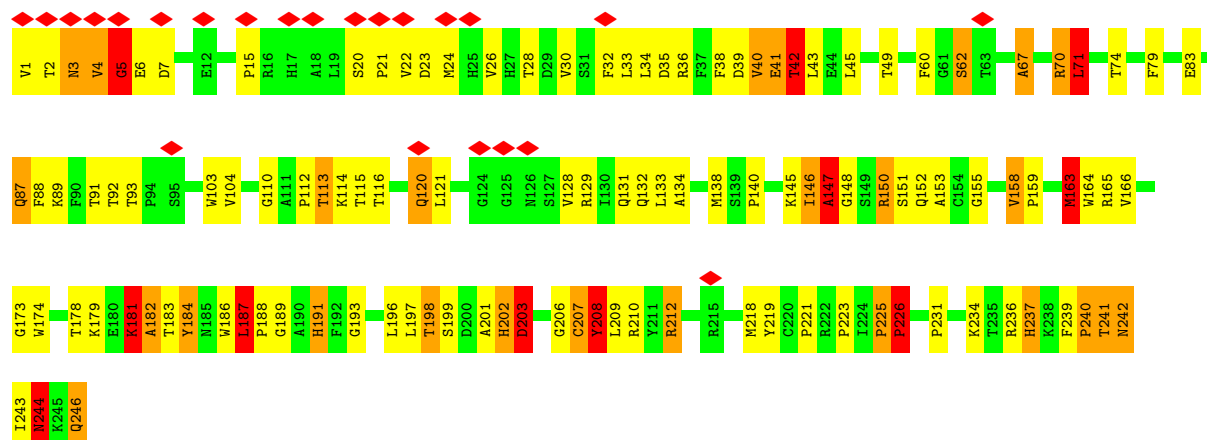




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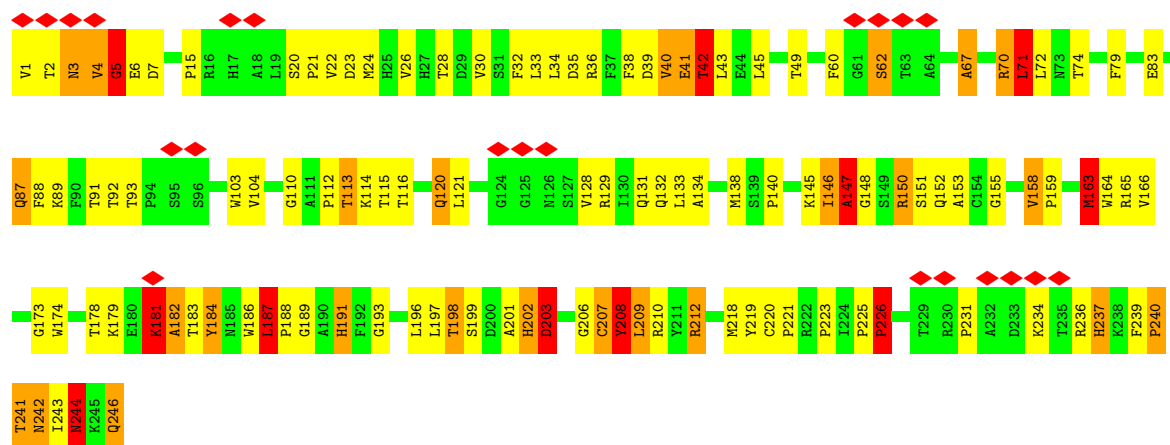


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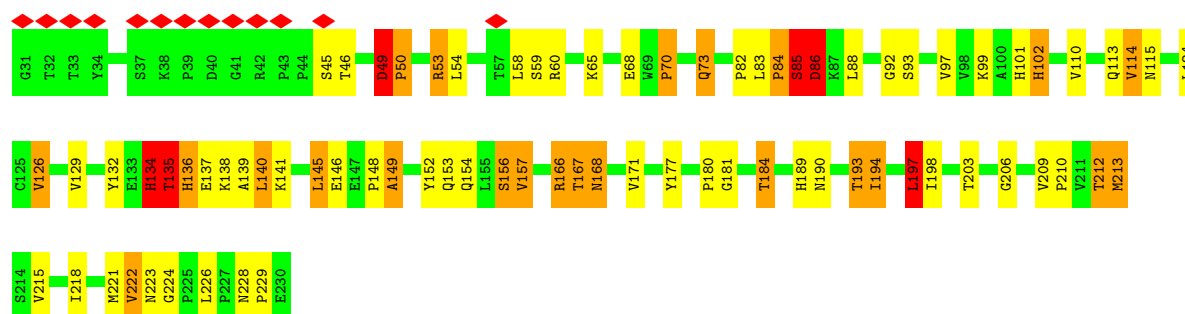


• Molecule 1: P1

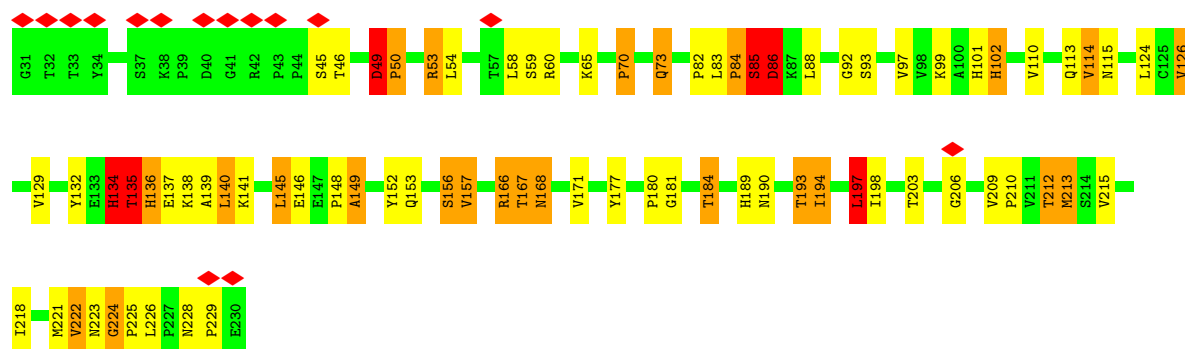




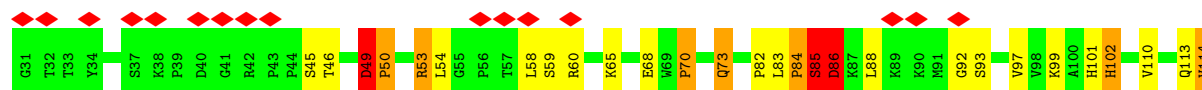
• Molecule 2: P1

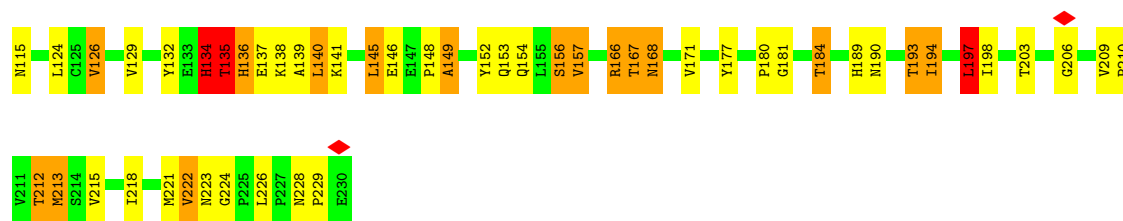


• Molecule 2: P1

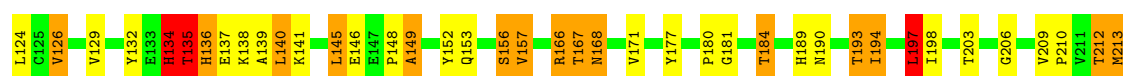


• Molecule 2: P1

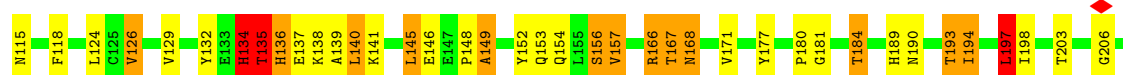
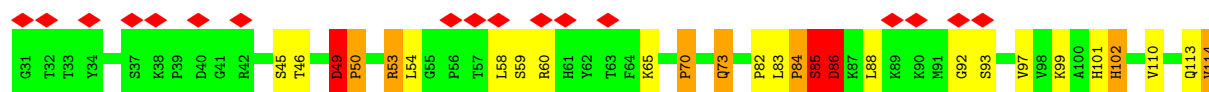




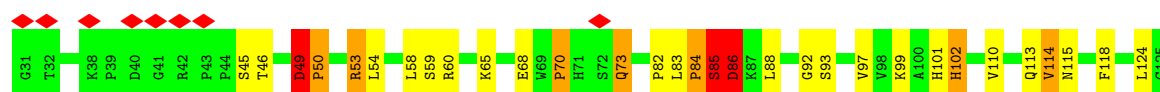
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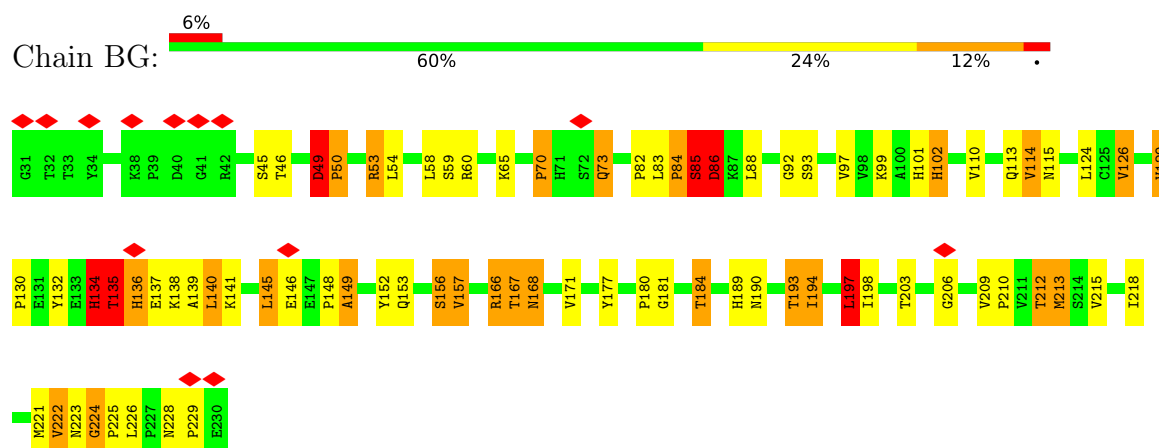
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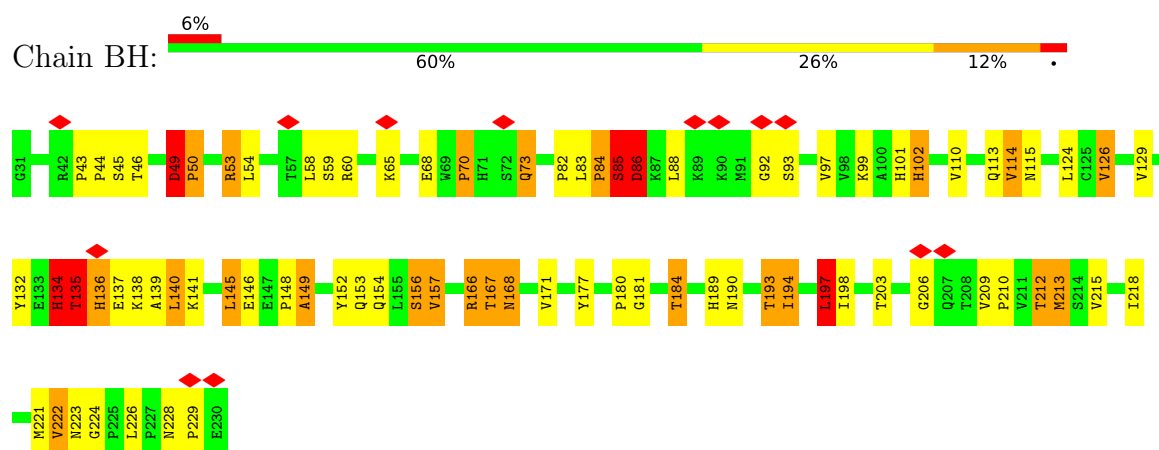
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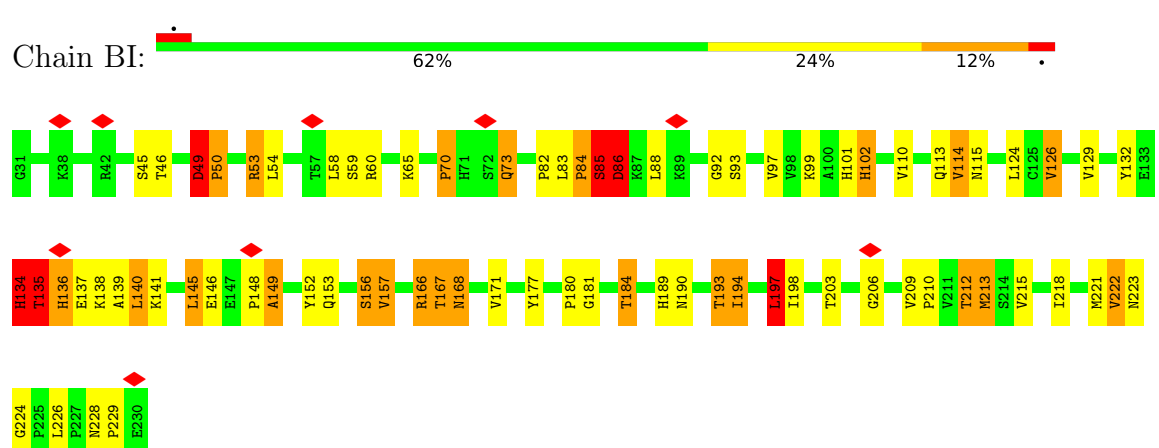
- Molecule 2: P1



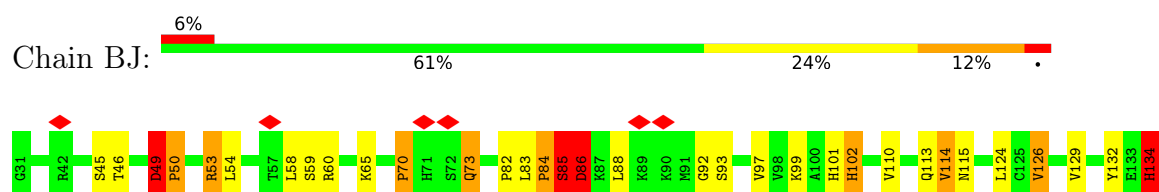
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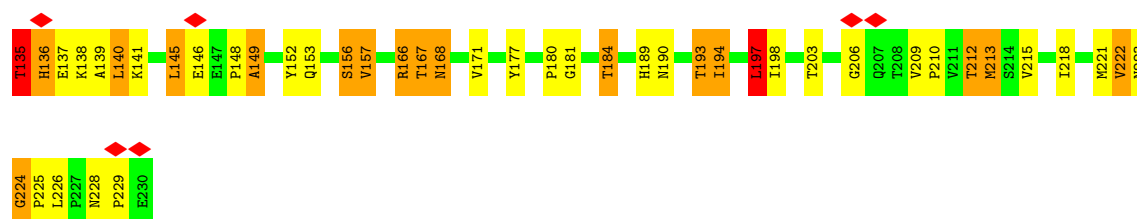


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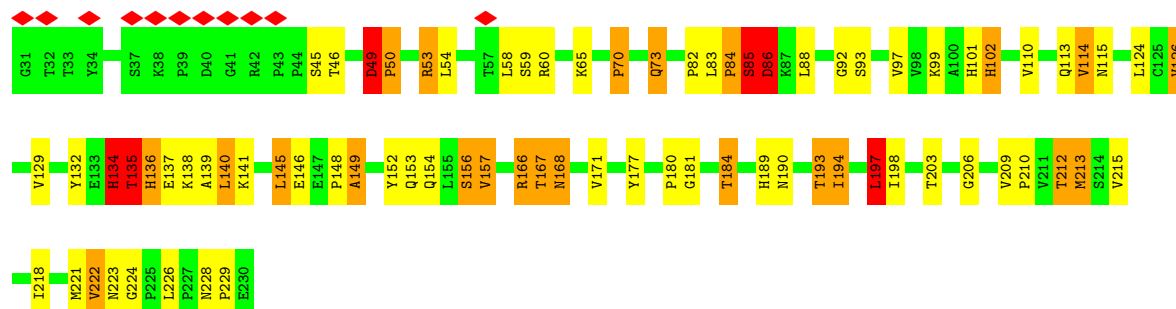


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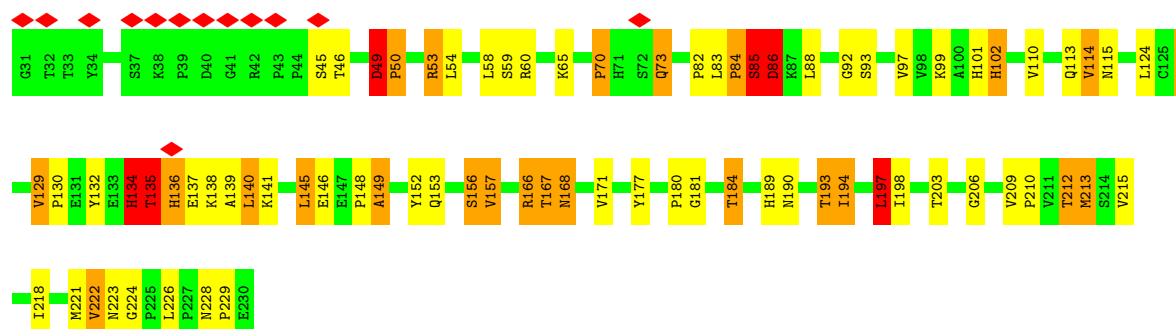




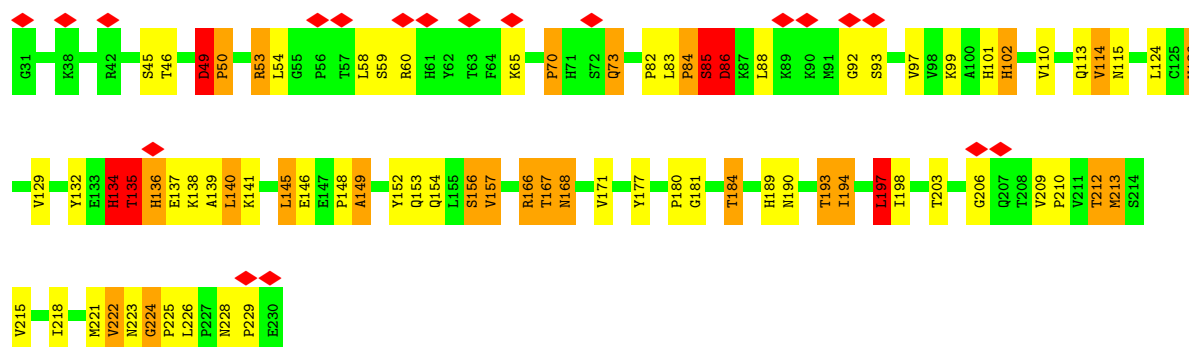
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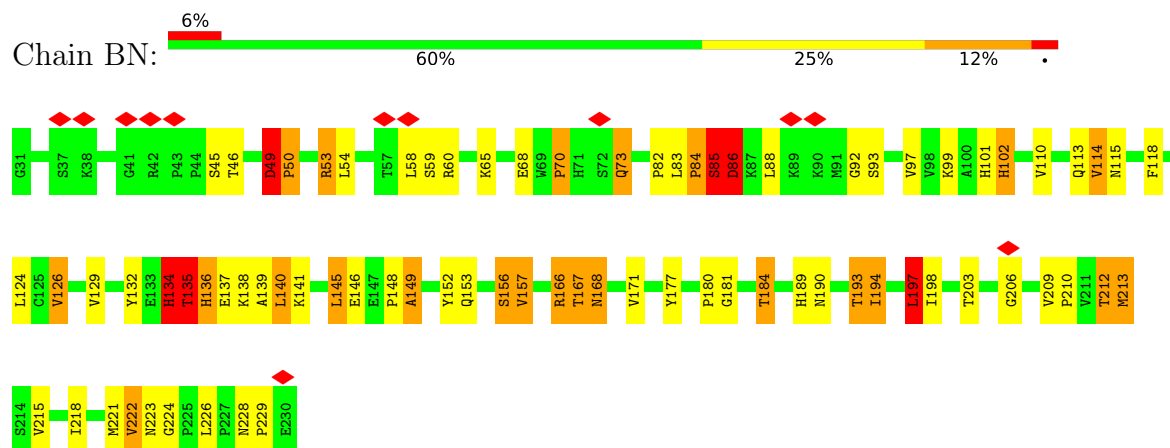
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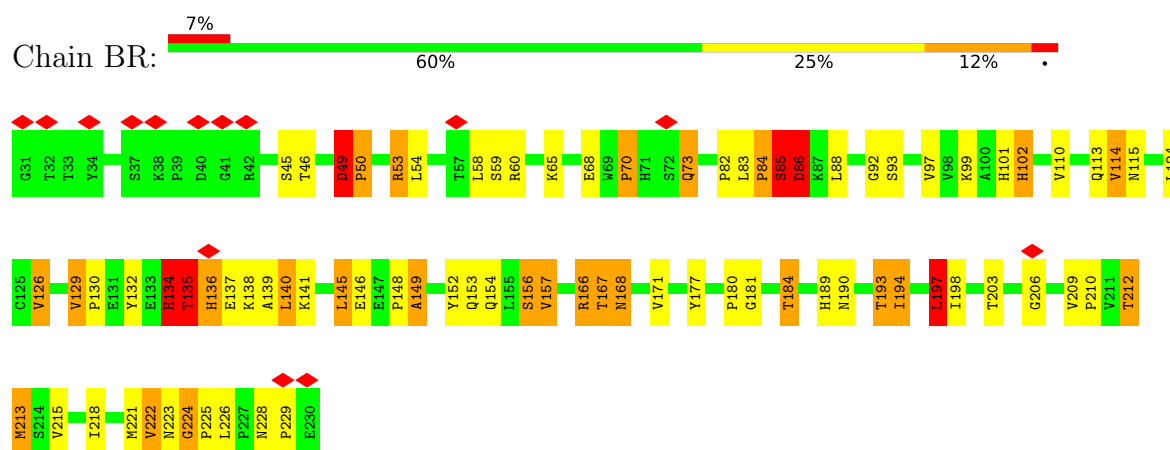
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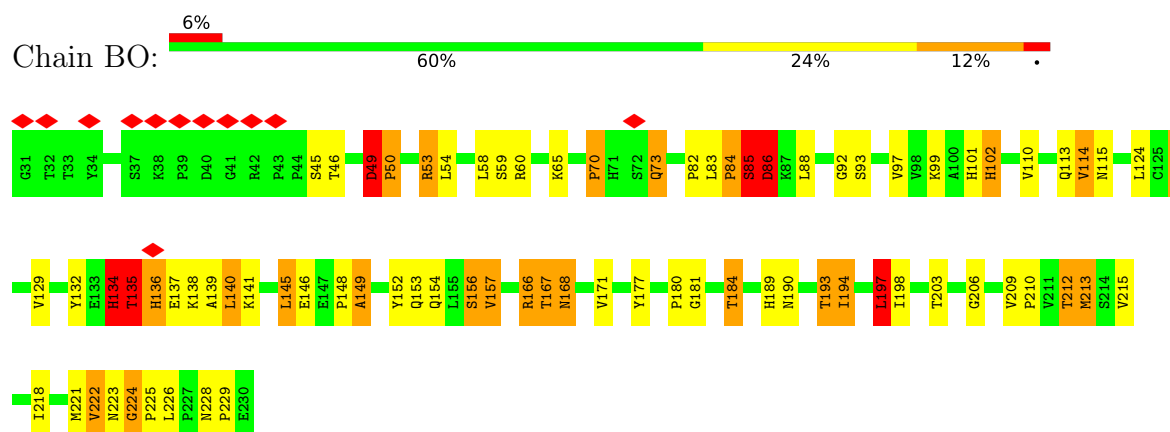
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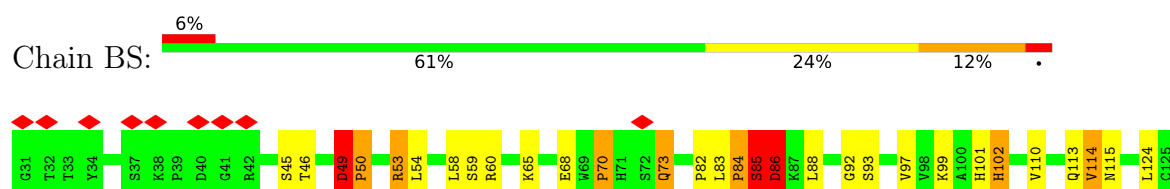
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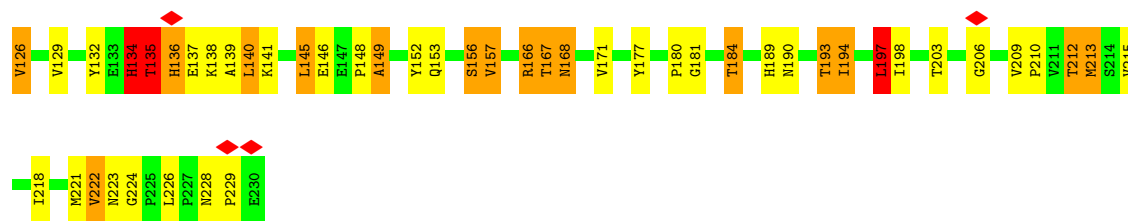


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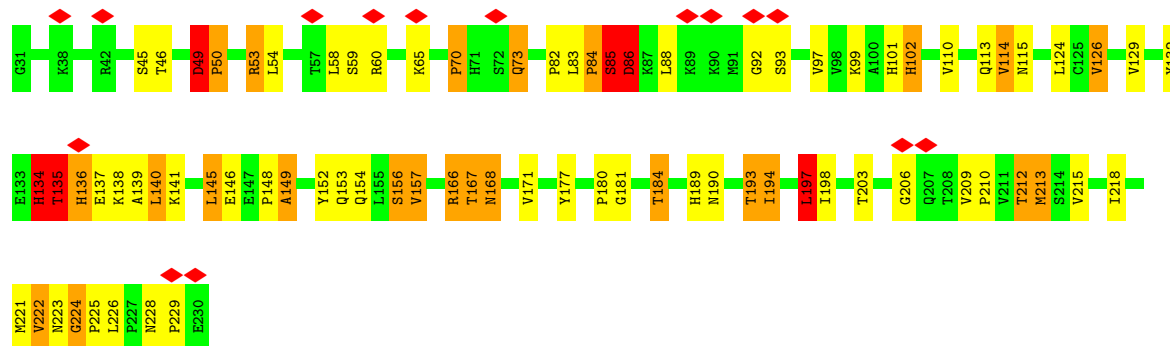


- Molecule 2: P1

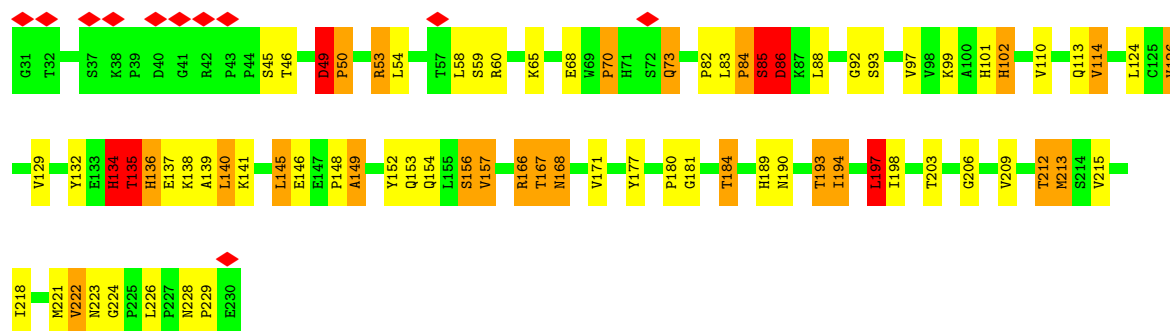




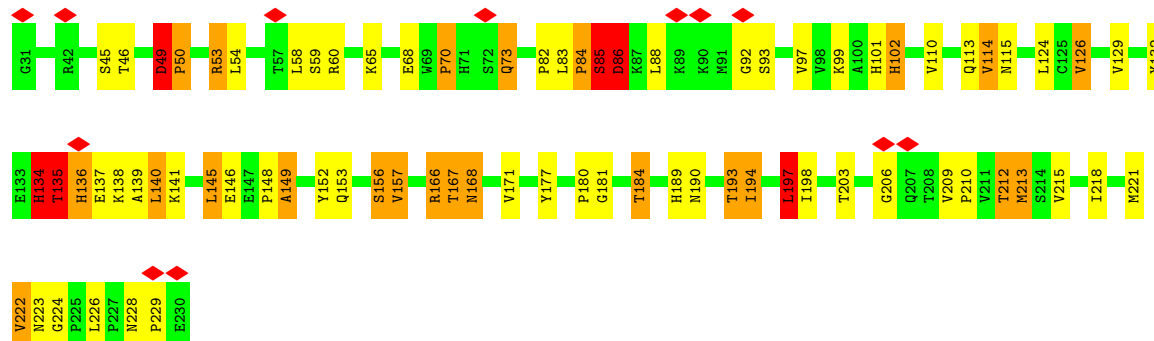
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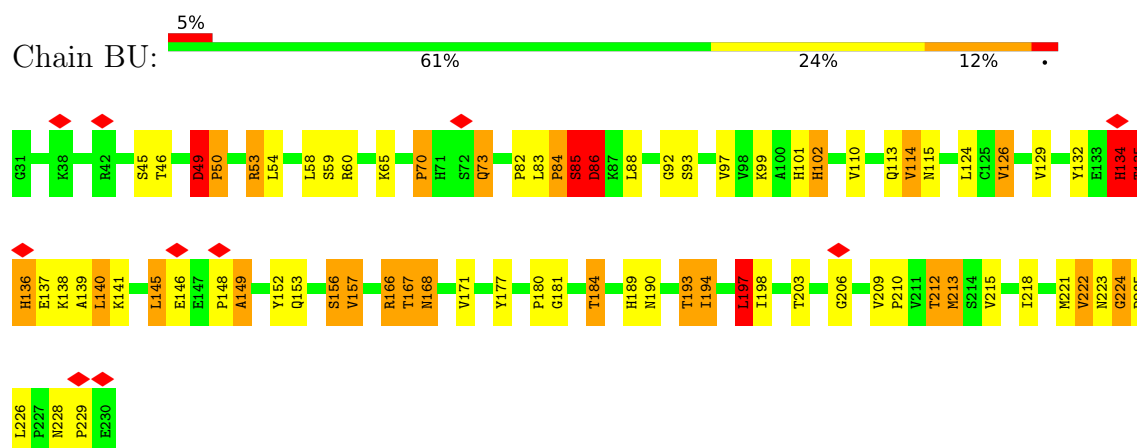
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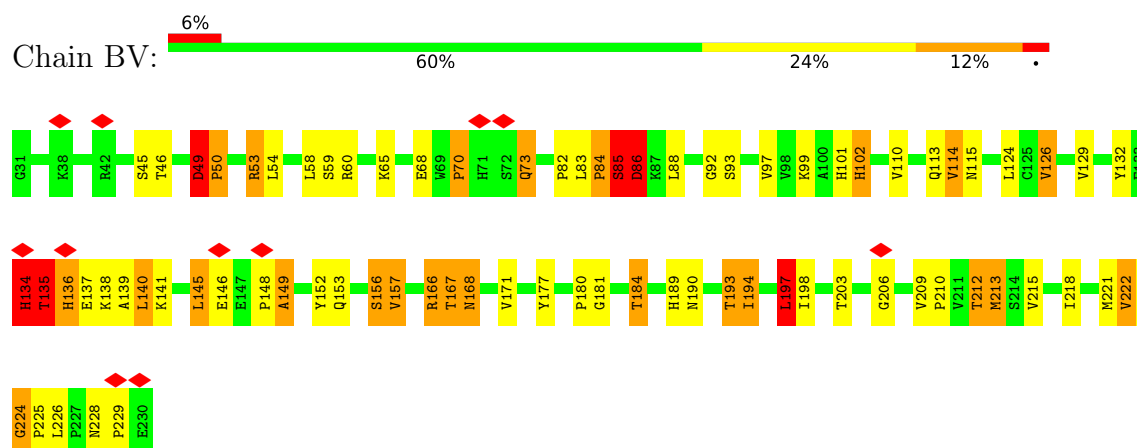
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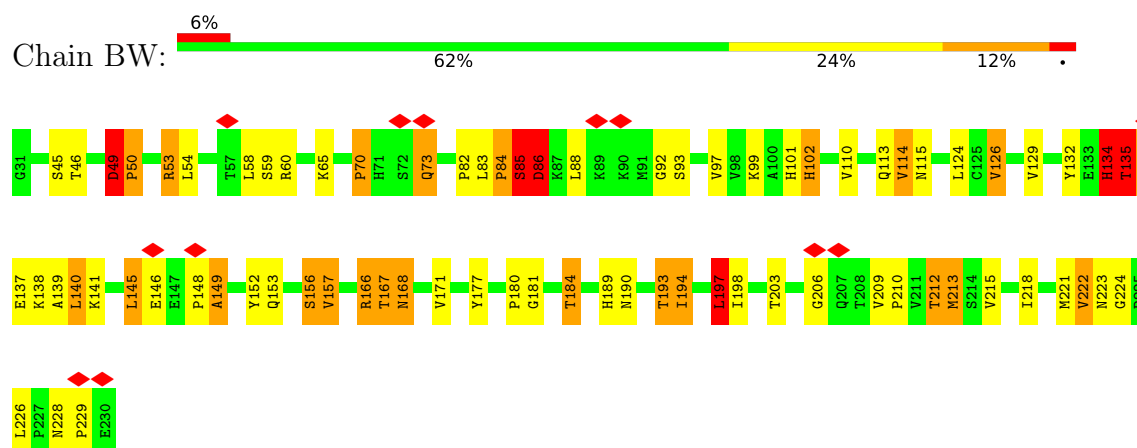
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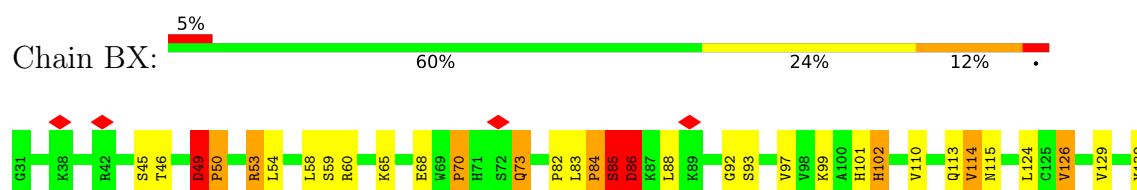
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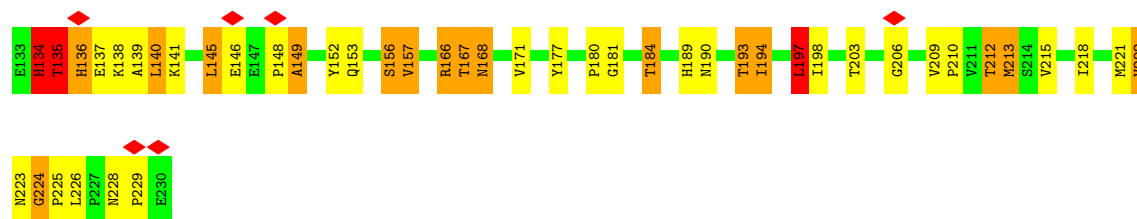


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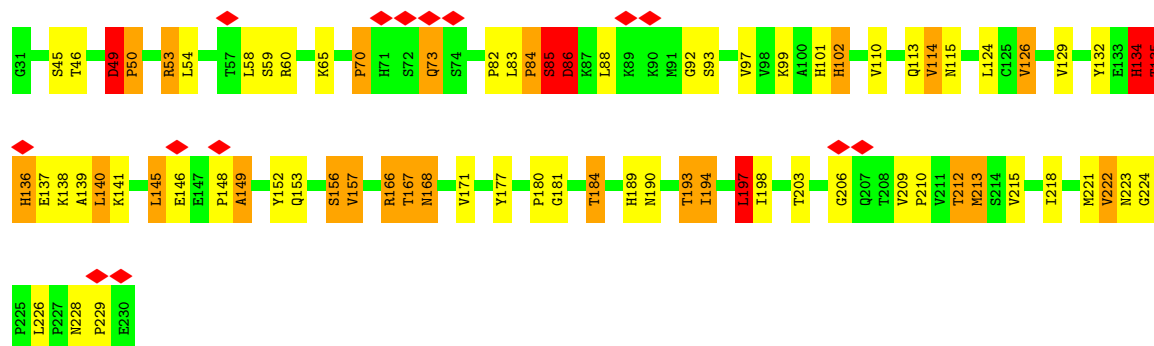


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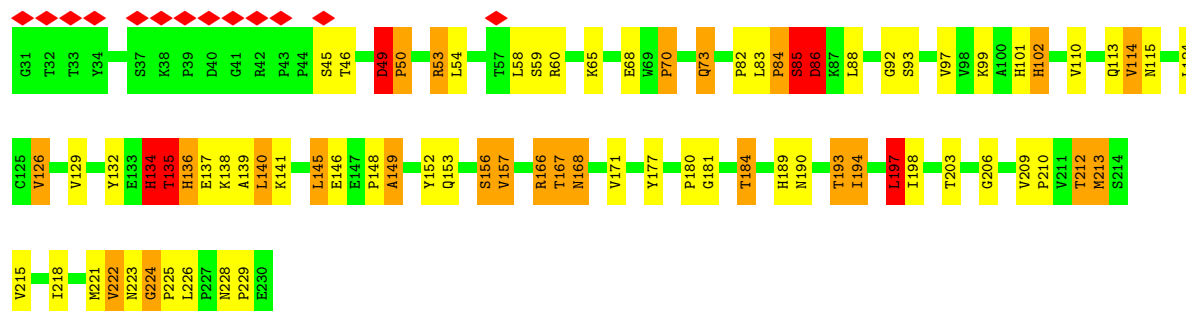




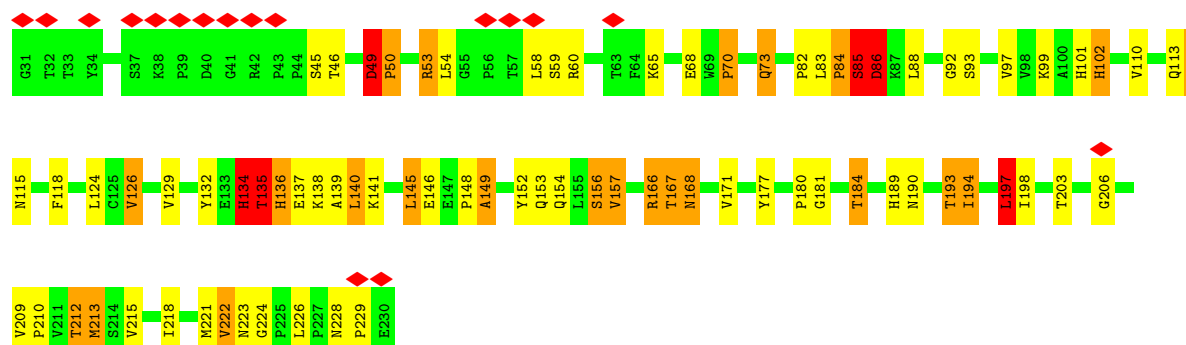
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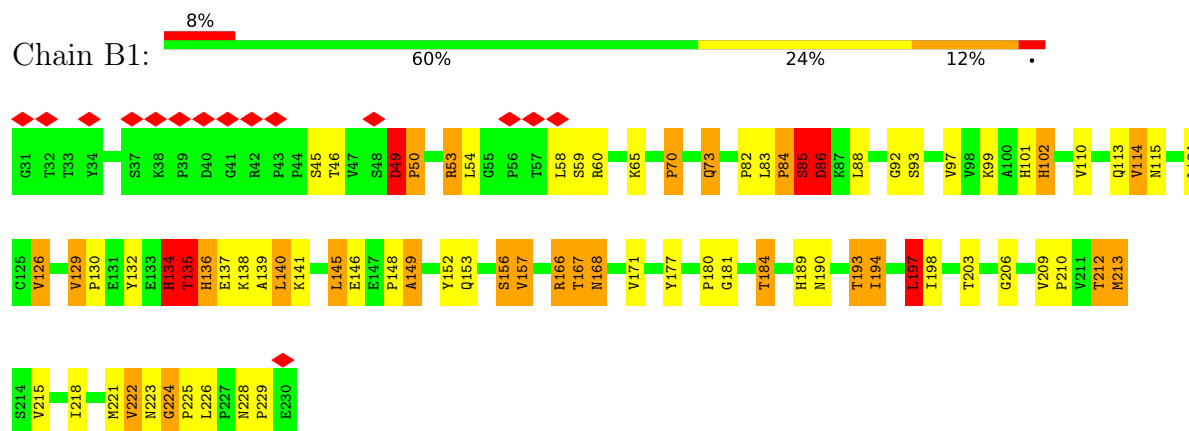
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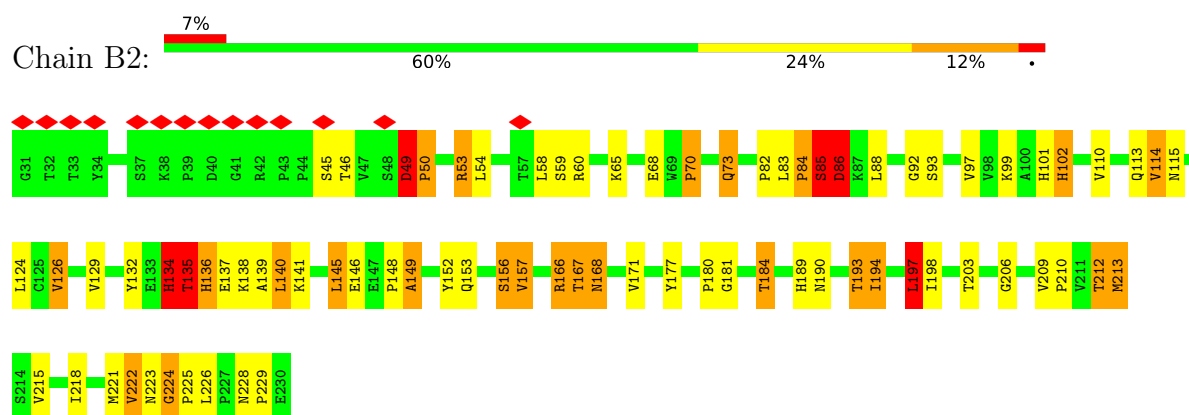
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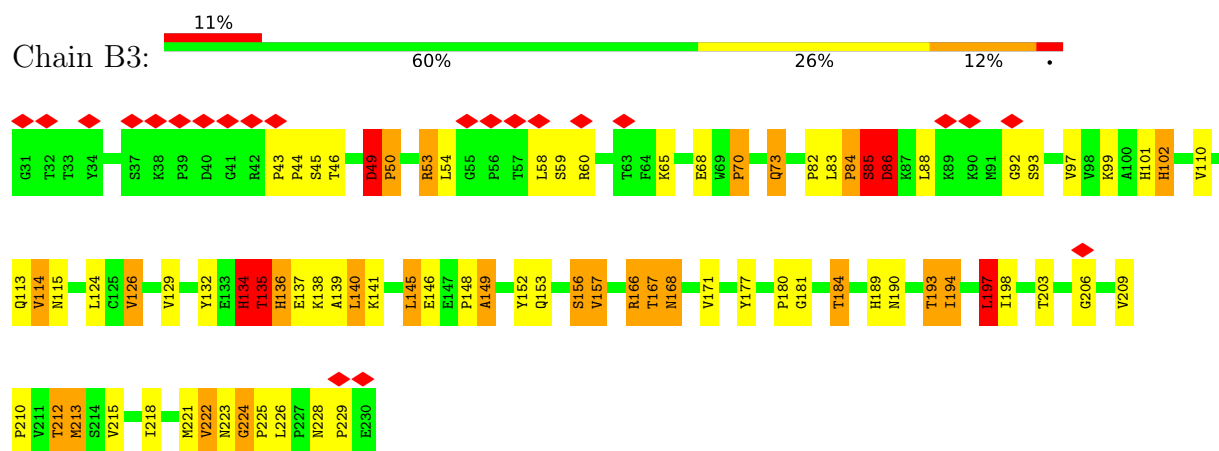
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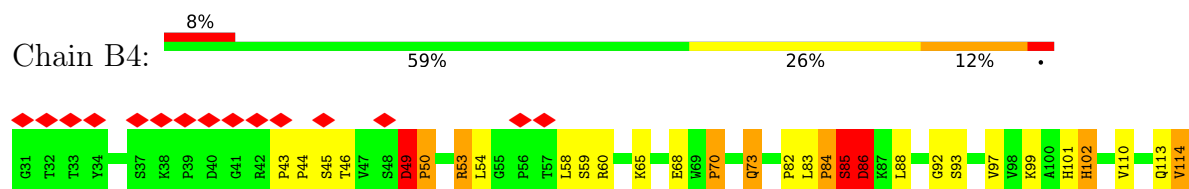
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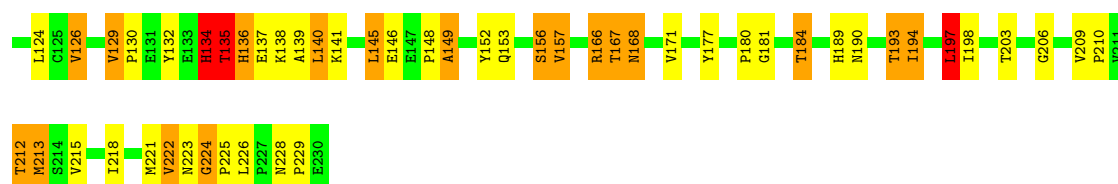


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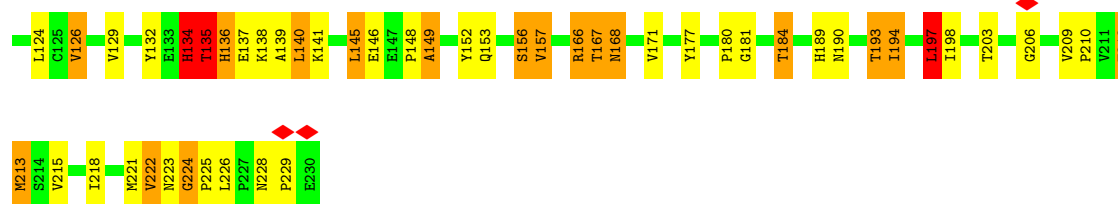
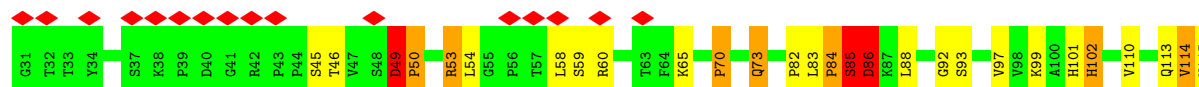


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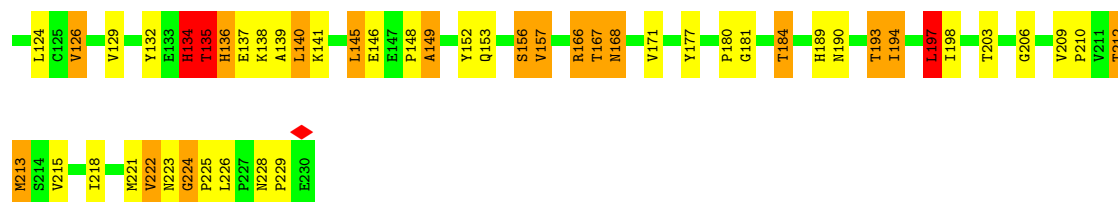
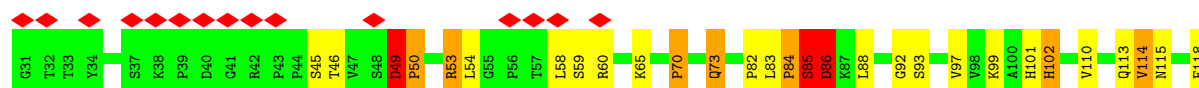




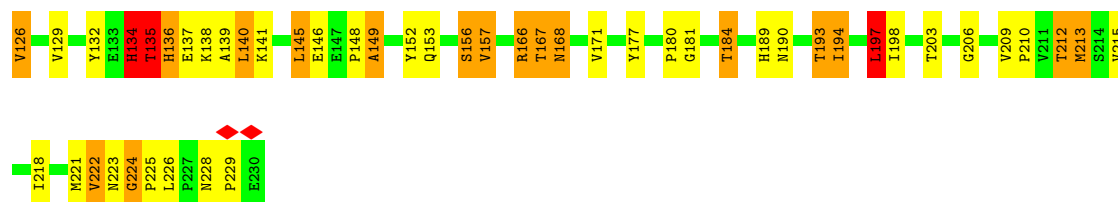
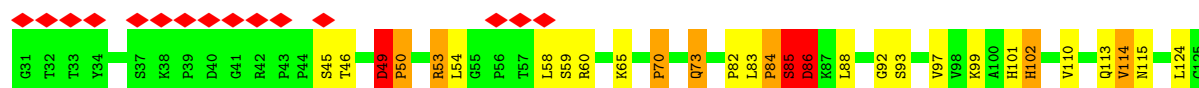
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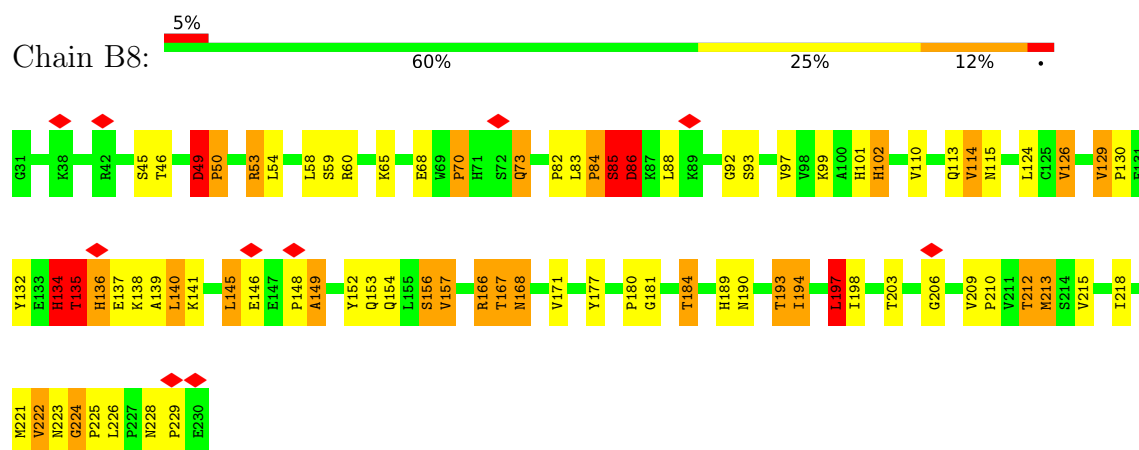
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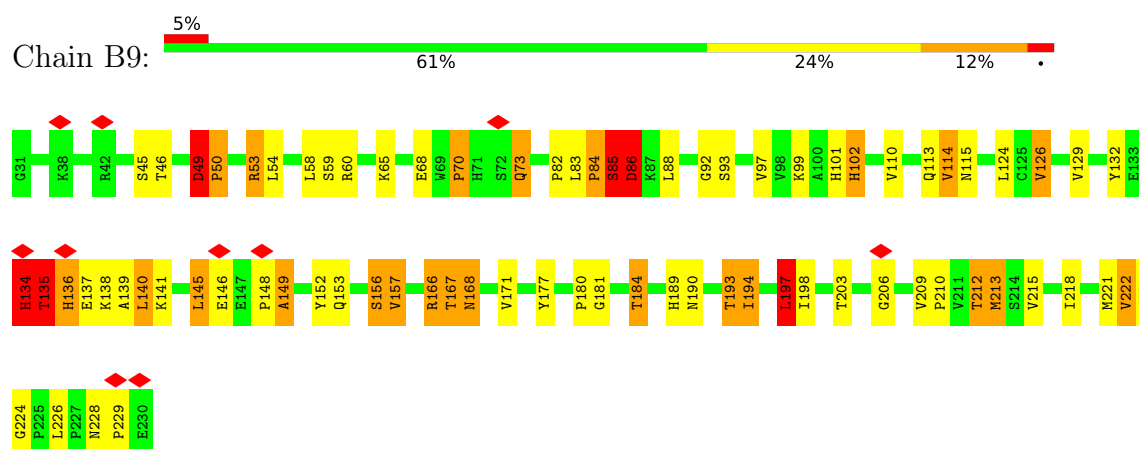
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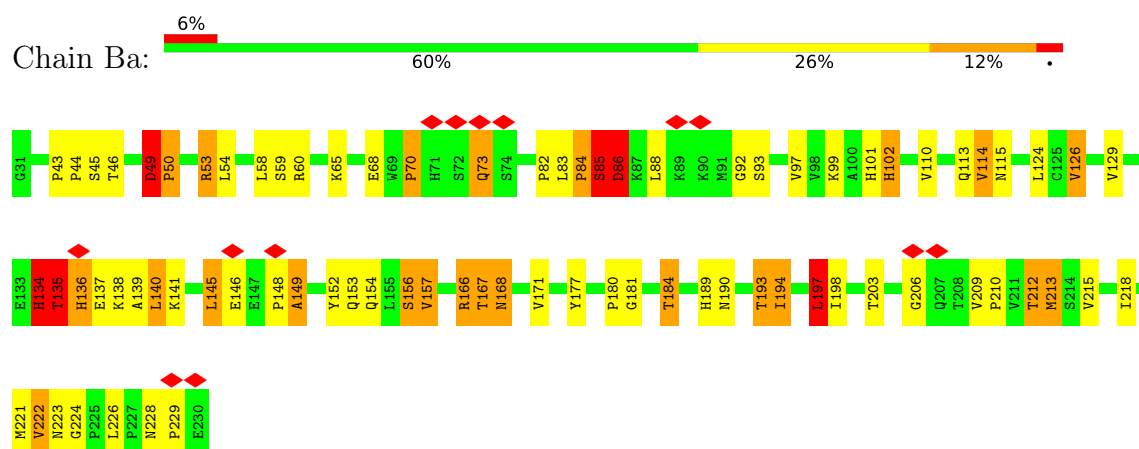
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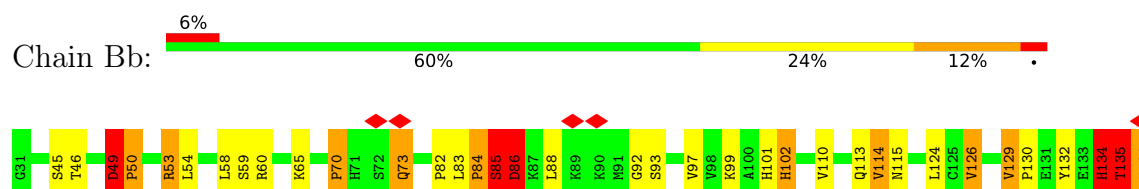
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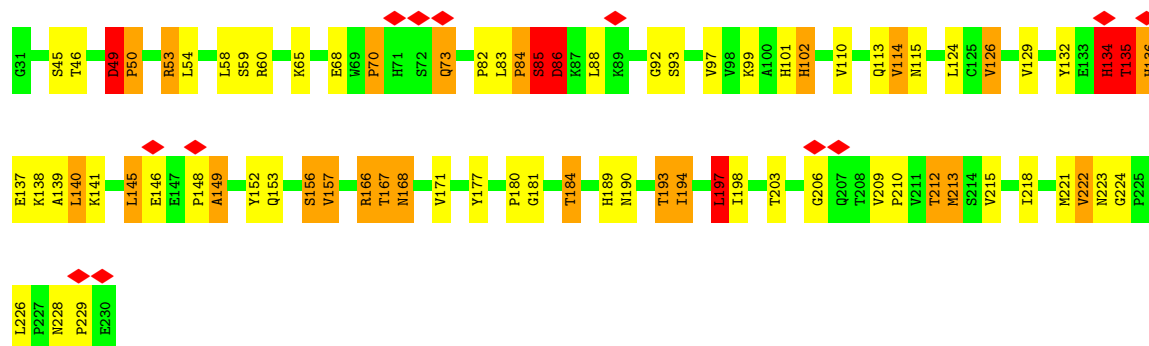


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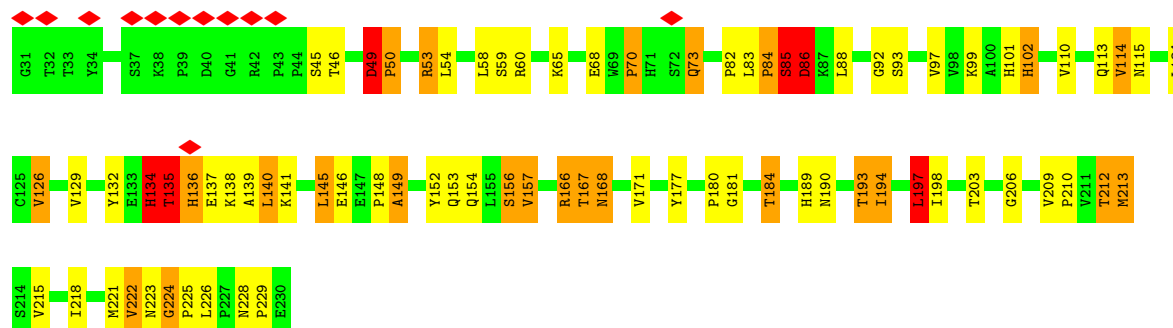




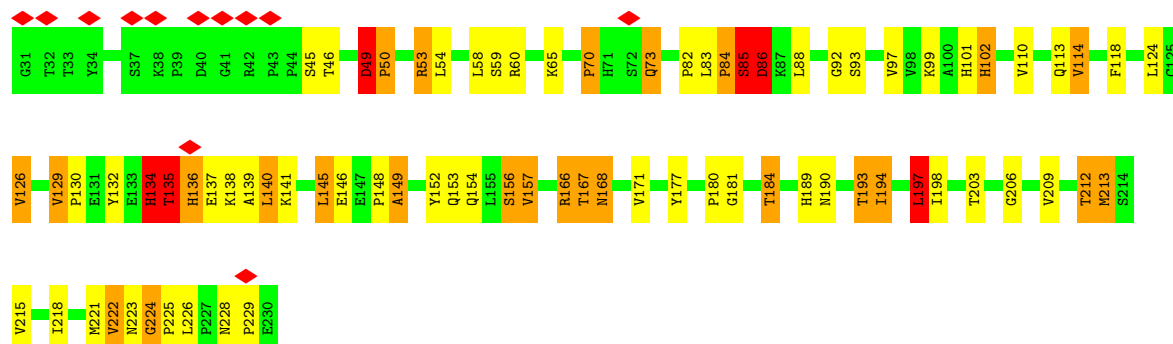
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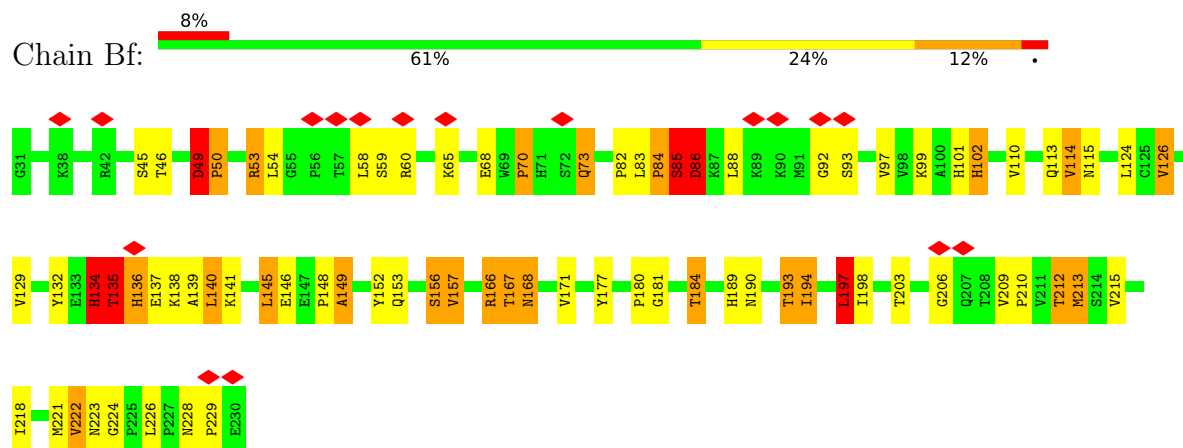
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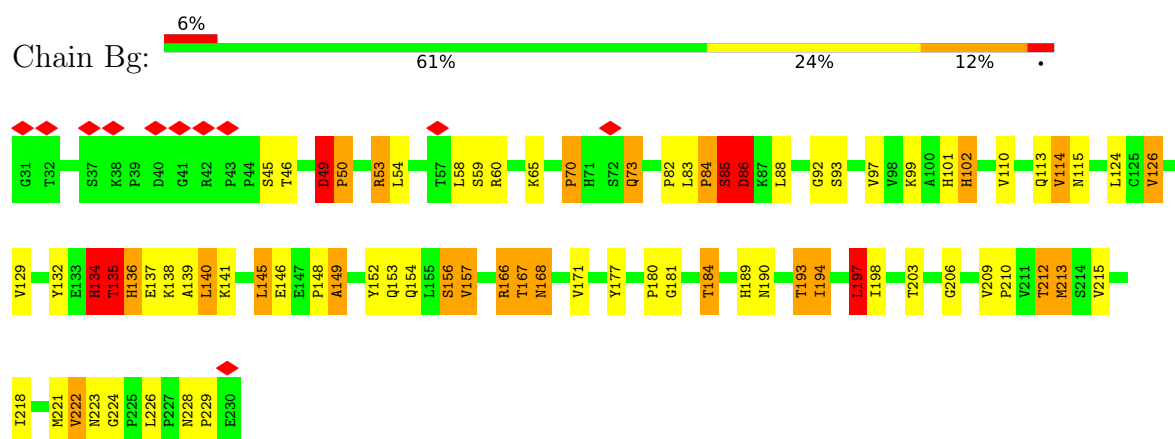
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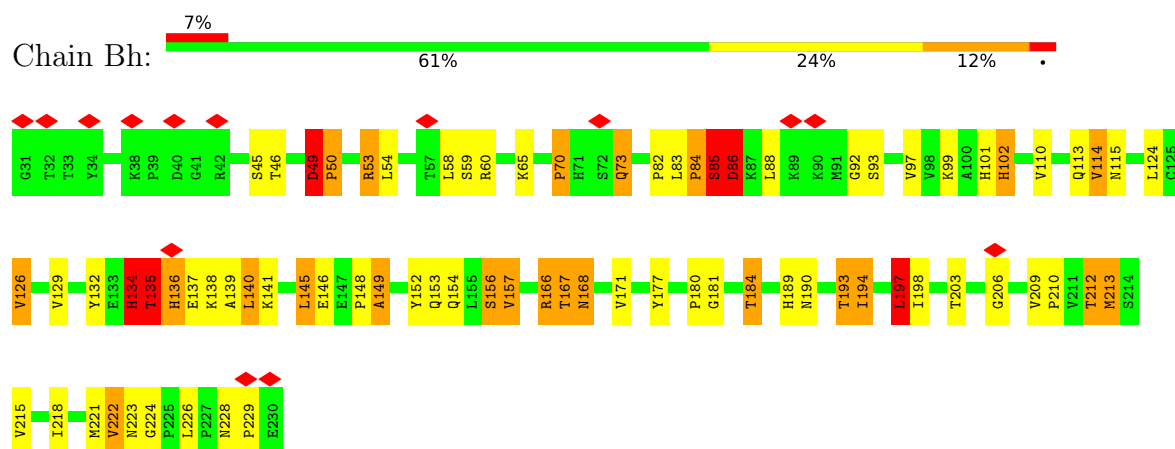
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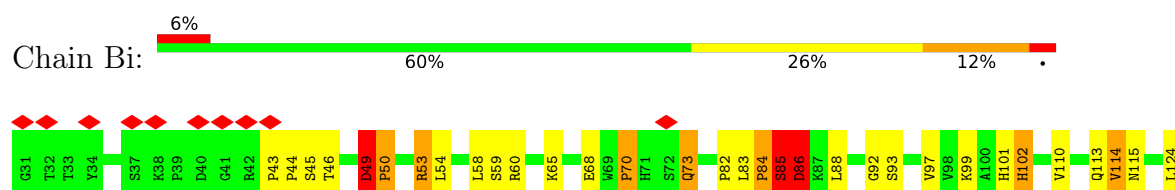
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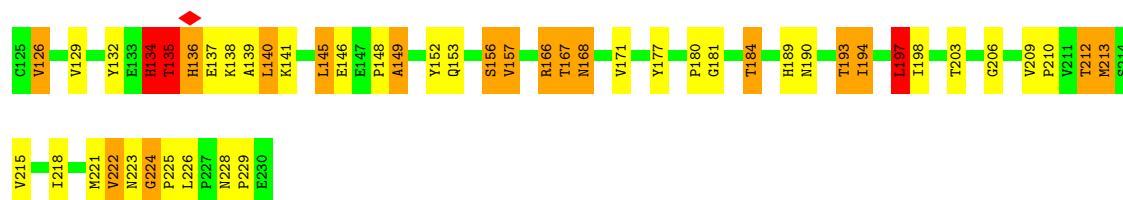


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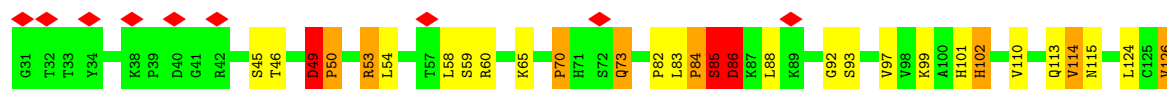


- Molecule 2: P1

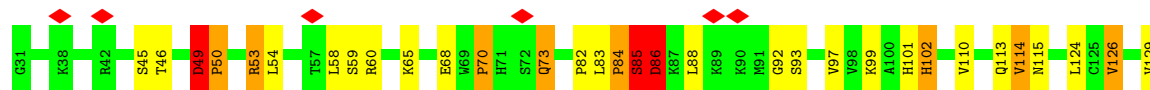




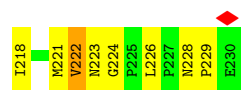
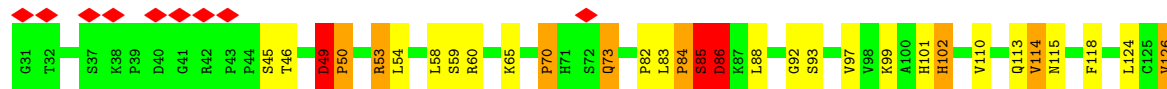
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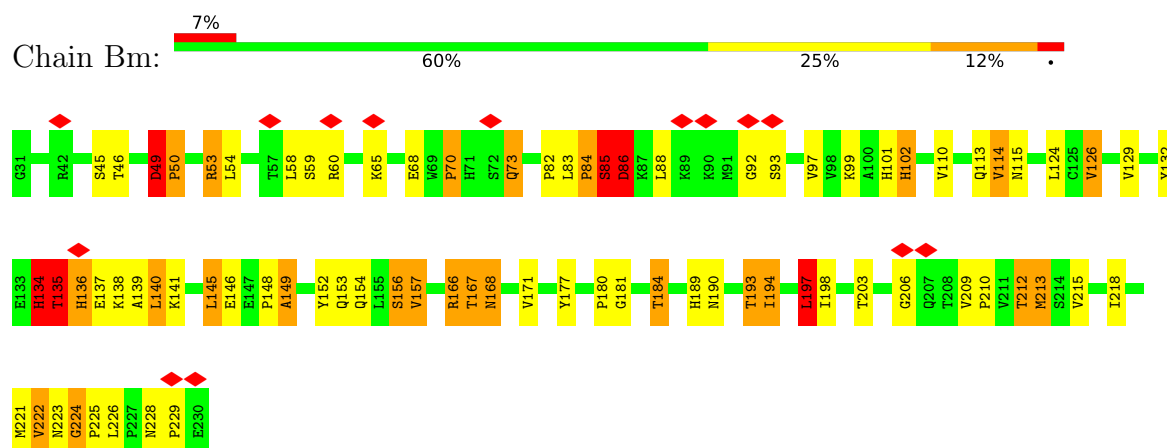
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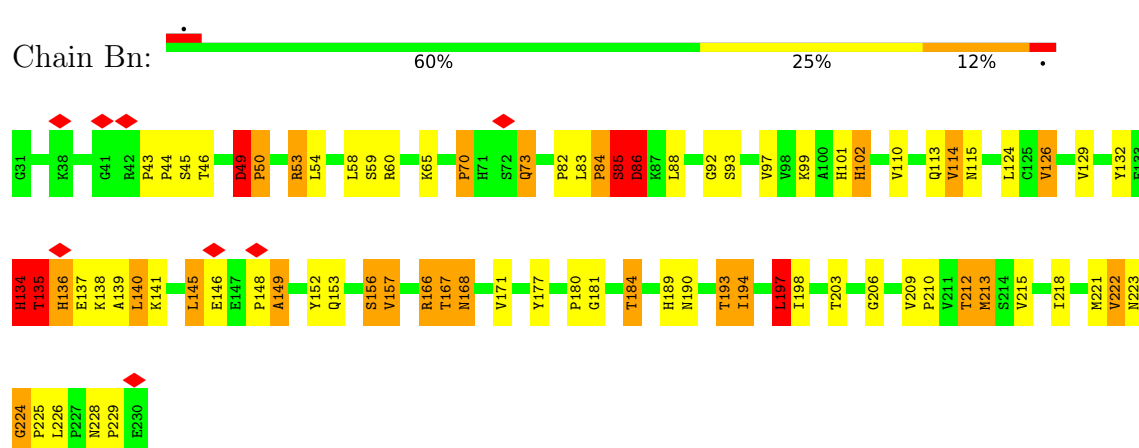
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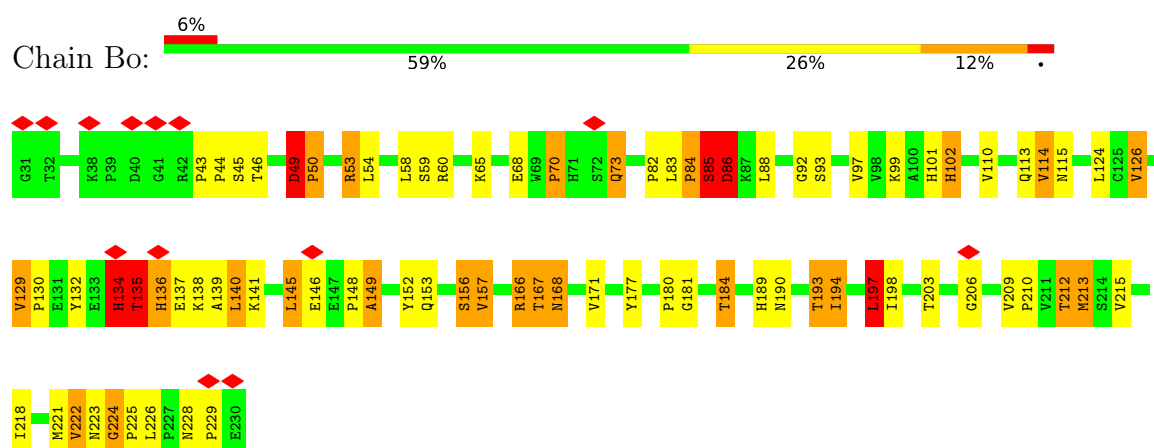
- Molecule 2: P1



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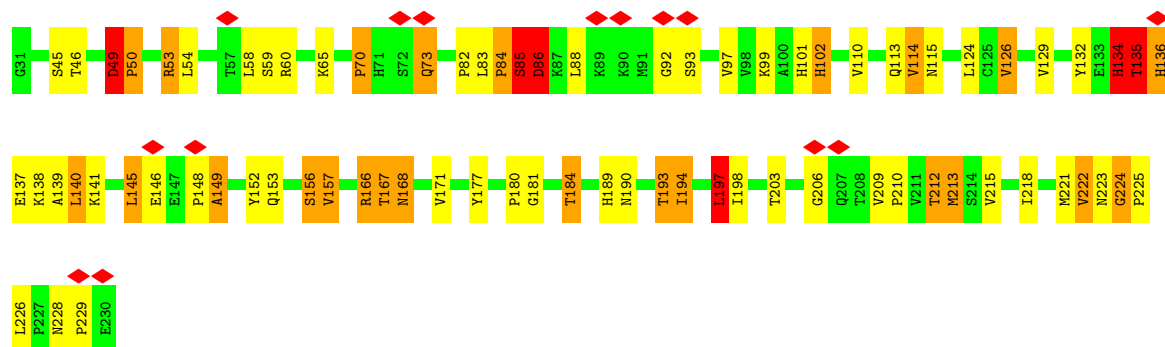


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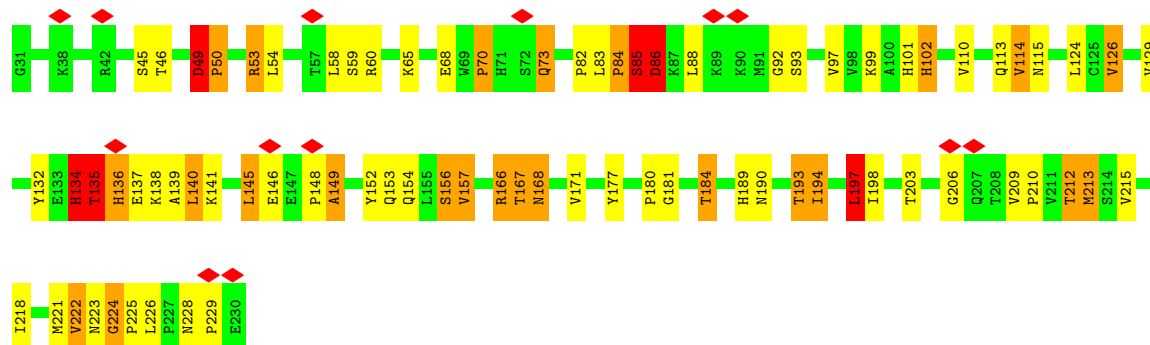


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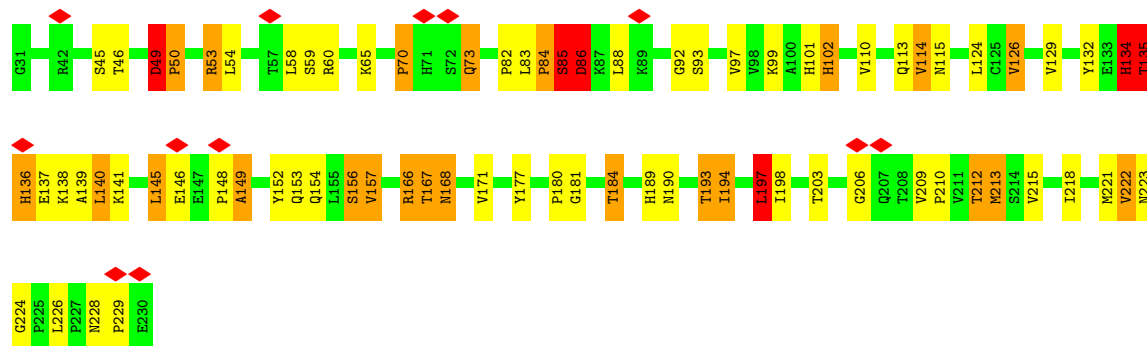




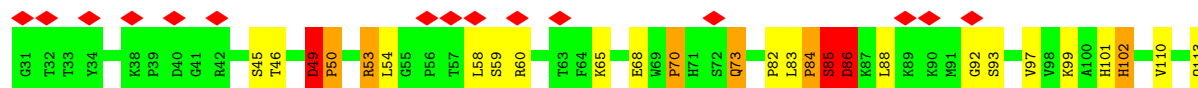
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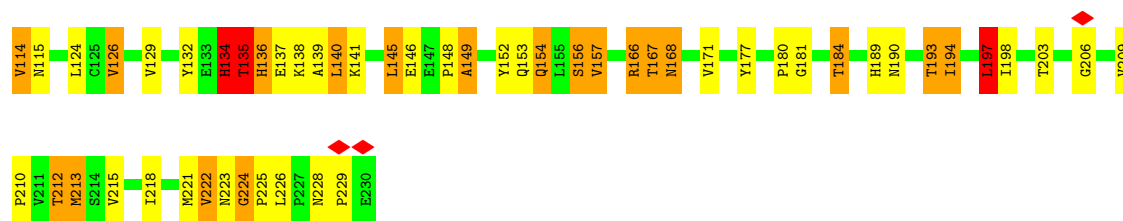


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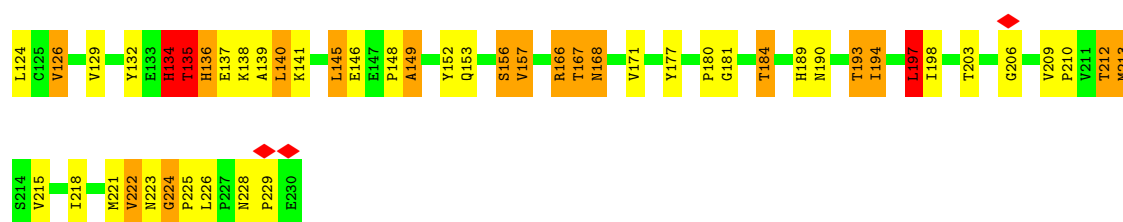
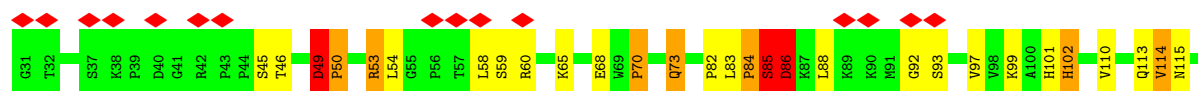


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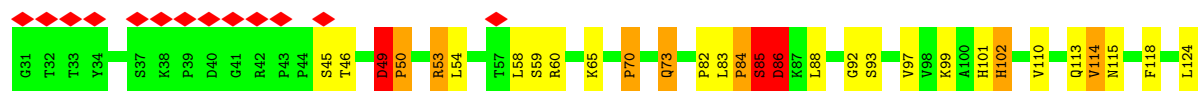




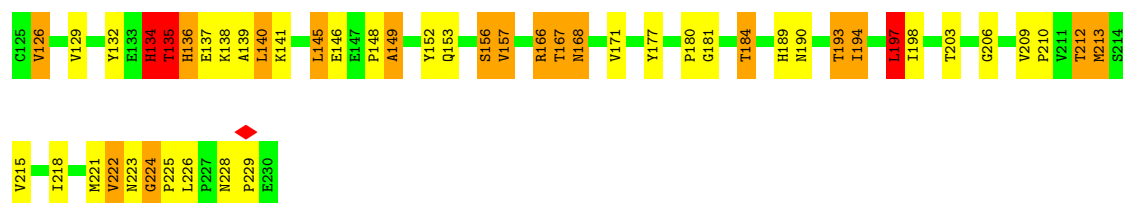
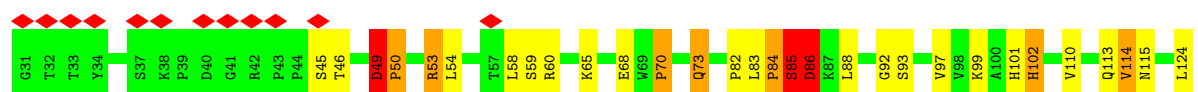
• Molecule 2: P1



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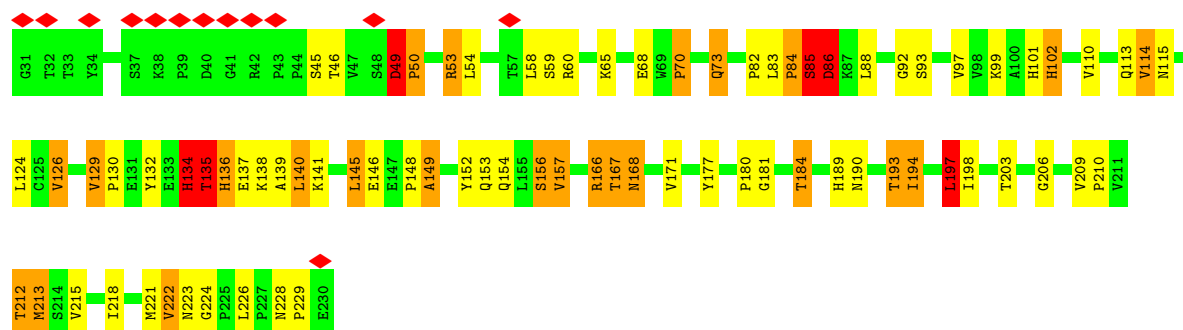


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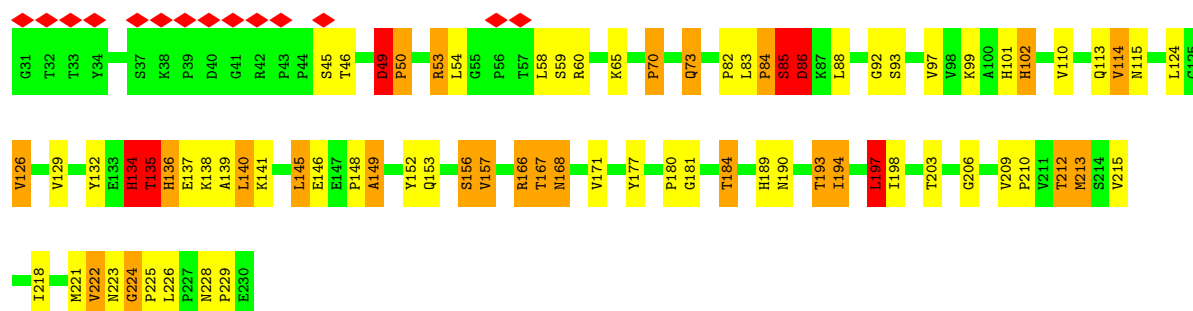
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Chain Bw: 



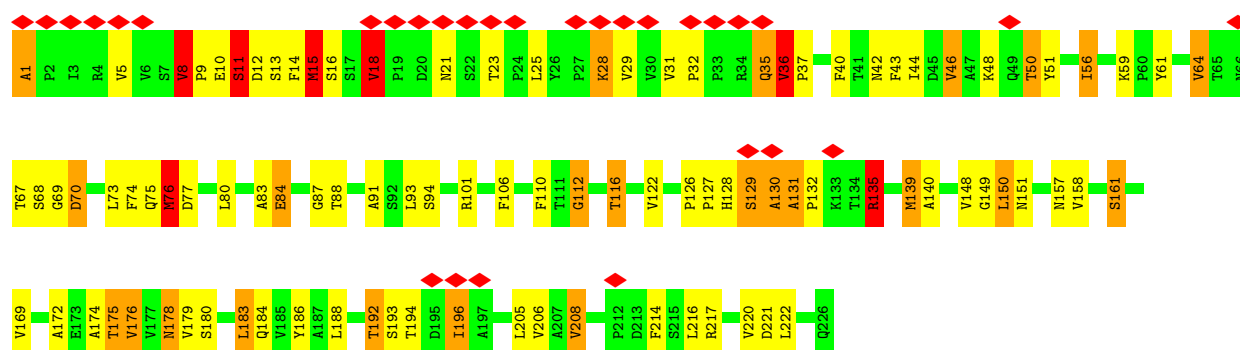
- Molecule 2: P1

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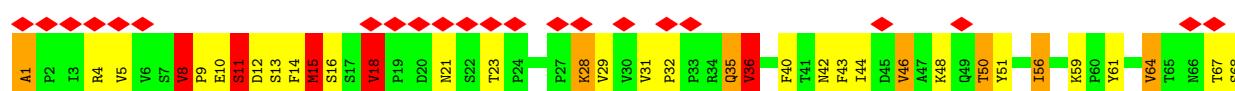
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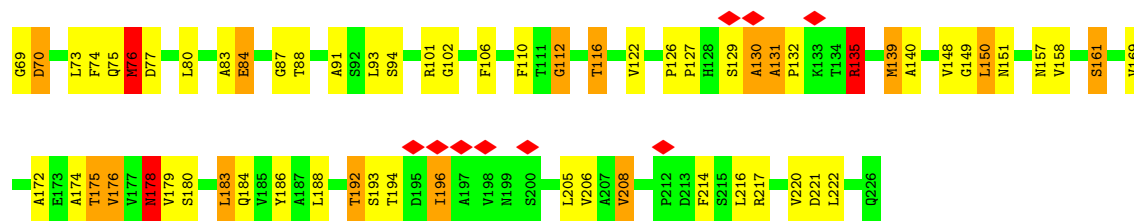
Chain CA: 



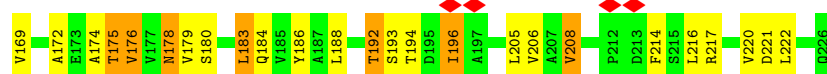
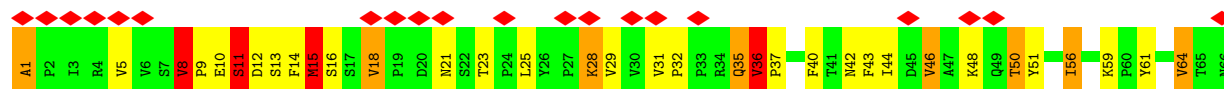
- Molecule 3: P1

Chain CB: 

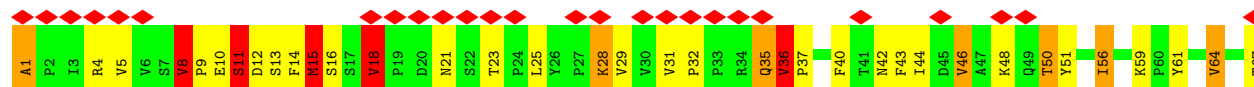




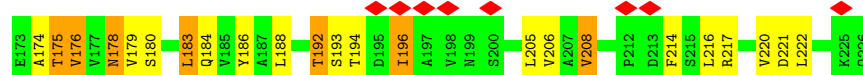
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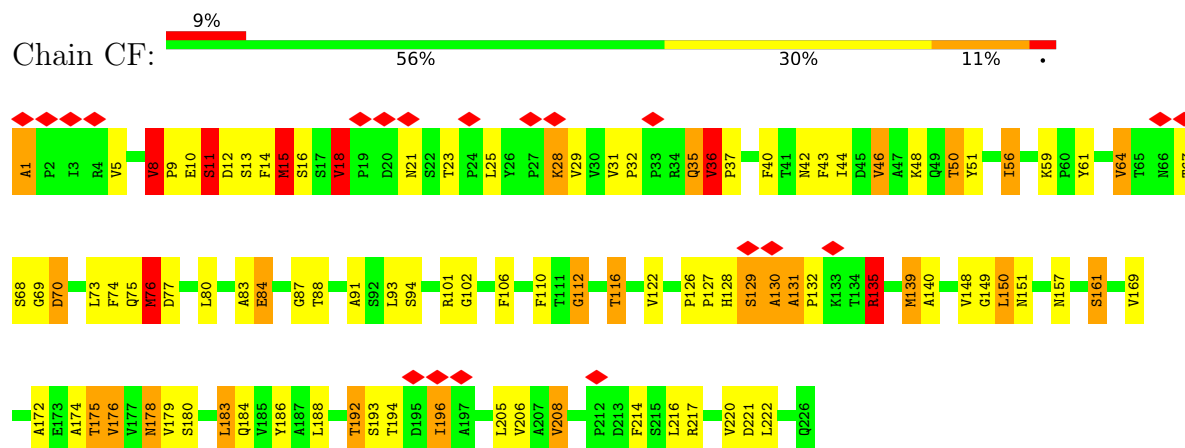
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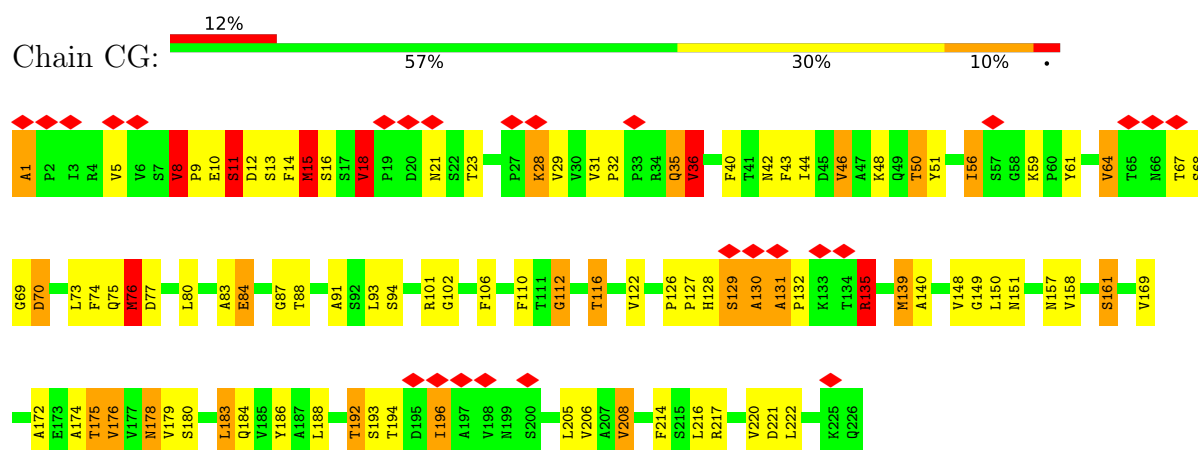
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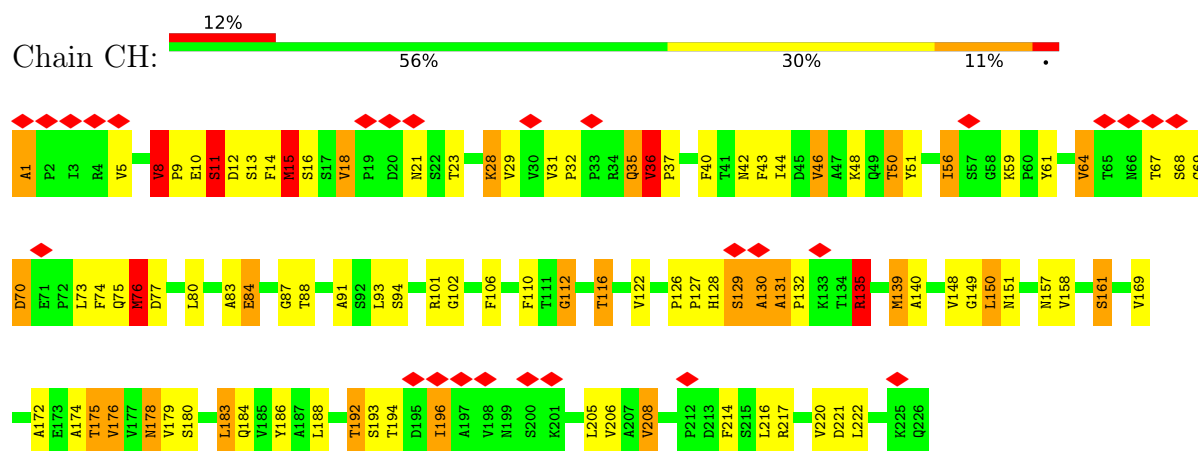
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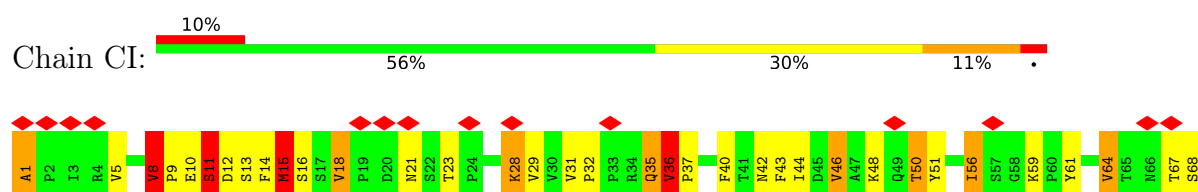
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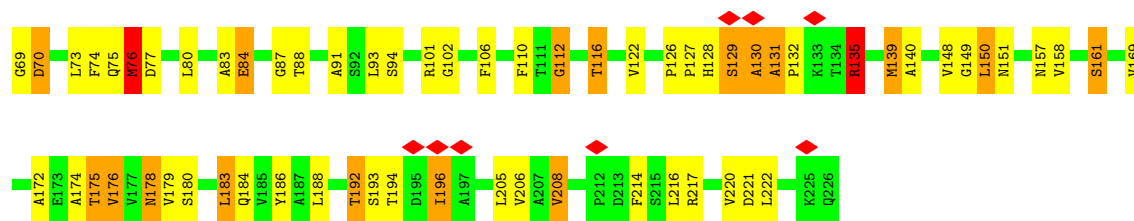


- Molecule 3: P1

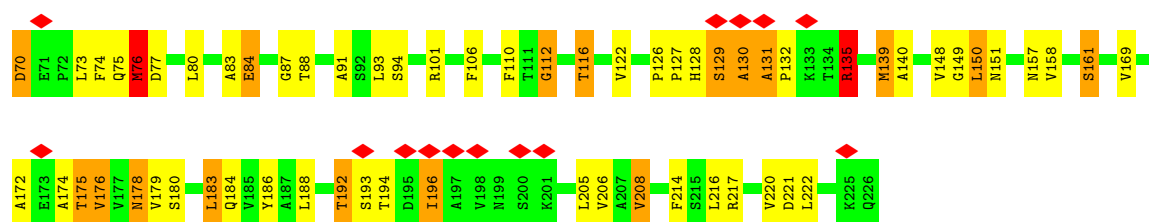
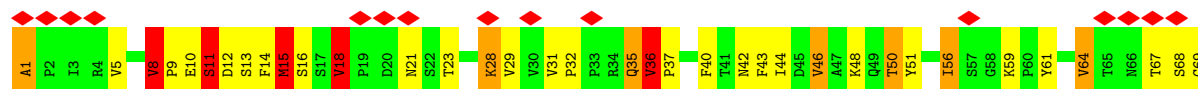


- Molecule 3: P1

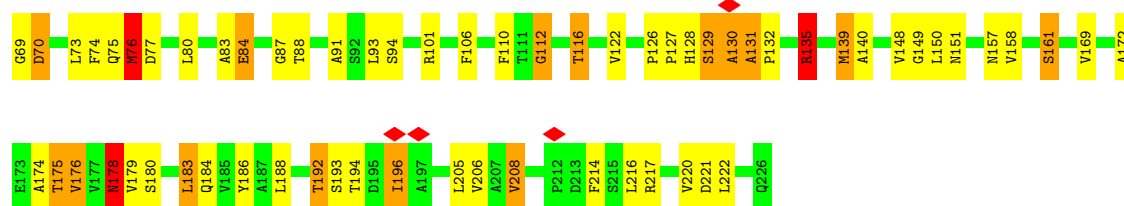
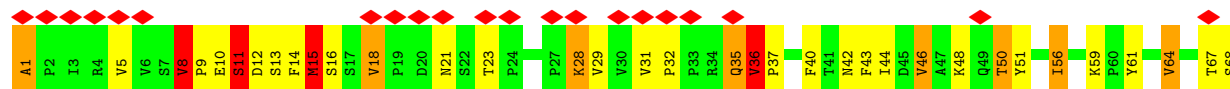




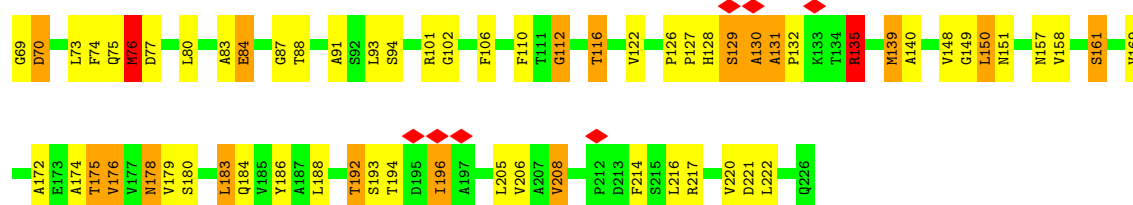
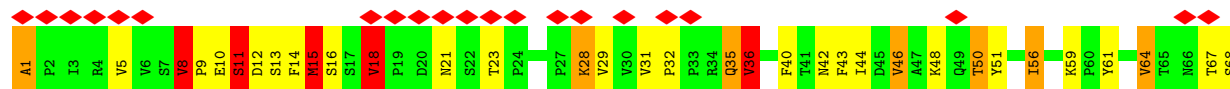
• Molecule 3: P1



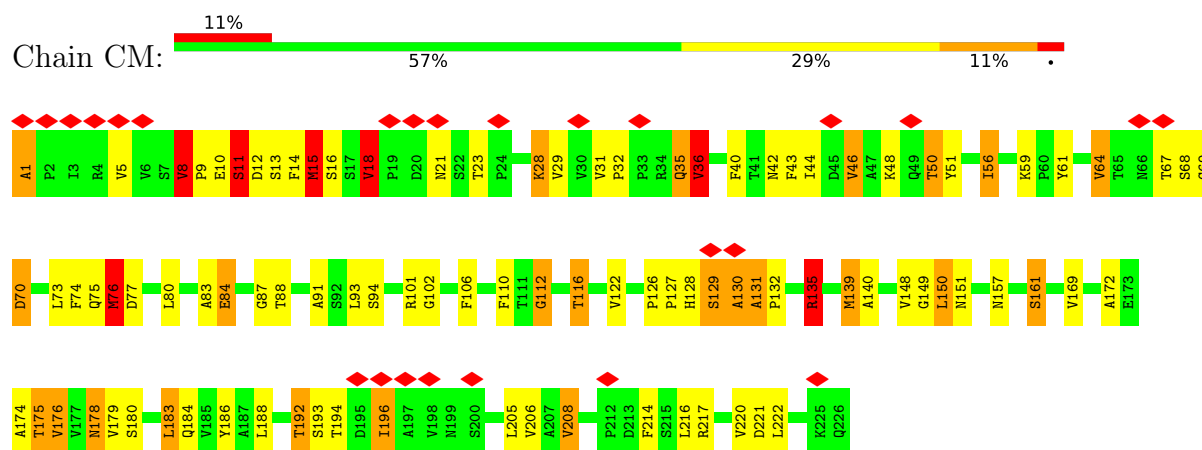
• Molecule 3: P1



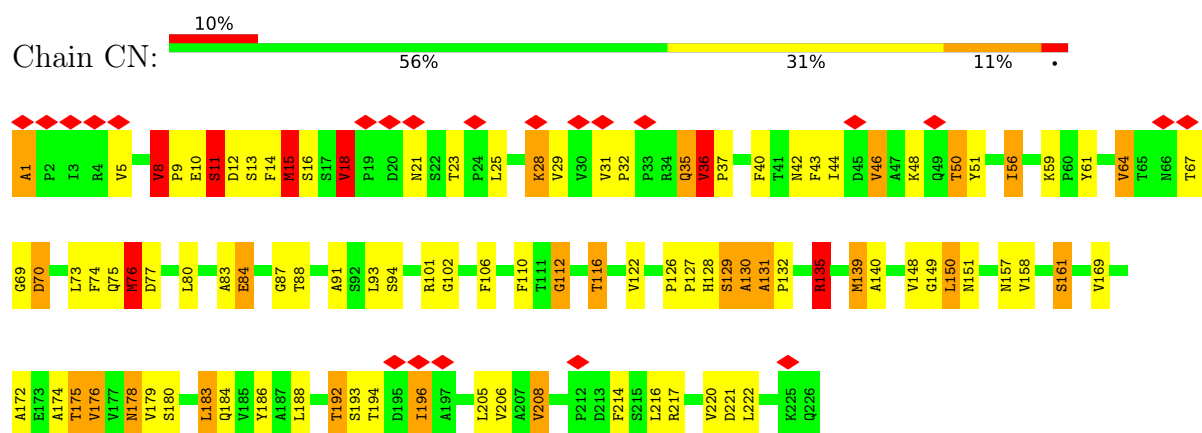
• Molecule 3: P1



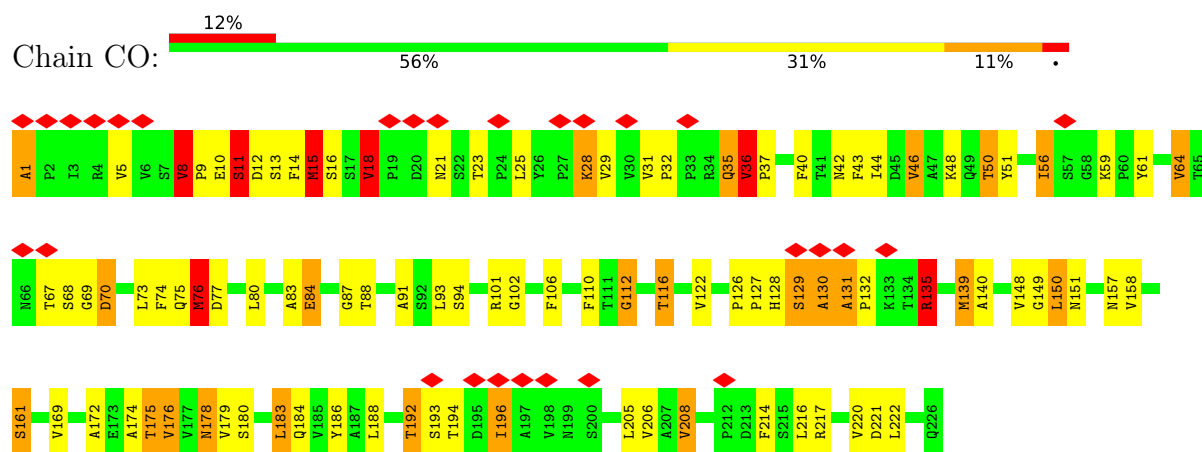
- Molecule 3: P1



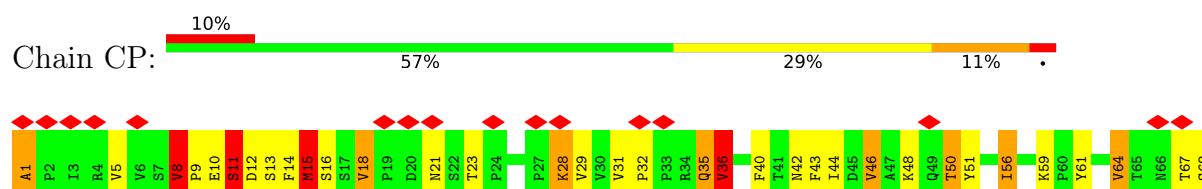
- Molecule 3: P1

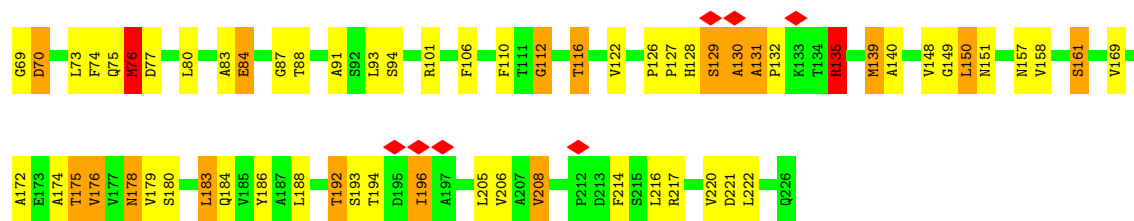


- Molecule 3: P1

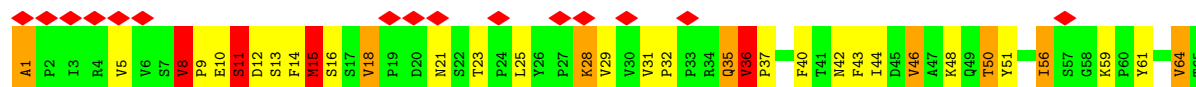


- Molecule 3: P1

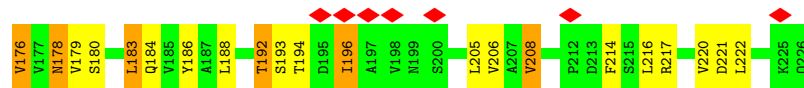
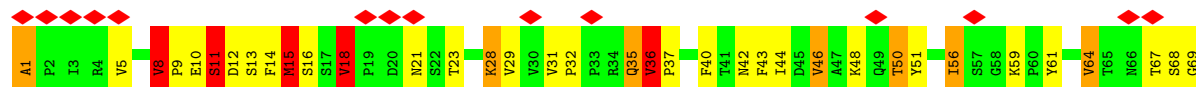




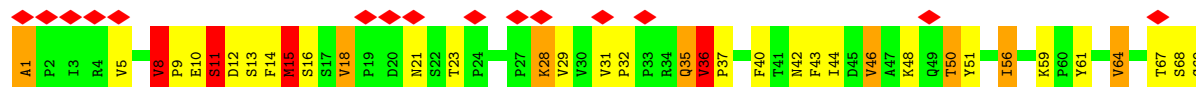
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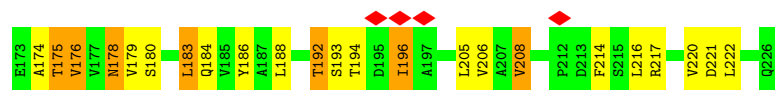


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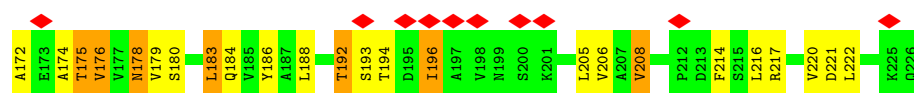
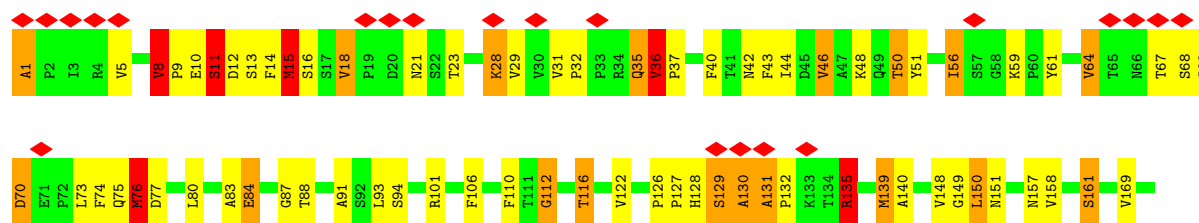


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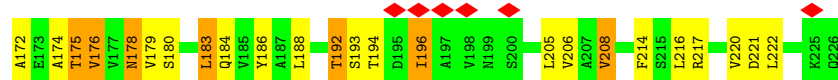
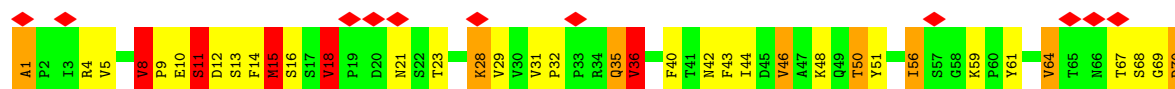




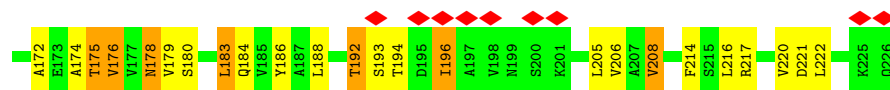
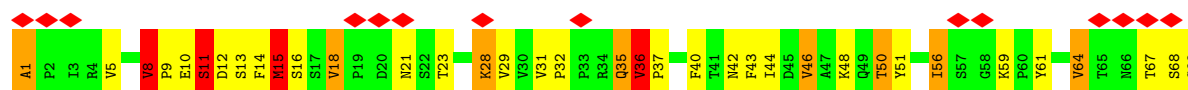
• Molecule 3: P1



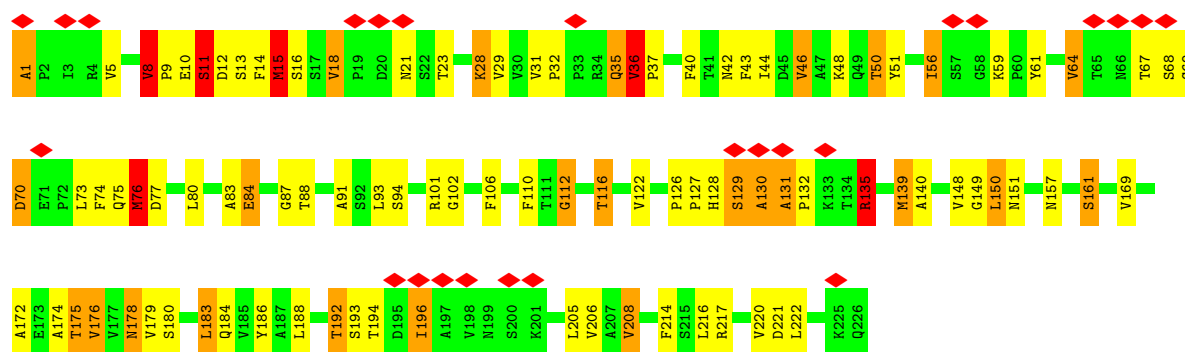
• Molecule 3: P1



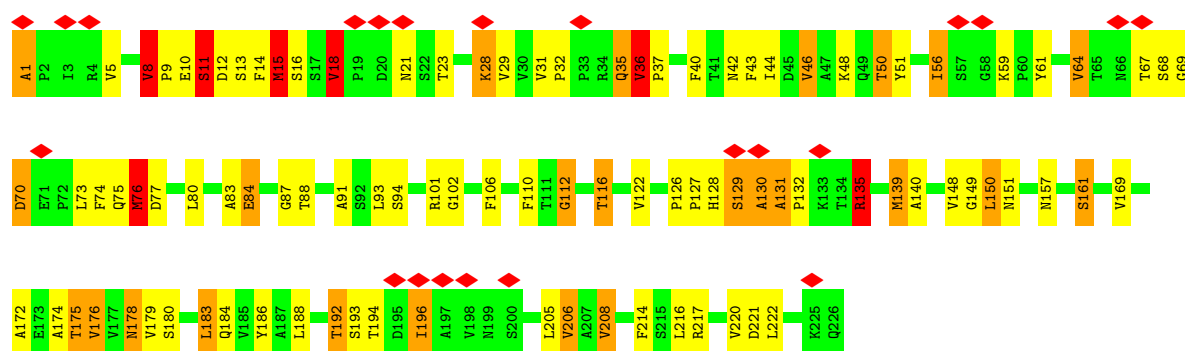
• Molecule 3: P1



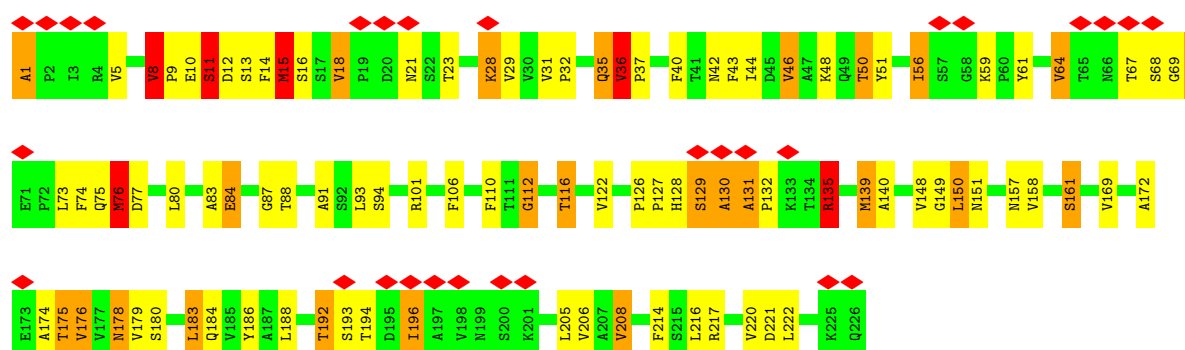
• Molecule 3: P1



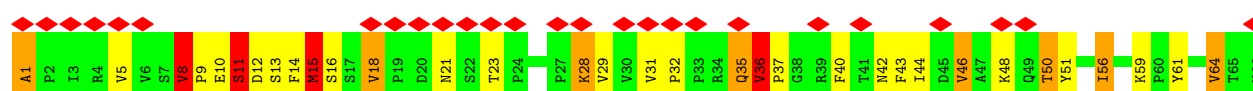
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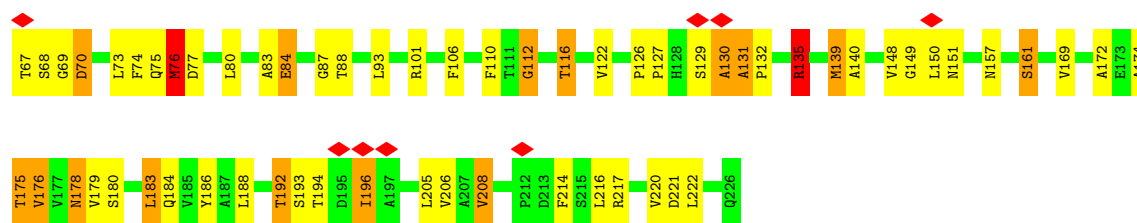


• Molecule 3: P1

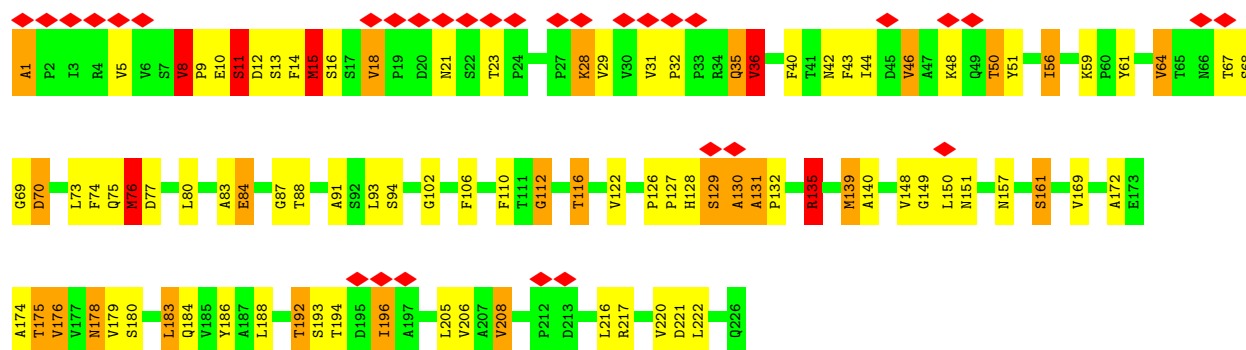


• Molecule 3: P1

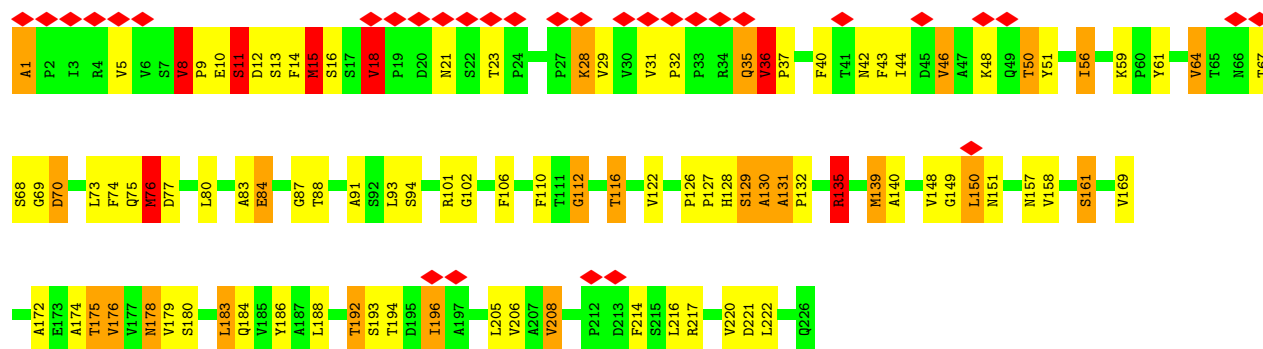




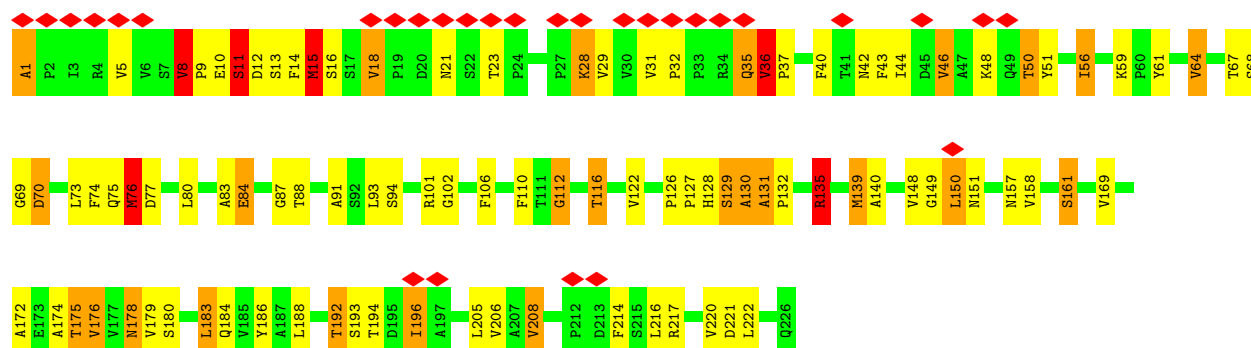
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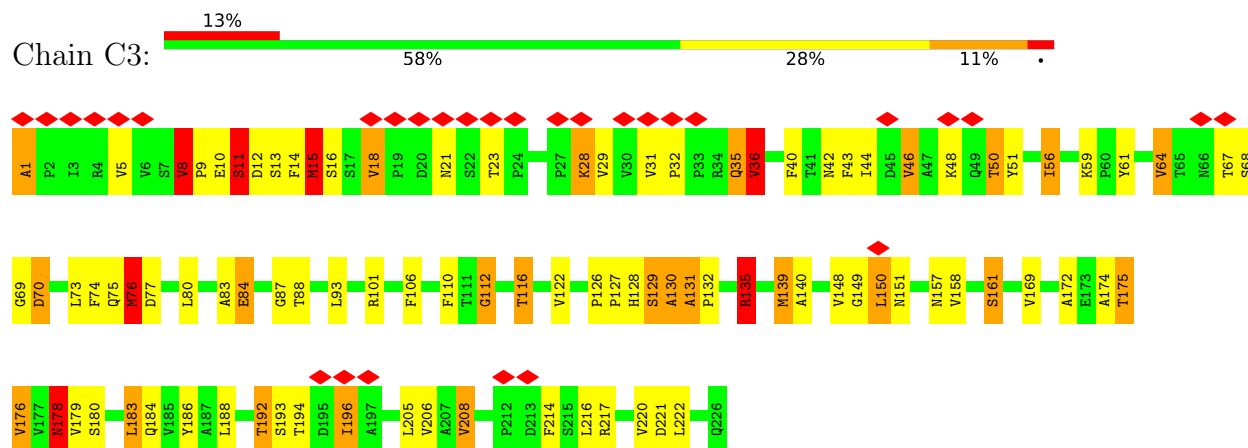
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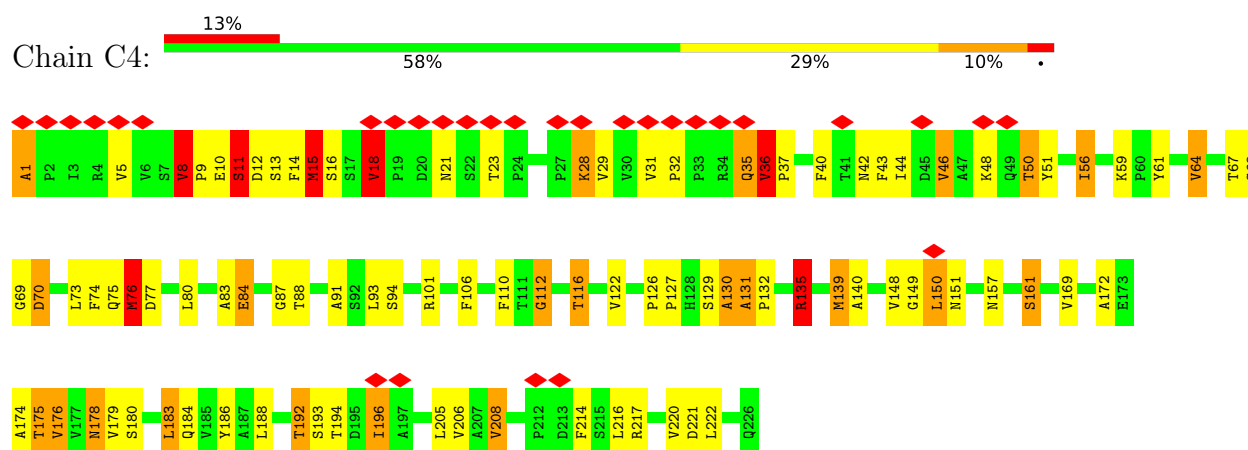
• Molecule 3: P1



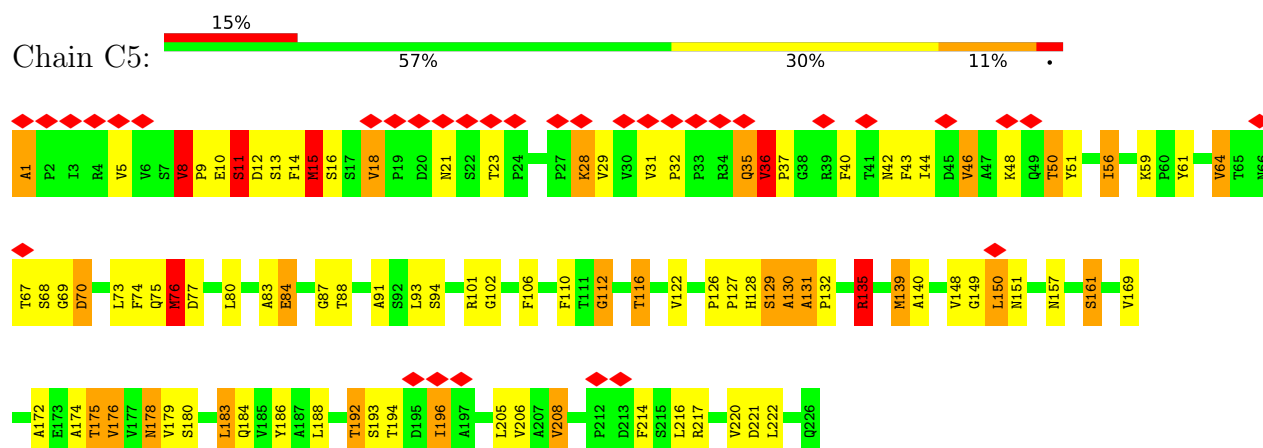
• Molecule 3: P1



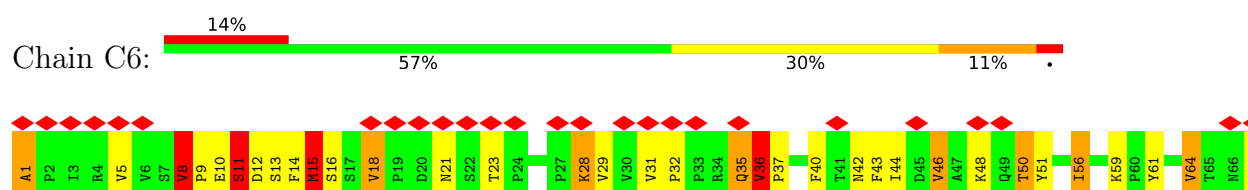
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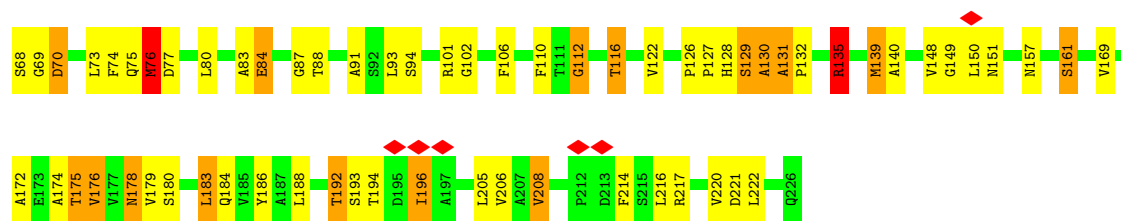


• Molecule 3: P1

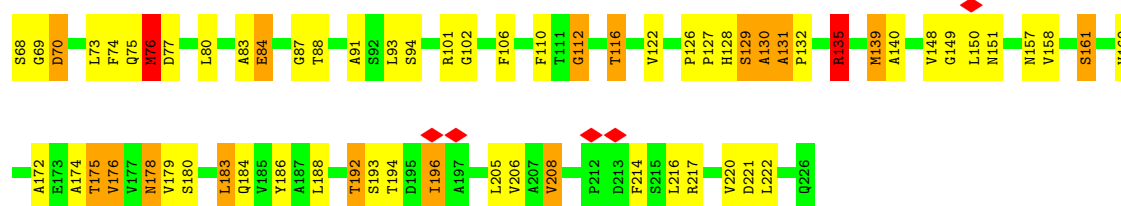
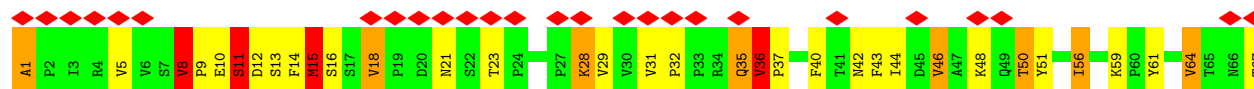


• Molecule 3: P1

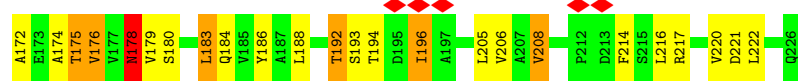
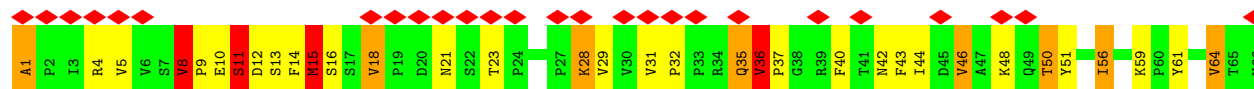




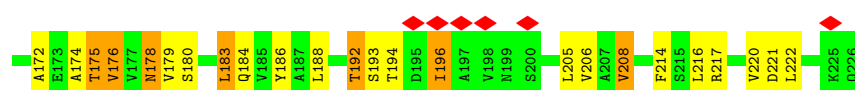
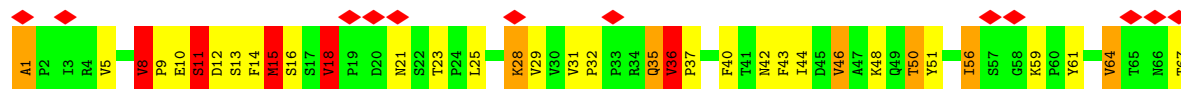
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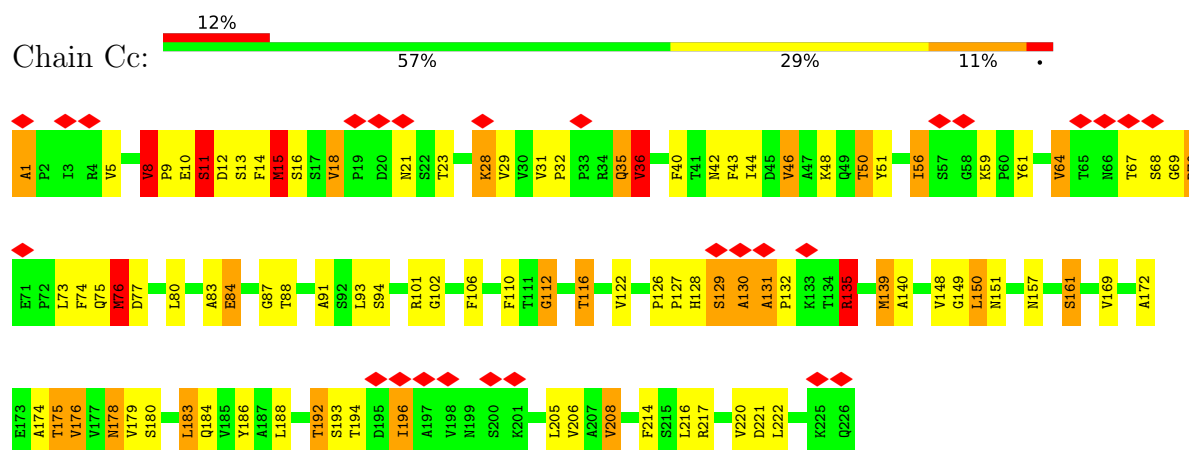
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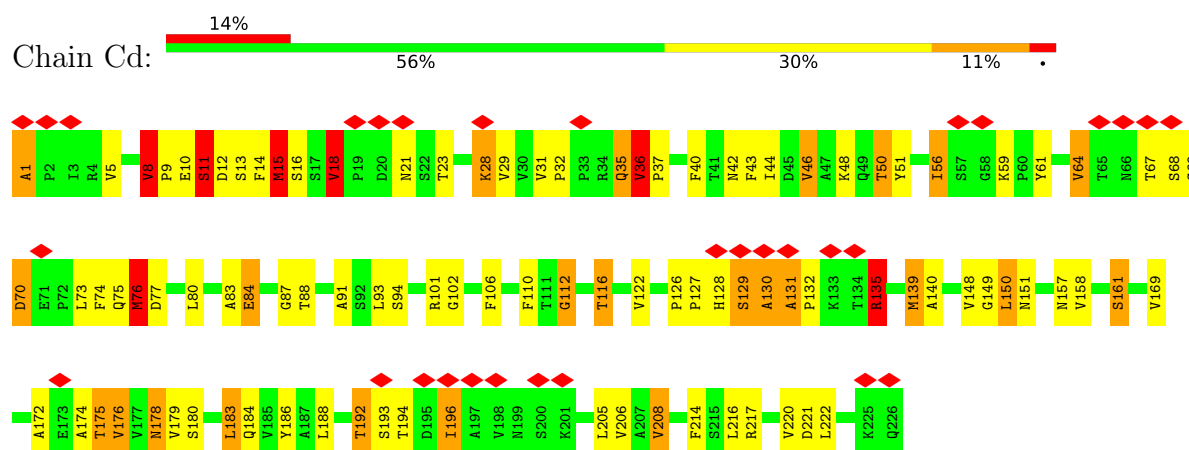
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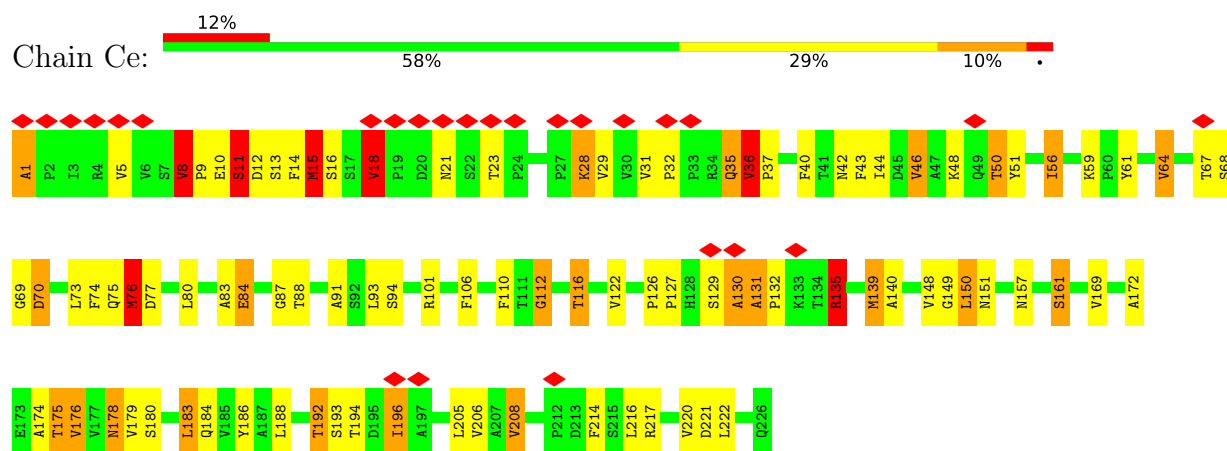
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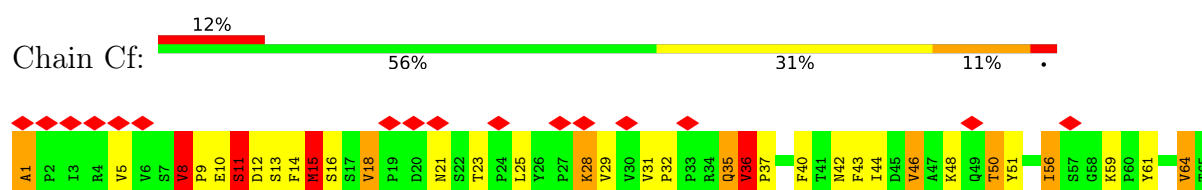
• Molecule 3: P1

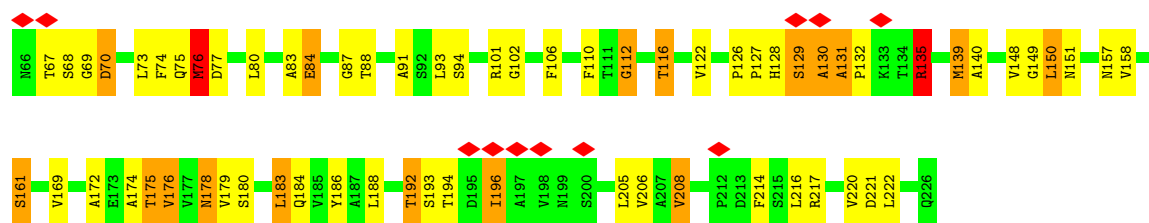


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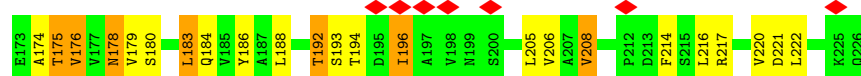
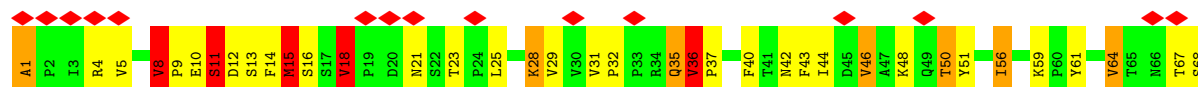


• Molecule 3: P1





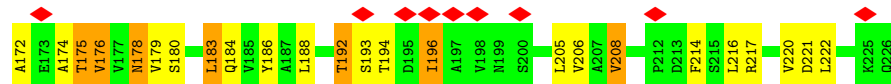
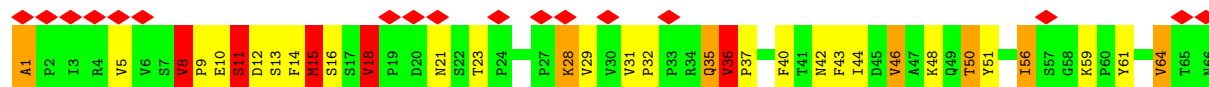
• Molecule 3: P1



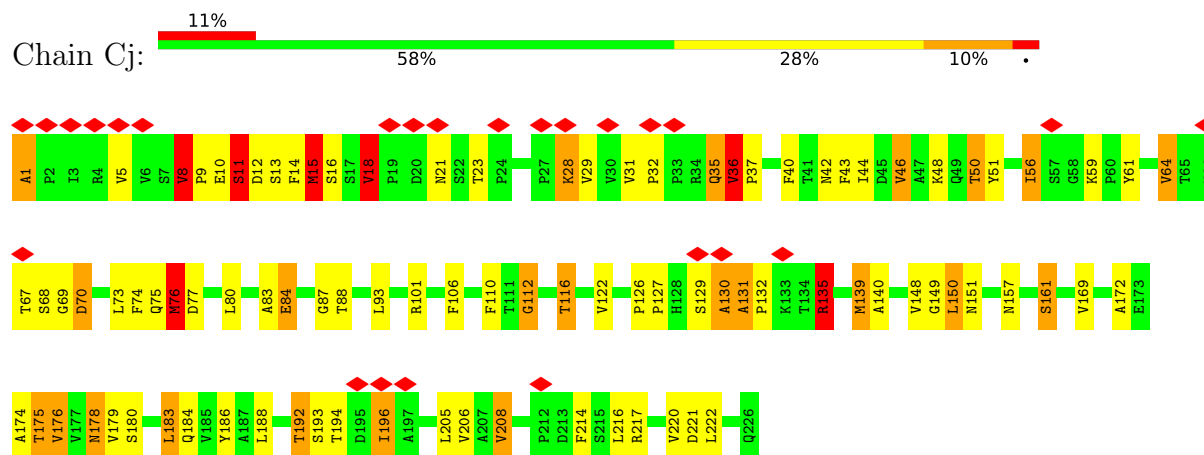
• Molecule 3: P1



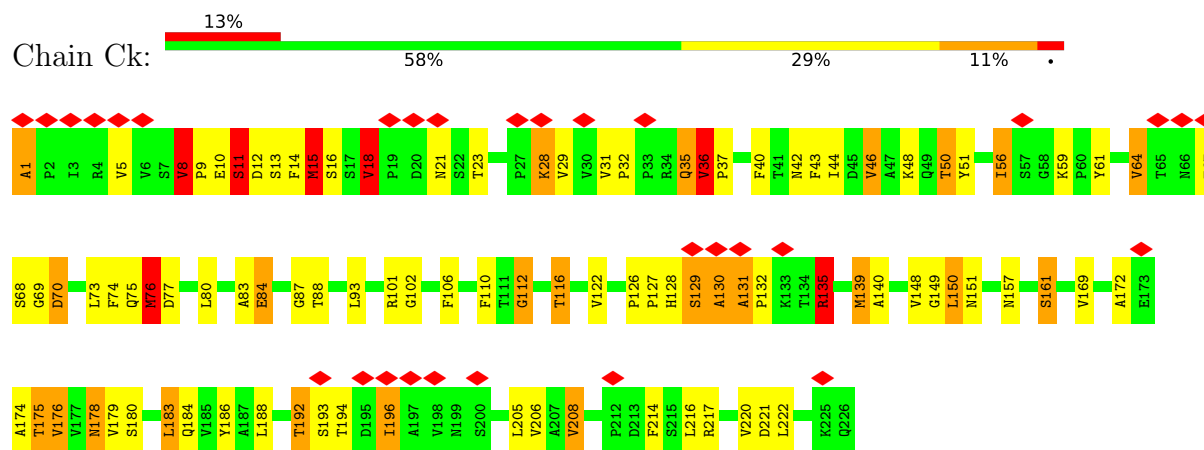
• Molecule 3: P1



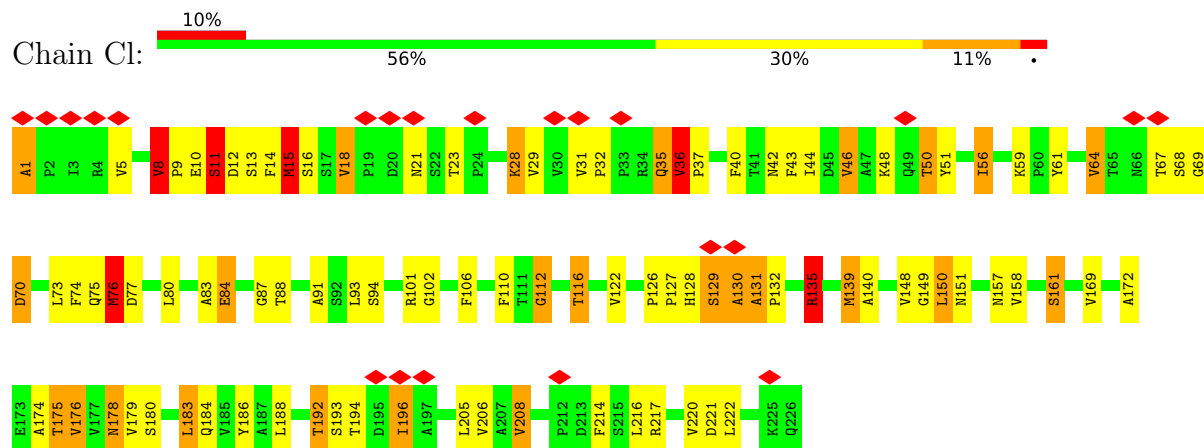
- Molecule 3: P1



- Molecule 3: P1

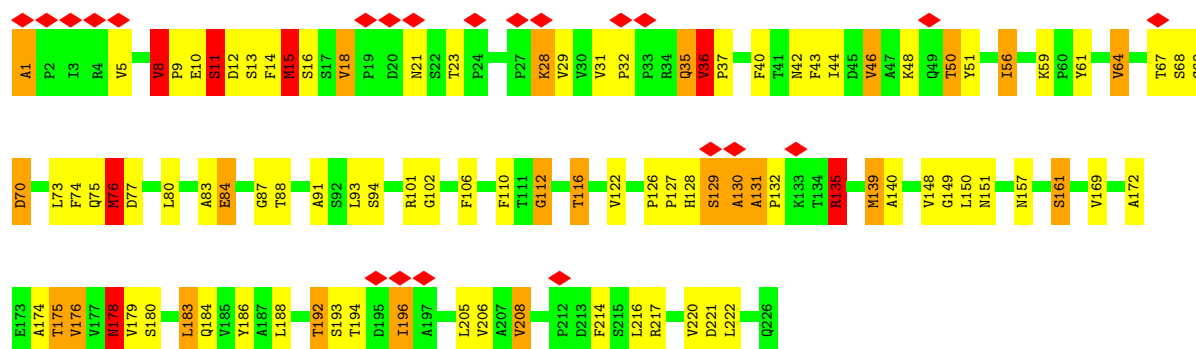


- Molecule 3: P1

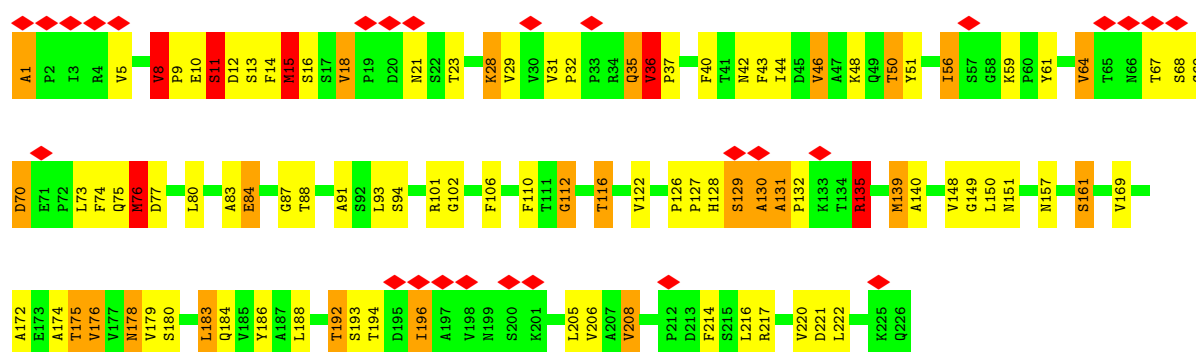


- Molecule 3: P1

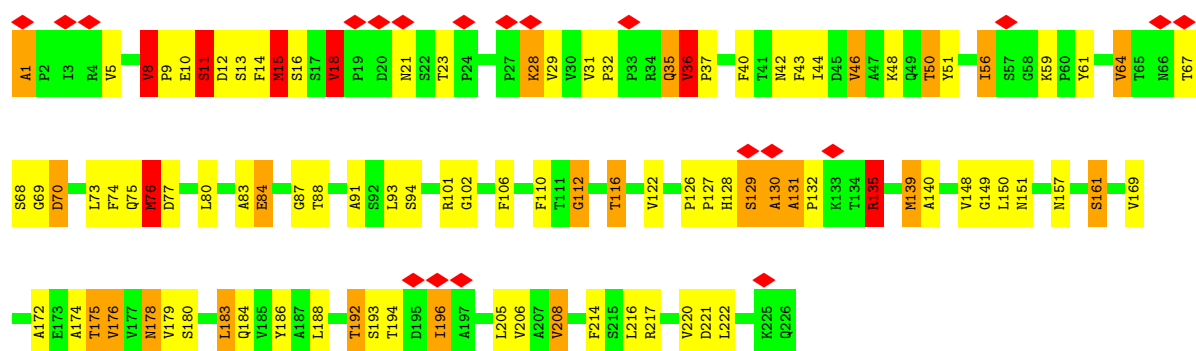




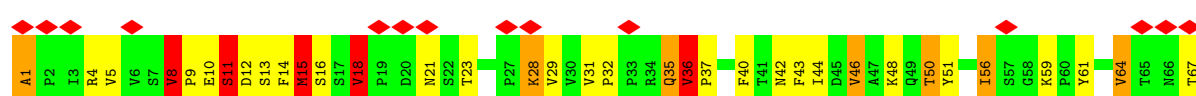
• Molecule 3: P1

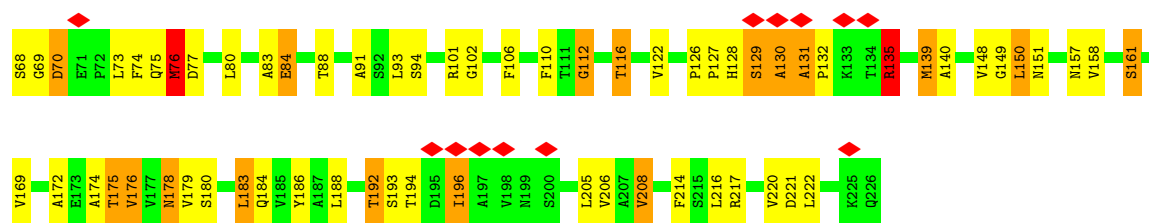


• Molecule 3: P1

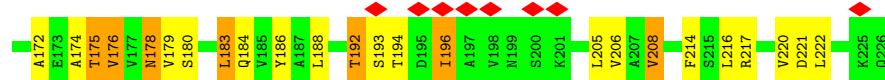
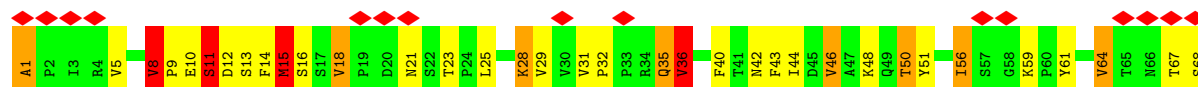


• Molecule 3: P1

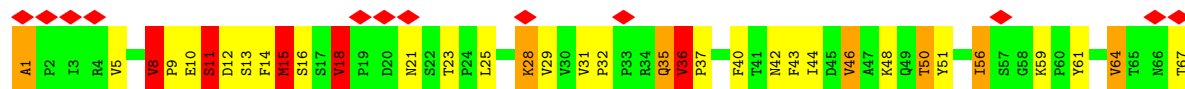




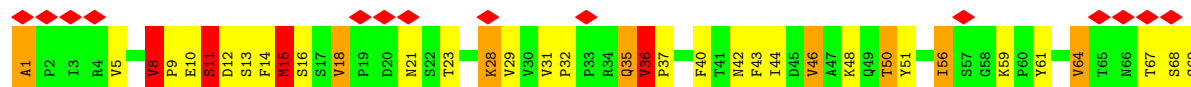
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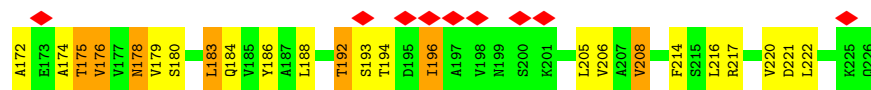


• Molecule 3: P1

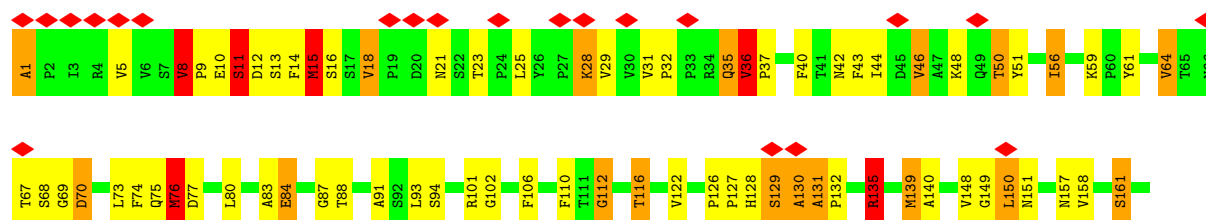


• Molecule 3: P1

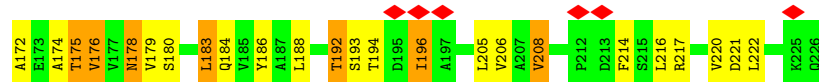




• Molecule 3: P1



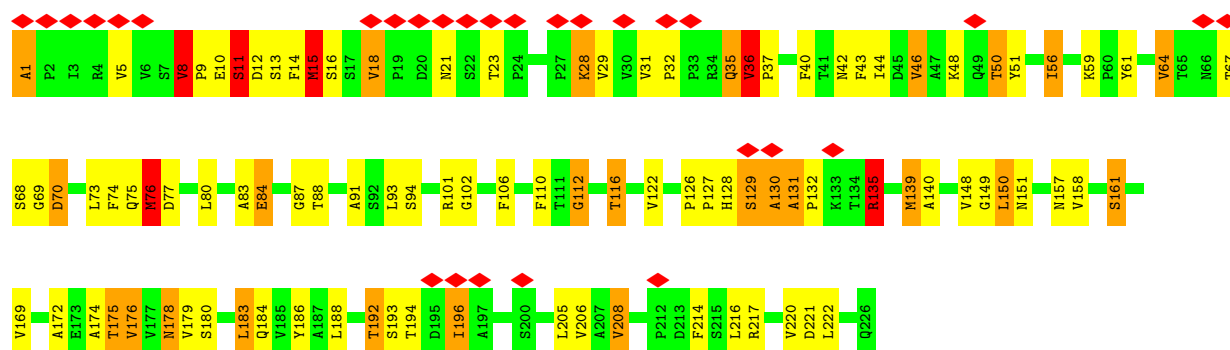
• Molecule 3: P1



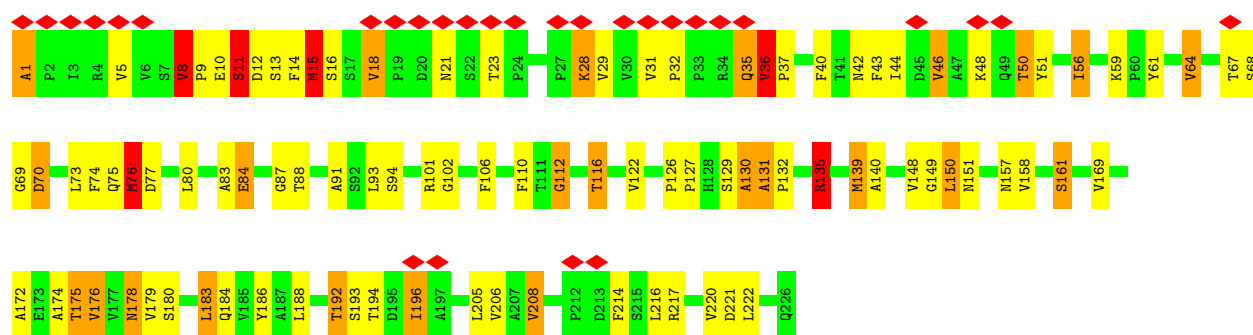
• Molecule 3: P1



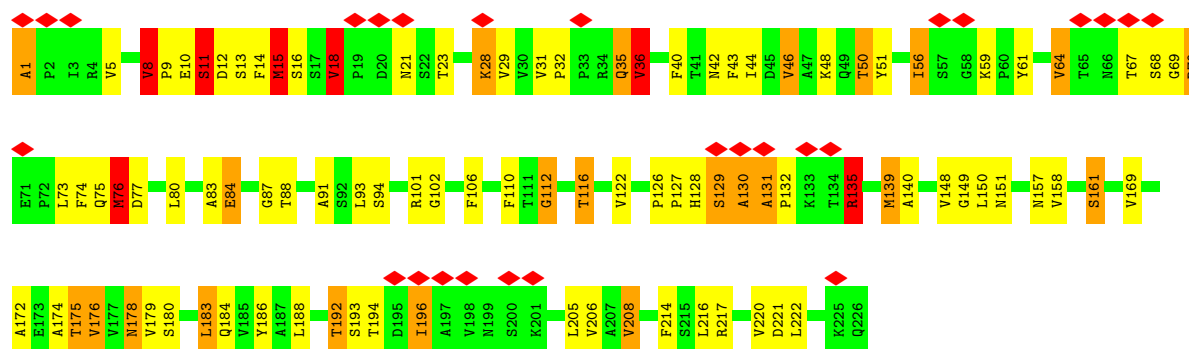
• Molecule 3: P1



• Molecule 3: P1

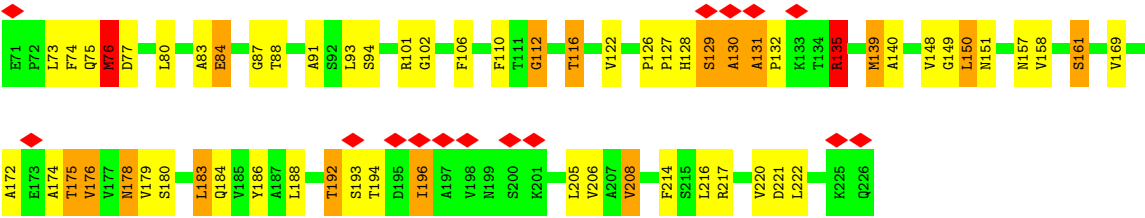


• Molecule 3: P1



• Molecule 3: P1





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	227	Depositor
Resolution determination method	Not provided	
CTF correction method	PHASE FLIPPING, EACH PARTICLE	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	15	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	87209	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	5.000	Depositor
Minimum map value	-3.303	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.982	Depositor
Recommended contour level	1	Depositor
Map size ($\text{\AA}$)	412.80002, 412.80002, 412.80002	wwPDB
Map dimensions	240, 240, 240	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.72, 1.72, 1.72	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A0	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	A1	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	A2	1.00	5/1992 (0.3%)	1.61	54/2721 (2.0%)
1	A3	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	A4	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	A5	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	A6	1.01	5/1992 (0.3%)	1.61	54/2721 (2.0%)
1	A7	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	A8	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	A9	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AA	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AB	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AC	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AD	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	AE	1.00	4/1992 (0.2%)	1.62	55/2721 (2.0%)
1	AF	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AG	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	AH	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AI	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	AJ	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AK	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AL	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AM	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AN	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	AO	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AP	1.00	5/1992 (0.3%)	1.62	54/2721 (2.0%)
1	AQ	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AR	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AS	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	AT	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AU	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AV	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	AW	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AX	1.00	4/1992 (0.2%)	1.61	55/2721 (2.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AY	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	AZ	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	Aa	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	Ab	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	Ac	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	Ad	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	Ae	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	Af	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	Ag	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	Ah	1.00	4/1992 (0.2%)	1.61	54/2721 (2.0%)
1	Ai	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	Aj	1.00	3/1992 (0.2%)	1.62	54/2721 (2.0%)
1	Ak	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	Al	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	Am	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	An	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	Ao	1.00	3/1992 (0.2%)	1.62	54/2721 (2.0%)
1	DC	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	DD	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	DE	1.00	4/1992 (0.2%)	1.61	53/2721 (1.9%)
1	DF	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	DG	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	DH	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	DI	1.00	4/1992 (0.2%)	1.62	53/2721 (1.9%)
1	DJ	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
1	DK	1.00	4/1992 (0.2%)	1.62	54/2721 (2.0%)
2	B0	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	B1	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	B2	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	B3	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	B4	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	B5	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	B6	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	B7	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	B8	0.96	1/1607 (0.1%)	1.38	23/2208 (1.0%)
2	B9	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BA	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	BB	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BC	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BD	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BE	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BF	0.95	1/1607 (0.1%)	1.38	23/2208 (1.0%)
2	BG	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	BH	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BI	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	BJ	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BK	0.96	1/1607 (0.1%)	1.38	23/2208 (1.0%)
2	BL	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BM	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BN	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BO	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BP	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BQ	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BR	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BS	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	BT	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BU	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	BV	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	BW	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BX	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BY	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	BZ	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Ba	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bb	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bc	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bd	0.96	1/1607 (0.1%)	1.38	23/2208 (1.0%)
2	Be	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	Bf	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bg	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bh	0.96	1/1607 (0.1%)	1.37	23/2208 (1.0%)
2	Bi	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bj	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bk	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bl	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bm	0.96	1/1607 (0.1%)	1.37	23/2208 (1.0%)
2	Bn	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bo	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bp	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bq	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	Br	0.96	1/1607 (0.1%)	1.37	23/2208 (1.0%)
2	Bs	0.96	1/1607 (0.1%)	1.38	23/2208 (1.0%)
2	Bt	0.96	1/1607 (0.1%)	1.38	22/2208 (1.0%)
2	Bu	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bv	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)
2	Bw	0.96	1/1607 (0.1%)	1.37	23/2208 (1.0%)
2	Bx	0.96	1/1607 (0.1%)	1.37	22/2208 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	C0	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	C1	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	C2	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	C3	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	C4	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	C5	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	C6	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	C7	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	C8	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	C9	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	CA	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	CB	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	CC	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CD	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CE	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CF	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	CG	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	CH	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	CI	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CJ	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CK	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CL	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CM	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	CN	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CO	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CP	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CQ	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	CR	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	CS	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CT	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CU	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CV	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	CW	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CX	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	CY	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	CZ	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Cc	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Cd	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Ce	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Cf	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Cg	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Ch	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Ci	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	Cj	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Ck	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	Cl	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	Cm	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Cn	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	Co	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Cp	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Cq	1.03	3/1768 (0.2%)	1.42	32/2420 (1.3%)
3	Cr	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Cs	1.03	3/1768 (0.2%)	1.42	34/2420 (1.4%)
3	Ct	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	Cu	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	Cv	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	Cw	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	Cx	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
3	DA	1.03	3/1768 (0.2%)	1.42	35/2420 (1.4%)
3	DB	1.03	3/1768 (0.2%)	1.42	33/2420 (1.4%)
All	All	1.00	481/322020 (0.1%)	1.48	6565/440940 (1.5%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A0	0	1
1	A1	0	1
1	A2	0	1
1	A3	0	1
1	A4	0	1
1	A5	0	1
1	A6	0	1
1	A7	0	1
1	A8	0	1
1	A9	0	1
1	AA	0	1
1	AB	0	1
1	AC	0	1
1	AD	0	1
1	AE	0	1
1	AF	0	1
1	AG	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	AH	0	1
1	AI	0	1
1	AJ	0	1
1	AK	0	1
1	AL	0	1
1	AM	0	1
1	AN	0	1
1	AO	0	1
1	AP	0	1
1	AQ	0	1
1	AR	0	1
1	AS	0	1
1	AT	0	1
1	AU	0	1
1	AV	0	1
1	AW	0	1
1	AX	0	1
1	AY	0	1
1	AZ	0	1
1	Aa	0	1
1	Ab	0	1
1	Ac	0	1
1	Ad	0	1
1	Ae	0	1
1	Af	0	1
1	Ag	0	1
1	Ah	0	1
1	Ai	0	1
1	Aj	0	1
1	Ak	0	1
1	Al	0	1
1	Am	0	1
1	An	0	1
1	Ao	0	1
1	DC	0	1
1	DD	0	1
1	DE	0	1
1	DF	0	1
1	DG	0	1
1	DH	0	1
1	DI	0	1
1	DJ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	DK	0	1
2	B0	0	2
2	B1	0	2
2	B2	0	2
2	B3	0	2
2	B4	0	2
2	B5	0	2
2	B6	0	2
2	B7	0	2
2	B8	0	2
2	B9	0	2
2	BA	0	2
2	BB	0	2
2	BC	0	2
2	BD	0	2
2	BE	0	2
2	BF	0	2
2	BG	0	2
2	BH	0	2
2	BI	0	2
2	BJ	0	2
2	BK	0	2
2	BL	0	2
2	BM	0	2
2	BN	0	2
2	BO	0	2
2	BP	0	2
2	BQ	0	2
2	BR	0	2
2	BS	0	2
2	BT	0	2
2	BU	0	2
2	BV	0	2
2	BW	0	2
2	BX	0	2
2	BY	0	2
2	BZ	0	2
2	Ba	0	2
2	Bb	0	2
2	Bc	0	2
2	Bd	0	2
2	Be	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	Bf	0	2
2	Bg	0	2
2	Bh	0	2
2	Bi	0	2
2	Bj	0	2
2	Bk	0	2
2	Bl	0	2
2	Bm	0	2
2	Bn	0	2
2	Bo	0	2
2	Bp	0	2
2	Bq	0	2
2	Br	0	2
2	Bs	0	2
2	Bt	0	2
2	Bu	0	2
2	Bv	0	2
2	Bw	0	2
2	Bx	0	2
All	All	0	180

All (481) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C7	76	MET	SD-CE	-9.16	1.56	1.79
3	Cm	76	MET	SD-CE	-9.15	1.56	1.79
3	Cr	76	MET	SD-CE	-9.14	1.56	1.79
3	Ck	76	MET	SD-CE	-9.14	1.56	1.79
3	CI	76	MET	SD-CE	-9.13	1.56	1.79
3	CP	76	MET	SD-CE	-9.13	1.56	1.79
3	CZ	76	MET	SD-CE	-9.13	1.56	1.79
3	C3	76	MET	SD-CE	-9.13	1.56	1.79
3	Cx	76	MET	SD-CE	-9.13	1.56	1.79
3	CN	76	MET	SD-CE	-9.12	1.56	1.79
3	Cu	76	MET	SD-CE	-9.12	1.56	1.79
3	CD	76	MET	SD-CE	-9.12	1.56	1.79
3	CF	76	MET	SD-CE	-9.12	1.56	1.79
3	CT	76	MET	SD-CE	-9.12	1.56	1.79
3	CG	76	MET	SD-CE	-9.12	1.56	1.79
3	C2	76	MET	SD-CE	-9.12	1.56	1.79
3	Cs	76	MET	SD-CE	-9.12	1.56	1.79
3	Cw	76	MET	SD-CE	-9.12	1.56	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	CV	76	MET	SD-CE	-9.12	1.56	1.79
3	Cc	76	MET	SD-CE	-9.12	1.56	1.79
3	CQ	76	MET	SD-CE	-9.11	1.56	1.79
3	Cp	76	MET	SD-CE	-9.11	1.56	1.79
3	CL	76	MET	SD-CE	-9.11	1.56	1.79
3	C6	76	MET	SD-CE	-9.11	1.56	1.79
3	Cd	76	MET	SD-CE	-9.11	1.56	1.79
3	Ch	76	MET	SD-CE	-9.11	1.56	1.79
3	Ct	76	MET	SD-CE	-9.11	1.56	1.79
3	CX	76	MET	SD-CE	-9.10	1.56	1.79
3	Ce	76	MET	SD-CE	-9.10	1.56	1.79
3	CY	76	MET	SD-CE	-9.10	1.56	1.79
3	C5	76	MET	SD-CE	-9.10	1.56	1.79
3	CA	76	MET	SD-CE	-9.10	1.56	1.79
3	CO	76	MET	SD-CE	-9.10	1.56	1.79
3	Cq	76	MET	SD-CE	-9.10	1.56	1.79
3	C0	76	MET	SD-CE	-9.10	1.56	1.79
3	C1	76	MET	SD-CE	-9.10	1.56	1.79
3	Cg	76	MET	SD-CE	-9.10	1.56	1.79
3	CU	76	MET	SD-CE	-9.09	1.56	1.79
3	Cv	76	MET	SD-CE	-9.09	1.56	1.79
3	DA	76	MET	SD-CE	-9.09	1.56	1.79
3	CB	76	MET	SD-CE	-9.09	1.56	1.79
3	C4	76	MET	SD-CE	-9.09	1.56	1.79
3	C9	76	MET	SD-CE	-9.09	1.56	1.79
3	CC	76	MET	SD-CE	-9.09	1.56	1.79
3	CE	76	MET	SD-CE	-9.09	1.56	1.79
3	Co	76	MET	SD-CE	-9.09	1.56	1.79
3	Cj	76	MET	SD-CE	-9.08	1.56	1.79
3	CK	76	MET	SD-CE	-9.08	1.56	1.79
3	CS	76	MET	SD-CE	-9.08	1.56	1.79
3	DB	76	MET	SD-CE	-9.08	1.56	1.79
3	CM	76	MET	SD-CE	-9.08	1.56	1.79
3	C8	76	MET	SD-CE	-9.08	1.56	1.79
3	Cf	76	MET	SD-CE	-9.07	1.56	1.79
3	Cn	76	MET	SD-CE	-9.07	1.56	1.79
3	CW	76	MET	SD-CE	-9.06	1.56	1.79
3	CH	76	MET	SD-CE	-9.06	1.56	1.79
3	Ci	76	MET	SD-CE	-9.06	1.56	1.79
3	Cl	76	MET	SD-CE	-9.06	1.56	1.79
3	CR	76	MET	SD-CE	-9.05	1.56	1.79
3	CJ	76	MET	SD-CE	-9.04	1.56	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A6	163	MET	SD-CE	-8.96	1.57	1.79
1	A1	163	MET	SD-CE	-8.93	1.57	1.79
1	AR	163	MET	SD-CE	-8.92	1.57	1.79
1	DD	163	MET	SD-CE	-8.91	1.57	1.79
1	Al	163	MET	SD-CE	-8.91	1.57	1.79
1	AW	163	MET	SD-CE	-8.91	1.57	1.79
1	DE	163	MET	SD-CE	-8.91	1.57	1.79
1	A2	163	MET	SD-CE	-8.90	1.57	1.79
1	Ab	163	MET	SD-CE	-8.90	1.57	1.79
1	AN	163	MET	SD-CE	-8.90	1.57	1.79
1	AI	163	MET	SD-CE	-8.90	1.57	1.79
1	Ag	163	MET	SD-CE	-8.90	1.57	1.79
1	AX	163	MET	SD-CE	-8.90	1.57	1.79
1	An	163	MET	SD-CE	-8.89	1.57	1.79
1	AA	163	MET	SD-CE	-8.89	1.57	1.79
1	AF	163	MET	SD-CE	-8.89	1.57	1.79
1	DJ	163	MET	SD-CE	-8.88	1.57	1.79
1	AD	163	MET	SD-CE	-8.88	1.57	1.79
1	AL	163	MET	SD-CE	-8.88	1.57	1.79
1	Ac	163	MET	SD-CE	-8.88	1.57	1.79
1	AM	163	MET	SD-CE	-8.88	1.57	1.79
1	AO	163	MET	SD-CE	-8.88	1.57	1.79
1	Am	163	MET	SD-CE	-8.88	1.57	1.79
1	DK	163	MET	SD-CE	-8.88	1.57	1.79
1	A5	163	MET	SD-CE	-8.87	1.57	1.79
1	Af	163	MET	SD-CE	-8.87	1.57	1.79
1	Ak	163	MET	SD-CE	-8.87	1.57	1.79
1	AJ	163	MET	SD-CE	-8.87	1.57	1.79
1	Ah	163	MET	SD-CE	-8.87	1.57	1.79
1	DH	163	MET	SD-CE	-8.87	1.57	1.79
1	A0	163	MET	SD-CE	-8.87	1.57	1.79
1	A3	163	MET	SD-CE	-8.87	1.57	1.79
1	AC	163	MET	SD-CE	-8.86	1.57	1.79
1	AE	163	MET	SD-CE	-8.86	1.57	1.79
1	Aa	163	MET	SD-CE	-8.86	1.57	1.79
1	Ai	163	MET	SD-CE	-8.86	1.57	1.79
1	DF	163	MET	SD-CE	-8.86	1.57	1.79
1	DI	163	MET	SD-CE	-8.86	1.57	1.79
1	AT	163	MET	SD-CE	-8.86	1.57	1.79
1	DG	163	MET	SD-CE	-8.86	1.57	1.79
1	AV	163	MET	SD-CE	-8.86	1.57	1.79
1	AQ	163	MET	SD-CE	-8.86	1.57	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A7	163	MET	SD-CE	-8.85	1.57	1.79
1	Aj	163	MET	SD-CE	-8.85	1.57	1.79
1	Ao	163	MET	SD-CE	-8.85	1.57	1.79
1	AH	163	MET	SD-CE	-8.85	1.57	1.79
1	Ad	163	MET	SD-CE	-8.85	1.57	1.79
1	AS	163	MET	SD-CE	-8.84	1.57	1.79
1	A8	163	MET	SD-CE	-8.84	1.57	1.79
1	AU	163	MET	SD-CE	-8.84	1.57	1.79
1	DC	163	MET	SD-CE	-8.84	1.57	1.79
1	AK	163	MET	SD-CE	-8.84	1.57	1.79
1	AG	163	MET	SD-CE	-8.84	1.57	1.79
1	AZ	163	MET	SD-CE	-8.83	1.57	1.79
1	A4	163	MET	SD-CE	-8.83	1.57	1.79
1	AB	163	MET	SD-CE	-8.82	1.57	1.79
1	Ae	163	MET	SD-CE	-8.82	1.57	1.79
1	AY	163	MET	SD-CE	-8.82	1.57	1.79
1	A9	163	MET	SD-CE	-8.82	1.57	1.79
1	AP	163	MET	SD-CE	-8.81	1.57	1.79
1	DH	24	MET	SD-CE	7.40	1.98	1.79
1	Al	24	MET	SD-CE	7.38	1.98	1.79
1	AU	24	MET	SD-CE	7.37	1.98	1.79
1	Ag	24	MET	SD-CE	7.37	1.98	1.79
1	Af	24	MET	SD-CE	7.36	1.98	1.79
1	AC	24	MET	SD-CE	7.36	1.98	1.79
1	A3	24	MET	SD-CE	7.36	1.98	1.79
1	DF	24	MET	SD-CE	7.36	1.98	1.79
1	Ak	24	MET	SD-CE	7.36	1.98	1.79
1	AH	24	MET	SD-CE	7.36	1.98	1.79
1	AZ	24	MET	SD-CE	7.36	1.98	1.79
1	AV	24	MET	SD-CE	7.35	1.98	1.79
1	A5	24	MET	SD-CE	7.35	1.98	1.79
1	A1	24	MET	SD-CE	7.35	1.98	1.79
1	A9	24	MET	SD-CE	7.35	1.98	1.79
1	Ai	24	MET	SD-CE	7.35	1.98	1.79
1	A0	24	MET	SD-CE	7.35	1.98	1.79
1	AD	24	MET	SD-CE	7.35	1.98	1.79
1	AG	24	MET	SD-CE	7.35	1.98	1.79
1	DI	24	MET	SD-CE	7.35	1.98	1.79
1	Ao	24	MET	SD-CE	7.34	1.98	1.79
1	Ae	24	MET	SD-CE	7.34	1.98	1.79
1	DD	24	MET	SD-CE	7.34	1.98	1.79
1	DG	24	MET	SD-CE	7.34	1.97	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AW	24	MET	SD-CE	7.34	1.97	1.79
1	Aa	24	MET	SD-CE	7.34	1.97	1.79
1	Ac	24	MET	SD-CE	7.34	1.97	1.79
1	AB	24	MET	SD-CE	7.34	1.97	1.79
1	AQ	24	MET	SD-CE	7.34	1.97	1.79
1	An	24	MET	SD-CE	7.33	1.97	1.79
1	AL	24	MET	SD-CE	7.33	1.97	1.79
1	AY	24	MET	SD-CE	7.33	1.97	1.79
1	A2	24	MET	SD-CE	7.33	1.97	1.79
1	DC	24	MET	SD-CE	7.33	1.97	1.79
1	Ad	24	MET	SD-CE	7.33	1.97	1.79
1	AF	24	MET	SD-CE	7.33	1.97	1.79
1	AT	24	MET	SD-CE	7.33	1.97	1.79
1	A8	24	MET	SD-CE	7.33	1.97	1.79
1	AK	24	MET	SD-CE	7.33	1.97	1.79
1	Ah	24	MET	SD-CE	7.33	1.97	1.79
1	Aj	24	MET	SD-CE	7.33	1.97	1.79
1	DK	24	MET	SD-CE	7.33	1.97	1.79
1	AR	24	MET	SD-CE	7.32	1.97	1.79
1	Am	24	MET	SD-CE	7.32	1.97	1.79
1	AE	24	MET	SD-CE	7.32	1.97	1.79
1	AA	24	MET	SD-CE	7.31	1.97	1.79
1	AM	24	MET	SD-CE	7.31	1.97	1.79
1	AI	24	MET	SD-CE	7.31	1.97	1.79
1	A6	24	MET	SD-CE	7.31	1.97	1.79
1	AJ	24	MET	SD-CE	7.31	1.97	1.79
1	A4	24	MET	SD-CE	7.31	1.97	1.79
1	AO	24	MET	SD-CE	7.30	1.97	1.79
1	AS	24	MET	SD-CE	7.30	1.97	1.79
1	AP	24	MET	SD-CE	7.30	1.97	1.79
1	A7	24	MET	SD-CE	7.29	1.97	1.79
1	Ab	24	MET	SD-CE	7.29	1.97	1.79
1	DJ	24	MET	SD-CE	7.29	1.97	1.79
1	AX	24	MET	SD-CE	7.29	1.97	1.79
1	AN	24	MET	SD-CE	7.28	1.97	1.79
1	DE	24	MET	SD-CE	7.27	1.97	1.79
2	Bd	213	MET	SD-CE	-7.01	1.62	1.79
2	BR	213	MET	SD-CE	-7.01	1.62	1.79
2	BH	213	MET	SD-CE	-7.01	1.62	1.79
2	BM	213	MET	SD-CE	-7.00	1.62	1.79
2	BJ	213	MET	SD-CE	-7.00	1.62	1.79
2	BE	213	MET	SD-CE	-7.00	1.62	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Bm	213	MET	SD-CE	-6.99	1.62	1.79
2	Bs	213	MET	SD-CE	-6.99	1.62	1.79
2	BZ	213	MET	SD-CE	-6.99	1.62	1.79
2	B3	213	MET	SD-CE	-6.99	1.62	1.79
2	Bb	213	MET	SD-CE	-6.99	1.62	1.79
2	Bq	213	MET	SD-CE	-6.99	1.62	1.79
2	BP	213	MET	SD-CE	-6.99	1.62	1.79
2	B1	213	MET	SD-CE	-6.99	1.62	1.79
2	B4	213	MET	SD-CE	-6.99	1.62	1.79
2	Bp	213	MET	SD-CE	-6.98	1.62	1.79
2	BO	213	MET	SD-CE	-6.98	1.62	1.79
2	B2	213	MET	SD-CE	-6.98	1.62	1.79
2	Bh	213	MET	SD-CE	-6.98	1.62	1.79
2	BY	213	MET	SD-CE	-6.97	1.62	1.79
2	Bo	213	MET	SD-CE	-6.97	1.62	1.79
2	B8	213	MET	SD-CE	-6.97	1.62	1.79
2	BT	213	MET	SD-CE	-6.97	1.62	1.79
2	B9	213	MET	SD-CE	-6.97	1.62	1.79
2	Bl	213	MET	SD-CE	-6.97	1.62	1.79
2	Bf	213	MET	SD-CE	-6.97	1.62	1.79
2	Bn	213	MET	SD-CE	-6.97	1.62	1.79
2	BC	213	MET	SD-CE	-6.97	1.62	1.79
2	BV	213	MET	SD-CE	-6.97	1.62	1.79
2	B5	213	MET	SD-CE	-6.96	1.62	1.79
2	B6	213	MET	SD-CE	-6.96	1.62	1.79
2	Bc	213	MET	SD-CE	-6.96	1.62	1.79
2	BD	213	MET	SD-CE	-6.96	1.62	1.79
2	BS	213	MET	SD-CE	-6.96	1.62	1.79
2	BW	213	MET	SD-CE	-6.96	1.62	1.79
2	Be	213	MET	SD-CE	-6.96	1.62	1.79
2	Bv	213	MET	SD-CE	-6.96	1.62	1.79
2	BA	213	MET	SD-CE	-6.96	1.62	1.79
2	B7	213	MET	SD-CE	-6.96	1.62	1.79
2	Bj	213	MET	SD-CE	-6.96	1.62	1.79
2	BB	213	MET	SD-CE	-6.96	1.62	1.79
2	Ba	213	MET	SD-CE	-6.96	1.62	1.79
2	Bw	213	MET	SD-CE	-6.96	1.62	1.79
2	BI	213	MET	SD-CE	-6.96	1.62	1.79
2	Bg	213	MET	SD-CE	-6.96	1.62	1.79
2	Bi	213	MET	SD-CE	-6.96	1.62	1.79
2	BG	213	MET	SD-CE	-6.95	1.62	1.79
2	Br	213	MET	SD-CE	-6.95	1.62	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	BU	213	MET	SD-CE	-6.94	1.62	1.79
2	BF	213	MET	SD-CE	-6.94	1.62	1.79
2	BL	213	MET	SD-CE	-6.94	1.62	1.79
2	BK	213	MET	SD-CE	-6.94	1.62	1.79
2	Bu	213	MET	SD-CE	-6.94	1.62	1.79
2	Bk	213	MET	SD-CE	-6.93	1.62	1.79
2	Bx	213	MET	SD-CE	-6.93	1.62	1.79
2	BQ	213	MET	SD-CE	-6.93	1.62	1.79
2	B0	213	MET	SD-CE	-6.92	1.62	1.79
2	Bt	213	MET	SD-CE	-6.92	1.62	1.79
2	BX	213	MET	SD-CE	-6.92	1.62	1.79
2	BN	213	MET	SD-CE	-6.91	1.62	1.79
3	C6	11	SER	CA-C	-6.35	1.44	1.52
3	DB	11	SER	CA-C	-6.35	1.44	1.52
3	C8	11	SER	CA-C	-6.33	1.44	1.52
3	Ci	11	SER	CA-C	-6.32	1.44	1.52
3	CM	11	SER	CA-C	-6.32	1.44	1.52
3	CE	11	SER	CA-C	-6.31	1.44	1.52
3	C1	11	SER	CA-C	-6.30	1.44	1.52
3	CW	11	SER	CA-C	-6.30	1.44	1.52
3	CU	11	SER	CA-C	-6.29	1.44	1.52
3	C4	11	SER	CA-C	-6.29	1.44	1.52
3	Ce	11	SER	CA-C	-6.29	1.44	1.52
3	DA	11	SER	CA-C	-6.29	1.44	1.52
3	C7	11	SER	CA-C	-6.29	1.44	1.52
3	Cf	11	SER	CA-C	-6.29	1.44	1.52
3	Cp	11	SER	CA-C	-6.28	1.44	1.52
3	CP	11	SER	CA-C	-6.28	1.44	1.52
3	CX	11	SER	CA-C	-6.27	1.44	1.52
3	CC	11	SER	CA-C	-6.27	1.44	1.52
3	CR	11	SER	CA-C	-6.27	1.44	1.52
3	C9	11	SER	CA-C	-6.27	1.44	1.52
3	CB	11	SER	CA-C	-6.27	1.44	1.52
3	CQ	11	SER	CA-C	-6.27	1.44	1.52
3	Cc	11	SER	CA-C	-6.27	1.44	1.52
3	Cu	11	SER	CA-C	-6.27	1.44	1.52
3	Cv	11	SER	CA-C	-6.26	1.44	1.52
3	CD	11	SER	CA-C	-6.26	1.44	1.52
3	Ch	11	SER	CA-C	-6.26	1.44	1.52
3	Cl	11	SER	CA-C	-6.26	1.44	1.52
3	C2	11	SER	CA-C	-6.26	1.44	1.52
3	CF	11	SER	CA-C	-6.26	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	CH	11	SER	CA-C	-6.26	1.44	1.52
3	CT	11	SER	CA-C	-6.25	1.44	1.52
3	Cg	11	SER	CA-C	-6.25	1.44	1.52
3	Cj	11	SER	CA-C	-6.25	1.44	1.52
3	Cq	11	SER	CA-C	-6.25	1.44	1.52
3	CV	11	SER	CA-C	-6.25	1.44	1.52
3	C3	11	SER	CA-C	-6.25	1.44	1.52
3	CI	11	SER	CA-C	-6.24	1.44	1.52
3	CK	11	SER	CA-C	-6.24	1.44	1.52
3	CS	11	SER	CA-C	-6.24	1.44	1.52
3	C0	11	SER	CA-C	-6.24	1.44	1.52
3	CY	11	SER	CA-C	-6.23	1.44	1.52
3	Cd	11	SER	CA-C	-6.23	1.44	1.52
3	Co	11	SER	CA-C	-6.23	1.44	1.52
3	Ct	11	SER	CA-C	-6.23	1.44	1.52
3	Cs	11	SER	CA-C	-6.22	1.44	1.52
3	Cx	11	SER	CA-C	-6.21	1.44	1.52
3	Cm	11	SER	CA-C	-6.21	1.44	1.52
3	CJ	11	SER	CA-C	-6.21	1.44	1.52
3	CL	11	SER	CA-C	-6.21	1.44	1.52
3	CZ	11	SER	CA-C	-6.20	1.44	1.52
3	CA	11	SER	CA-C	-6.20	1.44	1.52
3	CG	11	SER	CA-C	-6.20	1.44	1.52
3	CN	11	SER	CA-C	-6.20	1.44	1.52
3	Cn	11	SER	CA-C	-6.20	1.44	1.52
3	Cr	11	SER	CA-C	-6.20	1.44	1.52
3	Cw	11	SER	CA-C	-6.20	1.44	1.52
3	Ck	11	SER	CA-C	-6.19	1.44	1.52
3	CO	11	SER	CA-C	-6.19	1.44	1.52
3	Cf	15	MET	SD-CE	6.16	1.95	1.79
3	C5	11	SER	CA-C	-6.15	1.44	1.52
3	Cg	15	MET	SD-CE	6.15	1.95	1.79
3	Cn	15	MET	SD-CE	6.14	1.95	1.79
3	CV	15	MET	SD-CE	6.13	1.94	1.79
3	Cv	15	MET	SD-CE	6.13	1.94	1.79
3	DA	15	MET	SD-CE	6.12	1.94	1.79
3	C6	15	MET	SD-CE	6.12	1.94	1.79
3	Cs	15	MET	SD-CE	6.11	1.94	1.79
3	C4	15	MET	SD-CE	6.11	1.94	1.79
3	CH	15	MET	SD-CE	6.11	1.94	1.79
3	C3	15	MET	SD-CE	6.11	1.94	1.79
3	Cp	15	MET	SD-CE	6.10	1.94	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	CI	15	MET	SD-CE	6.10	1.94	1.79
3	Cl	15	MET	SD-CE	6.10	1.94	1.79
3	C7	15	MET	SD-CE	6.10	1.94	1.79
3	Cq	15	MET	SD-CE	6.10	1.94	1.79
3	CW	15	MET	SD-CE	6.10	1.94	1.79
3	CB	15	MET	SD-CE	6.09	1.94	1.79
3	CE	15	MET	SD-CE	6.09	1.94	1.79
3	CJ	15	MET	SD-CE	6.09	1.94	1.79
3	CT	15	MET	SD-CE	6.09	1.94	1.79
3	Ck	15	MET	SD-CE	6.09	1.94	1.79
3	Ct	15	MET	SD-CE	6.09	1.94	1.79
3	CQ	15	MET	SD-CE	6.09	1.94	1.79
3	C8	15	MET	SD-CE	6.09	1.94	1.79
3	Cx	15	MET	SD-CE	6.09	1.94	1.79
3	CL	15	MET	SD-CE	6.08	1.94	1.79
3	CO	15	MET	SD-CE	6.08	1.94	1.79
3	CP	15	MET	SD-CE	6.08	1.94	1.79
3	Ch	15	MET	SD-CE	6.08	1.94	1.79
3	CM	15	MET	SD-CE	6.08	1.94	1.79
3	Ci	15	MET	SD-CE	6.08	1.94	1.79
3	Cm	15	MET	SD-CE	6.08	1.94	1.79
3	CU	15	MET	SD-CE	6.08	1.94	1.79
3	C5	15	MET	SD-CE	6.08	1.94	1.79
3	Cu	15	MET	SD-CE	6.08	1.94	1.79
3	CK	15	MET	SD-CE	6.08	1.94	1.79
3	Cr	15	MET	SD-CE	6.08	1.94	1.79
3	CR	15	MET	SD-CE	6.07	1.94	1.79
3	C1	15	MET	SD-CE	6.07	1.94	1.79
3	CA	15	MET	SD-CE	6.07	1.94	1.79
3	Cd	15	MET	SD-CE	6.07	1.94	1.79
3	Co	15	MET	SD-CE	6.07	1.94	1.79
3	C0	15	MET	SD-CE	6.07	1.94	1.79
3	C2	15	MET	SD-CE	6.07	1.94	1.79
3	DB	15	MET	SD-CE	6.07	1.94	1.79
3	CS	15	MET	SD-CE	6.06	1.94	1.79
3	CX	15	MET	SD-CE	6.06	1.94	1.79
3	CC	15	MET	SD-CE	6.06	1.94	1.79
3	CG	15	MET	SD-CE	6.06	1.94	1.79
3	CN	15	MET	SD-CE	6.06	1.94	1.79
3	C9	15	MET	SD-CE	6.06	1.94	1.79
3	Cw	15	MET	SD-CE	6.05	1.94	1.79
3	CY	15	MET	SD-CE	6.05	1.94	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	CZ	15	MET	SD-CE	6.05	1.94	1.79
3	Cc	15	MET	SD-CE	6.04	1.94	1.79
3	CF	15	MET	SD-CE	6.04	1.94	1.79
3	CD	15	MET	SD-CE	6.04	1.94	1.79
3	Ce	15	MET	SD-CE	6.04	1.94	1.79
3	Cj	15	MET	SD-CE	6.03	1.94	1.79
1	DC	138	MET	SD-CE	-5.55	1.65	1.79
1	A4	138	MET	SD-CE	-5.54	1.65	1.79
1	AK	138	MET	SD-CE	-5.54	1.65	1.79
1	DK	138	MET	SD-CE	-5.53	1.65	1.79
1	AU	138	MET	SD-CE	-5.52	1.65	1.79
1	AS	138	MET	SD-CE	-5.52	1.65	1.79
1	AZ	138	MET	SD-CE	-5.52	1.65	1.79
1	Ac	138	MET	SD-CE	-5.51	1.65	1.79
1	A6	138	MET	SD-CE	-5.51	1.65	1.79
1	AP	138	MET	SD-CE	-5.51	1.65	1.79
1	AQ	138	MET	SD-CE	-5.50	1.65	1.79
1	AX	138	MET	SD-CE	-5.50	1.65	1.79
1	Ae	138	MET	SD-CE	-5.50	1.65	1.79
1	DI	138	MET	SD-CE	-5.50	1.65	1.79
1	AH	138	MET	SD-CE	-5.50	1.65	1.79
1	A5	138	MET	SD-CE	-5.50	1.65	1.79
1	A9	138	MET	SD-CE	-5.50	1.65	1.79
1	Aj	138	MET	SD-CE	-5.50	1.65	1.79
1	DG	138	MET	SD-CE	-5.50	1.65	1.79
1	AB	138	MET	SD-CE	-5.50	1.65	1.79
1	DJ	138	MET	SD-CE	-5.50	1.65	1.79
1	DD	138	MET	SD-CE	-5.49	1.65	1.79
1	DE	138	MET	SD-CE	-5.49	1.65	1.79
1	AE	138	MET	SD-CE	-5.49	1.65	1.79
1	AL	138	MET	SD-CE	-5.49	1.65	1.79
1	Aa	138	MET	SD-CE	-5.49	1.65	1.79
1	AV	138	MET	SD-CE	-5.49	1.65	1.79
1	A0	138	MET	SD-CE	-5.49	1.65	1.79
1	Ak	138	MET	SD-CE	-5.49	1.65	1.79
1	AD	138	MET	SD-CE	-5.49	1.65	1.79
1	AO	138	MET	SD-CE	-5.49	1.65	1.79
1	Ao	138	MET	SD-CE	-5.49	1.65	1.79
1	A7	138	MET	SD-CE	-5.49	1.65	1.79
1	Ah	138	MET	SD-CE	-5.49	1.65	1.79
1	Af	138	MET	SD-CE	-5.48	1.65	1.79
1	Al	138	MET	SD-CE	-5.48	1.65	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DH	138	MET	SD-CE	-5.48	1.65	1.79
1	AT	138	MET	SD-CE	-5.48	1.65	1.79
1	AC	138	MET	SD-CE	-5.48	1.65	1.79
1	AG	138	MET	SD-CE	-5.48	1.65	1.79
1	A8	138	MET	SD-CE	-5.48	1.65	1.79
1	Am	138	MET	SD-CE	-5.48	1.65	1.79
1	AM	138	MET	SD-CE	-5.47	1.65	1.79
1	AN	138	MET	SD-CE	-5.47	1.65	1.79
1	Ab	138	MET	SD-CE	-5.47	1.65	1.79
1	Ai	138	MET	SD-CE	-5.47	1.65	1.79
1	A2	138	MET	SD-CE	-5.47	1.65	1.79
1	AJ	138	MET	SD-CE	-5.47	1.65	1.79
1	AW	138	MET	SD-CE	-5.46	1.65	1.79
1	AY	138	MET	SD-CE	-5.46	1.65	1.79
1	AI	138	MET	SD-CE	-5.46	1.66	1.79
1	AF	138	MET	SD-CE	-5.45	1.66	1.79
1	A1	138	MET	SD-CE	-5.45	1.66	1.79
1	An	138	MET	SD-CE	-5.45	1.66	1.79
1	AA	138	MET	SD-CE	-5.45	1.66	1.79
1	DF	138	MET	SD-CE	-5.45	1.66	1.79
1	Ag	138	MET	SD-CE	-5.44	1.66	1.79
1	AR	138	MET	SD-CE	-5.43	1.66	1.79
1	Ad	138	MET	SD-CE	-5.43	1.66	1.79
1	A3	138	MET	SD-CE	-5.43	1.66	1.79
1	A2	40	VAL	CA-CB	5.25	1.61	1.54
1	A5	40	VAL	CA-CB	5.24	1.61	1.54
1	AL	40	VAL	CA-CB	5.21	1.61	1.54
1	AS	40	VAL	CA-CB	5.21	1.61	1.54
1	A0	40	VAL	CA-CB	5.20	1.61	1.54
1	AN	40	VAL	CA-CB	5.20	1.61	1.54
1	AH	40	VAL	CA-CB	5.20	1.61	1.54
1	Am	40	VAL	CA-CB	5.18	1.61	1.54
1	Ag	40	VAL	CA-CB	5.17	1.61	1.54
1	A1	40	VAL	CA-CB	5.17	1.61	1.54
1	Aa	40	VAL	CA-CB	5.17	1.61	1.54
1	DH	40	VAL	CA-CB	5.17	1.61	1.54
1	A7	40	VAL	CA-CB	5.16	1.61	1.54
1	AX	40	VAL	CA-CB	5.16	1.61	1.54
1	Ak	40	VAL	CA-CB	5.15	1.61	1.54
1	Ab	40	VAL	CA-CB	5.15	1.61	1.54
1	AC	40	VAL	CA-CB	5.14	1.61	1.54
1	AW	40	VAL	CA-CB	5.14	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Af	40	VAL	CA-CB	5.14	1.61	1.54
1	AF	40	VAL	CA-CB	5.14	1.61	1.54
1	A6	40	VAL	CA-CB	5.14	1.61	1.54
1	Ac	40	VAL	CA-CB	5.13	1.61	1.54
1	AP	40	VAL	CA-CB	5.13	1.61	1.54
1	AY	40	VAL	CA-CB	5.13	1.61	1.54
1	AD	40	VAL	CA-CB	5.12	1.61	1.54
1	DJ	40	VAL	CA-CB	5.12	1.61	1.54
1	DK	40	VAL	CA-CB	5.12	1.61	1.54
1	DE	40	VAL	CA-CB	5.12	1.61	1.54
1	AV	40	VAL	CA-CB	5.11	1.61	1.54
1	DC	40	VAL	CA-CB	5.11	1.61	1.54
1	Ah	40	VAL	CA-CB	5.11	1.61	1.54
1	AE	40	VAL	CA-CB	5.10	1.61	1.54
1	AM	40	VAL	CA-CB	5.10	1.61	1.54
1	DD	40	VAL	CA-CB	5.10	1.61	1.54
1	AA	40	VAL	CA-CB	5.09	1.61	1.54
1	AI	40	VAL	CA-CB	5.09	1.61	1.54
1	AB	40	VAL	CA-CB	5.09	1.61	1.54
1	AT	40	VAL	CA-CB	5.09	1.61	1.54
1	Ae	40	VAL	CA-CB	5.09	1.61	1.54
1	DF	40	VAL	CA-CB	5.09	1.61	1.54
1	Al	40	VAL	CA-CB	5.08	1.61	1.54
1	AR	40	VAL	CA-CB	5.08	1.61	1.54
1	AU	40	VAL	CA-CB	5.08	1.61	1.54
1	AZ	40	VAL	CA-CB	5.08	1.61	1.54
1	A3	40	VAL	CA-CB	5.08	1.61	1.54
1	DG	40	VAL	CA-CB	5.08	1.61	1.54
1	AG	40	VAL	CA-CB	5.07	1.61	1.54
1	AK	40	VAL	CA-CB	5.07	1.61	1.54
1	Ad	40	VAL	CA-CB	5.07	1.61	1.54
1	A4	40	VAL	CA-CB	5.07	1.61	1.54
1	A8	40	VAL	CA-CB	5.07	1.61	1.54
1	A6	226	PRO	C-O	5.06	1.30	1.24
1	AQ	40	VAL	CA-CB	5.05	1.60	1.54
1	AJ	40	VAL	CA-CB	5.05	1.60	1.54
1	An	40	VAL	CA-CB	5.05	1.60	1.54
1	Ai	40	VAL	CA-CB	5.05	1.60	1.54
1	AO	40	VAL	CA-CB	5.04	1.60	1.54
1	DI	40	VAL	CA-CB	5.04	1.60	1.54
1	A9	40	VAL	CA-CB	5.03	1.60	1.54
1	A2	226	PRO	C-O	5.03	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AP	226	PRO	C-O	5.01	1.30	1.24

All (6565) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AS	207	CYS	N-CA-C	15.47	133.77	111.96
1	AG	207	CYS	N-CA-C	15.46	133.76	111.96
1	AZ	207	CYS	N-CA-C	15.46	133.76	111.96
1	DH	207	CYS	N-CA-C	15.46	133.76	111.96
1	AR	207	CYS	N-CA-C	15.46	133.75	111.96
1	Ag	207	CYS	N-CA-C	15.45	133.75	111.96
1	Ao	207	CYS	N-CA-C	15.45	133.75	111.96
1	AL	207	CYS	N-CA-C	15.45	133.74	111.96
1	Aa	207	CYS	N-CA-C	15.45	133.74	111.96
1	A5	207	CYS	N-CA-C	15.44	133.74	111.96
1	AF	207	CYS	N-CA-C	15.44	133.74	111.96
1	A9	207	CYS	N-CA-C	15.44	133.73	111.96
1	Ab	207	CYS	N-CA-C	15.44	133.73	111.96
1	AQ	207	CYS	N-CA-C	15.44	133.73	111.96
1	AW	207	CYS	N-CA-C	15.44	133.72	111.96
1	AY	207	CYS	N-CA-C	15.44	133.72	111.96
1	A0	207	CYS	N-CA-C	15.44	133.72	111.96
1	Ac	207	CYS	N-CA-C	15.44	133.73	111.96
1	DG	207	CYS	N-CA-C	15.44	133.72	111.96
1	AK	207	CYS	N-CA-C	15.43	133.72	111.96
1	Af	207	CYS	N-CA-C	15.43	133.72	111.96
1	Al	207	CYS	N-CA-C	15.43	133.72	111.96
1	AC	207	CYS	N-CA-C	15.43	133.71	111.96
1	AP	207	CYS	N-CA-C	15.43	133.71	111.96
1	Aj	207	CYS	N-CA-C	15.42	133.71	111.96
1	AI	207	CYS	N-CA-C	15.42	133.70	111.96
1	DC	207	CYS	N-CA-C	15.42	133.70	111.96
1	AE	207	CYS	N-CA-C	15.42	133.70	111.96
1	AU	207	CYS	N-CA-C	15.42	133.70	111.96
1	AB	207	CYS	N-CA-C	15.41	133.70	111.96
1	Am	207	CYS	N-CA-C	15.41	133.69	111.96
1	An	207	CYS	N-CA-C	15.41	133.69	111.96
1	AH	207	CYS	N-CA-C	15.41	133.69	111.96
1	DJ	207	CYS	N-CA-C	15.41	133.69	111.96
1	AD	207	CYS	N-CA-C	15.41	133.68	111.96
1	AM	207	CYS	N-CA-C	15.41	133.68	111.96
1	DE	207	CYS	N-CA-C	15.41	133.68	111.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A3	207	CYS	N-CA-C	15.40	133.68	111.96
1	Ad	207	CYS	N-CA-C	15.40	133.68	111.96
1	DD	207	CYS	N-CA-C	15.40	133.68	111.96
1	A7	207	CYS	N-CA-C	15.40	133.68	111.96
1	AA	207	CYS	N-CA-C	15.40	133.67	111.96
1	AO	207	CYS	N-CA-C	15.40	133.67	111.96
1	AJ	207	CYS	N-CA-C	15.40	133.67	111.96
1	AT	207	CYS	N-CA-C	15.40	133.67	111.96
1	AV	207	CYS	N-CA-C	15.40	133.67	111.96
1	Ae	207	CYS	N-CA-C	15.40	133.67	111.96
1	A1	207	CYS	N-CA-C	15.39	133.67	111.96
1	A6	207	CYS	N-CA-C	15.39	133.67	111.96
1	A4	207	CYS	N-CA-C	15.39	133.66	111.96
1	A8	207	CYS	N-CA-C	15.39	133.66	111.96
1	DI	207	CYS	N-CA-C	15.39	133.66	111.96
1	A2	207	CYS	N-CA-C	15.38	133.65	111.96
1	DK	207	CYS	N-CA-C	15.38	133.65	111.96
1	Ak	207	CYS	N-CA-C	15.38	133.65	111.96
1	Ai	207	CYS	N-CA-C	15.38	133.64	111.96
1	AX	207	CYS	N-CA-C	15.37	133.64	111.96
1	DF	207	CYS	N-CA-C	15.36	133.61	111.96
1	Ah	207	CYS	N-CA-C	15.34	133.60	111.96
1	AN	207	CYS	N-CA-C	15.34	133.59	111.96
1	Al	4	VAL	N-CA-C	13.31	127.42	107.99
1	An	4	VAL	N-CA-C	13.30	127.41	107.99
1	DF	4	VAL	N-CA-C	13.29	127.40	107.99
1	DI	4	VAL	N-CA-C	13.29	127.40	107.99
1	AY	4	VAL	N-CA-C	13.29	127.39	107.99
1	A0	4	VAL	N-CA-C	13.29	127.39	107.99
1	Af	4	VAL	N-CA-C	13.29	127.39	107.99
1	Aj	4	VAL	N-CA-C	13.29	127.39	107.99
1	AO	4	VAL	N-CA-C	13.29	127.39	107.99
1	AQ	4	VAL	N-CA-C	13.29	127.39	107.99
1	AG	4	VAL	N-CA-C	13.28	127.39	107.99
1	AB	4	VAL	N-CA-C	13.28	127.38	107.99
1	A9	4	VAL	N-CA-C	13.28	127.38	107.99
1	AE	4	VAL	N-CA-C	13.28	127.37	107.99
1	A2	4	VAL	N-CA-C	13.28	127.37	107.99
1	A3	4	VAL	N-CA-C	13.28	127.37	107.99
1	AC	4	VAL	N-CA-C	13.27	127.37	107.99
1	Ag	4	VAL	N-CA-C	13.27	127.37	107.99
1	AR	4	VAL	N-CA-C	13.27	127.37	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ae	4	VAL	N-CA-C	13.27	127.37	107.99
1	Am	4	VAL	N-CA-C	13.27	127.36	107.99
1	A4	4	VAL	N-CA-C	13.27	127.36	107.99
1	DG	4	VAL	N-CA-C	13.27	127.36	107.99
1	Ah	4	VAL	N-CA-C	13.27	127.36	107.99
1	AW	4	VAL	N-CA-C	13.26	127.36	107.99
1	A7	4	VAL	N-CA-C	13.26	127.35	107.99
1	AN	4	VAL	N-CA-C	13.26	127.35	107.99
1	AZ	4	VAL	N-CA-C	13.26	127.35	107.99
1	AU	4	VAL	N-CA-C	13.26	127.35	107.99
1	Ad	4	VAL	N-CA-C	13.26	127.35	107.99
1	DD	4	VAL	N-CA-C	13.26	127.34	107.99
1	Ao	4	VAL	N-CA-C	13.26	127.34	107.99
1	AD	4	VAL	N-CA-C	13.25	127.34	107.99
1	AI	4	VAL	N-CA-C	13.25	127.34	107.99
1	AJ	4	VAL	N-CA-C	13.25	127.34	107.99
1	AS	4	VAL	N-CA-C	13.25	127.34	107.99
1	A8	4	VAL	N-CA-C	13.25	127.34	107.99
1	AP	4	VAL	N-CA-C	13.25	127.33	107.99
1	AT	4	VAL	N-CA-C	13.25	127.33	107.99
1	A1	4	VAL	N-CA-C	13.25	127.33	107.99
1	A6	4	VAL	N-CA-C	13.24	127.33	107.99
1	DJ	4	VAL	N-CA-C	13.24	127.32	107.99
1	AK	4	VAL	N-CA-C	13.24	127.32	107.99
1	AA	4	VAL	N-CA-C	13.24	127.31	107.99
1	AF	4	VAL	N-CA-C	13.24	127.31	107.99
1	AM	4	VAL	N-CA-C	13.23	127.31	107.99
1	AV	4	VAL	N-CA-C	13.23	127.31	107.99
1	Ac	4	VAL	N-CA-C	13.23	127.31	107.99
1	Ai	4	VAL	N-CA-C	13.23	127.31	107.99
1	Ak	4	VAL	N-CA-C	13.23	127.30	107.99
1	DH	4	VAL	N-CA-C	13.23	127.30	107.99
1	Aa	4	VAL	N-CA-C	13.23	127.30	107.99
1	DK	4	VAL	N-CA-C	13.23	127.30	107.99
1	AX	4	VAL	N-CA-C	13.22	127.30	107.99
1	A5	4	VAL	N-CA-C	13.22	127.29	107.99
1	Ab	4	VAL	N-CA-C	13.22	127.30	107.99
1	AH	4	VAL	N-CA-C	13.22	127.29	107.99
1	AL	4	VAL	N-CA-C	13.21	127.28	107.99
1	DE	4	VAL	N-CA-C	13.21	127.28	107.99
1	DC	4	VAL	N-CA-C	13.21	127.27	107.99
2	B8	138	LYS	N-CA-C	-12.13	90.11	109.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B7	138	LYS	N-CA-C	-12.11	90.14	109.39
2	Bb	138	LYS	N-CA-C	-12.11	90.14	109.39
2	BQ	138	LYS	N-CA-C	-12.10	90.15	109.39
2	BX	138	LYS	N-CA-C	-12.10	90.15	109.39
2	Bu	138	LYS	N-CA-C	-12.10	90.15	109.39
2	Bn	138	LYS	N-CA-C	-12.10	90.16	109.39
2	Bd	138	LYS	N-CA-C	-12.10	90.16	109.39
2	Bh	138	LYS	N-CA-C	-12.10	90.16	109.39
2	Bj	138	LYS	N-CA-C	-12.10	90.16	109.39
1	Ag	87	GLN	N-CA-C	12.09	128.79	113.55
2	BD	138	LYS	N-CA-C	-12.09	90.16	109.39
2	B6	138	LYS	N-CA-C	-12.09	90.16	109.39
2	BF	138	LYS	N-CA-C	-12.09	90.17	109.39
2	BI	138	LYS	N-CA-C	-12.09	90.17	109.39
2	BY	138	LYS	N-CA-C	-12.09	90.17	109.39
2	Bt	138	LYS	N-CA-C	-12.09	90.17	109.39
2	Bv	138	LYS	N-CA-C	-12.09	90.17	109.39
2	BK	138	LYS	N-CA-C	-12.09	90.17	109.39
2	BN	138	LYS	N-CA-C	-12.09	90.17	109.39
2	Bl	138	LYS	N-CA-C	-12.09	90.17	109.39
2	Bp	138	LYS	N-CA-C	-12.09	90.17	109.39
2	Ba	138	LYS	N-CA-C	-12.09	90.17	109.39
2	Bm	138	LYS	N-CA-C	-12.08	90.18	109.39
2	Bs	138	LYS	N-CA-C	-12.08	90.18	109.39
2	Bx	138	LYS	N-CA-C	-12.08	90.18	109.39
1	Ah	87	GLN	N-CA-C	12.08	128.77	113.55
2	BO	138	LYS	N-CA-C	-12.08	90.18	109.39
2	BP	138	LYS	N-CA-C	-12.08	90.18	109.39
2	Bg	138	LYS	N-CA-C	-12.08	90.18	109.39
2	BJ	138	LYS	N-CA-C	-12.08	90.19	109.39
2	Be	138	LYS	N-CA-C	-12.08	90.19	109.39
2	BC	138	LYS	N-CA-C	-12.08	90.19	109.39
2	Bw	138	LYS	N-CA-C	-12.08	90.19	109.39
1	AR	87	GLN	N-CA-C	12.07	128.76	113.55
2	BB	138	LYS	N-CA-C	-12.07	90.19	109.39
2	B1	138	LYS	N-CA-C	-12.07	90.19	109.39
2	B3	138	LYS	N-CA-C	-12.07	90.19	109.39
2	B4	138	LYS	N-CA-C	-12.07	90.19	109.39
2	B2	138	LYS	N-CA-C	-12.07	90.19	109.39
2	Bq	138	LYS	N-CA-C	-12.07	90.19	109.39
1	AO	87	GLN	N-CA-C	12.07	128.76	113.55
1	AW	87	GLN	N-CA-C	12.07	128.76	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B5	138	LYS	N-CA-C	-12.07	90.20	109.39
1	AQ	87	GLN	N-CA-C	12.07	128.75	113.55
1	An	87	GLN	N-CA-C	12.07	128.75	113.55
2	BA	138	LYS	N-CA-C	-12.07	90.20	109.39
2	BE	138	LYS	N-CA-C	-12.07	90.20	109.39
2	BR	138	LYS	N-CA-C	-12.07	90.20	109.39
2	Bi	138	LYS	N-CA-C	-12.07	90.20	109.39
2	BW	138	LYS	N-CA-C	-12.07	90.20	109.39
2	Bo	138	LYS	N-CA-C	-12.07	90.20	109.39
2	BL	138	LYS	N-CA-C	-12.06	90.21	109.39
2	BZ	138	LYS	N-CA-C	-12.06	90.21	109.39
1	Al	87	GLN	N-CA-C	12.06	128.75	113.55
2	Bf	138	LYS	N-CA-C	-12.06	90.21	109.39
1	AM	87	GLN	N-CA-C	12.06	128.74	113.55
2	BM	138	LYS	N-CA-C	-12.06	90.22	109.39
2	BT	138	LYS	N-CA-C	-12.06	90.22	109.39
1	Aa	87	GLN	N-CA-C	12.06	128.74	113.55
2	BG	138	LYS	N-CA-C	-12.06	90.22	109.39
1	DJ	87	GLN	N-CA-C	12.06	128.74	113.55
1	A5	87	GLN	N-CA-C	12.05	128.74	113.55
2	BU	138	LYS	N-CA-C	-12.05	90.22	109.39
2	B9	138	LYS	N-CA-C	-12.05	90.23	109.39
1	AL	87	GLN	N-CA-C	12.05	128.73	113.55
2	B0	138	LYS	N-CA-C	-12.05	90.23	109.39
2	Br	138	LYS	N-CA-C	-12.05	90.23	109.39
2	BH	138	LYS	N-CA-C	-12.05	90.24	109.39
2	BS	138	LYS	N-CA-C	-12.05	90.24	109.39
2	Bk	138	LYS	N-CA-C	-12.04	90.24	109.39
1	DI	87	GLN	N-CA-C	12.04	128.73	113.55
1	DH	87	GLN	N-CA-C	12.04	128.72	113.55
1	AX	87	GLN	N-CA-C	12.04	128.72	113.55
1	A2	87	GLN	N-CA-C	12.04	128.72	113.55
2	Bc	138	LYS	N-CA-C	-12.04	90.24	109.39
1	AH	87	GLN	N-CA-C	12.04	128.72	113.55
1	Af	87	GLN	N-CA-C	12.04	128.72	113.55
1	A0	87	GLN	N-CA-C	12.04	128.72	113.55
1	AN	87	GLN	N-CA-C	12.04	128.71	113.55
1	DD	87	GLN	N-CA-C	12.04	128.72	113.55
1	A1	87	GLN	N-CA-C	12.03	128.71	113.55
1	Ak	87	GLN	N-CA-C	12.03	128.71	113.55
1	AA	87	GLN	N-CA-C	12.03	128.70	113.55
1	AC	87	GLN	N-CA-C	12.03	128.70	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AS	87	GLN	N-CA-C	12.03	128.70	113.55
1	AU	87	GLN	N-CA-C	12.03	128.70	113.55
1	A6	87	GLN	N-CA-C	12.03	128.70	113.55
1	A7	87	GLN	N-CA-C	12.03	128.70	113.55
1	Am	87	GLN	N-CA-C	12.03	128.70	113.55
1	Ae	87	GLN	N-CA-C	12.02	128.70	113.55
2	BV	138	LYS	N-CA-C	-12.02	90.27	109.39
1	DE	87	GLN	N-CA-C	12.02	128.70	113.55
1	AE	87	GLN	N-CA-C	12.02	128.70	113.55
1	A9	87	GLN	N-CA-C	12.02	128.69	113.55
1	AY	87	GLN	N-CA-C	12.02	128.69	113.55
1	AZ	87	GLN	N-CA-C	12.02	128.69	113.55
1	AF	87	GLN	N-CA-C	12.01	128.69	113.55
1	AT	87	GLN	N-CA-C	12.01	128.69	113.55
1	Ab	87	GLN	N-CA-C	12.01	128.69	113.55
1	AI	87	GLN	N-CA-C	12.01	128.68	113.55
1	Aj	87	GLN	N-CA-C	12.01	128.68	113.55
1	A8	87	GLN	N-CA-C	12.01	128.68	113.55
1	DF	87	GLN	N-CA-C	12.01	128.68	113.55
1	DK	87	GLN	N-CA-C	12.00	128.68	113.55
1	Ad	87	GLN	N-CA-C	12.00	128.67	113.55
1	Ai	87	GLN	N-CA-C	12.00	128.67	113.55
1	DC	87	GLN	N-CA-C	12.00	128.67	113.55
1	AK	87	GLN	N-CA-C	12.00	128.67	113.55
1	AP	87	GLN	N-CA-C	11.99	128.66	113.55
1	A3	87	GLN	N-CA-C	11.99	128.66	113.55
1	AD	87	GLN	N-CA-C	11.99	128.66	113.55
1	Ac	87	GLN	N-CA-C	11.99	128.66	113.55
1	AV	87	GLN	N-CA-C	11.99	128.66	113.55
1	Ao	87	GLN	N-CA-C	11.99	128.66	113.55
1	AJ	87	GLN	N-CA-C	11.99	128.65	113.55
1	AB	87	GLN	N-CA-C	11.98	128.65	113.55
1	A4	87	GLN	N-CA-C	11.98	128.64	113.55
1	AG	87	GLN	N-CA-C	11.97	128.63	113.55
1	DG	87	GLN	N-CA-C	11.97	128.63	113.55
3	Cv	130	ALA	N-CA-C	11.72	129.62	113.21
3	Cx	130	ALA	N-CA-C	11.71	129.61	113.21
3	CE	130	ALA	N-CA-C	11.71	129.60	113.21
3	Cm	130	ALA	N-CA-C	11.71	129.60	113.21
3	Cd	130	ALA	N-CA-C	11.71	129.60	113.21
3	C6	130	ALA	N-CA-C	11.71	129.60	113.21
3	Ci	130	ALA	N-CA-C	11.70	129.60	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CF	130	ALA	N-CA-C	11.70	129.59	113.21
3	CM	130	ALA	N-CA-C	11.70	129.59	113.21
3	Cn	130	ALA	N-CA-C	11.70	129.59	113.21
3	CT	130	ALA	N-CA-C	11.70	129.59	113.21
3	C3	130	ALA	N-CA-C	11.70	129.59	113.21
3	Co	130	ALA	N-CA-C	11.70	129.59	113.21
3	CN	130	ALA	N-CA-C	11.70	129.58	113.21
3	CY	130	ALA	N-CA-C	11.69	129.58	113.21
3	C8	130	ALA	N-CA-C	11.70	129.58	113.21
3	CC	130	ALA	N-CA-C	11.69	129.58	113.21
3	CO	130	ALA	N-CA-C	11.69	129.58	113.21
3	C1	130	ALA	N-CA-C	11.69	129.58	113.21
3	CR	130	ALA	N-CA-C	11.69	129.58	113.21
3	Ct	130	ALA	N-CA-C	11.69	129.58	113.21
3	C5	130	ALA	N-CA-C	11.69	129.57	113.21
3	C7	130	ALA	N-CA-C	11.69	129.57	113.21
3	Cl	130	ALA	N-CA-C	11.69	129.57	113.21
3	CW	130	ALA	N-CA-C	11.68	129.57	113.21
3	CH	130	ALA	N-CA-C	11.68	129.56	113.21
3	CU	130	ALA	N-CA-C	11.68	129.56	113.21
3	Cs	130	ALA	N-CA-C	11.68	129.56	113.21
3	Ce	130	ALA	N-CA-C	11.68	129.56	113.21
3	Cw	130	ALA	N-CA-C	11.68	129.56	113.21
3	CA	130	ALA	N-CA-C	11.68	129.56	113.21
3	CI	130	ALA	N-CA-C	11.68	129.56	113.21
3	Cg	130	ALA	N-CA-C	11.68	129.56	113.21
3	Ch	130	ALA	N-CA-C	11.68	129.56	113.21
3	Cp	130	ALA	N-CA-C	11.68	129.56	113.21
3	C2	130	ALA	N-CA-C	11.67	129.55	113.21
3	Cj	130	ALA	N-CA-C	11.67	129.55	113.21
3	CQ	130	ALA	N-CA-C	11.67	129.55	113.21
3	Ck	130	ALA	N-CA-C	11.67	129.54	113.21
3	Cq	130	ALA	N-CA-C	11.67	129.54	113.21
3	CV	130	ALA	N-CA-C	11.66	129.54	113.21
3	CZ	130	ALA	N-CA-C	11.66	129.54	113.21
3	DB	130	ALA	N-CA-C	11.66	129.54	113.21
3	CD	130	ALA	N-CA-C	11.66	129.53	113.21
3	C4	130	ALA	N-CA-C	11.66	129.53	113.21
3	CK	130	ALA	N-CA-C	11.66	129.53	113.21
3	CP	130	ALA	N-CA-C	11.66	129.53	113.21
3	DA	130	ALA	N-CA-C	11.66	129.53	113.21
3	Cc	130	ALA	N-CA-C	11.65	129.53	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cu	130	ALA	N-CA-C	11.65	129.52	113.21
3	Cf	130	ALA	N-CA-C	11.65	129.51	113.21
3	C0	130	ALA	N-CA-C	11.64	129.51	113.21
3	CG	130	ALA	N-CA-C	11.64	129.51	113.21
3	CL	130	ALA	N-CA-C	11.64	129.51	113.21
3	Cr	130	ALA	N-CA-C	11.64	129.51	113.21
3	CJ	130	ALA	N-CA-C	11.63	129.50	113.21
3	CB	130	ALA	N-CA-C	11.63	129.49	113.21
3	C9	130	ALA	N-CA-C	11.63	129.49	113.21
3	CX	130	ALA	N-CA-C	11.62	129.48	113.21
3	CS	130	ALA	N-CA-C	11.62	129.48	113.21
1	DE	5	GLY	N-CA-C	11.32	140.00	113.18
1	Ah	5	GLY	N-CA-C	11.32	140.00	113.18
1	A1	5	GLY	N-CA-C	11.31	139.99	113.18
1	A2	5	GLY	N-CA-C	11.30	139.97	113.18
1	AM	5	GLY	N-CA-C	11.30	139.97	113.18
1	A5	5	GLY	N-CA-C	11.30	139.96	113.18
1	A7	5	GLY	N-CA-C	11.30	139.97	113.18
1	Am	5	GLY	N-CA-C	11.30	139.96	113.18
1	DI	5	GLY	N-CA-C	11.30	139.96	113.18
1	AV	5	GLY	N-CA-C	11.30	139.96	113.18
1	DK	5	GLY	N-CA-C	11.30	139.96	113.18
1	Ab	5	GLY	N-CA-C	11.30	139.95	113.18
1	A6	5	GLY	N-CA-C	11.29	139.94	113.18
1	AN	5	GLY	N-CA-C	11.29	139.94	113.18
1	Ai	5	GLY	N-CA-C	11.29	139.94	113.18
1	AS	5	GLY	N-CA-C	11.29	139.94	113.18
1	AH	5	GLY	N-CA-C	11.29	139.93	113.18
1	Ag	5	GLY	N-CA-C	11.29	139.93	113.18
1	DJ	5	GLY	N-CA-C	11.29	139.93	113.18
1	AC	5	GLY	N-CA-C	11.29	139.93	113.18
1	AE	5	GLY	N-CA-C	11.29	139.93	113.18
1	AR	5	GLY	N-CA-C	11.29	139.93	113.18
1	AW	5	GLY	N-CA-C	11.29	139.93	113.18
1	Ad	5	GLY	N-CA-C	11.29	139.93	113.18
1	A9	5	GLY	N-CA-C	11.28	139.92	113.18
1	DD	5	GLY	N-CA-C	11.29	139.93	113.18
1	Ac	5	GLY	N-CA-C	11.28	139.92	113.18
1	AP	5	GLY	N-CA-C	11.28	139.92	113.18
1	Aa	5	GLY	N-CA-C	11.28	139.92	113.18
1	AI	5	GLY	N-CA-C	11.28	139.90	113.18
1	AX	5	GLY	N-CA-C	11.28	139.91	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AY	5	GLY	N-CA-C	11.28	139.90	113.18
1	A4	5	GLY	N-CA-C	11.28	139.90	113.18
1	AB	5	GLY	N-CA-C	11.27	139.90	113.18
1	A0	5	GLY	N-CA-C	11.27	139.90	113.18
1	Ao	5	GLY	N-CA-C	11.27	139.90	113.18
1	AD	5	GLY	N-CA-C	11.27	139.89	113.18
1	AG	5	GLY	N-CA-C	11.27	139.89	113.18
1	AJ	5	GLY	N-CA-C	11.27	139.88	113.18
1	AQ	5	GLY	N-CA-C	11.27	139.89	113.18
1	AL	5	GLY	N-CA-C	11.27	139.88	113.18
1	AO	5	GLY	N-CA-C	11.27	139.88	113.18
1	AZ	5	GLY	N-CA-C	11.27	139.88	113.18
1	Ae	5	GLY	N-CA-C	11.27	139.88	113.18
1	Aj	5	GLY	N-CA-C	11.27	139.88	113.18
1	AU	5	GLY	N-CA-C	11.26	139.87	113.18
1	Af	5	GLY	N-CA-C	11.26	139.87	113.18
1	DC	5	GLY	N-CA-C	11.26	139.88	113.18
1	Al	5	GLY	N-CA-C	11.26	139.87	113.18
1	DH	5	GLY	N-CA-C	11.26	139.86	113.18
1	AA	5	GLY	N-CA-C	11.25	139.85	113.18
1	AK	5	GLY	N-CA-C	11.25	139.85	113.18
1	Ak	5	GLY	N-CA-C	11.25	139.85	113.18
1	DG	5	GLY	N-CA-C	11.25	139.85	113.18
1	AF	5	GLY	N-CA-C	11.25	139.84	113.18
1	A8	5	GLY	N-CA-C	11.25	139.84	113.18
1	AT	5	GLY	N-CA-C	11.24	139.82	113.18
1	DF	5	GLY	N-CA-C	11.24	139.82	113.18
1	A3	5	GLY	N-CA-C	11.23	139.81	113.18
1	Ag	203	ASP	N-CA-C	-11.23	93.37	109.31
1	An	5	GLY	N-CA-C	11.22	139.78	113.18
1	AM	203	ASP	N-CA-C	-11.22	93.38	109.31
1	Ab	203	ASP	N-CA-C	-11.21	93.39	109.31
1	Al	203	ASP	N-CA-C	-11.21	93.39	109.31
1	AD	203	ASP	N-CA-C	-11.21	93.40	109.31
1	DI	203	ASP	N-CA-C	-11.21	93.40	109.31
1	AG	203	ASP	N-CA-C	-11.20	93.40	109.31
1	AZ	203	ASP	N-CA-C	-11.20	93.41	109.31
1	AI	203	ASP	N-CA-C	-11.19	93.41	109.31
1	AU	203	ASP	N-CA-C	-11.19	93.42	109.31
1	A9	203	ASP	N-CA-C	-11.19	93.42	109.31
1	A3	203	ASP	N-CA-C	-11.19	93.42	109.31
1	Ai	203	ASP	N-CA-C	-11.19	93.43	109.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	203	ASP	N-CA-C	-11.19	93.43	109.31
1	AN	203	ASP	N-CA-C	-11.18	93.43	109.31
1	AP	203	ASP	N-CA-C	-11.18	93.43	109.31
1	AY	203	ASP	N-CA-C	-11.18	93.43	109.31
1	Ah	203	ASP	N-CA-C	-11.18	93.43	109.31
1	AW	203	ASP	N-CA-C	-11.18	93.43	109.31
1	AR	203	ASP	N-CA-C	-11.18	93.44	109.31
1	A6	203	ASP	N-CA-C	-11.18	93.44	109.31
1	Ad	203	ASP	N-CA-C	-11.18	93.44	109.31
1	AK	203	ASP	N-CA-C	-11.17	93.44	109.31
1	A1	203	ASP	N-CA-C	-11.17	93.44	109.31
1	Ac	203	ASP	N-CA-C	-11.17	93.44	109.31
1	AJ	203	ASP	N-CA-C	-11.17	93.45	109.31
1	AX	203	ASP	N-CA-C	-11.17	93.45	109.31
1	DD	203	ASP	N-CA-C	-11.17	93.45	109.31
1	A0	203	ASP	N-CA-C	-11.17	93.45	109.31
1	AE	203	ASP	N-CA-C	-11.17	93.45	109.31
1	A4	203	ASP	N-CA-C	-11.16	93.45	109.31
1	AB	203	ASP	N-CA-C	-11.16	93.46	109.31
1	AO	203	ASP	N-CA-C	-11.16	93.46	109.31
1	AS	203	ASP	N-CA-C	-11.16	93.46	109.31
1	AT	203	ASP	N-CA-C	-11.16	93.46	109.31
1	Ae	203	ASP	N-CA-C	-11.16	93.46	109.31
1	Aj	203	ASP	N-CA-C	-11.16	93.46	109.31
1	Am	203	ASP	N-CA-C	-11.16	93.46	109.31
1	DE	203	ASP	N-CA-C	-11.16	93.46	109.31
1	AA	203	ASP	N-CA-C	-11.16	93.47	109.31
1	A2	203	ASP	N-CA-C	-11.16	93.47	109.31
1	DF	203	ASP	N-CA-C	-11.16	93.47	109.31
1	AC	203	ASP	N-CA-C	-11.15	93.47	109.31
1	AQ	203	ASP	N-CA-C	-11.15	93.47	109.31
1	A5	203	ASP	N-CA-C	-11.15	93.47	109.31
1	DG	203	ASP	N-CA-C	-11.15	93.47	109.31
1	An	203	ASP	N-CA-C	-11.15	93.47	109.31
1	AF	203	ASP	N-CA-C	-11.15	93.48	109.31
1	A8	203	ASP	N-CA-C	-11.15	93.48	109.31
1	DK	203	ASP	N-CA-C	-11.15	93.48	109.31
1	AV	203	ASP	N-CA-C	-11.14	93.49	109.31
1	A7	203	ASP	N-CA-C	-11.14	93.49	109.31
1	DH	203	ASP	N-CA-C	-11.14	93.49	109.31
1	AL	203	ASP	N-CA-C	-11.14	93.49	109.31
1	Aa	203	ASP	N-CA-C	-11.14	93.49	109.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DJ	203	ASP	N-CA-C	-11.14	93.49	109.31
1	Ak	203	ASP	N-CA-C	-11.13	93.50	109.31
1	Af	203	ASP	N-CA-C	-11.13	93.50	109.31
1	AH	203	ASP	N-CA-C	-11.13	93.51	109.31
1	DC	203	ASP	N-CA-C	-11.11	93.53	109.31
1	Ai	146	ILE	CB-CA-C	-11.01	98.82	111.59
1	AJ	146	ILE	CB-CA-C	-11.00	98.83	111.59
1	AY	146	ILE	CB-CA-C	-10.99	98.84	111.59
1	Ad	146	ILE	CB-CA-C	-10.99	98.84	111.59
1	AO	146	ILE	CB-CA-C	-10.98	98.85	111.59
1	AF	146	ILE	CB-CA-C	-10.98	98.86	111.59
1	AA	146	ILE	CB-CA-C	-10.98	98.86	111.59
1	Ae	146	ILE	CB-CA-C	-10.97	98.87	111.59
1	A8	146	ILE	CB-CA-C	-10.97	98.87	111.59
1	A9	146	ILE	CB-CA-C	-10.96	98.87	111.59
1	Ao	146	ILE	CB-CA-C	-10.96	98.87	111.59
1	AQ	146	ILE	CB-CA-C	-10.96	98.87	111.59
1	AB	146	ILE	CB-CA-C	-10.96	98.88	111.59
1	A6	146	ILE	CB-CA-C	-10.96	98.88	111.59
1	AT	146	ILE	CB-CA-C	-10.95	98.88	111.59
1	AE	146	ILE	CB-CA-C	-10.95	98.89	111.59
1	A3	146	ILE	CB-CA-C	-10.95	98.89	111.59
1	Al	146	ILE	CB-CA-C	-10.95	98.89	111.59
1	AG	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	AL	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	DG	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	AP	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	Am	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	DF	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	Ak	146	ILE	CB-CA-C	-10.94	98.91	111.59
1	DH	146	ILE	CB-CA-C	-10.94	98.90	111.59
1	An	146	ILE	CB-CA-C	-10.93	98.91	111.59
1	AC	146	ILE	CB-CA-C	-10.93	98.91	111.59
1	DK	146	ILE	CB-CA-C	-10.93	98.91	111.59
1	DC	146	ILE	CB-CA-C	-10.92	98.92	111.59
1	AX	146	ILE	CB-CA-C	-10.92	98.92	111.59
1	Ag	146	ILE	CB-CA-C	-10.92	98.92	111.59
1	A2	146	ILE	CB-CA-C	-10.92	98.93	111.59
1	Aj	146	ILE	CB-CA-C	-10.92	98.93	111.59
1	AD	146	ILE	CB-CA-C	-10.91	98.93	111.59
1	Ah	146	ILE	CB-CA-C	-10.91	98.93	111.59
1	AW	146	ILE	CB-CA-C	-10.91	98.93	111.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A0	146	ILE	CB-CA-C	-10.91	98.94	111.59
1	AV	146	ILE	CB-CA-C	-10.90	98.94	111.59
1	A7	146	ILE	CB-CA-C	-10.90	98.94	111.59
1	AM	146	ILE	CB-CA-C	-10.90	98.95	111.59
1	A5	146	ILE	CB-CA-C	-10.90	98.95	111.59
1	DE	146	ILE	CB-CA-C	-10.90	98.94	111.59
1	Af	146	ILE	CB-CA-C	-10.90	98.95	111.59
1	AH	146	ILE	CB-CA-C	-10.90	98.95	111.59
1	AK	146	ILE	CB-CA-C	-10.90	98.95	111.59
1	AZ	146	ILE	CB-CA-C	-10.89	98.95	111.59
1	Aa	146	ILE	CB-CA-C	-10.89	98.95	111.59
1	Ac	146	ILE	CB-CA-C	-10.89	98.95	111.59
1	DD	146	ILE	CB-CA-C	-10.89	98.95	111.59
1	A1	146	ILE	CB-CA-C	-10.89	98.96	111.59
1	AN	146	ILE	CB-CA-C	-10.89	98.96	111.59
1	AR	146	ILE	CB-CA-C	-10.89	98.96	111.59
1	AS	146	ILE	CB-CA-C	-10.88	98.97	111.59
1	DI	146	ILE	CB-CA-C	-10.88	98.97	111.59
1	DJ	146	ILE	CB-CA-C	-10.86	98.99	111.59
1	Ab	146	ILE	CB-CA-C	-10.86	99.00	111.59
1	A4	146	ILE	CB-CA-C	-10.85	99.01	111.59
1	AI	146	ILE	CB-CA-C	-10.85	99.01	111.59
1	AU	146	ILE	CB-CA-C	-10.84	99.02	111.59
1	AG	62	SER	N-CA-C	10.75	124.97	110.35
1	AU	62	SER	N-CA-C	10.73	124.94	110.35
1	A8	62	SER	N-CA-C	10.72	124.93	110.35
1	A9	62	SER	N-CA-C	10.72	124.93	110.35
1	DH	62	SER	N-CA-C	10.72	124.92	110.35
1	AB	62	SER	N-CA-C	10.71	124.92	110.35
1	Ae	62	SER	N-CA-C	10.71	124.92	110.35
1	AT	62	SER	N-CA-C	10.71	124.92	110.35
1	Aj	62	SER	N-CA-C	10.71	124.92	110.35
1	DG	62	SER	N-CA-C	10.71	124.92	110.35
1	AJ	62	SER	N-CA-C	10.71	124.92	110.35
1	AP	62	SER	N-CA-C	10.71	124.91	110.35
1	AZ	62	SER	N-CA-C	10.71	124.91	110.35
1	Ai	62	SER	N-CA-C	10.70	124.91	110.35
1	AH	62	SER	N-CA-C	10.70	124.91	110.35
1	A1	62	SER	N-CA-C	10.70	124.91	110.35
1	A4	62	SER	N-CA-C	10.70	124.90	110.35
1	AQ	62	SER	N-CA-C	10.70	124.90	110.35
1	AY	62	SER	N-CA-C	10.70	124.89	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A6	62	SER	N-CA-C	10.70	124.89	110.35
1	DF	62	SER	N-CA-C	10.70	124.90	110.35
1	An	62	SER	N-CA-C	10.69	124.89	110.35
1	DI	62	SER	N-CA-C	10.69	124.89	110.35
1	Ak	62	SER	N-CA-C	10.69	124.89	110.35
1	AF	62	SER	N-CA-C	10.69	124.89	110.35
1	AI	62	SER	N-CA-C	10.69	124.89	110.35
1	AM	62	SER	N-CA-C	10.69	124.88	110.35
1	Ab	62	SER	N-CA-C	10.69	124.89	110.35
1	AD	62	SER	N-CA-C	10.68	124.88	110.35
1	Ad	62	SER	N-CA-C	10.68	124.88	110.35
1	AR	62	SER	N-CA-C	10.68	124.87	110.35
1	Ao	62	SER	N-CA-C	10.68	124.87	110.35
1	AX	62	SER	N-CA-C	10.68	124.87	110.35
1	Al	62	SER	N-CA-C	10.67	124.87	110.35
1	AA	62	SER	N-CA-C	10.67	124.86	110.35
1	AK	62	SER	N-CA-C	10.67	124.86	110.35
1	A3	62	SER	N-CA-C	10.67	124.86	110.35
1	DC	62	SER	N-CA-C	10.67	124.86	110.35
1	AO	62	SER	N-CA-C	10.66	124.84	110.35
1	A5	62	SER	N-CA-C	10.66	124.84	110.35
1	A7	62	SER	N-CA-C	10.66	124.84	110.35
1	Ag	62	SER	N-CA-C	10.66	124.84	110.35
1	AL	62	SER	N-CA-C	10.65	124.84	110.35
1	Af	62	SER	N-CA-C	10.65	124.84	110.35
1	DD	62	SER	N-CA-C	10.65	124.83	110.35
1	DK	62	SER	N-CA-C	10.65	124.83	110.35
1	AC	62	SER	N-CA-C	10.65	124.83	110.35
1	AW	62	SER	N-CA-C	10.65	124.83	110.35
1	AV	62	SER	N-CA-C	10.65	124.83	110.35
1	Ah	62	SER	N-CA-C	10.64	124.82	110.35
1	Ac	62	SER	N-CA-C	10.64	124.82	110.35
1	Am	62	SER	N-CA-C	10.64	124.82	110.35
1	AE	62	SER	N-CA-C	10.63	124.80	110.35
1	Aa	62	SER	N-CA-C	10.63	124.81	110.35
1	DE	62	SER	N-CA-C	10.63	124.81	110.35
1	AS	62	SER	N-CA-C	10.62	124.80	110.35
1	DJ	62	SER	N-CA-C	10.62	124.80	110.35
1	AN	62	SER	N-CA-C	10.61	124.78	110.35
1	A0	62	SER	N-CA-C	10.60	124.77	110.35
1	A2	62	SER	N-CA-C	10.59	124.75	110.35
1	Af	60	PHE	N-CA-C	10.20	123.85	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Aa	60	PHE	N-CA-C	10.18	123.81	111.40
1	AL	60	PHE	N-CA-C	10.17	123.81	111.40
1	Ak	60	PHE	N-CA-C	10.17	123.81	111.40
1	Ai	60	PHE	N-CA-C	10.15	123.78	111.40
1	AF	60	PHE	N-CA-C	10.14	123.77	111.40
1	AW	60	PHE	N-CA-C	10.14	123.77	111.40
1	A0	60	PHE	N-CA-C	10.13	123.76	111.40
1	AK	60	PHE	N-CA-C	10.13	123.76	111.40
1	AQ	60	PHE	N-CA-C	10.13	123.76	111.40
1	AC	60	PHE	N-CA-C	10.12	123.75	111.40
1	AO	60	PHE	N-CA-C	10.12	123.75	111.40
1	DI	60	PHE	N-CA-C	10.12	123.75	111.40
1	An	60	PHE	N-CA-C	10.12	123.75	111.40
1	AB	60	PHE	N-CA-C	10.12	123.74	111.40
1	DH	60	PHE	N-CA-C	10.12	123.74	111.40
1	A5	60	PHE	N-CA-C	10.12	123.74	111.40
1	AJ	60	PHE	N-CA-C	10.11	123.74	111.40
1	Am	60	PHE	N-CA-C	10.11	123.74	111.40
1	AG	60	PHE	N-CA-C	10.11	123.73	111.40
1	Ao	60	PHE	N-CA-C	10.11	123.73	111.40
1	DC	60	PHE	N-CA-C	10.11	123.73	111.40
1	Ao	6	GLU	N-CA-C	10.11	125.17	112.24
1	AD	60	PHE	N-CA-C	10.10	123.72	111.40
1	AH	60	PHE	N-CA-C	10.10	123.72	111.40
1	AS	60	PHE	N-CA-C	10.10	123.72	111.40
1	AY	60	PHE	N-CA-C	10.10	123.72	111.40
1	A3	60	PHE	N-CA-C	10.10	123.72	111.40
1	DK	60	PHE	N-CA-C	10.10	123.72	111.40
1	AM	60	PHE	N-CA-C	10.09	123.71	111.40
1	Ae	60	PHE	N-CA-C	10.09	123.71	111.40
1	DJ	60	PHE	N-CA-C	10.09	123.71	111.40
1	AN	60	PHE	N-CA-C	10.09	123.71	111.40
1	A4	60	PHE	N-CA-C	10.09	123.71	111.40
1	AP	60	PHE	N-CA-C	10.09	123.70	111.40
1	Ac	60	PHE	N-CA-C	10.09	123.70	111.40
1	Al	60	PHE	N-CA-C	10.09	123.70	111.40
1	AA	60	PHE	N-CA-C	10.08	123.70	111.40
1	A9	60	PHE	N-CA-C	10.08	123.70	111.40
1	AV	60	PHE	N-CA-C	10.08	123.70	111.40
1	A8	60	PHE	N-CA-C	10.08	123.70	111.40
1	DG	60	PHE	N-CA-C	10.08	123.70	111.40
1	DF	60	PHE	N-CA-C	10.08	123.70	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A3	6	GLU	N-CA-C	10.08	125.14	112.24
1	DE	60	PHE	N-CA-C	10.08	123.70	111.40
1	Aj	60	PHE	N-CA-C	10.08	123.69	111.40
1	Ah	6	GLU	N-CA-C	10.07	125.14	112.24
1	AM	6	GLU	N-CA-C	10.07	125.13	112.24
1	AU	6	GLU	N-CA-C	10.07	125.13	112.24
1	AX	60	PHE	N-CA-C	10.07	123.69	111.40
1	AZ	60	PHE	N-CA-C	10.07	123.69	111.40
1	Ac	6	GLU	N-CA-C	10.07	125.13	112.24
1	AI	60	PHE	N-CA-C	10.07	123.69	111.40
1	A0	6	GLU	N-CA-C	10.07	125.13	112.24
1	AO	6	GLU	N-CA-C	10.07	125.13	112.24
1	Am	6	GLU	N-CA-C	10.07	125.13	112.24
1	AB	6	GLU	N-CA-C	10.07	125.13	112.24
1	AT	6	GLU	N-CA-C	10.07	125.12	112.24
1	A1	60	PHE	N-CA-C	10.07	123.68	111.40
1	Ai	6	GLU	N-CA-C	10.07	125.13	112.24
1	A6	60	PHE	N-CA-C	10.07	123.68	111.40
1	AP	6	GLU	N-CA-C	10.06	125.12	112.24
1	AU	60	PHE	N-CA-C	10.06	123.68	111.40
1	AR	60	PHE	N-CA-C	10.06	123.68	111.40
1	AT	60	PHE	N-CA-C	10.06	123.68	111.40
1	DI	6	GLU	N-CA-C	10.06	125.12	112.24
1	DJ	6	GLU	N-CA-C	10.06	125.12	112.24
1	Ag	60	PHE	N-CA-C	10.06	123.67	111.40
1	A5	6	GLU	N-CA-C	10.06	125.11	112.24
1	Ae	6	GLU	N-CA-C	10.06	125.11	112.24
1	Ad	60	PHE	N-CA-C	10.05	123.67	111.40
1	AF	6	GLU	N-CA-C	10.05	125.11	112.24
1	Ab	60	PHE	N-CA-C	10.05	123.66	111.40
1	DH	6	GLU	N-CA-C	10.05	125.10	112.24
1	AS	6	GLU	N-CA-C	10.05	125.10	112.24
1	A1	6	GLU	N-CA-C	10.05	125.10	112.24
1	A4	6	GLU	N-CA-C	10.05	125.10	112.24
1	Aa	6	GLU	N-CA-C	10.05	125.10	112.24
1	DC	6	GLU	N-CA-C	10.05	125.10	112.24
1	DF	6	GLU	N-CA-C	10.05	125.10	112.24
1	Ag	6	GLU	N-CA-C	10.04	125.10	112.24
1	AE	60	PHE	N-CA-C	10.04	123.65	111.40
1	AW	6	GLU	N-CA-C	10.04	125.09	112.24
1	A7	60	PHE	N-CA-C	10.04	123.65	111.40
1	AZ	6	GLU	N-CA-C	10.04	125.09	112.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Af	6	GLU	N-CA-C	10.04	125.09	112.24
1	A8	6	GLU	N-CA-C	10.03	125.08	112.24
1	Aj	6	GLU	N-CA-C	10.03	125.08	112.24
1	AC	6	GLU	N-CA-C	10.03	125.08	112.24
1	A2	60	PHE	N-CA-C	10.03	123.64	111.40
1	Ab	6	GLU	N-CA-C	10.03	125.08	112.24
1	Ad	6	GLU	N-CA-C	10.03	125.08	112.24
1	AR	6	GLU	N-CA-C	10.03	125.07	112.24
1	DG	6	GLU	N-CA-C	10.03	125.07	112.24
1	AI	6	GLU	N-CA-C	10.02	125.07	112.24
1	A2	6	GLU	N-CA-C	10.02	125.07	112.24
1	Ah	60	PHE	N-CA-C	10.02	123.63	111.40
1	Ak	6	GLU	N-CA-C	10.02	125.07	112.24
1	DD	6	GLU	N-CA-C	10.02	125.07	112.24
1	AN	6	GLU	N-CA-C	10.02	125.06	112.24
1	AQ	6	GLU	N-CA-C	10.02	125.06	112.24
1	A9	6	GLU	N-CA-C	10.02	125.06	112.24
1	AH	6	GLU	N-CA-C	10.02	125.06	112.24
1	AE	6	GLU	N-CA-C	10.02	125.06	112.24
1	AL	6	GLU	N-CA-C	10.02	125.06	112.24
1	DE	6	GLU	N-CA-C	10.02	125.06	112.24
1	AV	6	GLU	N-CA-C	10.01	125.06	112.24
1	A6	6	GLU	N-CA-C	10.01	125.06	112.24
1	AX	6	GLU	N-CA-C	10.01	125.06	112.24
1	A7	6	GLU	N-CA-C	10.01	125.05	112.24
1	DD	60	PHE	N-CA-C	10.01	123.61	111.40
1	AJ	6	GLU	N-CA-C	10.00	125.04	112.24
1	DK	6	GLU	N-CA-C	10.00	125.05	112.24
1	AI	6	GLU	N-CA-C	10.00	125.04	112.24
1	AG	6	GLU	N-CA-C	10.00	125.04	112.24
1	AK	6	GLU	N-CA-C	10.00	125.04	112.24
1	AA	6	GLU	N-CA-C	9.99	125.03	112.24
1	AD	6	GLU	N-CA-C	9.98	125.01	112.24
1	An	6	GLU	N-CA-C	9.97	125.01	112.24
1	AY	6	GLU	N-CA-C	9.95	124.98	112.24
1	Ah	21	PRO	N-CA-C	9.45	131.94	112.47
1	A2	21	PRO	N-CA-C	9.45	131.93	112.47
1	Aa	21	PRO	N-CA-C	9.45	131.93	112.47
1	DJ	21	PRO	N-CA-C	9.45	131.93	112.47
1	Am	21	PRO	N-CA-C	9.44	131.92	112.47
1	An	21	PRO	N-CA-C	9.44	131.92	112.47
1	DG	21	PRO	N-CA-C	9.44	131.91	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	21	PRO	N-CA-C	9.44	131.91	112.47
1	AX	21	PRO	N-CA-C	9.43	131.90	112.47
1	DC	21	PRO	N-CA-C	9.43	131.90	112.47
1	DF	21	PRO	N-CA-C	9.43	131.90	112.47
1	AO	21	PRO	N-CA-C	9.43	131.90	112.47
1	AH	21	PRO	N-CA-C	9.43	131.89	112.47
1	DK	21	PRO	N-CA-C	9.43	131.90	112.47
1	AP	21	PRO	N-CA-C	9.43	131.89	112.47
1	A7	21	PRO	N-CA-C	9.43	131.89	112.47
1	Ad	21	PRO	N-CA-C	9.43	131.89	112.47
1	Ae	21	PRO	N-CA-C	9.43	131.89	112.47
1	AK	21	PRO	N-CA-C	9.42	131.88	112.47
1	DE	21	PRO	N-CA-C	9.42	131.88	112.47
1	AJ	21	PRO	N-CA-C	9.42	131.88	112.47
1	AT	21	PRO	N-CA-C	9.42	131.87	112.47
1	AG	21	PRO	N-CA-C	9.42	131.87	112.47
1	AA	21	PRO	N-CA-C	9.42	131.87	112.47
1	AQ	21	PRO	N-CA-C	9.42	131.87	112.47
1	Ao	21	PRO	N-CA-C	9.42	131.87	112.47
1	AV	21	PRO	N-CA-C	9.41	131.86	112.47
1	AY	21	PRO	N-CA-C	9.41	131.86	112.47
1	Af	21	PRO	N-CA-C	9.41	131.86	112.47
1	DI	21	PRO	N-CA-C	9.41	131.86	112.47
1	A8	21	PRO	N-CA-C	9.41	131.85	112.47
1	AB	21	PRO	N-CA-C	9.41	131.85	112.47
1	AS	21	PRO	N-CA-C	9.41	131.85	112.47
1	A4	21	PRO	N-CA-C	9.41	131.85	112.47
1	Ak	21	PRO	N-CA-C	9.41	131.85	112.47
1	AM	21	PRO	N-CA-C	9.40	131.84	112.47
1	Ac	21	PRO	N-CA-C	9.40	131.84	112.47
1	AC	21	PRO	N-CA-C	9.40	131.84	112.47
1	AF	21	PRO	N-CA-C	9.40	131.83	112.47
1	Ai	21	PRO	N-CA-C	9.40	131.83	112.47
1	AL	21	PRO	N-CA-C	9.40	131.83	112.47
1	AU	21	PRO	N-CA-C	9.40	131.82	112.47
1	Ab	21	PRO	N-CA-C	9.39	131.82	112.47
1	AZ	21	PRO	N-CA-C	9.39	131.82	112.47
1	A1	21	PRO	N-CA-C	9.39	131.82	112.47
1	A9	21	PRO	N-CA-C	9.39	131.82	112.47
1	A0	21	PRO	N-CA-C	9.39	131.81	112.47
1	AD	21	PRO	N-CA-C	9.39	131.81	112.47
1	A5	21	PRO	N-CA-C	9.39	131.81	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AR	21	PRO	N-CA-C	9.39	131.81	112.47
1	DD	21	PRO	N-CA-C	9.39	131.81	112.47
1	DH	21	PRO	N-CA-C	9.39	131.81	112.47
1	Ai	225	PRO	CA-C-N	9.38	131.57	119.84
1	Ai	225	PRO	C-N-CA	9.38	131.57	119.84
1	Aj	21	PRO	N-CA-C	9.38	131.80	112.47
1	A3	21	PRO	N-CA-C	9.38	131.80	112.47
1	Al	21	PRO	N-CA-C	9.38	131.79	112.47
1	AW	21	PRO	N-CA-C	9.38	131.79	112.47
1	AN	21	PRO	N-CA-C	9.38	131.78	112.47
1	An	225	PRO	CA-C-N	9.37	131.56	119.84
1	An	225	PRO	C-N-CA	9.37	131.56	119.84
1	Ad	225	PRO	CA-C-N	9.37	131.56	119.84
1	Ad	225	PRO	C-N-CA	9.37	131.56	119.84
1	AG	225	PRO	CA-C-N	9.37	131.55	119.84
1	AG	225	PRO	C-N-CA	9.37	131.55	119.84
1	AK	225	PRO	CA-C-N	9.37	131.55	119.84
1	AK	225	PRO	C-N-CA	9.37	131.55	119.84
1	AU	225	PRO	CA-C-N	9.37	131.55	119.84
1	AU	225	PRO	C-N-CA	9.37	131.55	119.84
1	AI	21	PRO	N-CA-C	9.37	131.76	112.47
1	AA	225	PRO	CA-C-N	9.36	131.54	119.84
1	AA	225	PRO	C-N-CA	9.36	131.54	119.84
1	Ag	21	PRO	N-CA-C	9.36	131.76	112.47
1	AH	225	PRO	CA-C-N	9.35	131.53	119.84
1	AH	225	PRO	C-N-CA	9.35	131.53	119.84
1	A6	21	PRO	N-CA-C	9.35	131.74	112.47
1	A8	225	PRO	CA-C-N	9.35	131.53	119.84
1	A8	225	PRO	C-N-CA	9.35	131.53	119.84
1	AJ	225	PRO	CA-C-N	9.35	131.53	119.84
1	AJ	225	PRO	C-N-CA	9.35	131.53	119.84
1	DF	225	PRO	CA-C-N	9.35	131.53	119.84
1	DF	225	PRO	C-N-CA	9.35	131.53	119.84
1	DH	225	PRO	CA-C-N	9.35	131.53	119.84
1	DH	225	PRO	C-N-CA	9.35	131.53	119.84
1	Ak	225	PRO	CA-C-N	9.35	131.52	119.84
1	Ak	225	PRO	C-N-CA	9.35	131.52	119.84
1	AF	225	PRO	CA-C-N	9.34	131.52	119.84
1	AF	225	PRO	C-N-CA	9.34	131.52	119.84
1	AM	225	PRO	CA-C-N	9.34	131.52	119.84
1	AM	225	PRO	C-N-CA	9.34	131.52	119.84
1	AN	225	PRO	CA-C-N	9.34	131.51	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AN	225	PRO	C-N-CA	9.34	131.51	119.84
1	AO	225	PRO	CA-C-N	9.34	131.51	119.84
1	AO	225	PRO	C-N-CA	9.34	131.51	119.84
1	AE	225	PRO	CA-C-N	9.33	131.51	119.84
1	AE	225	PRO	C-N-CA	9.33	131.51	119.84
1	AY	225	PRO	CA-C-N	9.33	131.50	119.84
1	AY	225	PRO	C-N-CA	9.33	131.50	119.84
1	Ae	225	PRO	CA-C-N	9.33	131.50	119.84
1	Ae	225	PRO	C-N-CA	9.33	131.50	119.84
1	A0	225	PRO	CA-C-N	9.33	131.50	119.84
1	A0	225	PRO	C-N-CA	9.33	131.50	119.84
1	A4	225	PRO	CA-C-N	9.33	131.50	119.84
1	A4	225	PRO	C-N-CA	9.33	131.50	119.84
1	A3	225	PRO	CA-C-N	9.33	131.50	119.84
1	A3	225	PRO	C-N-CA	9.33	131.50	119.84
1	DK	225	PRO	CA-C-N	9.33	131.50	119.84
1	DK	225	PRO	C-N-CA	9.33	131.50	119.84
1	Ac	225	PRO	CA-C-N	9.32	131.49	119.84
1	Ac	225	PRO	C-N-CA	9.32	131.49	119.84
1	AZ	225	PRO	CA-C-N	9.32	131.49	119.84
1	AZ	225	PRO	C-N-CA	9.32	131.49	119.84
1	Aj	225	PRO	CA-C-N	9.32	131.49	119.84
1	Aj	225	PRO	C-N-CA	9.32	131.49	119.84
1	AT	225	PRO	CA-C-N	9.32	131.49	119.84
1	AT	225	PRO	C-N-CA	9.32	131.49	119.84
1	A5	225	PRO	CA-C-N	9.31	131.48	119.84
1	A5	225	PRO	C-N-CA	9.31	131.48	119.84
1	AW	225	PRO	CA-C-N	9.31	131.48	119.84
1	AW	225	PRO	C-N-CA	9.31	131.48	119.84
1	A7	225	PRO	CA-C-N	9.31	131.48	119.84
1	A7	225	PRO	C-N-CA	9.31	131.48	119.84
1	AR	225	PRO	CA-C-N	9.31	131.48	119.84
1	AR	225	PRO	C-N-CA	9.31	131.48	119.84
1	AC	225	PRO	CA-C-N	9.31	131.48	119.84
1	AC	225	PRO	C-N-CA	9.31	131.48	119.84
1	Am	225	PRO	CA-C-N	9.31	131.48	119.84
1	Am	225	PRO	C-N-CA	9.31	131.48	119.84
1	A9	225	PRO	CA-C-N	9.30	131.47	119.84
1	A9	225	PRO	C-N-CA	9.30	131.47	119.84
1	AP	225	PRO	CA-C-N	9.30	131.47	119.84
1	AP	225	PRO	C-N-CA	9.30	131.47	119.84
1	AX	225	PRO	CA-C-N	9.30	131.47	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AX	225	PRO	C-N-CA	9.30	131.47	119.84
1	Aa	225	PRO	CA-C-N	9.30	131.47	119.84
1	Aa	225	PRO	C-N-CA	9.30	131.47	119.84
1	Af	225	PRO	CA-C-N	9.30	131.47	119.84
1	Af	225	PRO	C-N-CA	9.30	131.47	119.84
1	DC	225	PRO	CA-C-N	9.30	131.47	119.84
1	DC	225	PRO	C-N-CA	9.30	131.47	119.84
1	AB	225	PRO	CA-C-N	9.30	131.47	119.84
1	AB	225	PRO	C-N-CA	9.30	131.47	119.84
1	AI	225	PRO	CA-C-N	9.30	131.47	119.84
1	AI	225	PRO	C-N-CA	9.30	131.47	119.84
1	AL	225	PRO	CA-C-N	9.30	131.47	119.84
1	AL	225	PRO	C-N-CA	9.30	131.47	119.84
1	DG	225	PRO	CA-C-N	9.30	131.47	119.84
1	DG	225	PRO	C-N-CA	9.30	131.47	119.84
1	DE	225	PRO	CA-C-N	9.29	131.46	119.84
1	DE	225	PRO	C-N-CA	9.29	131.46	119.84
1	Ah	225	PRO	CA-C-N	9.29	131.45	119.84
1	Ah	225	PRO	C-N-CA	9.29	131.45	119.84
1	Al	225	PRO	CA-C-N	9.29	131.45	119.84
1	Al	225	PRO	C-N-CA	9.29	131.45	119.84
1	DJ	225	PRO	CA-C-N	9.29	131.45	119.84
1	DJ	225	PRO	C-N-CA	9.29	131.45	119.84
1	AD	225	PRO	CA-C-N	9.28	131.44	119.84
1	AD	225	PRO	C-N-CA	9.28	131.44	119.84
1	A2	225	PRO	CA-C-N	9.29	131.45	119.84
1	A2	225	PRO	C-N-CA	9.29	131.45	119.84
1	AS	225	PRO	CA-C-N	9.28	131.44	119.84
1	AS	225	PRO	C-N-CA	9.28	131.44	119.84
1	Ab	225	PRO	CA-C-N	9.28	131.44	119.84
1	Ab	225	PRO	C-N-CA	9.28	131.44	119.84
1	Ag	225	PRO	CA-C-N	9.28	131.44	119.84
1	Ag	225	PRO	C-N-CA	9.28	131.44	119.84
1	Ao	225	PRO	CA-C-N	9.28	131.44	119.84
1	Ao	225	PRO	C-N-CA	9.28	131.44	119.84
1	A1	225	PRO	CA-C-N	9.27	131.43	119.84
1	A1	225	PRO	C-N-CA	9.27	131.43	119.84
1	AQ	225	PRO	CA-C-N	9.27	131.43	119.84
1	AQ	225	PRO	C-N-CA	9.27	131.43	119.84
1	DI	225	PRO	CA-C-N	9.27	131.43	119.84
1	DI	225	PRO	C-N-CA	9.27	131.43	119.84
1	DD	225	PRO	CA-C-N	9.27	131.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DD	225	PRO	C-N-CA	9.27	131.42	119.84
1	AV	225	PRO	CA-C-N	9.25	131.41	119.84
1	AV	225	PRO	C-N-CA	9.25	131.41	119.84
1	A6	225	PRO	CA-C-N	9.21	131.36	119.84
1	A6	225	PRO	C-N-CA	9.21	131.36	119.84
1	AP	7	ASP	N-CA-C	-8.99	102.71	114.31
1	AV	7	ASP	N-CA-C	-8.99	102.71	114.31
1	Ah	7	ASP	N-CA-C	-8.98	102.72	114.31
1	A0	7	ASP	N-CA-C	-8.98	102.73	114.31
1	AH	7	ASP	N-CA-C	-8.97	102.73	114.31
2	BU	86	ASP	CB-CA-C	8.97	124.46	109.38
2	B4	86	ASP	CB-CA-C	8.97	124.46	109.38
1	DH	7	ASP	N-CA-C	-8.97	102.73	114.31
1	A2	7	ASP	N-CA-C	-8.97	102.74	114.31
1	AK	7	ASP	N-CA-C	-8.97	102.74	114.31
1	Ae	7	ASP	N-CA-C	-8.97	102.74	114.31
2	Bd	86	ASP	CB-CA-C	8.97	124.44	109.38
1	AQ	7	ASP	N-CA-C	-8.96	102.75	114.31
2	BA	86	ASP	CB-CA-C	8.97	124.44	109.38
1	A5	7	ASP	N-CA-C	-8.96	102.75	114.31
2	Bn	86	ASP	CB-CA-C	8.96	124.43	109.38
1	DJ	7	ASP	N-CA-C	-8.96	102.75	114.31
2	BF	86	ASP	CB-CA-C	8.96	124.43	109.38
2	B6	86	ASP	CB-CA-C	8.96	124.43	109.38
1	AC	7	ASP	N-CA-C	-8.96	102.76	114.31
1	Af	7	ASP	N-CA-C	-8.96	102.76	114.31
1	DG	7	ASP	N-CA-C	-8.96	102.76	114.31
1	A9	7	ASP	N-CA-C	-8.95	102.76	114.31
2	BO	86	ASP	CB-CA-C	8.95	124.42	109.38
2	BQ	86	ASP	CB-CA-C	8.96	124.42	109.38
2	Bs	86	ASP	CB-CA-C	8.96	124.42	109.38
2	BI	86	ASP	CB-CA-C	8.95	124.42	109.38
2	Bi	86	ASP	CB-CA-C	8.95	124.42	109.38
1	A1	7	ASP	N-CA-C	-8.95	102.77	114.31
1	Aa	7	ASP	N-CA-C	-8.95	102.77	114.31
1	Ak	7	ASP	N-CA-C	-8.95	102.77	114.31
2	Bv	86	ASP	CB-CA-C	8.95	124.41	109.38
2	BD	86	ASP	CB-CA-C	8.94	124.41	109.38
1	AA	7	ASP	N-CA-C	-8.94	102.77	114.31
1	AL	7	ASP	N-CA-C	-8.94	102.78	114.31
1	AZ	7	ASP	N-CA-C	-8.94	102.78	114.31
1	A3	7	ASP	N-CA-C	-8.94	102.77	114.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BX	86	ASP	CB-CA-C	8.94	124.40	109.38
2	BZ	86	ASP	CB-CA-C	8.94	124.40	109.38
2	B3	86	ASP	CB-CA-C	8.94	124.40	109.38
2	Bm	86	ASP	CB-CA-C	8.94	124.40	109.38
1	AF	7	ASP	N-CA-C	-8.94	102.78	114.31
1	Al	7	ASP	N-CA-C	-8.94	102.78	114.31
2	BP	86	ASP	CB-CA-C	8.94	124.39	109.38
1	AS	7	ASP	N-CA-C	-8.94	102.78	114.31
2	BN	86	ASP	CB-CA-C	8.94	124.39	109.38
2	BS	86	ASP	CB-CA-C	8.94	124.39	109.38
2	B0	86	ASP	CB-CA-C	8.94	124.39	109.38
2	Bx	86	ASP	CB-CA-C	8.94	124.39	109.38
1	DK	7	ASP	N-CA-C	-8.94	102.78	114.31
1	AB	7	ASP	N-CA-C	-8.93	102.79	114.31
1	AJ	7	ASP	N-CA-C	-8.93	102.79	114.31
2	BK	86	ASP	CB-CA-C	8.93	124.39	109.38
2	Bb	86	ASP	CB-CA-C	8.93	124.39	109.38
2	Bc	86	ASP	CB-CA-C	8.93	124.39	109.38
2	Bl	86	ASP	CB-CA-C	8.93	124.39	109.38
2	Bt	86	ASP	CB-CA-C	8.93	124.39	109.38
1	Ao	7	ASP	N-CA-C	-8.93	102.79	114.31
2	BB	86	ASP	CB-CA-C	8.93	124.38	109.38
2	BC	86	ASP	CB-CA-C	8.93	124.38	109.38
2	BV	86	ASP	CB-CA-C	8.93	124.38	109.38
2	B8	86	ASP	CB-CA-C	8.93	124.38	109.38
2	Bp	86	ASP	CB-CA-C	8.93	124.38	109.38
2	Bo	86	ASP	CB-CA-C	8.93	124.38	109.38
1	DC	7	ASP	N-CA-C	-8.93	102.79	114.31
1	AT	7	ASP	N-CA-C	-8.93	102.80	114.31
2	Bh	86	ASP	CB-CA-C	8.93	124.37	109.38
1	Am	7	ASP	N-CA-C	-8.92	102.80	114.31
1	An	7	ASP	N-CA-C	-8.92	102.80	114.31
2	BE	86	ASP	CB-CA-C	8.92	124.37	109.38
2	BH	86	ASP	CB-CA-C	8.92	124.37	109.38
2	B9	86	ASP	CB-CA-C	8.92	124.37	109.38
2	Bj	86	ASP	CB-CA-C	8.92	124.37	109.38
1	AE	7	ASP	N-CA-C	-8.92	102.80	114.31
1	AN	7	ASP	N-CA-C	-8.92	102.80	114.31
1	AX	7	ASP	N-CA-C	-8.92	102.80	114.31
1	A8	7	ASP	N-CA-C	-8.92	102.80	114.31
1	Ag	7	ASP	N-CA-C	-8.92	102.80	114.31
2	BG	86	ASP	CB-CA-C	8.92	124.37	109.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BT	86	ASP	CB-CA-C	8.92	124.36	109.38
1	A4	7	ASP	N-CA-C	-8.92	102.81	114.31
1	A6	7	ASP	N-CA-C	-8.92	102.81	114.31
2	Ba	86	ASP	CB-CA-C	8.92	124.36	109.38
2	Bf	86	ASP	CB-CA-C	8.92	124.36	109.38
2	Br	86	ASP	CB-CA-C	8.92	124.36	109.38
1	AR	7	ASP	N-CA-C	-8.91	102.81	114.31
1	AD	7	ASP	N-CA-C	-8.91	102.81	114.31
1	AG	7	ASP	N-CA-C	-8.91	102.81	114.31
1	AY	7	ASP	N-CA-C	-8.91	102.81	114.31
2	BJ	86	ASP	CB-CA-C	8.91	124.35	109.38
2	BY	86	ASP	CB-CA-C	8.91	124.35	109.38
2	BR	86	ASP	CB-CA-C	8.91	124.35	109.38
1	AO	7	ASP	N-CA-C	-8.91	102.82	114.31
1	Ab	7	ASP	N-CA-C	-8.91	102.82	114.31
1	Ad	7	ASP	N-CA-C	-8.91	102.82	114.31
2	BL	86	ASP	CB-CA-C	8.91	124.34	109.38
2	B7	86	ASP	CB-CA-C	8.91	124.34	109.38
1	DE	7	ASP	N-CA-C	-8.91	102.82	114.31
2	BM	86	ASP	CB-CA-C	8.90	124.34	109.38
2	Be	86	ASP	CB-CA-C	8.90	124.34	109.38
1	AU	7	ASP	N-CA-C	-8.90	102.83	114.31
2	Bu	86	ASP	CB-CA-C	8.90	124.33	109.38
1	DD	7	ASP	N-CA-C	-8.90	102.83	114.31
1	AM	7	ASP	N-CA-C	-8.89	102.83	114.31
1	Ai	7	ASP	N-CA-C	-8.89	102.83	114.31
1	Aj	7	ASP	N-CA-C	-8.89	102.84	114.31
2	B5	86	ASP	CB-CA-C	8.89	124.32	109.38
2	Bk	86	ASP	CB-CA-C	8.89	124.32	109.38
1	Ac	7	ASP	N-CA-C	-8.89	102.84	114.31
2	Bg	86	ASP	CB-CA-C	8.89	124.32	109.38
1	DI	7	ASP	N-CA-C	-8.89	102.84	114.31
2	Bq	86	ASP	CB-CA-C	8.89	124.31	109.38
2	B1	86	ASP	CB-CA-C	8.89	124.31	109.38
2	B2	86	ASP	CB-CA-C	8.89	124.31	109.38
1	DF	7	ASP	N-CA-C	-8.89	102.85	114.31
1	AW	7	ASP	N-CA-C	-8.89	102.85	114.31
2	Bw	86	ASP	CB-CA-C	8.89	124.31	109.38
1	AI	7	ASP	N-CA-C	-8.88	102.85	114.31
2	BW	86	ASP	CB-CA-C	8.87	124.28	109.38
1	A7	7	ASP	N-CA-C	-8.86	102.89	114.31
3	CS	16	SER	N-CA-C	8.56	120.61	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ci	16	SER	N-CA-C	8.53	120.58	111.28
3	Cu	16	SER	N-CA-C	8.53	120.58	111.28
3	C8	16	SER	N-CA-C	8.52	120.56	111.28
3	DA	16	SER	N-CA-C	8.52	120.56	111.28
3	CQ	16	SER	N-CA-C	8.51	120.56	111.28
3	CM	16	SER	N-CA-C	8.51	120.56	111.28
3	CV	16	SER	N-CA-C	8.51	120.56	111.28
3	CD	16	SER	N-CA-C	8.51	120.56	111.28
3	CG	16	SER	N-CA-C	8.51	120.55	111.28
3	C6	16	SER	N-CA-C	8.51	120.55	111.28
3	C0	16	SER	N-CA-C	8.50	120.55	111.28
3	Cg	16	SER	N-CA-C	8.50	120.55	111.28
3	CP	16	SER	N-CA-C	8.50	120.54	111.28
3	CY	16	SER	N-CA-C	8.50	120.55	111.28
3	CE	16	SER	N-CA-C	8.50	120.54	111.28
3	CO	16	SER	N-CA-C	8.50	120.54	111.28
3	C4	16	SER	N-CA-C	8.50	120.54	111.28
3	Co	16	SER	N-CA-C	8.50	120.54	111.28
3	C3	16	SER	N-CA-C	8.49	120.54	111.28
3	Cd	16	SER	N-CA-C	8.49	120.54	111.28
3	CU	16	SER	N-CA-C	8.49	120.54	111.28
3	CW	16	SER	N-CA-C	8.49	120.54	111.28
3	CJ	16	SER	N-CA-C	8.49	120.53	111.28
3	C5	16	SER	N-CA-C	8.48	120.53	111.28
3	Cv	16	SER	N-CA-C	8.48	120.53	111.28
3	CB	16	SER	N-CA-C	8.48	120.52	111.28
3	CX	16	SER	N-CA-C	8.48	120.52	111.28
3	Cj	16	SER	N-CA-C	8.47	120.52	111.28
3	Ct	16	SER	N-CA-C	8.47	120.52	111.28
3	Cn	16	SER	N-CA-C	8.47	120.52	111.28
3	CF	16	SER	N-CA-C	8.47	120.51	111.28
3	Ch	16	SER	N-CA-C	8.47	120.51	111.28
3	Ck	16	SER	N-CA-C	8.47	120.51	111.28
3	Cw	16	SER	N-CA-C	8.47	120.51	111.28
3	Cp	16	SER	N-CA-C	8.46	120.50	111.28
3	Cq	16	SER	N-CA-C	8.46	120.51	111.28
3	DB	16	SER	N-CA-C	8.46	120.51	111.28
3	Cx	16	SER	N-CA-C	8.46	120.50	111.28
3	CL	16	SER	N-CA-C	8.46	120.50	111.28
3	Cs	16	SER	N-CA-C	8.46	120.50	111.28
3	C7	16	SER	N-CA-C	8.46	120.50	111.28
3	Cr	16	SER	N-CA-C	8.46	120.50	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CZ	16	SER	N-CA-C	8.45	120.49	111.28
3	CK	16	SER	N-CA-C	8.45	120.49	111.28
3	C2	16	SER	N-CA-C	8.45	120.49	111.28
3	CC	16	SER	N-CA-C	8.45	120.49	111.28
3	Cc	16	SER	N-CA-C	8.45	120.49	111.28
3	Cm	16	SER	N-CA-C	8.45	120.49	111.28
3	CR	16	SER	N-CA-C	8.44	120.48	111.28
3	Cl	16	SER	N-CA-C	8.44	120.48	111.28
3	C1	16	SER	N-CA-C	8.44	120.48	111.28
3	CT	16	SER	N-CA-C	8.43	120.47	111.28
3	C9	16	SER	N-CA-C	8.43	120.47	111.28
3	Cf	16	SER	N-CA-C	8.43	120.47	111.28
3	CA	16	SER	N-CA-C	8.43	120.47	111.28
3	CH	16	SER	N-CA-C	8.43	120.47	111.28
3	Ce	16	SER	N-CA-C	8.43	120.47	111.28
3	CI	16	SER	N-CA-C	8.42	120.46	111.28
3	CN	16	SER	N-CA-C	8.42	120.45	111.28
1	AD	153	ALA	N-CA-C	8.38	121.08	109.18
1	Ab	153	ALA	N-CA-C	8.36	121.06	109.18
1	A6	153	ALA	N-CA-C	8.36	121.05	109.18
1	AR	153	ALA	N-CA-C	8.36	121.05	109.18
1	DI	153	ALA	N-CA-C	8.35	121.04	109.18
1	AL	153	ALA	N-CA-C	8.34	121.03	109.18
1	DD	153	ALA	N-CA-C	8.34	121.03	109.18
1	DK	153	ALA	N-CA-C	8.34	121.03	109.18
1	AI	153	ALA	N-CA-C	8.34	121.02	109.18
1	AW	153	ALA	N-CA-C	8.34	121.02	109.18
1	A1	153	ALA	N-CA-C	8.34	121.02	109.18
1	A0	153	ALA	N-CA-C	8.33	121.01	109.18
1	Ah	153	ALA	N-CA-C	8.33	121.01	109.18
1	AE	153	ALA	N-CA-C	8.33	121.00	109.18
1	AU	153	ALA	N-CA-C	8.33	121.00	109.18
1	Am	153	ALA	N-CA-C	8.33	121.01	109.18
1	Af	153	ALA	N-CA-C	8.33	121.00	109.18
1	Aj	153	ALA	N-CA-C	8.32	121.00	109.18
1	AS	153	ALA	N-CA-C	8.32	121.00	109.18
1	An	153	ALA	N-CA-C	8.32	121.00	109.18
1	Aa	153	ALA	N-CA-C	8.32	121.00	109.18
1	Al	153	ALA	N-CA-C	8.32	120.99	109.18
1	AM	153	ALA	N-CA-C	8.32	120.99	109.18
1	AN	153	ALA	N-CA-C	8.32	120.99	109.18
1	Ak	153	ALA	N-CA-C	8.31	120.99	109.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AB	153	ALA	N-CA-C	8.31	120.98	109.18
1	AF	153	ALA	N-CA-C	8.31	120.98	109.18
1	AO	153	ALA	N-CA-C	8.31	120.97	109.18
1	A4	153	ALA	N-CA-C	8.31	120.97	109.18
1	AH	153	ALA	N-CA-C	8.30	120.97	109.18
1	AT	153	ALA	N-CA-C	8.30	120.97	109.18
1	AX	153	ALA	N-CA-C	8.30	120.97	109.18
1	Ai	153	ALA	N-CA-C	8.30	120.97	109.18
1	DF	153	ALA	N-CA-C	8.30	120.97	109.18
1	Ag	153	ALA	N-CA-C	8.30	120.97	109.18
1	A7	153	ALA	N-CA-C	8.30	120.96	109.18
1	DG	153	ALA	N-CA-C	8.30	120.96	109.18
1	A2	153	ALA	N-CA-C	8.30	120.96	109.18
1	DH	153	ALA	N-CA-C	8.29	120.96	109.18
1	DC	153	ALA	N-CA-C	8.29	120.95	109.18
1	AG	153	ALA	N-CA-C	8.29	120.95	109.18
1	AA	153	ALA	N-CA-C	8.29	120.95	109.18
1	Ao	153	ALA	N-CA-C	8.29	120.95	109.18
1	AV	153	ALA	N-CA-C	8.29	120.95	109.18
1	AQ	153	ALA	N-CA-C	8.28	120.94	109.18
1	A3	153	ALA	N-CA-C	8.28	120.94	109.18
1	AY	153	ALA	N-CA-C	8.28	120.94	109.18
1	AZ	153	ALA	N-CA-C	8.28	120.94	109.18
1	Ad	153	ALA	N-CA-C	8.28	120.94	109.18
1	A5	153	ALA	N-CA-C	8.28	120.93	109.18
1	Ac	153	ALA	N-CA-C	8.28	120.94	109.18
1	AJ	153	ALA	N-CA-C	8.28	120.93	109.18
1	AK	153	ALA	N-CA-C	8.28	120.93	109.18
1	DJ	153	ALA	N-CA-C	8.27	120.93	109.18
1	Ae	153	ALA	N-CA-C	8.27	120.92	109.18
1	A8	153	ALA	N-CA-C	8.27	120.92	109.18
1	AC	153	ALA	N-CA-C	8.26	120.91	109.18
1	AP	153	ALA	N-CA-C	8.26	120.91	109.18
1	DE	153	ALA	N-CA-C	8.24	120.89	109.18
1	A9	153	ALA	N-CA-C	8.23	120.87	109.18
1	A0	23	ASP	N-CA-C	8.10	122.59	112.87
1	A8	23	ASP	N-CA-C	8.10	122.59	112.87
1	DG	23	ASP	N-CA-C	8.10	122.59	112.87
1	AQ	23	ASP	N-CA-C	8.10	122.58	112.87
1	Af	23	ASP	N-CA-C	8.10	122.58	112.87
1	Ao	23	ASP	N-CA-C	8.09	122.57	112.87
1	DJ	23	ASP	N-CA-C	8.08	122.56	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AY	23	ASP	N-CA-C	8.07	122.56	112.87
1	Aj	23	ASP	N-CA-C	8.07	122.56	112.87
1	AJ	23	ASP	N-CA-C	8.07	122.56	112.87
1	DF	23	ASP	N-CA-C	8.07	122.55	112.87
1	AB	23	ASP	N-CA-C	8.06	122.55	112.87
1	AF	23	ASP	N-CA-C	8.06	122.55	112.87
1	Ah	23	ASP	N-CA-C	8.06	122.55	112.87
1	AL	23	ASP	N-CA-C	8.06	122.54	112.87
1	AR	23	ASP	N-CA-C	8.06	122.54	112.87
1	A4	23	ASP	N-CA-C	8.06	122.54	112.87
1	A9	23	ASP	N-CA-C	8.05	122.54	112.87
1	Ak	23	ASP	N-CA-C	8.05	122.54	112.87
1	An	23	ASP	N-CA-C	8.05	122.53	112.87
1	A5	23	ASP	N-CA-C	8.05	122.53	112.87
1	Ad	23	ASP	N-CA-C	8.04	122.52	112.87
1	AA	23	ASP	N-CA-C	8.04	122.52	112.87
1	AT	23	ASP	N-CA-C	8.04	122.52	112.87
1	Ae	23	ASP	N-CA-C	8.04	122.52	112.87
1	AK	23	ASP	N-CA-C	8.04	122.52	112.87
1	AP	23	ASP	N-CA-C	8.04	122.52	112.87
1	AE	23	ASP	N-CA-C	8.04	122.51	112.87
1	DC	23	ASP	N-CA-C	8.04	122.52	112.87
1	AV	23	ASP	N-CA-C	8.04	122.51	112.87
1	Ac	23	ASP	N-CA-C	8.03	122.51	112.87
1	AG	23	ASP	N-CA-C	8.03	122.51	112.87
1	AI	23	ASP	N-CA-C	8.03	122.51	112.87
1	AM	23	ASP	N-CA-C	8.03	122.51	112.87
1	AC	23	ASP	N-CA-C	8.03	122.50	112.87
1	DH	23	ASP	N-CA-C	8.03	122.51	112.87
1	Ai	23	ASP	N-CA-C	8.03	122.50	112.87
1	Am	23	ASP	N-CA-C	8.03	122.50	112.87
1	DK	23	ASP	N-CA-C	8.03	122.50	112.87
1	AN	23	ASP	N-CA-C	8.02	122.50	112.87
1	AO	23	ASP	N-CA-C	8.02	122.50	112.87
1	AZ	23	ASP	N-CA-C	8.02	122.50	112.87
1	A3	23	ASP	N-CA-C	8.02	122.49	112.87
1	Al	23	ASP	N-CA-C	8.02	122.49	112.87
1	DI	23	ASP	N-CA-C	8.02	122.49	112.87
1	AD	23	ASP	N-CA-C	8.02	122.49	112.87
3	CX	70	ASP	N-CA-C	8.01	127.87	110.80
1	AS	23	ASP	N-CA-C	8.01	122.48	112.87
1	AU	23	ASP	N-CA-C	8.01	122.48	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AX	23	ASP	N-CA-C	8.01	122.48	112.87
1	AH	23	ASP	N-CA-C	8.01	122.48	112.87
1	DD	23	ASP	N-CA-C	8.01	122.48	112.87
1	A2	23	ASP	N-CA-C	8.01	122.48	112.87
3	Cd	70	ASP	N-CA-C	8.00	127.84	110.80
1	A7	23	ASP	N-CA-C	8.00	122.47	112.87
3	Cs	70	ASP	N-CA-C	8.00	127.84	110.80
1	Aa	23	ASP	N-CA-C	8.00	122.47	112.87
3	CT	70	ASP	N-CA-C	8.00	127.83	110.80
3	CM	70	ASP	N-CA-C	7.99	127.82	110.80
1	A1	23	ASP	N-CA-C	7.99	122.46	112.87
1	Ag	23	ASP	N-CA-C	7.99	122.45	112.87
3	C0	70	ASP	N-CA-C	7.99	127.81	110.80
3	Cn	70	ASP	N-CA-C	7.99	127.81	110.80
3	CS	70	ASP	N-CA-C	7.98	127.81	110.80
3	C3	70	ASP	N-CA-C	7.98	127.80	110.80
1	AW	23	ASP	N-CA-C	7.98	122.45	112.87
3	CF	70	ASP	N-CA-C	7.98	127.80	110.80
3	CI	70	ASP	N-CA-C	7.98	127.80	110.80
3	C1	70	ASP	N-CA-C	7.98	127.80	110.80
3	C9	70	ASP	N-CA-C	7.98	127.80	110.80
1	A6	23	ASP	N-CA-C	7.98	122.44	112.87
3	Cx	70	ASP	N-CA-C	7.98	127.80	110.80
3	CE	70	ASP	N-CA-C	7.98	127.79	110.80
3	C4	70	ASP	N-CA-C	7.98	127.79	110.80
3	Cj	70	ASP	N-CA-C	7.98	127.79	110.80
1	Ab	23	ASP	N-CA-C	7.98	122.44	112.87
3	C8	70	ASP	N-CA-C	7.98	127.79	110.80
3	Cm	70	ASP	N-CA-C	7.97	127.79	110.80
3	Ch	70	ASP	N-CA-C	7.97	127.78	110.80
3	Ct	70	ASP	N-CA-C	7.97	127.78	110.80
3	CJ	70	ASP	N-CA-C	7.97	127.78	110.80
3	Cr	70	ASP	N-CA-C	7.97	127.77	110.80
3	CY	70	ASP	N-CA-C	7.97	127.77	110.80
3	DB	70	ASP	N-CA-C	7.97	127.77	110.80
3	CD	70	ASP	N-CA-C	7.96	127.76	110.80
3	Cl	70	ASP	N-CA-C	7.96	127.76	110.80
3	CN	70	ASP	N-CA-C	7.96	127.76	110.80
1	DE	23	ASP	N-CA-C	7.96	122.42	112.87
3	CW	70	ASP	N-CA-C	7.96	127.75	110.80
3	DA	70	ASP	N-CA-C	7.96	127.75	110.80
2	BT	85	SER	N-CA-C	7.96	127.75	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CQ	70	ASP	N-CA-C	7.96	127.75	110.80
3	C2	70	ASP	N-CA-C	7.96	127.75	110.80
3	C6	70	ASP	N-CA-C	7.96	127.75	110.80
3	Ce	70	ASP	N-CA-C	7.96	127.75	110.80
3	Cf	70	ASP	N-CA-C	7.96	127.75	110.80
3	Cu	70	ASP	N-CA-C	7.96	127.75	110.80
3	CU	70	ASP	N-CA-C	7.96	127.75	110.80
3	CB	70	ASP	N-CA-C	7.95	127.74	110.80
3	Ci	70	ASP	N-CA-C	7.95	127.74	110.80
3	Cw	70	ASP	N-CA-C	7.95	127.74	110.80
3	CC	70	ASP	N-CA-C	7.95	127.74	110.80
3	C5	70	ASP	N-CA-C	7.95	127.74	110.80
3	CV	70	ASP	N-CA-C	7.95	127.73	110.80
3	C7	70	ASP	N-CA-C	7.95	127.73	110.80
3	Cv	70	ASP	N-CA-C	7.95	127.73	110.80
3	CG	70	ASP	N-CA-C	7.95	127.73	110.80
3	CL	70	ASP	N-CA-C	7.95	127.72	110.80
3	Co	70	ASP	N-CA-C	7.95	127.73	110.80
2	Bn	85	SER	N-CA-C	7.94	127.72	110.80
2	B7	85	SER	N-CA-C	7.94	127.72	110.80
3	CA	70	ASP	N-CA-C	7.94	127.72	110.80
3	CH	70	ASP	N-CA-C	7.94	127.72	110.80
3	CK	70	ASP	N-CA-C	7.94	127.72	110.80
3	CO	70	ASP	N-CA-C	7.94	127.72	110.80
3	CZ	70	ASP	N-CA-C	7.94	127.72	110.80
2	B8	85	SER	N-CA-C	7.94	127.72	110.80
3	CP	70	ASP	N-CA-C	7.94	127.71	110.80
3	Cc	70	ASP	N-CA-C	7.94	127.71	110.80
3	Cq	70	ASP	N-CA-C	7.94	127.71	110.80
2	BY	85	SER	N-CA-C	7.94	127.71	110.80
2	Bq	85	SER	N-CA-C	7.93	127.70	110.80
3	CR	70	ASP	N-CA-C	7.93	127.69	110.80
3	Cg	70	ASP	N-CA-C	7.93	127.69	110.80
2	Bh	85	SER	N-CA-C	7.93	127.69	110.80
2	Bm	85	SER	N-CA-C	7.93	127.69	110.80
3	Ck	70	ASP	N-CA-C	7.93	127.68	110.80
2	Bs	85	SER	N-CA-C	7.92	127.67	110.80
3	Cp	70	ASP	N-CA-C	7.92	127.67	110.80
2	BZ	85	SER	N-CA-C	7.92	127.66	110.80
2	Bi	85	SER	N-CA-C	7.92	127.66	110.80
2	BE	85	SER	N-CA-C	7.91	127.66	110.80
2	BJ	85	SER	N-CA-C	7.91	127.66	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B3	85	SER	N-CA-C	7.91	127.65	110.80
2	BO	85	SER	N-CA-C	7.91	127.64	110.80
2	Bd	85	SER	N-CA-C	7.91	127.64	110.80
2	BA	85	SER	N-CA-C	7.91	127.64	110.80
2	BH	85	SER	N-CA-C	7.91	127.64	110.80
2	Bc	85	SER	N-CA-C	7.91	127.64	110.80
2	Bv	85	SER	N-CA-C	7.91	127.64	110.80
2	BK	85	SER	N-CA-C	7.91	127.64	110.80
2	BU	85	SER	N-CA-C	7.91	127.64	110.80
2	B1	85	SER	N-CA-C	7.91	127.64	110.80
2	B6	85	SER	N-CA-C	7.91	127.64	110.80
2	Bk	85	SER	N-CA-C	7.91	127.64	110.80
2	BS	85	SER	N-CA-C	7.90	127.63	110.80
2	BX	85	SER	N-CA-C	7.90	127.63	110.80
2	Bx	85	SER	N-CA-C	7.90	127.63	110.80
2	BF	85	SER	N-CA-C	7.90	127.63	110.80
2	BP	85	SER	N-CA-C	7.90	127.62	110.80
2	Bw	85	SER	N-CA-C	7.90	127.62	110.80
2	B5	85	SER	N-CA-C	7.90	127.62	110.80
2	Ba	85	SER	N-CA-C	7.90	127.62	110.80
2	BG	85	SER	N-CA-C	7.90	127.62	110.80
2	BI	85	SER	N-CA-C	7.90	127.62	110.80
2	BR	85	SER	N-CA-C	7.89	127.61	110.80
2	B0	85	SER	N-CA-C	7.89	127.61	110.80
2	BW	85	SER	N-CA-C	7.89	127.61	110.80
2	BQ	85	SER	N-CA-C	7.89	127.61	110.80
2	Bg	85	SER	N-CA-C	7.89	127.61	110.80
2	Bp	85	SER	N-CA-C	7.89	127.61	110.80
2	B4	85	SER	N-CA-C	7.89	127.60	110.80
2	BD	85	SER	N-CA-C	7.89	127.60	110.80
2	Bb	85	SER	N-CA-C	7.89	127.60	110.80
2	B9	85	SER	N-CA-C	7.88	127.59	110.80
2	Bo	85	SER	N-CA-C	7.88	127.60	110.80
2	Bj	85	SER	N-CA-C	7.88	127.59	110.80
2	Br	85	SER	N-CA-C	7.88	127.59	110.80
2	BM	85	SER	N-CA-C	7.88	127.58	110.80
2	BC	85	SER	N-CA-C	7.88	127.58	110.80
2	BL	85	SER	N-CA-C	7.88	127.58	110.80
2	Bt	85	SER	N-CA-C	7.88	127.58	110.80
2	BN	85	SER	N-CA-C	7.88	127.58	110.80
2	Bu	85	SER	N-CA-C	7.88	127.57	110.80
2	Bf	85	SER	N-CA-C	7.87	127.57	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bl	85	SER	N-CA-C	7.87	127.57	110.80
2	BB	85	SER	N-CA-C	7.87	127.56	110.80
2	B2	85	SER	N-CA-C	7.87	127.56	110.80
2	Be	85	SER	N-CA-C	7.87	127.56	110.80
2	BV	85	SER	N-CA-C	7.86	127.53	110.80
2	BL	181	GLY	CA-C-N	7.84	127.50	119.82
2	BL	181	GLY	C-N-CA	7.84	127.50	119.82
2	Bs	181	GLY	CA-C-N	7.82	127.48	119.82
2	Bs	181	GLY	C-N-CA	7.82	127.48	119.82
2	BV	181	GLY	CA-C-N	7.81	127.48	119.82
2	BV	181	GLY	C-N-CA	7.81	127.48	119.82
2	Bn	181	GLY	CA-C-N	7.81	127.47	119.82
2	Bn	181	GLY	C-N-CA	7.81	127.47	119.82
2	B9	181	GLY	CA-C-N	7.81	127.47	119.82
2	B9	181	GLY	C-N-CA	7.81	127.47	119.82
2	BG	181	GLY	CA-C-N	7.79	127.45	119.82
2	BG	181	GLY	C-N-CA	7.79	127.45	119.82
2	Be	181	GLY	CA-C-N	7.78	127.45	119.82
2	Be	181	GLY	C-N-CA	7.78	127.45	119.82
2	B6	181	GLY	CA-C-N	7.78	127.44	119.82
2	B6	181	GLY	C-N-CA	7.78	127.44	119.82
2	B8	181	GLY	CA-C-N	7.78	127.44	119.82
2	B8	181	GLY	C-N-CA	7.78	127.44	119.82
2	B0	181	GLY	CA-C-N	7.78	127.44	119.82
2	B0	181	GLY	C-N-CA	7.78	127.44	119.82
2	Bt	181	GLY	CA-C-N	7.78	127.44	119.82
2	Bt	181	GLY	C-N-CA	7.78	127.44	119.82
2	BO	181	GLY	CA-C-N	7.78	127.44	119.82
2	BO	181	GLY	C-N-CA	7.78	127.44	119.82
2	BA	181	GLY	CA-C-N	7.77	127.44	119.82
2	BA	181	GLY	C-N-CA	7.77	127.44	119.82
2	BQ	181	GLY	CA-C-N	7.77	127.44	119.82
2	BQ	181	GLY	C-N-CA	7.77	127.44	119.82
2	B5	134	HIS	N-CA-C	-7.76	94.26	110.80
2	Bj	181	GLY	CA-C-N	7.76	127.43	119.82
2	Bj	181	GLY	C-N-CA	7.76	127.43	119.82
2	BB	181	GLY	CA-C-N	7.76	127.43	119.82
2	BB	181	GLY	C-N-CA	7.76	127.43	119.82
2	Bx	181	GLY	CA-C-N	7.76	127.43	119.82
2	Bx	181	GLY	C-N-CA	7.76	127.43	119.82
2	BX	181	GLY	CA-C-N	7.76	127.42	119.82
2	BX	181	GLY	C-N-CA	7.76	127.42	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BS	181	GLY	CA-C-N	7.75	127.42	119.82
2	BS	181	GLY	C-N-CA	7.75	127.42	119.82
2	BU	181	GLY	CA-C-N	7.75	127.42	119.82
2	BU	181	GLY	C-N-CA	7.75	127.42	119.82
2	BC	134	HIS	N-CA-C	-7.75	94.29	110.80
2	Bt	134	HIS	N-CA-C	-7.75	94.30	110.80
2	BN	134	HIS	N-CA-C	-7.75	94.30	110.80
2	BH	134	HIS	N-CA-C	-7.74	94.31	110.80
2	BK	181	GLY	CA-C-N	7.74	127.41	119.82
2	BK	181	GLY	C-N-CA	7.74	127.41	119.82
2	Bb	134	HIS	N-CA-C	-7.74	94.31	110.80
2	BF	134	HIS	N-CA-C	-7.74	94.32	110.80
2	Ba	134	HIS	N-CA-C	-7.74	94.31	110.80
2	Bf	134	HIS	N-CA-C	-7.74	94.32	110.80
2	BP	134	HIS	N-CA-C	-7.74	94.32	110.80
2	BZ	134	HIS	N-CA-C	-7.74	94.33	110.80
2	Bn	134	HIS	N-CA-C	-7.74	94.32	110.80
2	Bp	134	HIS	N-CA-C	-7.74	94.32	110.80
2	BI	134	HIS	N-CA-C	-7.73	94.33	110.80
2	B2	181	GLY	CA-C-N	7.73	127.40	119.82
2	B2	181	GLY	C-N-CA	7.73	127.40	119.82
2	BX	134	HIS	N-CA-C	-7.73	94.33	110.80
2	BV	134	HIS	N-CA-C	-7.73	94.33	110.80
2	B4	181	GLY	CA-C-N	7.73	127.39	119.82
2	B4	181	GLY	C-N-CA	7.73	127.39	119.82
2	Bu	134	HIS	N-CA-C	-7.73	94.34	110.80
2	BD	134	HIS	N-CA-C	-7.73	94.34	110.80
2	BR	134	HIS	N-CA-C	-7.73	94.34	110.80
2	BU	134	HIS	N-CA-C	-7.73	94.34	110.80
2	B1	134	HIS	N-CA-C	-7.73	94.34	110.80
2	B2	134	HIS	N-CA-C	-7.73	94.34	110.80
2	BD	181	GLY	CA-C-N	7.72	127.39	119.82
2	BD	181	GLY	C-N-CA	7.72	127.39	119.82
2	Bq	134	HIS	N-CA-C	-7.72	94.35	110.80
2	Bw	134	HIS	N-CA-C	-7.72	94.35	110.80
2	BA	134	HIS	N-CA-C	-7.72	94.35	110.80
2	BW	134	HIS	N-CA-C	-7.72	94.35	110.80
2	BF	181	GLY	CA-C-N	7.72	127.39	119.82
2	BF	181	GLY	C-N-CA	7.72	127.39	119.82
2	BK	134	HIS	N-CA-C	-7.72	94.36	110.80
2	BQ	134	HIS	N-CA-C	-7.72	94.35	110.80
2	BE	134	HIS	N-CA-C	-7.72	94.36	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bg	134	HIS	N-CA-C	-7.72	94.36	110.80
2	Bh	134	HIS	N-CA-C	-7.72	94.36	110.80
2	Bi	134	HIS	N-CA-C	-7.72	94.36	110.80
2	BJ	181	GLY	CA-C-N	7.72	127.38	119.82
2	BJ	181	GLY	C-N-CA	7.72	127.38	119.82
2	Bk	181	GLY	CA-C-N	7.72	127.38	119.82
2	Bk	181	GLY	C-N-CA	7.72	127.38	119.82
2	Bl	134	HIS	N-CA-C	-7.72	94.36	110.80
2	BM	134	HIS	N-CA-C	-7.71	94.37	110.80
2	Bs	134	HIS	N-CA-C	-7.71	94.37	110.80
2	BZ	181	GLY	CA-C-N	7.71	127.38	119.82
2	BZ	181	GLY	C-N-CA	7.71	127.38	119.82
2	BI	181	GLY	CA-C-N	7.71	127.38	119.82
2	BI	181	GLY	C-N-CA	7.71	127.38	119.82
2	BS	134	HIS	N-CA-C	-7.71	94.37	110.80
2	BT	134	HIS	N-CA-C	-7.71	94.38	110.80
2	B4	134	HIS	N-CA-C	-7.71	94.37	110.80
2	B6	134	HIS	N-CA-C	-7.71	94.37	110.80
2	Bb	181	GLY	CA-C-N	7.71	127.38	119.82
2	Bb	181	GLY	C-N-CA	7.71	127.38	119.82
2	Be	134	HIS	N-CA-C	-7.71	94.38	110.80
2	B3	134	HIS	N-CA-C	-7.71	94.38	110.80
2	Bu	181	GLY	CA-C-N	7.71	127.38	119.82
2	Bu	181	GLY	C-N-CA	7.71	127.38	119.82
2	BB	134	HIS	N-CA-C	-7.71	94.38	110.80
2	Bc	134	HIS	N-CA-C	-7.71	94.38	110.80
2	BO	134	HIS	N-CA-C	-7.71	94.38	110.80
2	B0	134	HIS	N-CA-C	-7.71	94.39	110.80
2	BG	134	HIS	N-CA-C	-7.70	94.39	110.80
2	BT	181	GLY	CA-C-N	7.70	127.37	119.82
2	BT	181	GLY	C-N-CA	7.70	127.37	119.82
2	Bd	181	GLY	CA-C-N	7.70	127.37	119.82
2	Bd	181	GLY	C-N-CA	7.70	127.37	119.82
2	Bk	134	HIS	N-CA-C	-7.70	94.39	110.80
2	Bo	134	HIS	N-CA-C	-7.70	94.39	110.80
2	Br	134	HIS	N-CA-C	-7.70	94.39	110.80
2	Bv	134	HIS	N-CA-C	-7.70	94.39	110.80
2	B9	134	HIS	N-CA-C	-7.70	94.40	110.80
2	Bi	181	GLY	CA-C-N	7.70	127.37	119.82
2	Bi	181	GLY	C-N-CA	7.70	127.37	119.82
2	Bj	134	HIS	N-CA-C	-7.70	94.40	110.80
2	BJ	134	HIS	N-CA-C	-7.70	94.40	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bd	134	HIS	N-CA-C	-7.70	94.40	110.80
2	BL	134	HIS	N-CA-C	-7.70	94.41	110.80
2	BY	134	HIS	N-CA-C	-7.70	94.41	110.80
2	Bx	134	HIS	N-CA-C	-7.70	94.41	110.80
2	B7	134	HIS	N-CA-C	-7.69	94.41	110.80
2	B8	134	HIS	N-CA-C	-7.69	94.41	110.80
2	Ba	181	GLY	CA-C-N	7.69	127.36	119.82
2	Ba	181	GLY	C-N-CA	7.69	127.36	119.82
2	BM	181	GLY	CA-C-N	7.69	127.36	119.82
2	BM	181	GLY	C-N-CA	7.69	127.36	119.82
2	BC	181	GLY	CA-C-N	7.69	127.36	119.82
2	BC	181	GLY	C-N-CA	7.69	127.36	119.82
2	BN	181	GLY	CA-C-N	7.69	127.35	119.82
2	BN	181	GLY	C-N-CA	7.69	127.35	119.82
2	BW	181	GLY	CA-C-N	7.69	127.35	119.82
2	BW	181	GLY	C-N-CA	7.69	127.35	119.82
2	Bm	134	HIS	N-CA-C	-7.68	94.43	110.80
2	Bq	181	GLY	CA-C-N	7.68	127.35	119.82
2	Bq	181	GLY	C-N-CA	7.68	127.35	119.82
2	Bg	181	GLY	CA-C-N	7.68	127.35	119.82
2	Bg	181	GLY	C-N-CA	7.68	127.35	119.82
2	Bl	181	GLY	CA-C-N	7.68	127.34	119.82
2	Bl	181	GLY	C-N-CA	7.68	127.34	119.82
2	B1	181	GLY	CA-C-N	7.67	127.34	119.82
2	B1	181	GLY	C-N-CA	7.67	127.34	119.82
2	Bo	181	GLY	CA-C-N	7.67	127.34	119.82
2	Bo	181	GLY	C-N-CA	7.67	127.34	119.82
2	Br	181	GLY	CA-C-N	7.67	127.34	119.82
2	Br	181	GLY	C-N-CA	7.67	127.34	119.82
2	Bf	181	GLY	CA-C-N	7.67	127.34	119.82
2	Bf	181	GLY	C-N-CA	7.67	127.34	119.82
2	Bc	181	GLY	CA-C-N	7.66	127.33	119.82
2	Bc	181	GLY	C-N-CA	7.66	127.33	119.82
2	BE	181	GLY	CA-C-N	7.66	127.33	119.82
2	BE	181	GLY	C-N-CA	7.66	127.33	119.82
2	Bm	181	GLY	CA-C-N	7.66	127.33	119.82
2	Bm	181	GLY	C-N-CA	7.66	127.33	119.82
2	BR	181	GLY	CA-C-N	7.66	127.32	119.82
2	BR	181	GLY	C-N-CA	7.66	127.32	119.82
2	Bp	181	GLY	CA-C-N	7.66	127.32	119.82
2	Bp	181	GLY	C-N-CA	7.66	127.32	119.82
2	Bw	181	GLY	CA-C-N	7.66	127.32	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bw	181	GLY	C-N-CA	7.66	127.32	119.82
2	BH	181	GLY	CA-C-N	7.65	127.32	119.82
2	BH	181	GLY	C-N-CA	7.65	127.32	119.82
2	BP	181	GLY	CA-C-N	7.65	127.32	119.82
2	BP	181	GLY	C-N-CA	7.65	127.32	119.82
2	BY	181	GLY	CA-C-N	7.64	127.31	119.82
2	BY	181	GLY	C-N-CA	7.64	127.31	119.82
2	B5	181	GLY	CA-C-N	7.64	127.31	119.82
2	B5	181	GLY	C-N-CA	7.64	127.31	119.82
2	Bv	181	GLY	CA-C-N	7.64	127.31	119.82
2	Bv	181	GLY	C-N-CA	7.64	127.31	119.82
2	B7	181	GLY	CA-C-N	7.63	127.30	119.82
2	B7	181	GLY	C-N-CA	7.63	127.30	119.82
2	B3	181	GLY	CA-C-N	7.61	127.28	119.82
2	B3	181	GLY	C-N-CA	7.61	127.28	119.82
2	Bh	181	GLY	CA-C-N	7.59	127.26	119.82
2	Bh	181	GLY	C-N-CA	7.59	127.26	119.82
1	AT	70	ARG	N-CA-C	-7.53	96.96	109.46
1	AF	70	ARG	N-CA-C	-7.52	96.97	109.46
1	AO	70	ARG	N-CA-C	-7.52	96.97	109.46
1	Ad	70	ARG	N-CA-C	-7.52	96.97	109.46
1	DI	70	ARG	N-CA-C	-7.52	96.97	109.46
1	Ac	70	ARG	N-CA-C	-7.51	96.99	109.46
1	AB	70	ARG	N-CA-C	-7.50	97.00	109.46
1	DF	70	ARG	N-CA-C	-7.50	97.00	109.46
1	AJ	70	ARG	N-CA-C	-7.50	97.01	109.46
1	AM	70	ARG	N-CA-C	-7.50	97.01	109.46
1	A0	70	ARG	N-CA-C	-7.50	97.01	109.46
1	DE	70	ARG	N-CA-C	-7.50	97.01	109.46
1	AA	70	ARG	N-CA-C	-7.50	97.01	109.46
1	AD	70	ARG	N-CA-C	-7.50	97.01	109.46
1	AR	70	ARG	N-CA-C	-7.50	97.01	109.46
1	Af	70	ARG	N-CA-C	-7.50	97.01	109.46
1	AY	70	ARG	N-CA-C	-7.50	97.01	109.46
1	A8	70	ARG	N-CA-C	-7.50	97.02	109.46
1	An	70	ARG	N-CA-C	-7.50	97.02	109.46
1	AG	70	ARG	N-CA-C	-7.49	97.02	109.46
1	Ai	70	ARG	N-CA-C	-7.49	97.02	109.46
1	Ae	70	ARG	N-CA-C	-7.49	97.03	109.46
1	AK	70	ARG	N-CA-C	-7.49	97.03	109.46
1	AN	70	ARG	N-CA-C	-7.49	97.03	109.46
1	A1	70	ARG	N-CA-C	-7.49	97.03	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	70	ARG	N-CA-C	-7.49	97.03	109.46
1	DD	70	ARG	N-CA-C	-7.49	97.03	109.46
1	AL	70	ARG	N-CA-C	-7.49	97.03	109.46
1	AW	70	ARG	N-CA-C	-7.49	97.04	109.46
1	Aj	70	ARG	N-CA-C	-7.49	97.03	109.46
1	Am	70	ARG	N-CA-C	-7.49	97.03	109.46
1	A4	70	ARG	N-CA-C	-7.48	97.04	109.46
1	A7	70	ARG	N-CA-C	-7.48	97.04	109.46
1	Ab	70	ARG	N-CA-C	-7.48	97.05	109.46
1	AP	70	ARG	N-CA-C	-7.48	97.05	109.46
1	Aa	70	ARG	N-CA-C	-7.48	97.05	109.46
1	DK	70	ARG	N-CA-C	-7.48	97.05	109.46
1	Ag	70	ARG	N-CA-C	-7.48	97.05	109.46
1	A3	70	ARG	N-CA-C	-7.47	97.05	109.46
1	A6	70	ARG	N-CA-C	-7.47	97.06	109.46
1	A9	70	ARG	N-CA-C	-7.47	97.06	109.46
1	DG	70	ARG	N-CA-C	-7.47	97.06	109.46
1	Ah	70	ARG	N-CA-C	-7.47	97.06	109.46
1	Ak	70	ARG	N-CA-C	-7.47	97.06	109.46
1	AS	70	ARG	N-CA-C	-7.47	97.07	109.46
1	AV	70	ARG	N-CA-C	-7.47	97.07	109.46
1	AZ	70	ARG	N-CA-C	-7.47	97.06	109.46
1	AE	70	ARG	N-CA-C	-7.46	97.07	109.46
1	A2	70	ARG	N-CA-C	-7.46	97.07	109.46
1	DC	70	ARG	N-CA-C	-7.46	97.07	109.46
1	DJ	70	ARG	N-CA-C	-7.46	97.07	109.46
1	AQ	70	ARG	N-CA-C	-7.46	97.08	109.46
1	AU	70	ARG	N-CA-C	-7.46	97.08	109.46
1	Al	70	ARG	N-CA-C	-7.46	97.08	109.46
1	AH	70	ARG	N-CA-C	-7.46	97.08	109.46
1	AX	70	ARG	N-CA-C	-7.46	97.08	109.46
1	A5	70	ARG	N-CA-C	-7.46	97.08	109.46
1	AI	70	ARG	N-CA-C	-7.45	97.09	109.46
1	AC	70	ARG	N-CA-C	-7.45	97.10	109.46
1	DH	70	ARG	N-CA-C	-7.44	97.11	109.46
1	AN	158	VAL	CB-CA-C	7.30	116.48	109.33
2	BI	148	PRO	N-CA-C	7.30	122.77	112.26
2	Bv	148	PRO	N-CA-C	7.29	122.76	112.26
1	Ad	158	VAL	CB-CA-C	7.29	116.47	109.33
1	DK	158	VAL	CB-CA-C	7.28	116.47	109.33
1	DG	158	VAL	CB-CA-C	7.28	116.47	109.33
2	BX	148	PRO	N-CA-C	7.28	122.74	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bg	148	PRO	N-CA-C	7.28	122.74	112.26
1	DC	158	VAL	CB-CA-C	7.27	116.46	109.33
1	AR	158	VAL	CB-CA-C	7.27	116.46	109.33
1	Al	158	VAL	CB-CA-C	7.27	116.46	109.33
1	DE	158	VAL	CB-CA-C	7.27	116.46	109.33
2	BS	148	PRO	N-CA-C	7.27	122.72	112.26
2	B6	148	PRO	N-CA-C	7.27	122.72	112.26
2	Bu	148	PRO	N-CA-C	7.27	122.73	112.26
1	A3	158	VAL	CB-CA-C	7.27	116.45	109.33
1	AW	158	VAL	CB-CA-C	7.26	116.45	109.33
2	BC	148	PRO	N-CA-C	7.26	122.71	112.26
2	B8	148	PRO	N-CA-C	7.26	122.72	112.26
2	Bl	148	PRO	N-CA-C	7.26	122.71	112.26
1	DF	158	VAL	CB-CA-C	7.26	116.44	109.33
2	B5	148	PRO	N-CA-C	7.26	122.71	112.26
1	DJ	158	VAL	CB-CA-C	7.26	116.44	109.33
2	BN	148	PRO	N-CA-C	7.25	122.71	112.26
1	A1	158	VAL	CB-CA-C	7.25	116.44	109.33
2	Bp	148	PRO	N-CA-C	7.25	122.70	112.26
1	AZ	158	VAL	CB-CA-C	7.25	116.44	109.33
2	BA	148	PRO	N-CA-C	7.25	122.70	112.26
2	BF	148	PRO	N-CA-C	7.25	122.70	112.26
2	BP	148	PRO	N-CA-C	7.25	122.70	112.26
2	Ba	148	PRO	N-CA-C	7.25	122.70	112.26
2	Bk	148	PRO	N-CA-C	7.25	122.70	112.26
1	A7	158	VAL	CB-CA-C	7.25	116.43	109.33
2	BY	148	PRO	N-CA-C	7.25	122.70	112.26
2	BZ	148	PRO	N-CA-C	7.25	122.69	112.26
1	Ah	158	VAL	CB-CA-C	7.24	116.43	109.33
2	Bf	148	PRO	N-CA-C	7.24	122.69	112.26
1	AP	158	VAL	CB-CA-C	7.24	116.43	109.33
1	Am	158	VAL	CB-CA-C	7.24	116.42	109.33
2	BT	148	PRO	N-CA-C	7.24	122.69	112.26
2	B4	148	PRO	N-CA-C	7.24	122.69	112.26
1	AH	158	VAL	CB-CA-C	7.24	116.42	109.33
1	Al	151	SER	N-CA-C	-7.24	95.45	108.48
1	AM	151	SER	N-CA-C	-7.24	95.46	108.48
1	AM	158	VAL	CB-CA-C	7.24	116.42	109.33
1	A0	158	VAL	CB-CA-C	7.24	116.42	109.33
2	BM	148	PRO	N-CA-C	7.24	122.68	112.26
1	DH	158	VAL	CB-CA-C	7.24	116.42	109.33
1	AL	158	VAL	CB-CA-C	7.23	116.42	109.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AK	158	VAL	CB-CA-C	7.23	116.42	109.33
2	BD	148	PRO	N-CA-C	7.23	122.67	112.26
2	BQ	148	PRO	N-CA-C	7.23	122.67	112.26
2	BV	148	PRO	N-CA-C	7.23	122.67	112.26
2	BW	148	PRO	N-CA-C	7.23	122.67	112.26
1	A4	158	VAL	CB-CA-C	7.23	116.42	109.33
2	BK	148	PRO	N-CA-C	7.23	122.67	112.26
2	Bc	148	PRO	N-CA-C	7.23	122.67	112.26
1	An	158	VAL	CB-CA-C	7.23	116.42	109.33
2	B3	148	PRO	N-CA-C	7.23	122.67	112.26
2	Bq	148	PRO	N-CA-C	7.23	122.67	112.26
2	Bx	148	PRO	N-CA-C	7.23	122.67	112.26
1	DD	151	SER	N-CA-C	-7.23	95.47	108.48
1	Aa	158	VAL	CB-CA-C	7.22	116.41	109.33
1	Ai	158	VAL	CB-CA-C	7.22	116.41	109.33
2	BO	148	PRO	N-CA-C	7.22	122.66	112.26
2	B2	148	PRO	N-CA-C	7.22	122.66	112.26
1	AG	158	VAL	CB-CA-C	7.22	116.41	109.33
1	Af	158	VAL	CB-CA-C	7.22	116.41	109.33
2	BH	148	PRO	N-CA-C	7.22	122.66	112.26
2	BE	148	PRO	N-CA-C	7.22	122.66	112.26
2	Bb	148	PRO	N-CA-C	7.22	122.66	112.26
1	AI	158	VAL	CB-CA-C	7.22	116.40	109.33
1	AW	151	SER	N-CA-C	-7.22	95.49	108.48
2	Bs	148	PRO	N-CA-C	7.22	122.65	112.26
1	AR	151	SER	N-CA-C	-7.21	95.50	108.48
1	AT	158	VAL	CB-CA-C	7.21	116.40	109.33
1	Ag	158	VAL	CB-CA-C	7.21	116.40	109.33
2	Be	148	PRO	N-CA-C	7.21	122.65	112.26
1	DI	151	SER	N-CA-C	-7.21	95.49	108.48
1	A9	158	VAL	CB-CA-C	7.21	116.40	109.33
1	Aa	151	SER	N-CA-C	-7.21	95.50	108.48
1	AF	158	VAL	CB-CA-C	7.21	116.40	109.33
1	AI	151	SER	N-CA-C	-7.21	95.50	108.48
1	A8	158	VAL	CB-CA-C	7.21	116.40	109.33
2	BR	148	PRO	N-CA-C	7.21	122.64	112.26
2	B0	148	PRO	N-CA-C	7.21	122.64	112.26
2	Bd	148	PRO	N-CA-C	7.21	122.64	112.26
2	BU	148	PRO	N-CA-C	7.21	122.64	112.26
2	B9	148	PRO	N-CA-C	7.21	122.64	112.26
2	Bj	148	PRO	N-CA-C	7.21	122.64	112.26
2	Bo	148	PRO	N-CA-C	7.21	122.64	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CS	28	LYS	N-CA-C	7.21	121.35	111.54
1	Ab	151	SER	N-CA-C	-7.21	95.50	108.48
1	Ak	158	VAL	CB-CA-C	7.21	116.39	109.33
1	AH	151	SER	N-CA-C	-7.21	95.51	108.48
1	AX	151	SER	N-CA-C	-7.21	95.51	108.48
1	AL	151	SER	N-CA-C	-7.21	95.51	108.48
1	AD	151	SER	N-CA-C	-7.20	95.51	108.48
1	AJ	158	VAL	CB-CA-C	7.20	116.39	109.33
1	Ab	158	VAL	CB-CA-C	7.20	116.39	109.33
1	Ao	158	VAL	CB-CA-C	7.20	116.39	109.33
2	Bh	148	PRO	N-CA-C	7.20	122.63	112.26
2	Bn	148	PRO	N-CA-C	7.20	122.63	112.26
2	Bw	148	PRO	N-CA-C	7.20	122.63	112.26
1	DF	151	SER	N-CA-C	-7.20	95.52	108.48
1	AS	158	VAL	CB-CA-C	7.20	116.39	109.33
1	AV	151	SER	N-CA-C	-7.20	95.52	108.48
1	A6	151	SER	N-CA-C	-7.20	95.52	108.48
2	BG	148	PRO	N-CA-C	7.20	122.63	112.26
1	AC	151	SER	N-CA-C	-7.20	95.52	108.48
2	BJ	148	PRO	N-CA-C	7.20	122.62	112.26
2	Bi	148	PRO	N-CA-C	7.20	122.63	112.26
1	DI	158	VAL	CB-CA-C	7.20	116.39	109.33
2	Bt	148	PRO	N-CA-C	7.20	122.62	112.26
1	DK	151	SER	N-CA-C	-7.20	95.53	108.48
1	AE	151	SER	N-CA-C	-7.20	95.53	108.48
1	Ac	151	SER	N-CA-C	-7.20	95.53	108.48
1	Ah	151	SER	N-CA-C	-7.20	95.53	108.48
2	B7	148	PRO	N-CA-C	7.20	122.62	112.26
2	Bm	148	PRO	N-CA-C	7.20	122.62	112.26
1	DJ	151	SER	N-CA-C	-7.20	95.53	108.48
1	AE	158	VAL	CB-CA-C	7.19	116.38	109.33
1	AJ	151	SER	N-CA-C	-7.19	95.53	108.48
1	A2	151	SER	N-CA-C	-7.19	95.53	108.48
1	Ac	158	VAL	CB-CA-C	7.19	116.38	109.33
1	AA	158	VAL	CB-CA-C	7.19	116.38	109.33
1	AO	158	VAL	CB-CA-C	7.19	116.38	109.33
1	AT	151	SER	N-CA-C	-7.19	95.53	108.48
1	A5	158	VAL	CB-CA-C	7.19	116.38	109.33
1	A7	151	SER	N-CA-C	-7.19	95.53	108.48
1	Ag	151	SER	N-CA-C	-7.19	95.53	108.48
1	Ak	151	SER	N-CA-C	-7.19	95.53	108.48
1	An	151	SER	N-CA-C	-7.19	95.53	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BB	148	PRO	N-CA-C	7.19	122.62	112.26
1	AS	151	SER	N-CA-C	-7.19	95.54	108.48
1	Af	151	SER	N-CA-C	-7.19	95.54	108.48
1	Ao	151	SER	N-CA-C	-7.19	95.53	108.48
1	AB	158	VAL	CB-CA-C	7.19	116.38	109.33
1	AY	151	SER	N-CA-C	-7.19	95.54	108.48
2	Br	148	PRO	N-CA-C	7.19	122.61	112.26
1	AV	158	VAL	CB-CA-C	7.19	116.37	109.33
1	AY	158	VAL	CB-CA-C	7.19	116.37	109.33
1	A1	151	SER	N-CA-C	-7.19	95.55	108.48
1	AQ	151	SER	N-CA-C	-7.18	95.55	108.48
1	Am	151	SER	N-CA-C	-7.18	95.55	108.48
2	B1	148	PRO	N-CA-C	7.18	122.60	112.26
3	CX	28	LYS	N-CA-C	7.18	121.31	111.54
1	AN	151	SER	N-CA-C	-7.18	95.56	108.48
1	AA	151	SER	N-CA-C	-7.18	95.56	108.48
1	AK	151	SER	N-CA-C	-7.18	95.56	108.48
1	AO	151	SER	N-CA-C	-7.18	95.56	108.48
1	A5	151	SER	N-CA-C	-7.18	95.56	108.48
1	DE	151	SER	N-CA-C	-7.18	95.56	108.48
1	AX	158	VAL	CB-CA-C	7.17	116.36	109.33
1	A8	151	SER	N-CA-C	-7.17	95.56	108.48
1	Ai	151	SER	N-CA-C	-7.17	95.57	108.48
2	BL	148	PRO	N-CA-C	7.17	122.59	112.26
1	DG	151	SER	N-CA-C	-7.17	95.56	108.48
1	A0	151	SER	N-CA-C	-7.17	95.57	108.48
1	Aj	151	SER	N-CA-C	-7.17	95.57	108.48
3	CV	28	LYS	N-CA-C	7.17	121.29	111.54
1	AC	158	VAL	CB-CA-C	7.17	116.36	109.33
1	A2	158	VAL	CB-CA-C	7.17	116.36	109.33
1	AG	151	SER	N-CA-C	-7.17	95.58	108.48
1	A6	158	VAL	CB-CA-C	7.17	116.35	109.33
1	AF	151	SER	N-CA-C	-7.17	95.58	108.48
1	DC	151	SER	N-CA-C	-7.17	95.58	108.48
1	AQ	158	VAL	CB-CA-C	7.17	116.35	109.33
1	AP	151	SER	N-CA-C	-7.16	95.59	108.48
1	Ae	151	SER	N-CA-C	-7.16	95.59	108.48
1	AB	151	SER	N-CA-C	-7.16	95.59	108.48
1	AD	158	VAL	CB-CA-C	7.16	116.35	109.33
1	Ad	151	SER	N-CA-C	-7.16	95.59	108.48
3	CD	28	LYS	N-CA-C	7.16	121.28	111.54
1	DD	158	VAL	CB-CA-C	7.16	116.34	109.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C2	28	LYS	N-CA-C	7.16	121.27	111.54
1	Ae	158	VAL	CB-CA-C	7.15	116.34	109.33
1	AU	151	SER	N-CA-C	-7.15	95.61	108.48
1	AZ	151	SER	N-CA-C	-7.15	95.60	108.48
3	Cl	28	LYS	N-CA-C	7.15	121.27	111.54
3	CW	28	LYS	N-CA-C	7.15	121.26	111.54
1	DH	151	SER	N-CA-C	-7.15	95.61	108.48
1	A3	151	SER	N-CA-C	-7.15	95.61	108.48
3	CG	28	LYS	N-CA-C	7.15	121.26	111.54
3	CQ	28	LYS	N-CA-C	7.15	121.26	111.54
3	C9	28	LYS	N-CA-C	7.15	121.26	111.54
3	Cg	28	LYS	N-CA-C	7.15	121.26	111.54
3	Cw	28	LYS	N-CA-C	7.15	121.26	111.54
3	CO	28	LYS	N-CA-C	7.15	121.26	111.54
1	A4	151	SER	N-CA-C	-7.14	95.62	108.48
1	A9	151	SER	N-CA-C	-7.14	95.62	108.48
3	CR	28	LYS	N-CA-C	7.14	121.26	111.54
1	A5	113	THR	N-CA-C	7.14	124.75	114.39
3	Cm	28	LYS	N-CA-C	7.14	121.25	111.54
3	Cu	28	LYS	N-CA-C	7.14	121.25	111.54
3	Ck	28	LYS	N-CA-C	7.14	121.25	111.54
1	Aa	113	THR	N-CA-C	7.14	124.74	114.39
1	Aj	158	VAL	CB-CA-C	7.13	116.32	109.33
3	CY	28	LYS	N-CA-C	7.13	121.24	111.54
3	Ce	28	LYS	N-CA-C	7.13	121.24	111.54
3	CI	28	LYS	N-CA-C	7.13	121.24	111.54
1	AU	158	VAL	CB-CA-C	7.13	116.32	109.33
3	CM	28	LYS	N-CA-C	7.13	121.24	111.54
3	C6	28	LYS	N-CA-C	7.13	121.24	111.54
3	CB	28	LYS	N-CA-C	7.13	121.23	111.54
3	CJ	28	LYS	N-CA-C	7.13	121.23	111.54
3	Cf	28	LYS	N-CA-C	7.13	121.24	111.54
1	AI	113	THR	N-CA-C	7.13	124.72	114.39
3	Cr	28	LYS	N-CA-C	7.13	121.23	111.54
3	CN	28	LYS	N-CA-C	7.12	121.23	111.54
3	Cv	28	LYS	N-CA-C	7.12	121.23	111.54
1	AQ	113	THR	N-CA-C	7.12	124.72	114.39
3	C1	28	LYS	N-CA-C	7.12	121.23	111.54
1	DD	113	THR	N-CA-C	7.12	124.72	114.39
3	C7	28	LYS	N-CA-C	7.12	121.23	111.54
1	AA	113	THR	N-CA-C	7.12	124.71	114.39
1	A3	113	THR	N-CA-C	7.12	124.71	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	113	THR	N-CA-C	7.12	124.71	114.39
1	Ak	113	THR	N-CA-C	7.12	124.71	114.39
3	CU	28	LYS	N-CA-C	7.12	121.22	111.54
3	Cc	28	LYS	N-CA-C	7.12	121.22	111.54
1	DC	113	THR	N-CA-C	7.12	124.71	114.39
1	DK	186	TRP	N-CA-C	7.12	125.96	110.80
1	AW	113	THR	N-CA-C	7.12	124.71	114.39
3	DA	28	LYS	N-CA-C	7.12	121.22	111.54
1	DJ	242	ASN	CB-CA-C	-7.12	99.71	110.88
1	A5	242	ASN	CB-CA-C	-7.12	99.71	110.88
3	CH	28	LYS	N-CA-C	7.12	121.22	111.54
3	CK	28	LYS	N-CA-C	7.12	121.22	111.54
3	C0	28	LYS	N-CA-C	7.12	121.22	111.54
3	C8	28	LYS	N-CA-C	7.12	121.22	111.54
1	AJ	113	THR	N-CA-C	7.11	124.70	114.39
3	Cj	28	LYS	N-CA-C	7.11	121.21	111.54
3	Cn	28	LYS	N-CA-C	7.11	121.21	111.54
1	DH	113	THR	N-CA-C	7.11	124.71	114.39
1	A4	113	THR	N-CA-C	7.11	124.70	114.39
3	CA	28	LYS	N-CA-C	7.11	121.21	111.54
1	AH	242	ASN	CB-CA-C	-7.11	99.72	110.88
1	Ab	113	THR	N-CA-C	7.11	124.70	114.39
3	CE	28	LYS	N-CA-C	7.11	121.21	111.54
1	Aa	242	ASN	CB-CA-C	-7.11	99.72	110.88
3	Ch	28	LYS	N-CA-C	7.11	121.21	111.54
1	AX	242	ASN	CB-CA-C	-7.11	99.72	110.88
1	AY	113	THR	N-CA-C	7.11	124.70	114.39
1	Ag	242	ASN	CB-CA-C	-7.11	99.72	110.88
3	CT	28	LYS	N-CA-C	7.11	121.21	111.54
3	C3	28	LYS	N-CA-C	7.11	121.21	111.54
1	AC	113	THR	N-CA-C	7.11	124.69	114.39
3	CC	28	LYS	N-CA-C	7.11	121.20	111.54
3	CL	28	LYS	N-CA-C	7.11	121.20	111.54
3	Cp	28	LYS	N-CA-C	7.11	121.20	111.54
1	An	242	ASN	CB-CA-C	-7.10	99.73	110.88
1	DH	186	TRP	N-CA-C	7.10	125.93	110.80
1	A8	113	THR	N-CA-C	7.10	124.69	114.39
1	Am	242	ASN	CB-CA-C	-7.10	99.73	110.88
3	Co	28	LYS	N-CA-C	7.10	121.20	111.54
1	AA	242	ASN	CB-CA-C	-7.10	99.73	110.88
1	A0	113	THR	N-CA-C	7.10	124.68	114.39
1	Ah	113	THR	N-CA-C	7.10	124.69	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DD	148	GLY	N-CA-C	-7.10	106.63	115.08
1	AV	113	THR	N-CA-C	7.10	124.68	114.39
1	AX	113	THR	N-CA-C	7.10	124.68	114.39
1	AZ	113	THR	N-CA-C	7.10	124.68	114.39
1	A2	242	ASN	CB-CA-C	-7.10	99.74	110.88
1	A8	242	ASN	CB-CA-C	-7.10	99.74	110.88
1	Af	181	LYS	N-CA-C	-7.10	95.68	110.80
1	An	113	THR	N-CA-C	7.10	124.68	114.39
3	Cx	28	LYS	N-CA-C	7.10	121.19	111.54
1	AU	242	ASN	CB-CA-C	-7.10	99.74	110.88
1	Ao	181	LYS	N-CA-C	-7.10	95.69	110.80
1	AN	242	ASN	CB-CA-C	-7.09	99.74	110.88
1	AT	113	THR	N-CA-C	7.09	124.68	114.39
1	AV	242	ASN	CB-CA-C	-7.09	99.74	110.88
1	A6	242	ASN	CB-CA-C	-7.09	99.74	110.88
1	Ac	242	ASN	CB-CA-C	-7.09	99.74	110.88
1	DF	242	ASN	CB-CA-C	-7.09	99.74	110.88
3	C5	28	LYS	N-CA-C	7.09	121.19	111.54
1	AG	113	THR	N-CA-C	7.09	124.67	114.39
1	AQ	181	LYS	N-CA-C	-7.09	95.69	110.80
1	A9	113	THR	N-CA-C	7.09	124.67	114.39
1	Ad	242	ASN	CB-CA-C	-7.09	99.75	110.88
1	Ag	113	THR	N-CA-C	7.09	124.67	114.39
1	Aj	186	TRP	N-CA-C	7.09	125.90	110.80
1	AK	113	THR	N-CA-C	7.09	124.67	114.39
1	AN	113	THR	N-CA-C	7.09	124.67	114.39
1	AU	181	LYS	N-CA-C	-7.09	95.70	110.80
1	DE	242	ASN	CB-CA-C	-7.09	99.75	110.88
1	A0	242	ASN	CB-CA-C	-7.09	99.75	110.88
1	A9	242	ASN	CB-CA-C	-7.09	99.75	110.88
3	CP	28	LYS	N-CA-C	7.09	121.18	111.54
1	AG	181	LYS	N-CA-C	-7.09	95.71	110.80
1	A3	242	ASN	CB-CA-C	-7.09	99.75	110.88
1	A4	181	LYS	N-CA-C	-7.09	95.70	110.80
1	Ak	242	ASN	CB-CA-C	-7.09	99.75	110.88
1	An	181	LYS	N-CA-C	-7.09	95.70	110.80
1	DG	242	ASN	CB-CA-C	-7.09	99.75	110.88
1	DI	113	THR	N-CA-C	7.09	124.67	114.39
3	DB	28	LYS	N-CA-C	7.08	121.18	111.54
1	AB	181	LYS	N-CA-C	-7.08	95.71	110.80
1	AF	113	THR	N-CA-C	7.08	124.66	114.39
1	AH	181	LYS	N-CA-C	-7.08	95.71	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AL	113	THR	N-CA-C	7.08	124.66	114.39
1	AL	242	ASN	CB-CA-C	-7.08	99.76	110.88
1	AR	113	THR	N-CA-C	7.08	124.66	114.39
1	AT	242	ASN	CB-CA-C	-7.08	99.76	110.88
1	AV	148	GLY	N-CA-C	-7.08	106.65	115.08
1	A0	181	LYS	N-CA-C	-7.08	95.71	110.80
3	Cs	28	LYS	N-CA-C	7.08	121.17	111.54
1	AH	186	TRP	N-CA-C	7.08	125.89	110.80
1	AP	186	TRP	N-CA-C	7.08	125.88	110.80
1	AR	186	TRP	N-CA-C	7.08	125.88	110.80
1	AS	181	LYS	N-CA-C	-7.08	95.71	110.80
1	AS	186	TRP	N-CA-C	7.08	125.89	110.80
1	A4	242	ASN	CB-CA-C	-7.08	99.76	110.88
3	Ct	28	LYS	N-CA-C	7.08	121.17	111.54
1	DG	181	LYS	N-CA-C	-7.08	95.72	110.80
1	DG	186	TRP	N-CA-C	7.08	125.88	110.80
1	DH	242	ASN	CB-CA-C	-7.08	99.76	110.88
1	Ao	242	ASN	CB-CA-C	-7.08	99.76	110.88
1	AG	242	ASN	CB-CA-C	-7.08	99.77	110.88
1	AK	242	ASN	CB-CA-C	-7.08	99.77	110.88
1	AQ	186	TRP	N-CA-C	7.08	125.88	110.80
1	AU	186	TRP	N-CA-C	7.08	125.88	110.80
1	AY	242	ASN	CB-CA-C	-7.08	99.77	110.88
1	A5	186	TRP	N-CA-C	7.08	125.88	110.80
1	Af	242	ASN	CB-CA-C	-7.08	99.77	110.88
1	DE	113	THR	N-CA-C	7.08	124.66	114.39
1	DH	181	LYS	N-CA-C	-7.08	95.72	110.80
1	AC	181	LYS	N-CA-C	-7.08	95.73	110.80
1	AK	186	TRP	N-CA-C	7.08	125.88	110.80
1	Ad	113	THR	N-CA-C	7.08	124.65	114.39
1	Ah	181	LYS	N-CA-C	-7.08	95.73	110.80
1	AE	242	ASN	CB-CA-C	-7.08	99.77	110.88
1	A6	181	LYS	N-CA-C	-7.08	95.73	110.80
1	Ae	148	GLY	N-CA-C	-7.08	106.66	115.08
1	Ae	181	LYS	N-CA-C	-7.08	95.73	110.80
1	Af	113	THR	N-CA-C	7.08	124.65	114.39
3	Ci	28	LYS	N-CA-C	7.08	121.16	111.54
1	DJ	186	TRP	N-CA-C	7.08	125.87	110.80
1	AS	242	ASN	CB-CA-C	-7.07	99.77	110.88
1	AX	186	TRP	N-CA-C	7.07	125.87	110.80
1	AZ	148	GLY	N-CA-C	-7.07	106.66	115.08
1	Al	186	TRP	N-CA-C	7.07	125.87	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CF	28	LYS	N-CA-C	7.07	121.16	111.54
3	CZ	28	LYS	N-CA-C	7.07	121.16	111.54
1	DC	186	TRP	N-CA-C	7.07	125.87	110.80
1	AD	113	THR	N-CA-C	7.07	124.64	114.39
1	AE	113	THR	N-CA-C	7.07	124.64	114.39
1	AF	181	LYS	N-CA-C	-7.07	95.74	110.80
1	AO	181	LYS	N-CA-C	-7.07	95.74	110.80
1	AZ	242	ASN	CB-CA-C	-7.07	99.78	110.88
1	A9	186	TRP	N-CA-C	7.07	125.86	110.80
1	Aa	186	TRP	N-CA-C	7.07	125.86	110.80
1	Ag	186	TRP	N-CA-C	7.07	125.86	110.80
1	Ao	113	THR	N-CA-C	7.07	124.64	114.39
1	AF	186	TRP	N-CA-C	7.07	125.86	110.80
1	AG	186	TRP	N-CA-C	7.07	125.86	110.80
1	AL	181	LYS	N-CA-C	-7.07	95.74	110.80
1	AM	186	TRP	N-CA-C	7.07	125.86	110.80
1	A0	186	TRP	N-CA-C	7.07	125.86	110.80
3	Cd	28	LYS	N-CA-C	7.07	121.16	111.54
1	DJ	181	LYS	N-CA-C	-7.07	95.74	110.80
1	DK	242	ASN	CB-CA-C	-7.07	99.78	110.88
1	AB	186	TRP	N-CA-C	7.07	125.86	110.80
1	AC	242	ASN	CB-CA-C	-7.07	99.78	110.88
1	AN	181	LYS	N-CA-C	-7.07	95.74	110.80
1	Ai	186	TRP	N-CA-C	7.07	125.86	110.80
3	Cq	28	LYS	N-CA-C	7.07	121.15	111.54
1	AB	242	ASN	CB-CA-C	-7.07	99.78	110.88
1	AH	113	THR	N-CA-C	7.07	124.64	114.39
1	AQ	242	ASN	CB-CA-C	-7.07	99.79	110.88
1	AY	186	TRP	N-CA-C	7.07	125.85	110.80
1	A2	181	LYS	N-CA-C	-7.07	95.75	110.80
1	Ad	186	TRP	N-CA-C	7.07	125.85	110.80
1	Aj	242	ASN	CB-CA-C	-7.07	99.78	110.88
1	Al	181	LYS	N-CA-C	-7.07	95.74	110.80
3	C4	28	LYS	N-CA-C	7.07	121.15	111.54
1	DI	181	LYS	N-CA-C	-7.07	95.75	110.80
1	AB	148	GLY	N-CA-C	-7.07	106.67	115.08
1	AD	242	ASN	CB-CA-C	-7.07	99.79	110.88
1	AI	181	LYS	N-CA-C	-7.07	95.75	110.80
1	AI	186	TRP	N-CA-C	7.07	125.85	110.80
1	AK	181	LYS	N-CA-C	-7.07	95.75	110.80
1	AL	186	TRP	N-CA-C	7.07	125.85	110.80
1	AV	181	LYS	N-CA-C	-7.07	95.75	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AW	242	ASN	CB-CA-C	-7.07	99.79	110.88
1	A1	113	THR	N-CA-C	7.07	124.64	114.39
1	Ab	181	LYS	N-CA-C	-7.07	95.75	110.80
1	An	186	TRP	N-CA-C	7.07	125.85	110.80
1	Ao	186	TRP	N-CA-C	7.07	125.85	110.80
1	AC	148	GLY	N-CA-C	-7.06	106.67	115.08
1	AO	113	THR	N-CA-C	7.06	124.63	114.39
1	Aa	181	LYS	N-CA-C	-7.06	95.75	110.80
1	Am	113	THR	N-CA-C	7.06	124.63	114.39
1	Am	186	TRP	N-CA-C	7.06	125.85	110.80
1	AE	186	TRP	N-CA-C	7.06	125.84	110.80
1	AM	242	ASN	CB-CA-C	-7.06	99.79	110.88
1	AR	242	ASN	CB-CA-C	-7.06	99.79	110.88
1	A1	242	ASN	CB-CA-C	-7.06	99.79	110.88
1	Ai	242	ASN	CB-CA-C	-7.06	99.79	110.88
1	Ak	181	LYS	N-CA-C	-7.06	95.76	110.80
1	Ak	186	TRP	N-CA-C	7.06	125.84	110.80
1	AM	113	THR	N-CA-C	7.06	124.63	114.39
1	AY	181	LYS	N-CA-C	-7.06	95.76	110.80
1	A3	181	LYS	N-CA-C	-7.06	95.76	110.80
1	DF	113	THR	N-CA-C	7.06	124.63	114.39
1	AC	186	TRP	N-CA-C	7.06	125.84	110.80
1	AH	148	GLY	N-CA-C	-7.06	106.68	115.08
1	AO	242	ASN	CB-CA-C	-7.06	99.80	110.88
1	AP	181	LYS	N-CA-C	-7.06	95.76	110.80
1	AV	186	TRP	N-CA-C	7.06	125.84	110.80
1	AX	181	LYS	N-CA-C	-7.06	95.76	110.80
1	A3	186	TRP	N-CA-C	7.06	125.83	110.80
1	A6	113	THR	N-CA-C	7.06	124.63	114.39
1	A7	242	ASN	CB-CA-C	-7.06	99.80	110.88
1	A8	186	TRP	N-CA-C	7.06	125.83	110.80
1	Ab	242	ASN	CB-CA-C	-7.06	99.80	110.88
1	Ae	186	TRP	N-CA-C	7.06	125.83	110.80
1	Ai	181	LYS	N-CA-C	-7.06	95.77	110.80
1	Aj	113	THR	N-CA-C	7.06	124.62	114.39
1	Aj	181	LYS	N-CA-C	-7.06	95.76	110.80
1	Al	242	ASN	CB-CA-C	-7.06	99.80	110.88
1	DH	148	GLY	N-CA-C	-7.06	106.68	115.08
1	AA	181	LYS	N-CA-C	-7.06	95.77	110.80
1	AB	113	THR	N-CA-C	7.06	124.62	114.39
1	AT	181	LYS	N-CA-C	-7.06	95.77	110.80
1	A6	148	GLY	N-CA-C	-7.06	106.68	115.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ah	186	TRP	N-CA-C	7.06	125.83	110.80
1	DG	113	THR	N-CA-C	7.06	124.62	114.39
1	DK	113	THR	N-CA-C	7.06	124.62	114.39
1	Ab	186	TRP	N-CA-C	7.06	125.83	110.80
1	AT	186	TRP	N-CA-C	7.05	125.83	110.80
1	A9	181	LYS	N-CA-C	-7.05	95.78	110.80
1	DK	181	LYS	N-CA-C	-7.05	95.77	110.80
1	AD	181	LYS	N-CA-C	-7.05	95.78	110.80
1	AZ	181	LYS	N-CA-C	-7.05	95.78	110.80
1	A4	186	TRP	N-CA-C	7.05	125.82	110.80
1	DF	181	LYS	N-CA-C	-7.05	95.78	110.80
1	DF	186	TRP	N-CA-C	7.05	125.82	110.80
1	AI	242	ASN	CB-CA-C	-7.05	99.81	110.88
1	AJ	242	ASN	CB-CA-C	-7.05	99.81	110.88
1	AP	242	ASN	CB-CA-C	-7.05	99.81	110.88
1	A0	148	GLY	N-CA-C	-7.05	106.69	115.08
1	Ac	181	LYS	N-CA-C	-7.05	95.78	110.80
1	AM	181	LYS	N-CA-C	-7.05	95.78	110.80
1	AZ	186	TRP	N-CA-C	7.05	125.81	110.80
1	Ac	113	THR	N-CA-C	7.05	124.61	114.39
1	Ac	186	TRP	N-CA-C	7.05	125.82	110.80
1	DG	148	GLY	N-CA-C	-7.05	106.69	115.08
1	DI	186	TRP	N-CA-C	7.05	125.82	110.80
1	AA	186	TRP	N-CA-C	7.05	125.81	110.80
1	AD	186	TRP	N-CA-C	7.05	125.81	110.80
1	AN	186	TRP	N-CA-C	7.05	125.81	110.80
1	AO	186	TRP	N-CA-C	7.05	125.81	110.80
1	Ad	181	LYS	N-CA-C	-7.05	95.79	110.80
1	Ae	113	THR	N-CA-C	7.05	124.61	114.39
1	DD	186	TRP	N-CA-C	7.05	125.81	110.80
1	A2	186	TRP	N-CA-C	7.05	125.81	110.80
1	A6	186	TRP	N-CA-C	7.05	125.81	110.80
1	Al	113	THR	N-CA-C	7.05	124.61	114.39
1	Am	181	LYS	N-CA-C	-7.05	95.79	110.80
1	DC	242	ASN	CB-CA-C	-7.05	99.81	110.88
1	DD	181	LYS	N-CA-C	-7.05	95.79	110.80
1	DI	242	ASN	CB-CA-C	-7.05	99.82	110.88
1	DK	148	GLY	N-CA-C	-7.05	106.69	115.08
1	A2	113	THR	N-CA-C	7.04	124.61	114.39
1	A5	181	LYS	N-CA-C	-7.04	95.79	110.80
1	AE	181	LYS	N-CA-C	-7.04	95.80	110.80
1	AJ	186	TRP	N-CA-C	7.04	125.80	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Af	186	TRP	N-CA-C	7.04	125.80	110.80
1	AF	242	ASN	CB-CA-C	-7.04	99.82	110.88
1	A8	148	GLY	N-CA-C	-7.04	106.70	115.08
1	Aa	148	GLY	N-CA-C	-7.04	106.70	115.08
1	AL	148	GLY	N-CA-C	-7.04	106.70	115.08
1	DE	181	LYS	N-CA-C	-7.04	95.81	110.80
1	AJ	181	LYS	N-CA-C	-7.04	95.81	110.80
1	A7	181	LYS	N-CA-C	-7.04	95.81	110.80
1	Ai	113	THR	N-CA-C	7.04	124.59	114.39
1	DJ	113	THR	N-CA-C	7.04	124.59	114.39
1	DE	186	TRP	N-CA-C	7.04	125.79	110.80
1	AO	148	GLY	N-CA-C	-7.04	106.71	115.08
1	AU	113	THR	N-CA-C	7.03	124.59	114.39
1	AW	181	LYS	N-CA-C	-7.03	95.82	110.80
1	Ag	148	GLY	N-CA-C	-7.03	106.71	115.08
1	DC	148	GLY	N-CA-C	-7.03	106.71	115.08
1	DC	181	LYS	N-CA-C	-7.03	95.82	110.80
1	AM	148	GLY	N-CA-C	-7.03	106.71	115.08
1	DD	242	ASN	CB-CA-C	-7.03	99.84	110.88
1	AK	148	GLY	N-CA-C	-7.03	106.72	115.08
1	AS	113	THR	N-CA-C	7.03	124.58	114.39
1	AW	186	TRP	N-CA-C	7.03	125.77	110.80
1	A1	181	LYS	N-CA-C	-7.03	95.83	110.80
1	A8	181	LYS	N-CA-C	-7.03	95.83	110.80
1	Ak	148	GLY	N-CA-C	-7.03	106.72	115.08
1	A1	186	TRP	N-CA-C	7.03	125.76	110.80
1	Ag	181	LYS	N-CA-C	-7.02	95.84	110.80
1	AP	148	GLY	N-CA-C	-7.02	106.72	115.08
1	AU	148	GLY	N-CA-C	-7.02	106.72	115.08
1	Ah	242	ASN	CB-CA-C	-7.02	99.86	110.88
1	Al	148	GLY	N-CA-C	-7.02	106.72	115.08
1	A9	148	GLY	N-CA-C	-7.02	106.73	115.08
1	Ac	148	GLY	N-CA-C	-7.02	106.73	115.08
1	Ae	242	ASN	CB-CA-C	-7.02	99.86	110.88
1	AN	148	GLY	N-CA-C	-7.02	106.73	115.08
1	A7	113	THR	N-CA-C	7.02	124.56	114.39
1	AI	148	GLY	N-CA-C	-7.02	106.73	115.08
1	AR	181	LYS	N-CA-C	-7.01	95.86	110.80
1	A7	186	TRP	N-CA-C	7.01	125.74	110.80
1	AR	148	GLY	N-CA-C	-7.01	106.73	115.08
1	AG	148	GLY	N-CA-C	-7.01	106.74	115.08
1	AY	148	GLY	N-CA-C	-7.01	106.74	115.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AF	148	GLY	N-CA-C	-7.01	106.74	115.08
1	AS	148	GLY	N-CA-C	-7.01	106.74	115.08
1	AX	148	GLY	N-CA-C	-7.01	106.74	115.08
1	Af	148	GLY	N-CA-C	-7.01	106.74	115.08
1	AT	148	GLY	N-CA-C	-7.00	106.74	115.08
1	AQ	148	GLY	N-CA-C	-7.00	106.75	115.08
1	A5	148	GLY	N-CA-C	-7.00	106.75	115.08
1	Ao	148	GLY	N-CA-C	-7.00	106.75	115.08
1	AE	148	GLY	N-CA-C	-7.00	106.75	115.08
1	AD	148	GLY	N-CA-C	-7.00	106.75	115.08
1	A4	148	GLY	N-CA-C	-7.00	106.75	115.08
1	A1	148	GLY	N-CA-C	-7.00	106.75	115.08
1	AW	148	GLY	N-CA-C	-6.99	106.76	115.08
1	A3	148	GLY	N-CA-C	-6.99	106.76	115.08
3	C2	12	ASP	N-CA-C	6.99	121.25	113.21
1	DI	148	GLY	N-CA-C	-6.99	106.76	115.08
1	An	148	GLY	N-CA-C	-6.99	106.76	115.08
3	C9	12	ASP	N-CA-C	6.99	121.25	113.21
1	Am	148	GLY	N-CA-C	-6.99	106.77	115.08
1	AA	148	GLY	N-CA-C	-6.98	106.77	115.08
3	Ce	12	ASP	N-CA-C	6.98	121.24	113.21
1	DE	148	GLY	N-CA-C	-6.98	106.77	115.08
1	A7	148	GLY	N-CA-C	-6.98	106.77	115.08
1	Ai	148	GLY	N-CA-C	-6.98	106.78	115.08
1	Aj	148	GLY	N-CA-C	-6.98	106.78	115.08
1	Ah	148	GLY	N-CA-C	-6.97	106.78	115.08
3	C0	12	ASP	N-CA-C	6.97	121.23	113.21
3	CG	12	ASP	N-CA-C	6.97	121.23	113.21
3	CI	12	ASP	N-CA-C	6.97	121.23	113.21
3	Cp	12	ASP	N-CA-C	6.97	121.23	113.21
3	Cq	12	ASP	N-CA-C	6.97	121.23	113.21
3	CW	12	ASP	N-CA-C	6.97	121.23	113.21
1	A2	148	GLY	N-CA-C	-6.97	106.79	115.08
3	CS	12	ASP	N-CA-C	6.97	121.22	113.21
1	Ad	148	GLY	N-CA-C	-6.96	106.79	115.08
3	CH	12	ASP	N-CA-C	6.96	121.22	113.21
1	Ab	148	GLY	N-CA-C	-6.96	106.79	115.08
3	CL	12	ASP	N-CA-C	6.96	121.21	113.21
3	CP	12	ASP	N-CA-C	6.96	121.21	113.21
1	AJ	148	GLY	N-CA-C	-6.96	106.80	115.08
2	B8	85	SER	CA-C-N	-6.96	111.31	122.23
2	B8	85	SER	C-N-CA	-6.96	111.31	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CD	12	ASP	N-CA-C	6.95	121.21	113.21
3	CZ	12	ASP	N-CA-C	6.95	121.20	113.21
3	CV	12	ASP	N-CA-C	6.95	121.20	113.21
1	DF	148	GLY	N-CA-C	-6.95	106.81	115.08
1	DJ	148	GLY	N-CA-C	-6.95	106.81	115.08
3	CT	12	ASP	N-CA-C	6.95	121.20	113.21
3	Cc	12	ASP	N-CA-C	6.95	121.20	113.21
3	Cu	12	ASP	N-CA-C	6.95	121.20	113.21
3	C7	12	ASP	N-CA-C	6.94	121.20	113.21
2	Bk	85	SER	CA-C-N	-6.94	111.33	122.23
2	Bk	85	SER	C-N-CA	-6.94	111.33	122.23
3	Cm	12	ASP	N-CA-C	6.94	121.19	113.21
3	CM	12	ASP	N-CA-C	6.94	121.19	113.21
3	C6	12	ASP	N-CA-C	6.94	121.19	113.21
2	B4	85	SER	CA-C-N	-6.94	111.34	122.23
2	B4	85	SER	C-N-CA	-6.94	111.34	122.23
3	Cx	12	ASP	N-CA-C	6.94	121.19	113.21
3	CQ	12	ASP	N-CA-C	6.94	121.19	113.21
3	Ch	12	ASP	N-CA-C	6.94	121.19	113.21
2	BU	85	SER	CA-C-N	-6.94	111.34	122.23
2	BU	85	SER	C-N-CA	-6.94	111.34	122.23
3	Cf	12	ASP	N-CA-C	6.94	121.19	113.21
3	Cw	12	ASP	N-CA-C	6.94	121.19	113.21
3	CA	12	ASP	N-CA-C	6.93	121.19	113.21
3	C5	12	ASP	N-CA-C	6.93	121.19	113.21
3	Cl	12	ASP	N-CA-C	6.93	121.18	113.21
3	CU	12	ASP	N-CA-C	6.93	121.18	113.21
3	DB	12	ASP	N-CA-C	6.93	121.18	113.21
3	Ci	12	ASP	N-CA-C	6.93	121.18	113.21
3	CC	12	ASP	N-CA-C	6.93	121.18	113.21
3	CR	12	ASP	N-CA-C	6.93	121.18	113.21
3	C8	12	ASP	N-CA-C	6.93	121.18	113.21
3	Cr	12	ASP	N-CA-C	6.93	121.17	113.21
2	B5	85	SER	CA-C-N	-6.92	111.36	122.23
2	B5	85	SER	C-N-CA	-6.92	111.36	122.23
3	CN	12	ASP	N-CA-C	6.92	121.17	113.21
3	Ct	12	ASP	N-CA-C	6.92	121.17	113.21
2	BG	85	SER	CA-C-N	-6.92	111.36	122.23
2	BG	85	SER	C-N-CA	-6.92	111.36	122.23
2	BK	85	SER	CA-C-N	-6.92	111.36	122.23
2	BK	85	SER	C-N-CA	-6.92	111.36	122.23
2	Bq	85	SER	CA-C-N	-6.92	111.36	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bq	85	SER	C-N-CA	-6.92	111.36	122.23
2	Bw	85	SER	CA-C-N	-6.92	111.36	122.23
2	Bw	85	SER	C-N-CA	-6.92	111.36	122.23
3	Cn	12	ASP	N-CA-C	6.92	121.17	113.21
3	Co	12	ASP	N-CA-C	6.92	121.17	113.21
2	Bm	85	SER	CA-C-N	-6.92	111.37	122.23
2	Bm	85	SER	C-N-CA	-6.92	111.37	122.23
2	Bs	85	SER	CA-C-N	-6.92	111.37	122.23
2	Bs	85	SER	C-N-CA	-6.92	111.37	122.23
2	B3	85	SER	CA-C-N	-6.92	111.37	122.23
2	B3	85	SER	C-N-CA	-6.92	111.37	122.23
2	B7	85	SER	CA-C-N	-6.92	111.37	122.23
2	B7	85	SER	C-N-CA	-6.92	111.37	122.23
3	Cg	12	ASP	N-CA-C	6.92	121.16	113.21
3	CF	12	ASP	N-CA-C	6.91	121.16	113.21
3	Cj	12	ASP	N-CA-C	6.91	121.16	113.21
2	BD	85	SER	CA-C-N	-6.91	111.38	122.23
2	BD	85	SER	C-N-CA	-6.91	111.38	122.23
2	BJ	85	SER	CA-C-N	-6.91	111.38	122.23
2	BJ	85	SER	C-N-CA	-6.91	111.38	122.23
2	BP	85	SER	CA-C-N	-6.91	111.38	122.23
2	BP	85	SER	C-N-CA	-6.91	111.38	122.23
3	CK	12	ASP	N-CA-C	6.91	121.16	113.21
2	Bt	85	SER	CA-C-N	-6.91	111.38	122.23
2	Bt	85	SER	C-N-CA	-6.91	111.38	122.23
2	Bn	85	SER	CA-C-N	-6.91	111.39	122.23
2	Bn	85	SER	C-N-CA	-6.91	111.39	122.23
2	Ba	85	SER	CA-C-N	-6.91	111.39	122.23
2	Ba	85	SER	C-N-CA	-6.91	111.39	122.23
2	Bc	85	SER	CA-C-N	-6.91	111.39	122.23
2	Bc	85	SER	C-N-CA	-6.91	111.39	122.23
3	Cd	12	ASP	N-CA-C	6.91	121.15	113.21
2	Bf	85	SER	CA-C-N	-6.90	111.39	122.23
2	Bf	85	SER	C-N-CA	-6.90	111.39	122.23
3	CJ	12	ASP	N-CA-C	6.90	121.15	113.21
2	BL	85	SER	CA-C-N	-6.90	111.40	122.23
2	BL	85	SER	C-N-CA	-6.90	111.40	122.23
2	Bu	85	SER	CA-C-N	-6.90	111.40	122.23
2	Bu	85	SER	C-N-CA	-6.90	111.40	122.23
3	CB	12	ASP	N-CA-C	6.90	121.14	113.21
3	CY	12	ASP	N-CA-C	6.90	121.15	113.21
2	BN	85	SER	CA-C-N	-6.90	111.40	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BN	85	SER	C-N-CA	-6.90	111.40	122.23
3	CE	12	ASP	N-CA-C	6.90	121.14	113.21
3	C1	12	ASP	N-CA-C	6.90	121.14	113.21
2	BQ	85	SER	CA-C-N	-6.90	111.40	122.23
2	BQ	85	SER	C-N-CA	-6.90	111.40	122.23
2	BR	85	SER	CA-C-N	-6.89	111.41	122.23
2	BR	85	SER	C-N-CA	-6.89	111.41	122.23
2	BV	85	SER	CA-C-N	-6.89	111.41	122.23
2	BV	85	SER	C-N-CA	-6.89	111.41	122.23
2	BW	85	SER	CA-C-N	-6.89	111.40	122.23
2	BW	85	SER	C-N-CA	-6.89	111.40	122.23
2	BF	85	SER	CA-C-N	-6.89	111.41	122.23
2	BF	85	SER	C-N-CA	-6.89	111.41	122.23
2	BS	85	SER	CA-C-N	-6.89	111.41	122.23
2	BS	85	SER	C-N-CA	-6.89	111.41	122.23
2	BZ	85	SER	CA-C-N	-6.89	111.41	122.23
2	BZ	85	SER	C-N-CA	-6.89	111.41	122.23
2	Bh	85	SER	CA-C-N	-6.89	111.41	122.23
2	Bh	85	SER	C-N-CA	-6.89	111.41	122.23
3	CX	12	ASP	N-CA-C	6.89	121.14	113.21
2	BB	85	SER	CA-C-N	-6.89	111.41	122.23
2	BB	85	SER	C-N-CA	-6.89	111.41	122.23
2	BH	85	SER	CA-C-N	-6.89	111.41	122.23
2	BH	85	SER	C-N-CA	-6.89	111.41	122.23
2	BY	85	SER	CA-C-N	-6.89	111.41	122.23
2	BY	85	SER	C-N-CA	-6.89	111.41	122.23
2	Bg	85	SER	CA-C-N	-6.89	111.41	122.23
2	Bg	85	SER	C-N-CA	-6.89	111.41	122.23
2	Bj	85	SER	CA-C-N	-6.89	111.41	122.23
2	Bj	85	SER	C-N-CA	-6.89	111.41	122.23
3	C4	12	ASP	N-CA-C	6.89	121.13	113.21
2	BM	85	SER	CA-C-N	-6.89	111.42	122.23
2	BM	85	SER	C-N-CA	-6.89	111.42	122.23
1	AV	226	PRO	N-CA-C	6.89	126.66	112.47
2	Bl	85	SER	CA-C-N	-6.89	111.42	122.23
2	Bl	85	SER	C-N-CA	-6.89	111.42	122.23
3	Cv	12	ASP	N-CA-C	6.89	121.13	113.21
2	BA	85	SER	CA-C-N	-6.88	111.42	122.23
2	BA	85	SER	C-N-CA	-6.88	111.42	122.23
2	BE	85	SER	CA-C-N	-6.88	111.42	122.23
2	BE	85	SER	C-N-CA	-6.88	111.42	122.23
2	Bx	85	SER	CA-C-N	-6.88	111.42	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bx	85	SER	C-N-CA	-6.88	111.42	122.23
2	BT	85	SER	CA-C-N	-6.88	111.42	122.23
2	BT	85	SER	C-N-CA	-6.88	111.42	122.23
2	B1	85	SER	CA-C-N	-6.88	111.43	122.23
2	B1	85	SER	C-N-CA	-6.88	111.43	122.23
2	B9	85	SER	CA-C-N	-6.88	111.43	122.23
2	B9	85	SER	C-N-CA	-6.88	111.43	122.23
3	Ck	12	ASP	N-CA-C	6.88	121.12	113.21
3	Cs	12	ASP	N-CA-C	6.88	121.12	113.21
1	Af	226	PRO	N-CA-C	6.87	126.63	112.47
3	DA	12	ASP	N-CA-C	6.87	121.11	113.21
2	B0	85	SER	CA-C-N	-6.87	111.44	122.23
2	B0	85	SER	C-N-CA	-6.87	111.44	122.23
2	Be	85	SER	CA-C-N	-6.87	111.44	122.23
2	Be	85	SER	C-N-CA	-6.87	111.44	122.23
1	A1	226	PRO	N-CA-C	6.87	126.62	112.47
1	A5	226	PRO	N-CA-C	6.87	126.62	112.47
2	BI	85	SER	CA-C-N	-6.87	111.44	122.23
2	BI	85	SER	C-N-CA	-6.87	111.44	122.23
2	Bb	85	SER	CA-C-N	-6.87	111.45	122.23
2	Bb	85	SER	C-N-CA	-6.87	111.45	122.23
1	Aa	226	PRO	N-CA-C	6.87	126.61	112.47
2	BO	85	SER	CA-C-N	-6.87	111.45	122.23
2	BO	85	SER	C-N-CA	-6.87	111.45	122.23
1	AC	226	PRO	N-CA-C	6.86	126.61	112.47
1	AQ	226	PRO	N-CA-C	6.86	126.61	112.47
1	Ag	226	PRO	N-CA-C	6.86	126.61	112.47
2	Bo	85	SER	CA-C-N	-6.86	111.45	122.23
2	Bo	85	SER	C-N-CA	-6.86	111.45	122.23
2	Br	85	SER	CA-C-N	-6.86	111.45	122.23
2	Br	85	SER	C-N-CA	-6.86	111.45	122.23
2	BC	85	SER	CA-C-N	-6.86	111.46	122.23
2	BC	85	SER	C-N-CA	-6.86	111.46	122.23
2	Bd	85	SER	CA-C-N	-6.86	111.46	122.23
2	Bd	85	SER	C-N-CA	-6.86	111.46	122.23
1	DC	226	PRO	N-CA-C	6.86	126.60	112.47
2	Bp	85	SER	CA-C-N	-6.86	111.46	122.23
2	Bp	85	SER	C-N-CA	-6.86	111.46	122.23
1	AX	226	PRO	N-CA-C	6.86	126.60	112.47
1	Am	226	PRO	N-CA-C	6.86	126.60	112.47
1	DI	226	PRO	N-CA-C	6.86	126.60	112.47
1	A0	226	PRO	N-CA-C	6.86	126.59	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ae	226	PRO	N-CA-C	6.86	126.59	112.47
1	AR	226	PRO	N-CA-C	6.85	126.59	112.47
1	DD	226	PRO	N-CA-C	6.85	126.59	112.47
1	A6	226	PRO	N-CA-C	6.85	126.58	112.47
1	A9	226	PRO	N-CA-C	6.85	126.58	112.47
2	BX	85	SER	CA-C-N	-6.85	111.48	122.23
2	BX	85	SER	C-N-CA	-6.85	111.48	122.23
3	CO	12	ASP	N-CA-C	6.85	121.08	113.21
3	C3	12	ASP	N-CA-C	6.85	121.08	113.21
1	DG	226	PRO	N-CA-C	6.85	126.58	112.47
1	AZ	226	PRO	N-CA-C	6.85	126.57	112.47
1	Aj	226	PRO	N-CA-C	6.85	126.57	112.47
2	B2	85	SER	CA-C-N	-6.85	111.48	122.23
2	B2	85	SER	C-N-CA	-6.85	111.48	122.23
1	A3	226	PRO	N-CA-C	6.84	126.57	112.47
1	A7	226	PRO	N-CA-C	6.84	126.57	112.47
1	Ab	226	PRO	N-CA-C	6.84	126.57	112.47
2	B6	85	SER	CA-C-N	-6.84	111.48	122.23
2	B6	85	SER	C-N-CA	-6.84	111.48	122.23
2	Bi	85	SER	CA-C-N	-6.84	111.48	122.23
2	Bi	85	SER	C-N-CA	-6.84	111.48	122.23
1	DH	226	PRO	N-CA-C	6.84	126.57	112.47
1	AF	226	PRO	N-CA-C	6.84	126.56	112.47
1	AI	226	PRO	N-CA-C	6.84	126.56	112.47
1	AA	226	PRO	N-CA-C	6.84	126.56	112.47
1	AL	226	PRO	N-CA-C	6.84	126.56	112.47
1	AO	226	PRO	N-CA-C	6.84	126.56	112.47
1	AD	226	PRO	N-CA-C	6.84	126.56	112.47
1	AP	226	PRO	N-CA-C	6.84	126.56	112.47
1	AH	226	PRO	N-CA-C	6.84	126.55	112.47
1	AS	226	PRO	N-CA-C	6.84	126.55	112.47
1	Al	226	PRO	N-CA-C	6.84	126.55	112.47
2	Bv	85	SER	CA-C-N	-6.83	111.50	122.23
2	Bv	85	SER	C-N-CA	-6.83	111.50	122.23
1	AK	226	PRO	N-CA-C	6.83	126.55	112.47
1	AW	226	PRO	N-CA-C	6.83	126.55	112.47
1	Ak	226	PRO	N-CA-C	6.83	126.55	112.47
1	Ac	226	PRO	N-CA-C	6.83	126.54	112.47
1	AE	226	PRO	N-CA-C	6.83	126.54	112.47
1	AJ	226	PRO	N-CA-C	6.83	126.54	112.47
1	AM	226	PRO	N-CA-C	6.83	126.54	112.47
1	A4	226	PRO	N-CA-C	6.83	126.54	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	226	PRO	N-CA-C	6.83	126.54	112.47
1	DJ	226	PRO	N-CA-C	6.83	126.54	112.47
1	A8	226	PRO	N-CA-C	6.83	126.53	112.47
1	DE	226	PRO	N-CA-C	6.83	126.53	112.47
1	AB	226	PRO	N-CA-C	6.82	126.53	112.47
1	AT	226	PRO	N-CA-C	6.82	126.53	112.47
1	AY	226	PRO	N-CA-C	6.82	126.53	112.47
1	Ad	226	PRO	N-CA-C	6.82	126.53	112.47
1	A2	226	PRO	N-CA-C	6.82	126.52	112.47
1	DK	226	PRO	N-CA-C	6.82	126.52	112.47
1	AN	226	PRO	N-CA-C	6.82	126.52	112.47
1	Ah	226	PRO	N-CA-C	6.82	126.51	112.47
1	DF	226	PRO	N-CA-C	6.82	126.51	112.47
1	AU	226	PRO	N-CA-C	6.81	126.50	112.47
1	AG	226	PRO	N-CA-C	6.80	126.47	112.47
1	Ai	226	PRO	N-CA-C	6.80	126.47	112.47
1	An	226	PRO	N-CA-C	6.79	126.46	112.47
3	Ce	64	VAL	N-CA-C	-6.58	98.72	108.85
3	CN	64	VAL	N-CA-C	-6.57	98.73	108.85
3	CF	64	VAL	N-CA-C	-6.57	98.74	108.85
3	CV	64	VAL	N-CA-C	-6.57	98.73	108.85
3	CQ	64	VAL	N-CA-C	-6.57	98.74	108.85
3	Ct	64	VAL	N-CA-C	-6.56	98.74	108.85
3	CZ	64	VAL	N-CA-C	-6.55	98.76	108.85
3	C6	64	VAL	N-CA-C	-6.55	98.76	108.85
3	C4	64	VAL	N-CA-C	-6.55	98.76	108.85
3	CS	64	VAL	N-CA-C	-6.55	98.76	108.85
3	CP	64	VAL	N-CA-C	-6.55	98.77	108.85
3	CJ	64	VAL	N-CA-C	-6.54	98.78	108.85
3	Cq	64	VAL	N-CA-C	-6.54	98.78	108.85
3	CE	64	VAL	N-CA-C	-6.54	98.78	108.85
3	C5	64	VAL	N-CA-C	-6.54	98.78	108.85
3	CA	64	VAL	N-CA-C	-6.54	98.78	108.85
3	C0	64	VAL	N-CA-C	-6.54	98.78	108.85
3	Cc	64	VAL	N-CA-C	-6.54	98.78	108.85
3	CU	64	VAL	N-CA-C	-6.54	98.78	108.85
3	Ck	64	VAL	N-CA-C	-6.53	98.79	108.85
3	Cm	64	VAL	N-CA-C	-6.53	98.79	108.85
3	DA	64	VAL	N-CA-C	-6.53	98.79	108.85
3	C9	64	VAL	N-CA-C	-6.53	98.79	108.85
3	Co	64	VAL	N-CA-C	-6.53	98.79	108.85
3	Cw	64	VAL	N-CA-C	-6.53	98.79	108.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cx	64	VAL	N-CA-C	-6.53	98.80	108.85
3	CK	64	VAL	N-CA-C	-6.53	98.80	108.85
3	CX	64	VAL	N-CA-C	-6.53	98.80	108.85
3	Cn	64	VAL	N-CA-C	-6.53	98.80	108.85
3	DB	64	VAL	N-CA-C	-6.53	98.80	108.85
3	CL	64	VAL	N-CA-C	-6.52	98.80	108.85
3	Cj	64	VAL	N-CA-C	-6.52	98.81	108.85
3	CO	64	VAL	N-CA-C	-6.52	98.81	108.85
3	CM	64	VAL	N-CA-C	-6.52	98.81	108.85
3	Cl	64	VAL	N-CA-C	-6.52	98.81	108.85
3	CR	64	VAL	N-CA-C	-6.52	98.81	108.85
3	Ci	64	VAL	N-CA-C	-6.52	98.81	108.85
3	CC	64	VAL	N-CA-C	-6.52	98.81	108.85
3	CT	64	VAL	N-CA-C	-6.52	98.82	108.85
3	Cv	64	VAL	N-CA-C	-6.52	98.81	108.85
3	CD	64	VAL	N-CA-C	-6.51	98.82	108.85
3	C1	64	VAL	N-CA-C	-6.51	98.82	108.85
3	C3	64	VAL	N-CA-C	-6.51	98.82	108.85
3	C8	64	VAL	N-CA-C	-6.51	98.82	108.85
3	Cu	64	VAL	N-CA-C	-6.51	98.82	108.85
3	CG	64	VAL	N-CA-C	-6.51	98.82	108.85
3	C7	88	THR	N-CA-C	6.51	119.13	110.53
3	Cr	64	VAL	N-CA-C	-6.51	98.82	108.85
3	Cd	64	VAL	N-CA-C	-6.51	98.83	108.85
3	CI	64	VAL	N-CA-C	-6.51	98.83	108.85
3	C2	64	VAL	N-CA-C	-6.51	98.83	108.85
3	C7	64	VAL	N-CA-C	-6.51	98.83	108.85
3	Cf	64	VAL	N-CA-C	-6.51	98.83	108.85
3	Cp	64	VAL	N-CA-C	-6.51	98.83	108.85
3	Cs	64	VAL	N-CA-C	-6.50	98.83	108.85
3	Cg	64	VAL	N-CA-C	-6.50	98.84	108.85
3	CI	88	THR	N-CA-C	6.49	119.10	110.53
3	CB	64	VAL	N-CA-C	-6.49	98.85	108.85
3	CN	88	THR	N-CA-C	6.49	119.10	110.53
3	Cw	88	THR	N-CA-C	6.49	119.09	110.53
3	CH	64	VAL	N-CA-C	-6.49	98.86	108.85
3	CR	135	ARG	N-CA-C	6.49	119.34	111.82
3	CW	64	VAL	N-CA-C	-6.48	98.87	108.85
1	A3	43	LEU	N-CA-C	6.48	118.92	109.07
3	CY	88	THR	N-CA-C	6.48	119.08	110.53
3	CY	64	VAL	N-CA-C	-6.47	98.88	108.85
3	C3	14	PHE	N-CA-C	6.47	119.59	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CF	14	PHE	N-CA-C	6.47	119.58	111.24
3	Cr	88	THR	N-CA-C	6.47	119.07	110.53
3	Cq	135	ARG	N-CA-C	6.47	119.32	111.82
3	CY	14	PHE	N-CA-C	6.47	119.58	111.24
3	Ct	14	PHE	N-CA-C	6.47	119.58	111.24
1	Aj	43	LEU	N-CA-C	6.46	118.89	109.07
3	CL	135	ARG	N-CA-C	6.46	119.32	111.82
3	Cf	14	PHE	N-CA-C	6.46	119.58	111.24
1	DF	43	LEU	N-CA-C	6.46	118.90	109.07
3	Ch	64	VAL	N-CA-C	-6.46	98.90	108.85
1	AX	43	LEU	N-CA-C	6.46	118.89	109.07
1	DI	43	LEU	N-CA-C	6.46	118.89	109.07
3	CH	14	PHE	N-CA-C	6.46	119.57	111.24
3	CM	14	PHE	N-CA-C	6.46	119.57	111.24
3	CM	135	ARG	N-CA-C	6.46	119.31	111.82
3	Cg	135	ARG	N-CA-C	6.46	119.31	111.82
3	CT	88	THR	N-CA-C	6.46	119.05	110.53
3	C0	135	ARG	N-CA-C	6.46	119.31	111.82
1	DG	43	LEU	N-CA-C	6.46	118.88	109.07
3	CX	88	THR	N-CA-C	6.46	119.05	110.53
3	Ci	64	VAL	CB-CA-C	-6.46	100.88	110.82
3	CO	14	PHE	N-CA-C	6.45	119.56	111.24
3	Cx	14	PHE	N-CA-C	6.45	119.56	111.24
3	Cp	14	PHE	N-CA-C	6.45	119.56	111.24
3	CE	14	PHE	N-CA-C	6.45	119.56	111.24
3	CR	64	VAL	CB-CA-C	-6.45	100.89	110.82
3	Cr	135	ARG	N-CA-C	6.45	119.30	111.82
3	C9	14	PHE	N-CA-C	6.45	119.56	111.24
3	Co	88	THR	N-CA-C	6.45	119.04	110.53
3	Cq	64	VAL	CB-CA-C	-6.45	100.89	110.82
1	An	43	LEU	N-CA-C	6.45	118.87	109.07
3	CC	135	ARG	N-CA-C	6.45	119.30	111.82
3	CJ	88	THR	N-CA-C	6.45	119.04	110.53
3	CT	14	PHE	N-CA-C	6.45	119.56	111.24
3	C2	135	ARG	N-CA-C	6.45	119.30	111.82
3	C9	88	THR	N-CA-C	6.45	119.04	110.53
3	Ch	88	THR	N-CA-C	6.45	119.04	110.53
1	DE	43	LEU	N-CA-C	6.45	118.87	109.07
1	AS	43	LEU	N-CA-C	6.45	118.87	109.07
1	Ad	43	LEU	N-CA-C	6.45	118.87	109.07
1	Ao	43	LEU	N-CA-C	6.45	118.87	109.07
3	C1	64	VAL	CB-CA-C	-6.45	100.89	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cc	14	PHE	N-CA-C	6.45	119.55	111.24
3	Cm	14	PHE	N-CA-C	6.45	119.56	111.24
3	Co	64	VAL	CB-CA-C	-6.45	100.89	110.82
3	Cp	64	VAL	CB-CA-C	-6.45	100.89	110.82
3	Cv	135	ARG	N-CA-C	6.45	119.30	111.82
1	AJ	43	LEU	N-CA-C	6.44	118.86	109.07
1	AA	43	LEU	N-CA-C	6.44	118.86	109.07
1	AD	43	LEU	N-CA-C	6.44	118.86	109.07
3	CL	14	PHE	N-CA-C	6.44	119.55	111.24
3	CO	88	THR	N-CA-C	6.44	119.03	110.53
3	CP	14	PHE	N-CA-C	6.44	119.55	111.24
3	CR	88	THR	N-CA-C	6.44	119.03	110.53
3	Cd	14	PHE	N-CA-C	6.44	119.55	111.24
3	Cp	88	THR	N-CA-C	6.44	119.03	110.53
3	Cu	14	PHE	N-CA-C	6.44	119.55	111.24
1	DK	43	LEU	N-CA-C	6.44	118.86	109.07
1	AF	43	LEU	N-CA-C	6.44	118.86	109.07
3	CA	14	PHE	N-CA-C	6.44	119.55	111.24
3	C6	135	ARG	N-CA-C	6.44	119.29	111.82
3	Cs	88	THR	N-CA-C	6.44	119.03	110.53
1	Ai	43	LEU	N-CA-C	6.44	118.86	109.07
3	C6	64	VAL	CB-CA-C	-6.44	100.90	110.82
3	Cj	14	PHE	N-CA-C	6.44	119.55	111.24
1	AE	43	LEU	N-CA-C	6.44	118.86	109.07
3	C2	88	THR	N-CA-C	6.44	119.03	110.53
3	Ct	64	VAL	CB-CA-C	-6.44	100.91	110.82
1	A1	43	LEU	N-CA-C	6.43	118.85	109.07
3	CQ	14	PHE	N-CA-C	6.43	119.54	111.24
3	C8	14	PHE	N-CA-C	6.43	119.54	111.24
3	Cc	88	THR	N-CA-C	6.43	119.02	110.53
3	Cn	14	PHE	N-CA-C	6.43	119.54	111.24
3	C4	64	VAL	CB-CA-C	-6.43	100.91	110.82
3	Cj	64	VAL	CB-CA-C	-6.43	100.91	110.82
3	CU	14	PHE	N-CA-C	6.43	119.54	111.24
3	C0	14	PHE	N-CA-C	6.43	119.54	111.24
3	CG	88	THR	N-CA-C	6.43	119.02	110.53
3	CS	88	THR	N-CA-C	6.43	119.02	110.53
3	C2	14	PHE	N-CA-C	6.43	119.53	111.24
3	Cd	88	THR	N-CA-C	6.43	119.02	110.53
3	Cl	64	VAL	CB-CA-C	-6.43	100.92	110.82
3	Cn	88	THR	N-CA-C	6.43	119.02	110.53
3	Cx	88	THR	N-CA-C	6.43	119.02	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DB	135	ARG	N-CA-C	6.43	119.28	111.82
3	CG	135	ARG	N-CA-C	6.43	119.28	111.82
3	CK	64	VAL	CB-CA-C	-6.43	100.92	110.82
3	CM	64	VAL	CB-CA-C	-6.43	100.92	110.82
3	Cf	64	VAL	CB-CA-C	-6.43	100.92	110.82
3	Cn	64	VAL	CB-CA-C	-6.43	100.92	110.82
1	Ah	43	LEU	N-CA-C	6.43	118.84	109.07
3	CB	64	VAL	CB-CA-C	-6.43	100.92	110.82
3	CQ	64	VAL	CB-CA-C	-6.43	100.92	110.82
3	CV	14	PHE	N-CA-C	6.43	119.53	111.24
3	C7	14	PHE	N-CA-C	6.43	119.53	111.24
3	Cl	135	ARG	N-CA-C	6.43	119.27	111.82
3	Ct	135	ARG	N-CA-C	6.43	119.28	111.82
1	DJ	43	LEU	N-CA-C	6.43	118.84	109.07
1	AT	43	LEU	N-CA-C	6.42	118.83	109.07
3	CB	14	PHE	N-CA-C	6.42	119.53	111.24
3	CE	64	VAL	CB-CA-C	-6.42	100.92	110.82
3	CJ	64	VAL	CB-CA-C	-6.42	100.93	110.82
3	CN	14	PHE	N-CA-C	6.42	119.53	111.24
3	CP	135	ARG	N-CA-C	6.42	119.27	111.82
3	Cd	64	VAL	CB-CA-C	-6.42	100.93	110.82
1	A8	43	LEU	N-CA-C	6.42	118.83	109.07
3	CC	14	PHE	N-CA-C	6.42	119.53	111.24
3	CZ	88	THR	N-CA-C	6.42	119.01	110.53
3	Cv	14	PHE	N-CA-C	6.42	119.53	111.24
1	AG	43	LEU	N-CA-C	6.42	118.83	109.07
3	CA	135	ARG	N-CA-C	6.42	119.27	111.82
3	CB	135	ARG	N-CA-C	6.42	119.27	111.82
3	CC	88	THR	N-CA-C	6.42	119.01	110.53
3	CS	14	PHE	N-CA-C	6.42	119.52	111.24
3	CU	135	ARG	N-CA-C	6.42	119.27	111.82
3	CW	135	ARG	N-CA-C	6.42	119.27	111.82
3	C3	64	VAL	CB-CA-C	-6.42	100.93	110.82
3	Cl	88	THR	N-CA-C	6.42	119.01	110.53
3	Cu	135	ARG	N-CA-C	6.42	119.27	111.82
3	DA	14	PHE	N-CA-C	6.42	119.53	111.24
1	A2	43	LEU	N-CA-C	6.42	118.83	109.07
3	Ck	14	PHE	N-CA-C	6.42	119.52	111.24
3	Cv	88	THR	N-CA-C	6.42	119.00	110.53
1	Ag	43	LEU	N-CA-C	6.42	118.83	109.07
3	CD	88	THR	N-CA-C	6.42	119.00	110.53
3	CI	135	ARG	N-CA-C	6.42	119.27	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CU	64	VAL	CB-CA-C	-6.42	100.94	110.82
3	C5	14	PHE	N-CA-C	6.42	119.52	111.24
3	Cf	88	THR	N-CA-C	6.42	119.00	110.53
1	DD	43	LEU	N-CA-C	6.42	118.83	109.07
1	AB	43	LEU	N-CA-C	6.42	118.82	109.07
1	AY	43	LEU	N-CA-C	6.42	118.82	109.07
1	Al	43	LEU	N-CA-C	6.42	118.82	109.07
3	CA	64	VAL	CB-CA-C	-6.42	100.94	110.82
3	CL	88	THR	N-CA-C	6.42	119.00	110.53
3	Ce	88	THR	N-CA-C	6.42	119.00	110.53
3	Cf	135	ARG	N-CA-C	6.42	119.26	111.82
3	Cg	14	PHE	N-CA-C	6.42	119.52	111.24
3	Ck	88	THR	N-CA-C	6.42	119.00	110.53
3	DA	135	ARG	N-CA-C	6.42	119.26	111.82
3	CR	14	PHE	N-CA-C	6.42	119.52	111.24
3	C1	135	ARG	N-CA-C	6.42	119.26	111.82
3	Cs	14	PHE	N-CA-C	6.42	119.52	111.24
1	AN	43	LEU	N-CA-C	6.41	118.82	109.07
3	CW	88	THR	N-CA-C	6.41	119.00	110.53
3	CY	64	VAL	CB-CA-C	-6.41	100.94	110.82
3	C3	88	THR	N-CA-C	6.41	119.00	110.53
3	C4	14	PHE	N-CA-C	6.41	119.51	111.24
3	Cr	14	PHE	N-CA-C	6.41	119.51	111.24
3	Cu	88	THR	N-CA-C	6.41	119.00	110.53
3	Cx	135	ARG	N-CA-C	6.41	119.26	111.82
3	DA	64	VAL	CB-CA-C	-6.41	100.94	110.82
3	CD	14	PHE	N-CA-C	6.41	119.51	111.24
3	CP	88	THR	N-CA-C	6.41	118.99	110.53
3	CT	135	ARG	N-CA-C	6.41	119.26	111.82
3	C1	88	THR	N-CA-C	6.41	118.99	110.53
3	DB	14	PHE	N-CA-C	6.41	119.51	111.24
1	A6	43	LEU	N-CA-C	6.41	118.81	109.07
3	CB	88	THR	N-CA-C	6.41	118.99	110.53
3	CH	64	VAL	CB-CA-C	-6.41	100.95	110.82
3	CH	135	ARG	N-CA-C	6.41	119.26	111.82
3	CU	88	THR	N-CA-C	6.41	118.99	110.53
3	CZ	14	PHE	N-CA-C	6.41	119.51	111.24
3	C9	135	ARG	N-CA-C	6.41	119.25	111.82
3	Ce	64	VAL	CB-CA-C	-6.41	100.95	110.82
1	A7	43	LEU	N-CA-C	6.41	118.81	109.07
2	BI	65	LYS	N-CA-C	-6.41	98.28	108.73
3	CJ	14	PHE	N-CA-C	6.41	119.51	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CK	14	PHE	N-CA-C	6.41	119.51	111.24
3	CK	88	THR	N-CA-C	6.41	118.99	110.53
3	C6	88	THR	N-CA-C	6.41	118.99	110.53
3	Cj	88	THR	N-CA-C	6.41	118.99	110.53
3	Cm	88	THR	N-CA-C	6.41	118.99	110.53
3	C8	64	VAL	CB-CA-C	-6.41	100.95	110.82
3	Cl	14	PHE	N-CA-C	6.41	119.50	111.24
3	Cv	64	VAL	CB-CA-C	-6.41	100.95	110.82
3	Cw	14	PHE	N-CA-C	6.41	119.50	111.24
3	Cw	64	VAL	CB-CA-C	-6.41	100.95	110.82
1	Ac	43	LEU	N-CA-C	6.41	118.81	109.07
3	CI	14	PHE	N-CA-C	6.41	119.50	111.24
3	CL	64	VAL	CB-CA-C	-6.41	100.96	110.82
3	CM	88	THR	N-CA-C	6.41	118.98	110.53
3	C6	14	PHE	N-CA-C	6.41	119.50	111.24
3	Ci	14	PHE	N-CA-C	6.41	119.50	111.24
3	Cq	88	THR	N-CA-C	6.41	118.98	110.53
1	AP	43	LEU	N-CA-C	6.40	118.80	109.07
1	Ab	43	LEU	N-CA-C	6.40	118.80	109.07
3	Co	14	PHE	N-CA-C	6.40	119.50	111.24
1	A5	43	LEU	N-CA-C	6.40	118.80	109.07
2	Bm	65	LYS	N-CA-C	-6.40	98.29	108.73
3	CF	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	CO	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	CV	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	Cd	135	ARG	N-CA-C	6.40	119.25	111.82
3	Cg	88	THR	N-CA-C	6.40	118.98	110.53
3	Cs	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	Cs	135	ARG	N-CA-C	6.40	119.25	111.82
1	AH	43	LEU	N-CA-C	6.40	118.80	109.07
1	AO	43	LEU	N-CA-C	6.40	118.80	109.07
1	A0	43	LEU	N-CA-C	6.40	118.80	109.07
3	CA	88	THR	N-CA-C	6.40	118.98	110.53
3	CZ	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	C2	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	Cg	64	VAL	CB-CA-C	-6.40	100.96	110.82
3	Cp	135	ARG	N-CA-C	6.40	119.25	111.82
3	DA	88	THR	N-CA-C	6.40	118.98	110.53
2	BR	65	LYS	N-CA-C	-6.40	98.30	108.73
2	B4	65	LYS	N-CA-C	-6.40	98.30	108.73
3	CE	88	THR	N-CA-C	6.40	118.98	110.53
3	C0	64	VAL	CB-CA-C	-6.40	100.97	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cc	64	VAL	CB-CA-C	-6.40	100.97	110.82
3	Ch	135	ARG	N-CA-C	6.40	119.24	111.82
1	AR	43	LEU	N-CA-C	6.40	118.80	109.07
3	C9	64	VAL	CB-CA-C	-6.40	100.97	110.82
1	AQ	43	LEU	N-CA-C	6.40	118.79	109.07
2	BQ	65	LYS	N-CA-C	-6.40	98.30	108.73
2	Bg	65	LYS	N-CA-C	-6.40	98.31	108.73
3	CG	64	VAL	CB-CA-C	-6.40	100.97	110.82
3	C5	88	THR	N-CA-C	6.40	118.97	110.53
2	BV	65	LYS	N-CA-C	-6.39	98.31	108.73
3	CC	64	VAL	CB-CA-C	-6.39	100.97	110.82
3	CF	88	THR	N-CA-C	6.39	118.97	110.53
3	CQ	88	THR	N-CA-C	6.39	118.97	110.53
3	CT	64	VAL	CB-CA-C	-6.39	100.97	110.82
3	Ch	64	VAL	CB-CA-C	-6.39	100.97	110.82
3	Cq	14	PHE	N-CA-C	6.39	119.49	111.24
2	Bc	65	LYS	N-CA-C	-6.39	98.31	108.73
2	Bq	65	LYS	N-CA-C	-6.39	98.31	108.73
2	Bx	65	LYS	N-CA-C	-6.39	98.31	108.73
3	CG	14	PHE	N-CA-C	6.39	119.49	111.24
3	CP	64	VAL	CB-CA-C	-6.39	100.97	110.82
2	BZ	65	LYS	N-CA-C	-6.39	98.32	108.73
2	B6	65	LYS	N-CA-C	-6.39	98.31	108.73
3	C4	88	THR	N-CA-C	6.39	118.96	110.53
3	Cm	135	ARG	N-CA-C	6.39	119.23	111.82
2	Bk	65	LYS	N-CA-C	-6.39	98.32	108.73
3	CW	14	PHE	N-CA-C	6.39	119.48	111.24
3	CY	135	ARG	N-CA-C	6.39	119.23	111.82
3	C5	135	ARG	N-CA-C	6.39	119.23	111.82
3	Ct	88	THR	N-CA-C	6.39	118.96	110.53
3	DB	64	VAL	CB-CA-C	-6.39	100.98	110.82
1	AI	43	LEU	N-CA-C	6.38	118.77	109.07
1	AU	43	LEU	N-CA-C	6.38	118.77	109.07
3	CF	135	ARG	N-CA-C	6.38	119.23	111.82
3	Cj	135	ARG	N-CA-C	6.38	119.22	111.82
3	Co	135	ARG	N-CA-C	6.38	119.23	111.82
3	Cu	64	VAL	CB-CA-C	-6.38	100.99	110.82
3	Cx	64	VAL	CB-CA-C	-6.38	100.99	110.82
1	AK	43	LEU	N-CA-C	6.38	118.77	109.07
3	Ch	14	PHE	N-CA-C	6.38	119.47	111.24
3	Ck	135	ARG	N-CA-C	6.38	119.22	111.82
2	BX	65	LYS	N-CA-C	-6.38	98.33	108.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CX	14	PHE	N-CA-C	6.38	119.47	111.24
3	C1	14	PHE	N-CA-C	6.38	119.47	111.24
3	C7	135	ARG	N-CA-C	6.38	119.22	111.82
3	Cc	135	ARG	N-CA-C	6.38	119.22	111.82
3	Ck	64	VAL	CB-CA-C	-6.38	100.99	110.82
1	DC	43	LEU	N-CA-C	6.38	118.77	109.07
3	Ci	88	THR	N-CA-C	6.38	118.95	110.53
3	Cr	64	VAL	CB-CA-C	-6.38	101.00	110.82
3	DB	88	THR	N-CA-C	6.38	118.95	110.53
1	Am	43	LEU	N-CA-C	6.38	118.77	109.07
2	BT	65	LYS	N-CA-C	-6.38	98.33	108.73
2	B2	65	LYS	N-CA-C	-6.38	98.33	108.73
2	Bl	65	LYS	N-CA-C	-6.38	98.33	108.73
2	Br	65	LYS	N-CA-C	-6.38	98.33	108.73
3	C5	64	VAL	CB-CA-C	-6.38	101.00	110.82
3	Cm	64	VAL	CB-CA-C	-6.38	101.00	110.82
1	Ak	43	LEU	N-CA-C	6.38	118.76	109.07
3	CD	135	ARG	N-CA-C	6.38	119.22	111.82
3	CK	135	ARG	N-CA-C	6.38	119.22	111.82
3	CV	88	THR	N-CA-C	6.38	118.95	110.53
3	CW	64	VAL	CB-CA-C	-6.38	101.00	110.82
3	CZ	135	ARG	N-CA-C	6.38	119.22	111.82
3	Ci	135	ARG	N-CA-C	6.38	119.22	111.82
1	AW	43	LEU	N-CA-C	6.38	118.76	109.07
2	B1	65	LYS	N-CA-C	-6.38	98.34	108.73
3	CS	64	VAL	CB-CA-C	-6.38	101.00	110.82
1	AC	43	LEU	N-CA-C	6.37	118.76	109.07
2	Bu	65	LYS	N-CA-C	-6.37	98.34	108.73
3	CD	64	VAL	CB-CA-C	-6.37	101.00	110.82
3	CS	135	ARG	N-CA-C	6.37	119.21	111.82
3	CX	64	VAL	CB-CA-C	-6.37	101.01	110.82
3	C0	88	THR	N-CA-C	6.37	118.94	110.53
3	Ce	14	PHE	N-CA-C	6.37	119.46	111.24
3	Ce	135	ARG	N-CA-C	6.37	119.21	111.82
1	AV	43	LEU	N-CA-C	6.37	118.75	109.07
2	BK	65	LYS	N-CA-C	-6.37	98.34	108.73
3	C7	64	VAL	CB-CA-C	-6.37	101.01	110.82
1	A4	43	LEU	N-CA-C	6.37	118.75	109.07
1	Af	43	LEU	N-CA-C	6.37	118.75	109.07
2	BG	65	LYS	N-CA-C	-6.37	98.35	108.73
2	Bv	65	LYS	N-CA-C	-6.37	98.35	108.73
1	AM	43	LEU	N-CA-C	6.37	118.75	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BO	65	LYS	N-CA-C	-6.37	98.35	108.73
3	C8	135	ARG	N-CA-C	6.37	119.21	111.82
3	Cn	135	ARG	N-CA-C	6.37	119.21	111.82
3	CQ	135	ARG	N-CA-C	6.37	119.21	111.82
1	AZ	43	LEU	N-CA-C	6.37	118.75	109.07
1	Aa	43	LEU	N-CA-C	6.37	118.75	109.07
2	BN	65	LYS	N-CA-C	-6.37	98.35	108.73
3	CX	135	ARG	N-CA-C	6.37	119.20	111.82
2	BD	65	LYS	N-CA-C	-6.36	98.36	108.73
2	B7	65	LYS	N-CA-C	-6.36	98.36	108.73
2	Bo	65	LYS	N-CA-C	-6.36	98.36	108.73
3	CN	135	ARG	N-CA-C	6.36	119.20	111.82
3	C3	135	ARG	N-CA-C	6.36	119.20	111.82
1	A9	43	LEU	N-CA-C	6.36	118.74	109.07
2	BW	65	LYS	N-CA-C	-6.36	98.36	108.73
2	Be	65	LYS	N-CA-C	-6.36	98.36	108.73
2	Bn	65	LYS	N-CA-C	-6.36	98.36	108.73
2	BE	65	LYS	N-CA-C	-6.36	98.36	108.73
2	Bi	65	LYS	N-CA-C	-6.36	98.36	108.73
3	CH	88	THR	N-CA-C	6.36	118.92	110.53
3	C8	88	THR	N-CA-C	6.36	118.92	110.53
1	Ae	43	LEU	N-CA-C	6.36	118.73	109.07
2	BF	65	LYS	N-CA-C	-6.36	98.37	108.73
2	Bb	65	LYS	N-CA-C	-6.36	98.37	108.73
2	Bh	65	LYS	N-CA-C	-6.36	98.37	108.73
2	BA	65	LYS	N-CA-C	-6.36	98.37	108.73
3	CE	135	ARG	N-CA-C	6.36	119.19	111.82
2	BJ	65	LYS	N-CA-C	-6.35	98.37	108.73
2	Bd	65	LYS	N-CA-C	-6.35	98.37	108.73
1	AL	43	LEU	N-CA-C	6.35	118.73	109.07
2	BC	65	LYS	N-CA-C	-6.35	98.38	108.73
2	B9	65	LYS	N-CA-C	-6.35	98.38	108.73
3	CV	135	ARG	N-CA-C	6.35	119.19	111.82
3	CI	64	VAL	CB-CA-C	-6.35	101.04	110.82
3	C4	135	ARG	N-CA-C	6.35	119.19	111.82
2	BB	65	LYS	N-CA-C	-6.35	98.38	108.73
2	BH	65	LYS	N-CA-C	-6.35	98.38	108.73
2	BP	65	LYS	N-CA-C	-6.35	98.38	108.73
2	Bf	65	LYS	N-CA-C	-6.35	98.38	108.73
2	B5	65	LYS	N-CA-C	-6.35	98.38	108.73
3	CN	64	VAL	CB-CA-C	-6.35	101.05	110.82
2	B0	65	LYS	N-CA-C	-6.35	98.39	108.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BU	65	LYS	N-CA-C	-6.34	98.39	108.73
2	Bj	65	LYS	N-CA-C	-6.34	98.39	108.73
2	Bw	65	LYS	N-CA-C	-6.34	98.39	108.73
3	CO	135	ARG	N-CA-C	6.34	119.18	111.82
2	Bs	65	LYS	N-CA-C	-6.34	98.39	108.73
2	BM	65	LYS	N-CA-C	-6.34	98.39	108.73
3	Cw	135	ARG	N-CA-C	6.34	119.18	111.82
1	DH	43	LEU	N-CA-C	6.34	118.71	109.07
1	A3	158	VAL	N-CA-CB	-6.34	104.86	111.64
3	Ct	36	VAL	N-CA-C	6.34	122.57	108.88
2	Bp	65	LYS	N-CA-C	-6.34	98.40	108.73
2	BS	65	LYS	N-CA-C	-6.33	98.40	108.73
3	CJ	135	ARG	N-CA-C	6.33	119.17	111.82
2	BY	65	LYS	N-CA-C	-6.33	98.41	108.73
2	B8	65	LYS	N-CA-C	-6.33	98.41	108.73
2	Ba	65	LYS	N-CA-C	-6.33	98.41	108.73
3	CF	36	VAL	N-CA-C	6.33	122.55	108.88
2	BL	65	LYS	N-CA-C	-6.33	98.42	108.73
3	Cj	36	VAL	N-CA-C	6.32	122.54	108.88
3	Cr	36	VAL	N-CA-C	6.32	122.54	108.88
3	CK	36	VAL	N-CA-C	6.32	122.54	108.88
3	C1	36	VAL	N-CA-C	6.32	122.53	108.88
3	CA	36	VAL	N-CA-C	6.32	122.53	108.88
3	CR	36	VAL	N-CA-C	6.32	122.53	108.88
3	Co	36	VAL	N-CA-C	6.32	122.53	108.88
2	BD	206	GLY	N-CA-C	6.32	121.67	113.27
2	BN	206	GLY	N-CA-C	6.32	121.67	113.27
3	C5	36	VAL	N-CA-C	6.32	122.52	108.88
1	AQ	158	VAL	N-CA-CB	-6.32	104.88	111.64
3	CD	36	VAL	N-CA-C	6.32	122.52	108.88
3	CZ	36	VAL	N-CA-C	6.32	122.52	108.88
3	C2	36	VAL	N-CA-C	6.32	122.52	108.88
3	C6	36	VAL	N-CA-C	6.32	122.52	108.88
3	DA	36	VAL	N-CA-C	6.32	122.52	108.88
3	CH	36	VAL	N-CA-C	6.31	122.52	108.88
3	CM	36	VAL	N-CA-C	6.31	122.52	108.88
2	BI	206	GLY	N-CA-C	6.31	121.66	113.27
3	CN	36	VAL	N-CA-C	6.31	122.51	108.88
3	Cd	36	VAL	N-CA-C	6.31	122.52	108.88
3	Cw	36	VAL	N-CA-C	6.31	122.51	108.88
2	B3	65	LYS	N-CA-C	-6.31	98.44	108.73
3	CB	36	VAL	N-CA-C	6.31	122.51	108.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ch	36	VAL	N-CA-C	6.31	122.51	108.88
3	Cq	36	VAL	N-CA-C	6.31	122.51	108.88
2	Bt	65	LYS	N-CA-C	-6.31	98.45	108.73
3	CS	36	VAL	N-CA-C	6.31	122.51	108.88
3	C9	36	VAL	N-CA-C	6.31	122.51	108.88
3	CX	36	VAL	N-CA-C	6.31	122.50	108.88
1	Ai	158	VAL	N-CA-CB	-6.31	104.89	111.64
2	Bb	206	GLY	N-CA-C	6.31	121.66	113.27
3	DB	36	VAL	N-CA-C	6.31	122.50	108.88
3	CL	36	VAL	N-CA-C	6.30	122.50	108.88
3	CU	36	VAL	N-CA-C	6.30	122.49	108.88
3	CT	36	VAL	N-CA-C	6.30	122.49	108.88
3	Cv	36	VAL	N-CA-C	6.30	122.49	108.88
2	B5	206	GLY	N-CA-C	6.30	121.65	113.27
3	Cl	36	VAL	N-CA-C	6.30	122.49	108.88
2	BU	206	GLY	N-CA-C	6.30	121.64	113.27
3	CY	36	VAL	N-CA-C	6.30	122.48	108.88
3	C0	36	VAL	N-CA-C	6.30	122.48	108.88
3	C4	36	VAL	N-CA-C	6.30	122.48	108.88
1	DJ	158	VAL	N-CA-CB	-6.29	104.90	111.64
3	CC	36	VAL	N-CA-C	6.29	122.47	108.88
3	CI	36	VAL	N-CA-C	6.29	122.47	108.88
3	CW	36	VAL	N-CA-C	6.29	122.47	108.88
3	C7	36	VAL	N-CA-C	6.29	122.48	108.88
3	Cg	36	VAL	N-CA-C	6.29	122.47	108.88
3	Cm	36	VAL	N-CA-C	6.29	122.47	108.88
1	Ac	71	LEU	N-CA-C	-6.29	97.40	110.80
2	Bd	206	GLY	N-CA-C	6.29	121.64	113.27
2	Bv	206	GLY	N-CA-C	6.29	121.64	113.27
3	Cc	36	VAL	N-CA-C	6.29	122.47	108.88
3	Ce	36	VAL	N-CA-C	6.29	122.47	108.88
3	Cf	36	VAL	N-CA-C	6.29	122.47	108.88
3	Ck	36	VAL	N-CA-C	6.29	122.47	108.88
3	CP	36	VAL	N-CA-C	6.29	122.47	108.88
2	BH	206	GLY	N-CA-C	6.29	121.63	113.27
2	Bq	206	GLY	N-CA-C	6.29	121.63	113.27
3	CG	36	VAL	N-CA-C	6.29	122.46	108.88
3	CV	36	VAL	N-CA-C	6.29	122.46	108.88
2	BK	206	GLY	N-CA-C	6.29	121.63	113.27
3	Cn	36	VAL	N-CA-C	6.29	122.46	108.88
3	Cp	36	VAL	N-CA-C	6.29	122.46	108.88
3	Cs	36	VAL	N-CA-C	6.29	122.46	108.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bn	206	GLY	N-CA-C	6.28	121.63	113.27
3	C8	36	VAL	N-CA-C	6.28	122.45	108.88
1	Aj	158	VAL	N-CA-CB	-6.28	104.92	111.64
3	C3	36	VAL	N-CA-C	6.28	122.45	108.88
3	Cu	36	VAL	N-CA-C	6.28	122.45	108.88
3	Ci	36	VAL	N-CA-C	6.28	122.44	108.88
1	A7	71	LEU	N-CA-C	-6.28	97.44	110.80
2	BO	206	GLY	N-CA-C	6.28	121.61	113.27
3	CE	36	VAL	N-CA-C	6.28	122.43	108.88
1	A8	158	VAL	N-CA-CB	-6.27	104.93	111.64
2	BQ	206	GLY	N-CA-C	6.27	121.61	113.27
3	Cx	36	VAL	N-CA-C	6.27	122.43	108.88
3	CJ	36	VAL	N-CA-C	6.27	122.43	108.88
1	A4	158	VAL	N-CA-CB	-6.27	104.93	111.64
2	BW	206	GLY	N-CA-C	6.27	121.61	113.27
2	Bk	206	GLY	N-CA-C	6.27	121.61	113.27
1	DH	158	VAL	N-CA-CB	-6.27	104.93	111.64
1	DK	158	VAL	N-CA-CB	-6.27	104.93	111.64
2	Bj	206	GLY	N-CA-C	6.27	121.60	113.27
1	AO	71	LEU	N-CA-C	-6.26	97.46	110.80
3	CQ	36	VAL	N-CA-C	6.26	122.41	108.88
2	Bf	206	GLY	N-CA-C	6.26	121.60	113.27
1	AX	71	LEU	N-CA-C	-6.26	97.47	110.80
2	BC	206	GLY	N-CA-C	6.26	121.59	113.27
2	Bi	206	GLY	N-CA-C	6.26	121.59	113.27
1	AD	158	VAL	N-CA-CB	-6.26	104.94	111.64
1	An	158	VAL	N-CA-CB	-6.26	104.94	111.64
1	Ah	71	LEU	N-CA-C	-6.26	97.48	110.80
1	Ai	71	LEU	N-CA-C	-6.26	97.47	110.80
1	Ao	158	VAL	N-CA-CB	-6.26	104.95	111.64
2	Ba	206	GLY	N-CA-C	6.26	121.59	113.27
1	AT	158	VAL	N-CA-CB	-6.25	104.95	111.64
1	A9	158	VAL	N-CA-CB	-6.25	104.95	111.64
1	Ad	158	VAL	N-CA-CB	-6.25	104.95	111.64
1	Al	158	VAL	N-CA-CB	-6.25	104.95	111.64
2	BM	206	GLY	N-CA-C	6.25	121.59	113.27
1	AF	71	LEU	N-CA-C	-6.25	97.48	110.80
1	AK	71	LEU	N-CA-C	-6.25	97.48	110.80
1	AS	71	LEU	N-CA-C	-6.25	97.48	110.80
1	Ac	158	VAL	N-CA-CB	-6.25	104.95	111.64
2	BF	206	GLY	N-CA-C	6.25	121.59	113.27
2	B8	206	GLY	N-CA-C	6.25	121.59	113.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bo	206	GLY	N-CA-C	6.25	121.58	113.27
3	CO	36	VAL	N-CA-C	6.25	122.38	108.88
1	AE	71	LEU	N-CA-C	-6.25	97.49	110.80
1	AL	158	VAL	N-CA-CB	-6.25	104.95	111.64
1	AY	158	VAL	N-CA-CB	-6.25	104.95	111.64
1	AJ	158	VAL	N-CA-CB	-6.25	104.96	111.64
1	A7	158	VAL	N-CA-CB	-6.25	104.96	111.64
2	Bm	206	GLY	N-CA-C	6.25	121.58	113.27
1	Aa	158	VAL	N-CA-CB	-6.25	104.96	111.64
2	BP	206	GLY	N-CA-C	6.25	121.58	113.27
1	AO	158	VAL	N-CA-CB	-6.24	104.96	111.64
1	AX	158	VAL	N-CA-CB	-6.24	104.96	111.64
2	BA	206	GLY	N-CA-C	6.24	121.57	113.27
2	BV	206	GLY	N-CA-C	6.24	121.58	113.27
2	Bg	206	GLY	N-CA-C	6.24	121.57	113.27
2	Bs	206	GLY	N-CA-C	6.24	121.58	113.27
1	DK	71	LEU	N-CA-C	-6.24	97.50	110.80
1	AV	158	VAL	N-CA-CB	-6.24	104.96	111.64
1	A2	71	LEU	N-CA-C	-6.24	97.50	110.80
1	Ae	71	LEU	N-CA-C	-6.24	97.50	110.80
2	BB	206	GLY	N-CA-C	6.24	121.57	113.27
2	Bh	206	GLY	N-CA-C	6.24	121.57	113.27
2	Bp	206	GLY	N-CA-C	6.24	121.57	113.27
3	Cd	112	GLY	N-CA-C	-6.24	104.55	112.54
1	DD	71	LEU	N-CA-C	-6.24	97.50	110.80
1	AQ	71	LEU	N-CA-C	-6.24	97.51	110.80
1	AU	71	LEU	N-CA-C	-6.24	97.51	110.80
1	AY	71	LEU	N-CA-C	-6.24	97.51	110.80
1	DE	71	LEU	N-CA-C	-6.24	97.51	110.80
1	DI	158	VAL	N-CA-CB	-6.24	104.96	111.64
1	AA	71	LEU	N-CA-C	-6.24	97.51	110.80
1	AA	158	VAL	N-CA-CB	-6.24	104.97	111.64
1	Ad	71	LEU	N-CA-C	-6.24	97.51	110.80
1	An	71	LEU	N-CA-C	-6.24	97.51	110.80
2	B6	206	GLY	N-CA-C	6.24	121.57	113.27
1	AF	158	VAL	N-CA-CB	-6.24	104.97	111.64
1	AN	158	VAL	N-CA-CB	-6.24	104.97	111.64
1	AZ	158	VAL	N-CA-CB	-6.24	104.97	111.64
1	Aj	71	LEU	N-CA-C	-6.24	97.52	110.80
1	Am	71	LEU	N-CA-C	-6.24	97.51	110.80
1	AU	158	VAL	N-CA-CB	-6.24	104.97	111.64
1	A3	71	LEU	N-CA-C	-6.24	97.52	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A5	158	VAL	N-CA-CB	-6.24	104.97	111.64
1	DF	71	LEU	N-CA-C	-6.24	97.52	110.80
1	AZ	71	LEU	N-CA-C	-6.23	97.52	110.80
2	BL	206	GLY	N-CA-C	6.23	121.56	113.27
2	B3	206	GLY	N-CA-C	6.23	121.56	113.27
1	DC	158	VAL	N-CA-CB	-6.23	104.97	111.64
1	AM	158	VAL	N-CA-CB	-6.23	104.97	111.64
1	A0	158	VAL	N-CA-CB	-6.23	104.97	111.64
1	Ab	71	LEU	N-CA-C	-6.23	97.53	110.80
1	Ah	158	VAL	N-CA-CB	-6.23	104.97	111.64
1	Am	158	VAL	N-CA-CB	-6.23	104.97	111.64
2	BX	206	GLY	N-CA-C	6.23	121.56	113.27
3	C6	112	GLY	N-CA-C	-6.23	104.56	112.54
1	AJ	71	LEU	N-CA-C	-6.23	97.53	110.80
2	B2	206	GLY	N-CA-C	6.23	121.55	113.27
1	DE	158	VAL	N-CA-CB	-6.23	104.97	111.64
1	AC	158	VAL	N-CA-CB	-6.23	104.98	111.64
1	AE	158	VAL	N-CA-CB	-6.23	104.98	111.64
1	AH	158	VAL	N-CA-CB	-6.23	104.98	111.64
1	Aa	71	LEU	N-CA-C	-6.23	97.54	110.80
2	BR	206	GLY	N-CA-C	6.23	121.55	113.27
2	B0	206	GLY	N-CA-C	6.23	121.55	113.27
2	B1	206	GLY	N-CA-C	6.23	121.55	113.27
1	DH	71	LEU	N-CA-C	-6.23	97.53	110.80
1	AN	71	LEU	N-CA-C	-6.23	97.54	110.80
2	BE	206	GLY	N-CA-C	6.23	121.55	113.27
1	DC	71	LEU	N-CA-C	-6.23	97.54	110.80
1	AB	71	LEU	N-CA-C	-6.22	97.54	110.80
1	AG	71	LEU	N-CA-C	-6.22	97.54	110.80
2	B1	206	GLY	N-CA-C	6.22	121.55	113.27
1	DC	199	SER	N-CA-C	6.22	117.98	108.52
1	DF	158	VAL	N-CA-CB	-6.22	104.98	111.64
1	DG	71	LEU	N-CA-C	-6.22	97.54	110.80
1	AH	71	LEU	N-CA-C	-6.22	97.55	110.80
1	AI	71	LEU	N-CA-C	-6.22	97.55	110.80
1	AV	71	LEU	N-CA-C	-6.22	97.55	110.80
1	A8	71	LEU	N-CA-C	-6.22	97.55	110.80
1	A9	71	LEU	N-CA-C	-6.22	97.55	110.80
3	C5	112	GLY	N-CA-C	-6.22	104.58	112.54
2	BG	206	GLY	N-CA-C	6.22	121.54	113.27
2	BT	206	GLY	N-CA-C	6.22	121.54	113.27
1	AI	158	VAL	N-CA-CB	-6.22	104.98	111.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AM	71	LEU	N-CA-C	-6.22	97.55	110.80
1	Af	158	VAL	N-CA-CB	-6.22	104.98	111.64
1	Al	71	LEU	N-CA-C	-6.22	97.55	110.80
3	C7	112	GLY	N-CA-C	-6.22	104.58	112.54
3	Cm	112	GLY	N-CA-C	-6.22	104.58	112.54
1	A6	158	VAL	N-CA-CB	-6.22	104.99	111.64
2	Bw	206	GLY	N-CA-C	6.22	121.54	113.27
1	DJ	71	LEU	N-CA-C	-6.22	97.56	110.80
1	AK	158	VAL	N-CA-CB	-6.22	104.99	111.64
1	AW	158	VAL	N-CA-CB	-6.22	104.99	111.64
1	A1	71	LEU	N-CA-C	-6.22	97.56	110.80
1	Ao	71	LEU	N-CA-C	-6.22	97.56	110.80
2	BZ	206	GLY	N-CA-C	6.22	121.54	113.27
1	AR	71	LEU	N-CA-C	-6.21	97.56	110.80
1	AT	71	LEU	N-CA-C	-6.21	97.56	110.80
2	B4	206	GLY	N-CA-C	6.21	121.53	113.27
2	Bt	206	GLY	N-CA-C	6.21	121.53	113.27
1	AC	71	LEU	N-CA-C	-6.21	97.57	110.80
2	Br	206	GLY	N-CA-C	6.21	121.53	113.27
1	A6	71	LEU	N-CA-C	-6.21	97.57	110.80
1	Ak	158	VAL	N-CA-CB	-6.21	104.99	111.64
3	Cn	112	GLY	N-CA-C	-6.21	104.59	112.54
1	DD	158	VAL	N-CA-CB	-6.21	105.00	111.64
1	AB	158	VAL	N-CA-CB	-6.21	105.00	111.64
1	A4	71	LEU	N-CA-C	-6.21	97.58	110.80
2	B7	206	GLY	N-CA-C	6.21	121.53	113.27
3	CD	112	GLY	N-CA-C	-6.21	104.59	112.54
3	CQ	112	GLY	N-CA-C	-6.21	104.59	112.54
1	AD	71	LEU	N-CA-C	-6.21	97.58	110.80
1	A2	158	VAL	N-CA-CB	-6.21	105.00	111.64
1	Ag	71	LEU	N-CA-C	-6.21	97.58	110.80
1	Ak	71	LEU	N-CA-C	-6.21	97.58	110.80
1	A5	71	LEU	N-CA-C	-6.20	97.59	110.80
3	CR	112	GLY	N-CA-C	-6.20	104.60	112.54
1	DG	158	VAL	N-CA-CB	-6.20	105.00	111.64
1	AS	158	VAL	N-CA-CB	-6.20	105.00	111.64
1	AH	199	SER	N-CA-C	6.20	117.94	108.52
1	AP	71	LEU	N-CA-C	-6.20	97.59	110.80
1	Af	71	LEU	N-CA-C	-6.20	97.59	110.80
2	BJ	206	GLY	N-CA-C	6.20	121.52	113.27
3	CX	112	GLY	N-CA-C	-6.20	104.60	112.54
3	Cw	112	GLY	N-CA-C	-6.20	104.60	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CY	112	GLY	N-CA-C	-6.20	104.61	112.54
3	Cq	112	GLY	N-CA-C	-6.20	104.61	112.54
3	Cx	112	GLY	N-CA-C	-6.20	104.61	112.54
1	AW	71	LEU	N-CA-C	-6.20	97.60	110.80
3	Ck	112	GLY	N-CA-C	-6.20	104.61	112.54
1	AJ	199	SER	N-CA-C	6.20	117.94	108.52
1	AR	158	VAL	N-CA-CB	-6.20	105.01	111.64
2	BY	206	GLY	N-CA-C	6.20	121.51	113.27
3	Cg	174	ALA	N-CA-C	6.20	119.81	110.64
3	Co	112	GLY	N-CA-C	-6.20	104.61	112.54
3	Cv	112	GLY	N-CA-C	-6.20	104.61	112.54
1	AL	71	LEU	N-CA-C	-6.19	97.61	110.80
1	Aa	199	SER	N-CA-C	6.19	117.94	108.52
2	Bc	206	GLY	N-CA-C	6.19	121.51	113.27
3	DB	112	GLY	N-CA-C	-6.19	104.61	112.54
1	AP	158	VAL	N-CA-CB	-6.19	105.01	111.64
2	Bu	206	GLY	N-CA-C	6.19	121.50	113.27
3	CE	112	GLY	N-CA-C	-6.19	104.61	112.54
3	CZ	174	ALA	N-CA-C	6.19	119.80	110.64
3	Cs	112	GLY	N-CA-C	-6.19	104.61	112.54
1	Ak	199	SER	N-CA-C	6.19	117.93	108.52
3	CZ	112	GLY	N-CA-C	-6.19	104.62	112.54
3	Cc	112	GLY	N-CA-C	-6.19	104.62	112.54
1	A0	71	LEU	N-CA-C	-6.19	97.62	110.80
1	Ab	158	VAL	N-CA-CB	-6.19	105.02	111.64
3	CU	112	GLY	N-CA-C	-6.19	104.62	112.54
3	C0	112	GLY	N-CA-C	-6.19	104.62	112.54
3	C3	112	GLY	N-CA-C	-6.19	104.62	112.54
1	AC	199	SER	N-CA-C	6.19	117.92	108.52
2	Be	206	GLY	N-CA-C	6.19	121.50	113.27
1	A8	199	SER	N-CA-C	6.18	117.92	108.52
2	BS	206	GLY	N-CA-C	6.18	121.50	113.27
3	C8	112	GLY	N-CA-C	-6.18	104.62	112.54
1	A0	199	SER	N-CA-C	6.18	117.92	108.52
1	A2	199	SER	N-CA-C	6.18	117.92	108.52
3	CF	174	ALA	N-CA-C	6.18	119.79	110.64
3	CM	112	GLY	N-CA-C	-6.18	104.63	112.54
3	Cj	112	GLY	N-CA-C	-6.18	104.63	112.54
3	Cr	112	GLY	N-CA-C	-6.18	104.63	112.54
3	Cd	174	ALA	N-CA-C	6.18	119.79	110.64
1	DI	71	LEU	N-CA-C	-6.18	97.64	110.80
2	BV	223	ASN	CB-CA-C	-6.18	97.12	109.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AV	199	SER	N-CA-C	6.18	117.91	108.52
2	B9	206	GLY	N-CA-C	6.18	121.48	113.27
3	CB	112	GLY	N-CA-C	-6.18	104.63	112.54
3	C4	112	GLY	N-CA-C	-6.18	104.63	112.54
1	AE	199	SER	N-CA-C	6.17	117.90	108.52
1	AW	199	SER	N-CA-C	6.17	117.91	108.52
2	BG	223	ASN	CB-CA-C	-6.17	97.13	109.79
3	CO	112	GLY	N-CA-C	-6.17	104.64	112.54
3	Cl	174	ALA	N-CA-C	6.17	119.78	110.64
1	AB	199	SER	N-CA-C	6.17	117.90	108.52
1	Ag	158	VAL	N-CA-CB	-6.17	105.03	111.64
3	Ct	112	GLY	N-CA-C	-6.17	104.64	112.54
1	A4	199	SER	N-CA-C	6.17	117.90	108.52
3	CH	174	ALA	N-CA-C	6.17	119.77	110.64
1	A5	199	SER	N-CA-C	6.17	117.90	108.52
2	BI	223	ASN	CB-CA-C	-6.17	97.14	109.79
2	BU	86	ASP	N-CA-C	-6.17	105.54	114.12
3	CS	112	GLY	N-CA-C	-6.17	104.64	112.54
1	AY	199	SER	N-CA-C	6.17	117.90	108.52
3	CC	112	GLY	N-CA-C	-6.17	104.64	112.54
3	Cg	112	GLY	N-CA-C	-6.17	104.64	112.54
1	DE	199	SER	N-CA-C	6.17	117.89	108.52
1	A1	158	VAL	N-CA-CB	-6.17	105.04	111.64
2	Bo	223	ASN	CB-CA-C	-6.17	97.15	109.79
2	Bx	223	ASN	CB-CA-C	-6.17	97.15	109.79
3	CW	112	GLY	N-CA-C	-6.17	104.65	112.54
3	Cu	112	GLY	N-CA-C	-6.17	104.65	112.54
2	BU	223	ASN	CB-CA-C	-6.16	97.16	109.79
3	CG	112	GLY	N-CA-C	-6.16	104.65	112.54
3	CL	112	GLY	N-CA-C	-6.16	104.65	112.54
3	Ch	112	GLY	N-CA-C	-6.16	104.65	112.54
3	Ci	112	GLY	N-CA-C	-6.16	104.65	112.54
3	Cp	112	GLY	N-CA-C	-6.16	104.65	112.54
1	DK	199	SER	N-CA-C	6.16	117.89	108.52
1	Ae	158	VAL	N-CA-CB	-6.16	105.05	111.64
1	Am	199	SER	N-CA-C	6.16	117.88	108.52
3	CJ	112	GLY	N-CA-C	-6.16	104.66	112.54
3	CO	174	ALA	N-CA-C	6.16	119.75	110.64
1	A1	199	SER	N-CA-C	6.16	117.88	108.52
1	Ae	199	SER	N-CA-C	6.16	117.88	108.52
1	Ai	199	SER	N-CA-C	6.16	117.88	108.52
1	Ab	199	SER	N-CA-C	6.16	117.88	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bx	206	GLY	N-CA-C	6.16	121.46	113.27
3	CF	112	GLY	N-CA-C	-6.16	104.66	112.54
3	C3	174	ALA	N-CA-C	6.16	119.75	110.64
3	Cr	174	ALA	N-CA-C	6.16	119.75	110.64
3	DA	112	GLY	N-CA-C	-6.16	104.66	112.54
1	DH	199	SER	N-CA-C	6.16	117.88	108.52
3	CK	112	GLY	N-CA-C	-6.15	104.66	112.54
3	CT	174	ALA	N-CA-C	6.15	119.75	110.64
1	AL	199	SER	N-CA-C	6.15	117.87	108.52
2	B0	223	ASN	CB-CA-C	-6.15	97.18	109.79
2	B5	86	ASP	N-CA-C	-6.15	105.57	114.12
2	Bv	102	HIS	N-CA-C	6.15	117.78	111.14
3	CI	112	GLY	N-CA-C	-6.15	104.67	112.54
3	CN	112	GLY	N-CA-C	-6.15	104.67	112.54
1	AS	199	SER	N-CA-C	6.15	117.87	108.52
1	AU	199	SER	N-CA-C	6.15	117.87	108.52
1	Af	199	SER	N-CA-C	6.15	117.87	108.52
2	BF	86	ASP	N-CA-C	-6.15	105.57	114.12
2	Be	223	ASN	CB-CA-C	-6.15	97.18	109.79
2	Bl	223	ASN	CB-CA-C	-6.15	97.18	109.79
3	Cf	112	GLY	N-CA-C	-6.15	104.67	112.54
1	AZ	199	SER	N-CA-C	6.15	117.87	108.52
2	B9	223	ASN	CB-CA-C	-6.15	97.18	109.79
3	CV	112	GLY	N-CA-C	-6.15	104.67	112.54
3	Cl	112	GLY	N-CA-C	-6.15	104.67	112.54
3	Cv	174	ALA	N-CA-C	6.15	119.74	110.64
1	AO	199	SER	N-CA-C	6.15	117.86	108.52
1	AQ	199	SER	N-CA-C	6.15	117.86	108.52
3	CA	174	ALA	N-CA-C	6.15	119.74	110.64
3	CJ	174	ALA	N-CA-C	6.15	119.74	110.64
3	C2	112	GLY	N-CA-C	-6.15	104.67	112.54
1	AT	199	SER	N-CA-C	6.15	117.86	108.52
1	DJ	199	SER	N-CA-C	6.15	117.86	108.52
1	Ao	199	SER	N-CA-C	6.14	117.86	108.52
2	BL	86	ASP	N-CA-C	-6.14	105.58	114.12
2	BN	86	ASP	N-CA-C	-6.14	105.58	114.12
2	BN	223	ASN	CB-CA-C	-6.14	97.20	109.79
2	B6	223	ASN	CB-CA-C	-6.14	97.19	109.79
3	C6	174	ALA	N-CA-C	6.14	119.73	110.64
1	AP	199	SER	N-CA-C	6.14	117.86	108.52
2	BB	223	ASN	CB-CA-C	-6.14	97.20	109.79
2	B2	223	ASN	CB-CA-C	-6.14	97.20	109.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CT	112	GLY	N-CA-C	-6.14	104.68	112.54
3	C4	174	ALA	N-CA-C	6.14	119.73	110.64
3	C9	112	GLY	N-CA-C	-6.14	104.68	112.54
3	Cc	174	ALA	N-CA-C	6.14	119.73	110.64
3	DB	174	ALA	N-CA-C	6.14	119.73	110.64
1	Ad	199	SER	N-CA-C	6.14	117.85	108.52
3	CC	174	ALA	N-CA-C	6.14	119.73	110.64
3	Cx	174	ALA	N-CA-C	6.14	119.73	110.64
1	Ag	199	SER	N-CA-C	6.14	117.85	108.52
2	B4	86	ASP	N-CA-C	-6.14	105.59	114.12
2	Bt	223	ASN	CB-CA-C	-6.14	97.20	109.79
3	CH	112	GLY	N-CA-C	-6.14	104.68	112.54
3	C1	174	ALA	N-CA-C	6.14	119.73	110.64
1	AN	199	SER	N-CA-C	6.14	117.85	108.52
1	DG	199	SER	N-CA-C	6.14	117.85	108.52
1	AG	158	VAL	N-CA-CB	-6.14	105.07	111.64
1	A9	199	SER	N-CA-C	6.14	117.85	108.52
1	Al	199	SER	N-CA-C	6.14	117.85	108.52
2	BS	223	ASN	CB-CA-C	-6.14	97.21	109.79
2	Bd	223	ASN	CB-CA-C	-6.14	97.21	109.79
2	Bj	223	ASN	CB-CA-C	-6.14	97.21	109.79
2	Bx	86	ASP	N-CA-C	-6.14	105.59	114.12
3	CA	112	GLY	N-CA-C	-6.14	104.69	112.54
3	CX	174	ALA	N-CA-C	6.14	119.72	110.64
2	BT	223	ASN	CB-CA-C	-6.13	97.22	109.79
2	BZ	223	ASN	CB-CA-C	-6.13	97.21	109.79
3	CU	174	ALA	N-CA-C	6.13	119.72	110.64
3	Cq	174	ALA	N-CA-C	6.13	119.72	110.64
3	Ct	174	ALA	N-CA-C	6.13	119.72	110.64
2	BA	86	ASP	N-CA-C	-6.13	105.59	114.12
2	Bk	86	ASP	N-CA-C	-6.13	105.59	114.12
3	Ce	112	GLY	N-CA-C	-6.13	104.69	112.54
1	A6	199	SER	N-CA-C	6.13	117.84	108.52
2	BH	86	ASP	N-CA-C	-6.13	105.60	114.12
3	C1	112	GLY	N-CA-C	-6.13	104.69	112.54
3	C9	174	ALA	N-CA-C	6.13	119.72	110.64
3	Ce	174	ALA	N-CA-C	6.13	119.72	110.64
1	Ah	199	SER	N-CA-C	6.13	117.84	108.52
2	BD	86	ASP	N-CA-C	-6.13	105.60	114.12
1	An	199	SER	N-CA-C	6.13	117.83	108.52
2	BL	223	ASN	CB-CA-C	-6.13	97.22	109.79
2	BQ	223	ASN	CB-CA-C	-6.13	97.23	109.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bl	86	ASP	N-CA-C	-6.13	105.60	114.12
3	CM	174	ALA	N-CA-C	6.13	119.71	110.64
3	CS	174	ALA	N-CA-C	6.13	119.71	110.64
3	Cs	174	ALA	N-CA-C	6.13	119.71	110.64
3	Cw	174	ALA	N-CA-C	6.13	119.71	110.64
1	DI	199	SER	N-CA-C	6.13	117.84	108.52
1	AF	199	SER	N-CA-C	6.13	117.83	108.52
1	AG	199	SER	N-CA-C	6.13	117.83	108.52
1	Aj	199	SER	N-CA-C	6.13	117.83	108.52
2	BK	223	ASN	CB-CA-C	-6.13	97.23	109.79
2	Bp	86	ASP	N-CA-C	-6.13	105.61	114.12
3	CW	174	ALA	N-CA-C	6.13	119.71	110.64
3	Cm	174	ALA	N-CA-C	6.13	119.71	110.64
1	DD	199	SER	N-CA-C	6.13	117.83	108.52
1	AD	199	SER	N-CA-C	6.12	117.83	108.52
2	B8	223	ASN	CB-CA-C	-6.12	97.23	109.79
3	CP	112	GLY	N-CA-C	-6.12	104.70	112.54
1	AR	199	SER	N-CA-C	6.12	117.83	108.52
1	Ac	199	SER	N-CA-C	6.12	117.83	108.52
2	BI	86	ASP	N-CA-C	-6.12	105.61	114.12
2	BP	86	ASP	N-CA-C	-6.12	105.61	114.12
2	Bq	223	ASN	CB-CA-C	-6.12	97.23	109.79
2	Bu	86	ASP	N-CA-C	-6.12	105.61	114.12
2	Bv	223	ASN	CB-CA-C	-6.12	97.24	109.79
3	C8	174	ALA	N-CA-C	6.12	119.70	110.64
2	BD	223	ASN	CB-CA-C	-6.12	97.24	109.79
2	BY	223	ASN	CB-CA-C	-6.12	97.24	109.79
2	B6	86	ASP	N-CA-C	-6.12	105.61	114.12
3	CQ	208	VAL	CB-CA-C	-6.12	100.89	110.69
3	Cu	174	ALA	N-CA-C	6.12	119.70	110.64
1	AA	199	SER	N-CA-C	6.12	117.82	108.52
2	BH	223	ASN	CB-CA-C	-6.12	97.25	109.79
2	Bs	102	HIS	N-CA-C	6.12	117.75	111.14
1	DK	151	SER	CA-C-N	-6.12	110.95	122.27
1	DK	151	SER	C-N-CA	-6.12	110.95	122.27
2	BB	86	ASP	N-CA-C	-6.12	105.61	114.12
2	B3	223	ASN	CB-CA-C	-6.12	97.25	109.79
2	B7	102	HIS	N-CA-C	6.12	117.75	111.14
2	Ba	86	ASP	N-CA-C	-6.12	105.61	114.12
2	Be	86	ASP	N-CA-C	-6.12	105.61	114.12
2	Bg	223	ASN	CB-CA-C	-6.12	97.25	109.79
2	Bs	223	ASN	CB-CA-C	-6.12	97.25	109.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bt	102	HIS	N-CA-C	6.12	117.75	111.14
3	CG	174	ALA	N-CA-C	6.12	119.70	110.64
1	AI	199	SER	N-CA-C	6.12	117.82	108.52
2	Bq	86	ASP	N-CA-C	-6.12	105.62	114.12
2	BF	223	ASN	CB-CA-C	-6.12	97.25	109.79
2	BM	223	ASN	CB-CA-C	-6.12	97.25	109.79
2	Bi	86	ASP	N-CA-C	-6.12	105.62	114.12
2	Bt	86	ASP	N-CA-C	-6.12	105.62	114.12
2	Bu	223	ASN	CB-CA-C	-6.12	97.25	109.79
3	C7	174	ALA	N-CA-C	6.12	119.69	110.64
3	Cn	174	ALA	N-CA-C	6.12	119.69	110.64
2	B3	102	HIS	N-CA-C	6.11	117.74	111.14
2	B5	223	ASN	CB-CA-C	-6.11	97.26	109.79
3	CB	174	ALA	N-CA-C	6.11	119.69	110.64
3	CI	174	ALA	N-CA-C	6.11	119.69	110.64
3	CL	174	ALA	N-CA-C	6.11	119.69	110.64
2	BM	86	ASP	N-CA-C	-6.11	105.62	114.12
2	BW	223	ASN	CB-CA-C	-6.11	97.26	109.79
2	BX	223	ASN	CB-CA-C	-6.11	97.26	109.79
2	Bh	223	ASN	CB-CA-C	-6.11	97.26	109.79
2	Bj	102	HIS	N-CA-C	6.11	117.74	111.14
3	CV	174	ALA	N-CA-C	6.11	119.69	110.64
2	BJ	223	ASN	CB-CA-C	-6.11	97.26	109.79
2	B4	223	ASN	CB-CA-C	-6.11	97.26	109.79
2	Bb	223	ASN	CB-CA-C	-6.11	97.26	109.79
2	Bn	86	ASP	N-CA-C	-6.11	105.63	114.12
2	Bq	102	HIS	N-CA-C	6.11	117.74	111.14
3	CE	174	ALA	N-CA-C	6.11	119.68	110.64
3	CK	174	ALA	N-CA-C	6.11	119.68	110.64
3	Ch	174	ALA	N-CA-C	6.11	119.68	110.64
3	Cj	174	ALA	N-CA-C	6.11	119.68	110.64
1	AX	199	SER	N-CA-C	6.11	117.81	108.52
2	Bn	223	ASN	CB-CA-C	-6.11	97.27	109.79
2	Bs	86	ASP	N-CA-C	-6.11	105.63	114.12
2	BZ	102	HIS	N-CA-C	6.11	117.74	111.14
2	B6	102	HIS	N-CA-C	6.11	117.74	111.14
2	Bd	86	ASP	N-CA-C	-6.11	105.63	114.12
2	Bf	223	ASN	CB-CA-C	-6.11	97.27	109.79
2	Bi	223	ASN	CB-CA-C	-6.11	97.27	109.79
1	AK	199	SER	N-CA-C	6.11	117.80	108.52
2	BC	86	ASP	N-CA-C	-6.11	105.63	114.12
2	BG	86	ASP	N-CA-C	-6.11	105.63	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BQ	86	ASP	N-CA-C	-6.11	105.63	114.12
2	Bg	86	ASP	N-CA-C	-6.11	105.63	114.12
2	Bh	102	HIS	N-CA-C	6.11	117.73	111.14
2	Br	223	ASN	CB-CA-C	-6.11	97.27	109.79
3	CD	174	ALA	N-CA-C	6.11	119.67	110.64
2	Bp	223	ASN	CB-CA-C	-6.10	97.28	109.79
3	Co	174	ALA	N-CA-C	6.10	119.67	110.64
1	DD	151	SER	CA-C-N	-6.10	110.98	122.27
1	DD	151	SER	C-N-CA	-6.10	110.98	122.27
1	Ac	151	SER	CA-C-N	-6.10	110.98	122.27
1	Ac	151	SER	C-N-CA	-6.10	110.98	122.27
2	BA	223	ASN	CB-CA-C	-6.10	97.28	109.79
2	BE	102	HIS	N-CA-C	6.10	117.73	111.14
2	BV	86	ASP	N-CA-C	-6.10	105.64	114.12
2	B0	102	HIS	N-CA-C	6.10	117.73	111.14
2	B8	86	ASP	N-CA-C	-6.10	105.64	114.12
2	B9	102	HIS	N-CA-C	6.10	117.73	111.14
2	Bm	223	ASN	CB-CA-C	-6.10	97.28	109.79
3	CP	174	ALA	N-CA-C	6.10	119.67	110.64
1	AK	151	SER	CA-C-N	-6.10	110.98	122.27
1	AK	151	SER	C-N-CA	-6.10	110.98	122.27
1	Al	151	SER	CA-C-N	-6.10	110.98	122.27
1	Al	151	SER	C-N-CA	-6.10	110.98	122.27
3	C1	208	VAL	CB-CA-C	-6.10	100.93	110.69
1	DF	199	SER	N-CA-C	6.10	117.79	108.52
1	A3	199	SER	N-CA-C	6.10	117.79	108.52
2	Bc	223	ASN	CB-CA-C	-6.10	97.28	109.79
3	CR	174	ALA	N-CA-C	6.10	119.67	110.64
3	Ck	174	ALA	N-CA-C	6.10	119.67	110.64
3	DA	174	ALA	N-CA-C	6.10	119.67	110.64
1	Aj	151	SER	CA-C-N	-6.10	110.99	122.27
1	Aj	151	SER	C-N-CA	-6.10	110.99	122.27
2	BE	223	ASN	CB-CA-C	-6.10	97.29	109.79
2	BO	223	ASN	CB-CA-C	-6.10	97.29	109.79
2	B1	223	ASN	CB-CA-C	-6.10	97.29	109.79
2	Ba	223	ASN	CB-CA-C	-6.10	97.29	109.79
2	Bb	86	ASP	N-CA-C	-6.10	105.64	114.12
2	Bf	86	ASP	N-CA-C	-6.10	105.64	114.12
2	Bk	102	HIS	N-CA-C	6.10	117.72	111.14
2	Bw	223	ASN	CB-CA-C	-6.10	97.29	109.79
3	CL	208	VAL	CB-CA-C	-6.10	100.93	110.69
3	CN	174	ALA	N-CA-C	6.10	119.66	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CY	174	ALA	N-CA-C	6.10	119.66	110.64
2	Bp	102	HIS	N-CA-C	6.10	117.72	111.14
1	AO	151	SER	CA-C-N	-6.09	111.00	122.27
1	AO	151	SER	C-N-CA	-6.09	111.00	122.27
1	Ab	151	SER	CA-C-N	-6.09	111.00	122.27
1	Ab	151	SER	C-N-CA	-6.09	111.00	122.27
2	BP	223	ASN	CB-CA-C	-6.09	97.30	109.79
2	B1	86	ASP	N-CA-C	-6.09	105.65	114.12
2	B9	86	ASP	N-CA-C	-6.09	105.65	114.12
3	CJ	208	VAL	CB-CA-C	-6.09	100.94	110.69
3	Ce	208	VAL	CB-CA-C	-6.09	100.94	110.69
1	DE	113	THR	N-CA-CB	-6.09	102.93	110.98
2	BS	86	ASP	N-CA-C	-6.09	105.65	114.12
2	BX	102	HIS	N-CA-C	6.09	117.72	111.14
1	AH	151	SER	CA-C-N	-6.09	111.00	122.27
1	AH	151	SER	C-N-CA	-6.09	111.00	122.27
2	BD	102	HIS	N-CA-C	6.09	117.72	111.14
2	Bo	102	HIS	N-CA-C	6.09	117.72	111.14
2	Bx	102	HIS	N-CA-C	6.09	117.72	111.14
1	AM	199	SER	N-CA-C	6.09	117.78	108.52
1	AP	151	SER	CA-C-N	-6.09	111.01	122.27
1	AP	151	SER	C-N-CA	-6.09	111.01	122.27
2	B7	223	ASN	CB-CA-C	-6.09	97.31	109.79
2	Bk	223	ASN	CB-CA-C	-6.09	97.31	109.79
2	BO	86	ASP	N-CA-C	-6.09	105.66	114.12
3	C7	208	VAL	CB-CA-C	-6.09	100.95	110.69
3	Cp	208	VAL	CB-CA-C	-6.09	100.95	110.69
1	AA	151	SER	CA-C-N	-6.09	111.01	122.27
1	AA	151	SER	C-N-CA	-6.09	111.01	122.27
1	A7	199	SER	N-CA-C	6.09	117.77	108.52
2	BE	86	ASP	N-CA-C	-6.09	105.66	114.12
2	BW	86	ASP	N-CA-C	-6.09	105.66	114.12
2	BX	86	ASP	N-CA-C	-6.09	105.66	114.12
2	BY	102	HIS	N-CA-C	6.09	117.71	111.14
2	BZ	86	ASP	N-CA-C	-6.09	105.66	114.12
2	Bb	102	HIS	N-CA-C	6.09	117.71	111.14
3	C2	174	ALA	N-CA-C	6.09	119.65	110.64
1	DF	151	SER	CA-C-N	-6.09	111.01	122.27
1	DF	151	SER	C-N-CA	-6.09	111.01	122.27
1	AI	151	SER	CA-C-N	-6.08	111.01	122.27
1	AI	151	SER	C-N-CA	-6.08	111.01	122.27
2	Br	86	ASP	N-CA-C	-6.08	105.66	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AF	151	SER	CA-C-N	-6.08	111.02	122.27
1	AF	151	SER	C-N-CA	-6.08	111.02	122.27
1	AM	151	SER	CA-C-N	-6.08	111.02	122.27
1	AM	151	SER	C-N-CA	-6.08	111.02	122.27
1	A4	151	SER	CA-C-N	-6.08	111.02	122.27
1	A4	151	SER	C-N-CA	-6.08	111.02	122.27
2	BC	223	ASN	CB-CA-C	-6.08	97.32	109.79
2	BK	86	ASP	N-CA-C	-6.08	105.66	114.12
2	Bc	102	HIS	N-CA-C	6.08	117.71	111.14
2	Bg	102	HIS	N-CA-C	6.08	117.71	111.14
2	Bu	102	HIS	N-CA-C	6.08	117.71	111.14
3	Cj	208	VAL	CB-CA-C	-6.08	100.96	110.69
3	Cu	208	VAL	CB-CA-C	-6.08	100.96	110.69
2	Bc	86	ASP	N-CA-C	-6.08	105.67	114.12
2	Be	102	HIS	N-CA-C	6.08	117.71	111.14
3	CB	208	VAL	CB-CA-C	-6.08	100.96	110.69
2	BN	102	HIS	N-CA-C	6.08	117.71	111.14
2	BR	223	ASN	CB-CA-C	-6.08	97.33	109.79
3	Cp	174	ALA	N-CA-C	6.08	119.64	110.64
1	AG	151	SER	CA-C-N	-6.08	111.02	122.27
1	AG	151	SER	C-N-CA	-6.08	111.02	122.27
1	AS	151	SER	CA-C-N	-6.08	111.03	122.27
1	AS	151	SER	C-N-CA	-6.08	111.03	122.27
1	AV	151	SER	CA-C-N	-6.08	111.03	122.27
1	AV	151	SER	C-N-CA	-6.08	111.03	122.27
1	AY	151	SER	CA-C-N	-6.08	111.02	122.27
1	AY	151	SER	C-N-CA	-6.08	111.02	122.27
1	AZ	151	SER	CA-C-N	-6.08	111.03	122.27
1	AZ	151	SER	C-N-CA	-6.08	111.03	122.27
1	A3	151	SER	CA-C-N	-6.08	111.03	122.27
1	A3	151	SER	C-N-CA	-6.08	111.03	122.27
2	BR	86	ASP	N-CA-C	-6.08	105.67	114.12
2	BU	102	HIS	N-CA-C	6.08	117.70	111.14
2	Bv	86	ASP	N-CA-C	-6.08	105.67	114.12
3	C0	174	ALA	N-CA-C	6.08	119.64	110.64
1	DG	151	SER	CA-C-N	-6.08	111.03	122.27
1	DG	151	SER	C-N-CA	-6.08	111.03	122.27
1	AB	151	SER	CA-C-N	-6.08	111.03	122.27
1	AB	151	SER	C-N-CA	-6.08	111.03	122.27
1	A1	151	SER	CA-C-N	-6.08	111.03	122.27
1	A1	151	SER	C-N-CA	-6.08	111.03	122.27
3	Co	208	VAL	CB-CA-C	-6.08	100.97	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DI	151	SER	CA-C-N	-6.08	111.03	122.27
1	DI	151	SER	C-N-CA	-6.08	111.03	122.27
1	Ah	151	SER	CA-C-N	-6.08	111.03	122.27
1	Ah	151	SER	C-N-CA	-6.08	111.03	122.27
2	BY	86	ASP	N-CA-C	-6.08	105.68	114.12
2	B7	86	ASP	N-CA-C	-6.08	105.68	114.12
2	Bj	86	ASP	N-CA-C	-6.08	105.67	114.12
2	Br	102	HIS	N-CA-C	6.08	117.70	111.14
3	CX	208	VAL	CB-CA-C	-6.08	100.97	110.69
3	C5	208	VAL	CB-CA-C	-6.08	100.97	110.69
3	Ck	208	VAL	CB-CA-C	-6.08	100.97	110.69
3	Cr	208	VAL	CB-CA-C	-6.08	100.97	110.69
1	A2	151	SER	CA-C-N	-6.07	111.03	122.27
1	A2	151	SER	C-N-CA	-6.07	111.03	122.27
1	A8	151	SER	CA-C-N	-6.07	111.03	122.27
1	A8	151	SER	C-N-CA	-6.07	111.03	122.27
1	A9	151	SER	CA-C-N	-6.07	111.03	122.27
1	A9	151	SER	C-N-CA	-6.07	111.03	122.27
2	B0	86	ASP	N-CA-C	-6.07	105.68	114.12
2	B3	86	ASP	N-CA-C	-6.07	105.68	114.12
1	DJ	151	SER	CA-C-N	-6.07	111.03	122.27
1	DJ	151	SER	C-N-CA	-6.07	111.03	122.27
3	CG	208	VAL	CB-CA-C	-6.07	100.97	110.69
1	AE	151	SER	CA-C-N	-6.07	111.04	122.27
1	AE	151	SER	C-N-CA	-6.07	111.04	122.27
2	BJ	86	ASP	N-CA-C	-6.07	105.68	114.12
2	Bw	102	HIS	N-CA-C	6.07	117.70	111.14
3	CW	208	VAL	CB-CA-C	-6.07	100.98	110.69
1	Am	151	SER	CA-C-N	-6.07	111.04	122.27
1	Am	151	SER	C-N-CA	-6.07	111.04	122.27
1	An	151	SER	CA-C-N	-6.07	111.04	122.27
1	An	151	SER	C-N-CA	-6.07	111.04	122.27
2	BB	102	HIS	N-CA-C	6.07	117.69	111.14
3	Ci	174	ALA	N-CA-C	6.07	119.62	110.64
1	AD	151	SER	CA-C-N	-6.07	111.04	122.27
1	AD	151	SER	C-N-CA	-6.07	111.04	122.27
1	AU	151	SER	CA-C-N	-6.07	111.05	122.27
1	AU	151	SER	C-N-CA	-6.07	111.05	122.27
1	Ai	151	SER	CA-C-N	-6.07	111.04	122.27
1	Ai	151	SER	C-N-CA	-6.07	111.04	122.27
2	B2	86	ASP	N-CA-C	-6.07	105.69	114.12
2	Bm	86	ASP	N-CA-C	-6.07	105.69	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CQ	174	ALA	N-CA-C	6.07	119.62	110.64
3	CV	208	VAL	CB-CA-C	-6.07	100.98	110.69
2	BT	102	HIS	N-CA-C	6.07	117.69	111.14
2	Bo	86	ASP	N-CA-C	-6.07	105.69	114.12
3	CP	208	VAL	CB-CA-C	-6.07	100.98	110.69
3	CR	208	VAL	CB-CA-C	-6.07	100.98	110.69
3	C0	208	VAL	CB-CA-C	-6.07	100.98	110.69
3	Cf	174	ALA	N-CA-C	6.07	119.62	110.64
3	Cl	208	VAL	CB-CA-C	-6.07	100.99	110.69
1	DH	151	SER	CA-C-N	-6.07	111.05	122.27
1	DH	151	SER	C-N-CA	-6.07	111.05	122.27
1	AX	151	SER	CA-C-N	-6.06	111.05	122.27
1	AX	151	SER	C-N-CA	-6.06	111.05	122.27
1	A5	151	SER	CA-C-N	-6.06	111.05	122.27
1	A5	151	SER	C-N-CA	-6.06	111.05	122.27
1	Ae	151	SER	CA-C-N	-6.06	111.05	122.27
1	Ae	151	SER	C-N-CA	-6.06	111.05	122.27
2	BS	102	HIS	N-CA-C	6.06	117.69	111.14
2	BV	102	HIS	N-CA-C	6.06	117.69	111.14
3	C2	208	VAL	CB-CA-C	-6.06	100.99	110.69
3	Ct	208	VAL	CB-CA-C	-6.06	100.99	110.69
1	DE	151	SER	CA-C-N	-6.06	111.06	122.27
1	DE	151	SER	C-N-CA	-6.06	111.06	122.27
1	AJ	151	SER	CA-C-N	-6.06	111.06	122.27
1	AJ	151	SER	C-N-CA	-6.06	111.06	122.27
1	AQ	151	SER	CA-C-N	-6.06	111.06	122.27
1	AQ	151	SER	C-N-CA	-6.06	111.06	122.27
2	B4	102	HIS	N-CA-C	6.06	117.69	111.14
3	Cx	208	VAL	CB-CA-C	-6.06	100.99	110.69
3	DA	208	VAL	CB-CA-C	-6.06	100.99	110.69
1	AN	151	SER	CA-C-N	-6.06	111.06	122.27
1	AN	151	SER	C-N-CA	-6.06	111.06	122.27
1	Ag	151	SER	CA-C-N	-6.06	111.06	122.27
1	Ag	151	SER	C-N-CA	-6.06	111.06	122.27
1	Ak	151	SER	CA-C-N	-6.06	111.06	122.27
1	Ak	151	SER	C-N-CA	-6.06	111.06	122.27
2	Bl	102	HIS	N-CA-C	6.06	117.69	111.14
3	CF	208	VAL	CB-CA-C	-6.06	101.00	110.69
3	CH	208	VAL	CB-CA-C	-6.06	101.00	110.69
3	C5	174	ALA	N-CA-C	6.06	119.61	110.64
3	C9	208	VAL	CB-CA-C	-6.06	100.99	110.69
3	Cf	208	VAL	CB-CA-C	-6.06	100.99	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AC	151	SER	CA-C-N	-6.06	111.06	122.27
1	AC	151	SER	C-N-CA	-6.06	111.06	122.27
1	Ad	151	SER	CA-C-N	-6.06	111.06	122.27
1	Ad	151	SER	C-N-CA	-6.06	111.06	122.27
2	BJ	102	HIS	N-CA-C	6.06	117.68	111.14
2	Bn	102	HIS	N-CA-C	6.06	117.68	111.14
2	Bf	102	HIS	N-CA-C	6.06	117.68	111.14
3	DB	208	VAL	CB-CA-C	-6.06	101.00	110.69
2	BG	102	HIS	N-CA-C	6.05	117.68	111.14
2	Bd	102	HIS	N-CA-C	6.05	117.68	111.14
3	CA	208	VAL	CB-CA-C	-6.05	101.00	110.69
1	AX	113	THR	N-CA-CB	-6.05	102.99	110.98
1	AR	151	SER	CA-C-N	-6.05	111.07	122.27
1	AR	151	SER	C-N-CA	-6.05	111.07	122.27
1	AT	151	SER	CA-C-N	-6.05	111.08	122.27
1	AT	151	SER	C-N-CA	-6.05	111.08	122.27
1	Ab	113	THR	N-CA-CB	-6.05	102.99	110.98
1	Ao	151	SER	CA-C-N	-6.05	111.07	122.27
1	Ao	151	SER	C-N-CA	-6.05	111.07	122.27
2	BR	102	HIS	N-CA-C	6.05	117.67	111.14
2	BO	102	HIS	N-CA-C	6.05	117.68	111.14
2	BP	102	HIS	N-CA-C	6.05	117.68	111.14
3	CI	208	VAL	CB-CA-C	-6.05	101.01	110.69
2	BC	102	HIS	N-CA-C	6.05	117.67	111.14
3	CO	208	VAL	CB-CA-C	-6.05	101.01	110.69
3	CZ	208	VAL	CB-CA-C	-6.05	101.01	110.69
1	DC	151	SER	CA-C-N	-6.05	111.08	122.27
1	DC	151	SER	C-N-CA	-6.05	111.08	122.27
1	A6	113	THR	N-CA-CB	-6.05	103.00	110.98
3	CC	208	VAL	CB-CA-C	-6.05	101.01	110.69
1	A6	151	SER	CA-C-N	-6.05	111.08	122.27
1	A6	151	SER	C-N-CA	-6.05	111.08	122.27
1	Ac	113	THR	N-CA-CB	-6.05	103.00	110.98
3	CN	208	VAL	CB-CA-C	-6.05	101.02	110.69
3	C6	208	VAL	CB-CA-C	-6.05	101.02	110.69
2	B5	102	HIS	N-CA-C	6.04	117.67	111.14
2	Bh	86	ASP	N-CA-C	-6.04	105.72	114.12
3	Cd	208	VAL	CB-CA-C	-6.04	101.02	110.69
1	A2	113	THR	N-CA-CB	-6.04	103.00	110.98
1	A7	151	SER	CA-C-N	-6.04	111.09	122.27
1	A7	151	SER	C-N-CA	-6.04	111.09	122.27
1	Af	151	SER	CA-C-N	-6.04	111.09	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Af	151	SER	C-N-CA	-6.04	111.09	122.27
3	CM	208	VAL	CB-CA-C	-6.04	101.02	110.69
3	Ci	208	VAL	CB-CA-C	-6.04	101.02	110.69
1	AW	151	SER	CA-C-N	-6.04	111.09	122.27
1	AW	151	SER	C-N-CA	-6.04	111.09	122.27
3	CD	208	VAL	CB-CA-C	-6.04	101.02	110.69
3	Cw	208	VAL	CB-CA-C	-6.04	101.02	110.69
2	BQ	102	HIS	N-CA-C	6.04	117.66	111.14
2	BH	102	HIS	N-CA-C	6.04	117.66	111.14
2	BA	102	HIS	N-CA-C	6.04	117.66	111.14
2	Bm	102	HIS	N-CA-C	6.04	117.66	111.14
1	AV	113	THR	N-CA-CB	-6.04	103.01	110.98
2	BL	102	HIS	N-CA-C	6.04	117.66	111.14
3	C4	208	VAL	CB-CA-C	-6.04	101.03	110.69
1	A7	113	THR	N-CA-CB	-6.03	103.02	110.98
1	Aa	151	SER	CA-C-N	-6.03	111.11	122.27
1	Aa	151	SER	C-N-CA	-6.03	111.11	122.27
2	BK	102	HIS	N-CA-C	6.03	117.66	111.14
3	CY	208	VAL	CB-CA-C	-6.03	101.04	110.69
2	Bw	86	ASP	N-CA-C	-6.03	105.73	114.12
3	CT	208	VAL	CB-CA-C	-6.03	101.04	110.69
1	AE	113	THR	N-CA-CB	-6.03	103.02	110.98
2	B2	102	HIS	N-CA-C	6.03	117.65	111.14
3	CK	208	VAL	CB-CA-C	-6.03	101.04	110.69
3	CU	208	VAL	CB-CA-C	-6.03	101.04	110.69
3	Cq	208	VAL	CB-CA-C	-6.03	101.04	110.69
1	DD	113	THR	N-CA-CB	-6.03	103.02	110.98
2	Ba	102	HIS	N-CA-C	6.03	117.65	111.14
3	Cm	208	VAL	CB-CA-C	-6.03	101.04	110.69
1	AY	113	THR	N-CA-CB	-6.03	103.02	110.98
2	BT	86	ASP	N-CA-C	-6.03	105.74	114.12
2	B8	102	HIS	N-CA-C	6.03	117.65	111.14
3	Cv	208	VAL	CB-CA-C	-6.03	101.05	110.69
1	AL	151	SER	CA-C-N	-6.03	111.12	122.27
1	AL	151	SER	C-N-CA	-6.03	111.12	122.27
3	Cc	208	VAL	CB-CA-C	-6.03	101.05	110.69
3	Cg	208	VAL	CB-CA-C	-6.03	101.05	110.69
3	Cn	208	VAL	CB-CA-C	-6.03	101.05	110.69
1	DH	113	THR	N-CA-CB	-6.03	103.03	110.98
2	Bi	102	HIS	N-CA-C	6.02	117.65	111.14
1	AI	113	THR	N-CA-CB	-6.02	103.03	110.98
1	A0	151	SER	CA-C-N	-6.02	111.13	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A0	151	SER	C-N-CA	-6.02	111.13	122.27
1	Am	113	THR	N-CA-CB	-6.02	103.03	110.98
3	C8	208	VAL	CB-CA-C	-6.02	101.06	110.69
1	DC	113	THR	N-CA-CB	-6.02	103.03	110.98
1	DH	4	VAL	CA-C-N	6.02	133.21	121.41
1	DH	4	VAL	C-N-CA	6.02	133.21	121.41
3	Cs	208	VAL	CB-CA-C	-6.02	101.06	110.69
1	AC	113	THR	N-CA-CB	-6.02	103.04	110.98
1	Af	113	THR	N-CA-CB	-6.02	103.04	110.98
3	CE	208	VAL	CB-CA-C	-6.02	101.06	110.69
1	AK	113	THR	N-CA-CB	-6.01	103.04	110.98
1	A5	113	THR	N-CA-CB	-6.01	103.04	110.98
1	Ah	113	THR	N-CA-CB	-6.01	103.04	110.98
2	BF	102	HIS	N-CA-C	6.01	117.64	111.14
2	B1	102	HIS	N-CA-C	6.01	117.64	111.14
1	DJ	113	THR	N-CA-CB	-6.01	103.04	110.98
1	AD	113	THR	N-CA-CB	-6.01	103.04	110.98
1	AH	113	THR	N-CA-CB	-6.01	103.04	110.98
1	A3	4	VAL	CA-C-N	6.01	133.19	121.41
1	A3	4	VAL	C-N-CA	6.01	133.19	121.41
1	A9	113	THR	N-CA-CB	-6.01	103.04	110.98
2	BI	102	HIS	N-CA-C	6.01	117.63	111.14
1	AN	113	THR	N-CA-CB	-6.01	103.05	110.98
1	Aa	113	THR	N-CA-CB	-6.01	103.05	110.98
1	Af	4	VAL	CA-C-N	6.01	133.19	121.41
1	Af	4	VAL	C-N-CA	6.01	133.19	121.41
3	C3	208	VAL	CB-CA-C	-6.01	101.08	110.69
1	AJ	113	THR	N-CA-CB	-6.01	103.05	110.98
1	AP	113	THR	N-CA-CB	-6.01	103.05	110.98
1	A4	113	THR	N-CA-CB	-6.01	103.05	110.98
2	BM	102	HIS	N-CA-C	6.00	117.62	111.14
1	AS	113	THR	N-CA-CB	-6.00	103.06	110.98
1	Ae	113	THR	N-CA-CB	-6.00	103.06	110.98
1	An	4	VAL	CA-C-N	6.00	133.18	121.41
1	An	4	VAL	C-N-CA	6.00	133.18	121.41
1	AK	4	VAL	CA-C-N	6.00	133.17	121.41
1	AK	4	VAL	C-N-CA	6.00	133.17	121.41
1	AT	4	VAL	CA-C-N	6.00	133.18	121.41
1	AT	4	VAL	C-N-CA	6.00	133.18	121.41
1	AZ	113	THR	N-CA-CB	-6.00	103.06	110.98
1	Ao	4	VAL	CA-C-N	6.00	133.17	121.41
1	Ao	4	VAL	C-N-CA	6.00	133.17	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CS	208	VAL	CB-CA-C	-6.00	101.09	110.69
3	Ch	208	VAL	CB-CA-C	-6.00	101.09	110.69
1	A0	113	THR	N-CA-CB	-6.00	103.06	110.98
1	A9	4	VAL	CA-C-N	6.00	133.16	121.41
1	A9	4	VAL	C-N-CA	6.00	133.16	121.41
1	AL	113	THR	N-CA-CB	-6.00	103.06	110.98
1	Al	113	THR	N-CA-CB	-6.00	103.06	110.98
1	AW	113	THR	N-CA-CB	-6.00	103.07	110.98
1	DK	113	THR	N-CA-CB	-6.00	103.07	110.98
1	AB	113	THR	N-CA-CB	-5.99	103.07	110.98
1	AL	4	VAL	CA-C-N	5.99	133.15	121.41
1	AL	4	VAL	C-N-CA	5.99	133.15	121.41
1	AQ	4	VAL	CA-C-N	5.99	133.15	121.41
1	AQ	4	VAL	C-N-CA	5.99	133.15	121.41
1	AV	4	VAL	CA-C-N	5.99	133.15	121.41
1	AV	4	VAL	C-N-CA	5.99	133.15	121.41
1	A1	113	THR	N-CA-CB	-5.99	103.07	110.98
1	A0	4	VAL	CA-C-N	5.99	133.15	121.41
1	A0	4	VAL	C-N-CA	5.99	133.15	121.41
1	A3	113	THR	N-CA-CB	-5.99	103.07	110.98
1	AY	4	VAL	CA-C-N	5.99	133.14	121.41
1	AY	4	VAL	C-N-CA	5.99	133.14	121.41
1	AA	4	VAL	CA-C-N	5.99	133.14	121.41
1	AA	4	VAL	C-N-CA	5.99	133.14	121.41
1	AF	4	VAL	CA-C-N	5.99	133.14	121.41
1	AF	4	VAL	C-N-CA	5.99	133.14	121.41
1	AM	113	THR	N-CA-CB	-5.99	103.08	110.98
1	AP	4	VAL	CA-C-N	5.99	133.14	121.41
1	AP	4	VAL	C-N-CA	5.99	133.14	121.41
1	Ag	113	THR	N-CA-CB	-5.98	103.08	110.98
1	AB	4	VAL	CA-C-N	5.98	133.14	121.41
1	AB	4	VAL	C-N-CA	5.98	133.14	121.41
1	AW	4	VAL	CA-C-N	5.98	133.14	121.41
1	AW	4	VAL	C-N-CA	5.98	133.14	121.41
1	Aj	4	VAL	CA-C-N	5.98	133.14	121.41
1	Aj	4	VAL	C-N-CA	5.98	133.14	121.41
2	BW	102	HIS	N-CA-C	5.98	117.60	111.14
2	Bq	50	PRO	N-CA-C	5.98	120.24	111.03
2	BX	50	PRO	N-CA-C	5.98	120.24	111.03
2	Bo	50	PRO	N-CA-C	5.98	120.24	111.03
1	DG	4	VAL	CA-C-N	5.98	133.13	121.41
1	DG	4	VAL	C-N-CA	5.98	133.13	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AG	113	THR	N-CA-CB	-5.98	103.09	110.98
1	AQ	113	THR	N-CA-CB	-5.98	103.09	110.98
1	DC	4	VAL	CA-C-N	5.98	133.12	121.41
1	DC	4	VAL	C-N-CA	5.98	133.12	121.41
1	A8	113	THR	N-CA-CB	-5.98	103.09	110.98
1	AI	113	THR	N-CA-CB	-5.98	103.09	110.98
2	Bb	50	PRO	N-CA-C	5.98	120.23	111.03
1	AO	4	VAL	CA-C-N	5.97	133.12	121.41
1	AO	4	VAL	C-N-CA	5.97	133.12	121.41
1	AT	113	THR	N-CA-CB	-5.97	103.09	110.98
1	AZ	4	VAL	CA-C-N	5.97	133.12	121.41
1	AZ	4	VAL	C-N-CA	5.97	133.12	121.41
1	DG	113	THR	N-CA-CB	-5.97	103.09	110.98
1	A4	4	VAL	CA-C-N	5.97	133.12	121.41
1	A4	4	VAL	C-N-CA	5.97	133.12	121.41
2	BU	50	PRO	N-CA-C	5.97	120.23	111.03
1	AG	4	VAL	CA-C-N	5.97	133.11	121.41
1	AG	4	VAL	C-N-CA	5.97	133.11	121.41
1	AH	4	VAL	CA-C-N	5.97	133.11	121.41
1	AH	4	VAL	C-N-CA	5.97	133.11	121.41
1	AJ	4	VAL	CA-C-N	5.97	133.11	121.41
1	AJ	4	VAL	C-N-CA	5.97	133.11	121.41
1	Ak	4	VAL	CA-C-N	5.97	133.11	121.41
1	Ak	4	VAL	C-N-CA	5.97	133.11	121.41
1	An	113	THR	N-CA-CB	-5.97	103.10	110.98
1	AC	4	VAL	CA-C-N	5.97	133.11	121.41
1	AC	4	VAL	C-N-CA	5.97	133.11	121.41
1	AS	4	VAL	CA-C-N	5.97	133.11	121.41
1	AS	4	VAL	C-N-CA	5.97	133.11	121.41
1	AU	4	VAL	CA-C-N	5.97	133.11	121.41
1	AU	4	VAL	C-N-CA	5.97	133.11	121.41
1	Ae	4	VAL	CA-C-N	5.97	133.11	121.41
1	Ae	4	VAL	C-N-CA	5.97	133.11	121.41
1	Ai	113	THR	N-CA-CB	-5.97	103.10	110.98
1	AI	4	VAL	CA-C-N	5.97	133.10	121.41
1	AI	4	VAL	C-N-CA	5.97	133.10	121.41
1	A5	4	VAL	CA-C-N	5.97	133.10	121.41
1	A5	4	VAL	C-N-CA	5.97	133.10	121.41
1	DF	4	VAL	CA-C-N	5.97	133.10	121.41
1	DF	4	VAL	C-N-CA	5.97	133.10	121.41
1	A8	4	VAL	CA-C-N	5.96	133.10	121.41
1	A8	4	VAL	C-N-CA	5.96	133.10	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DF	113	THR	N-CA-CB	-5.96	103.11	110.98
1	AR	4	VAL	CA-C-N	5.96	133.10	121.41
1	AR	4	VAL	C-N-CA	5.96	133.10	121.41
1	Ao	113	THR	N-CA-CB	-5.96	103.11	110.98
2	BV	50	PRO	N-CA-C	5.96	120.21	111.03
1	AA	113	THR	N-CA-CB	-5.96	103.11	110.98
1	AF	113	THR	N-CA-CB	-5.96	103.11	110.98
1	AX	4	VAL	CA-C-N	5.96	133.10	121.41
1	AX	4	VAL	C-N-CA	5.96	133.10	121.41
1	Ac	4	VAL	CA-C-N	5.96	133.09	121.41
1	Ac	4	VAL	C-N-CA	5.96	133.09	121.41
1	Ad	113	THR	N-CA-CB	-5.96	103.11	110.98
1	AR	113	THR	N-CA-CB	-5.96	103.11	110.98
1	Aa	4	VAL	CA-C-N	5.96	133.09	121.41
1	Aa	4	VAL	C-N-CA	5.96	133.09	121.41
1	Al	4	VAL	CA-C-N	5.96	133.09	121.41
1	Al	4	VAL	C-N-CA	5.96	133.09	121.41
2	BS	50	PRO	N-CA-C	5.96	120.21	111.03
1	A6	4	VAL	CA-C-N	5.96	133.09	121.41
1	A6	4	VAL	C-N-CA	5.96	133.09	121.41
2	B3	50	PRO	N-CA-C	5.96	120.20	111.03
1	DJ	4	VAL	CA-C-N	5.96	133.08	121.41
1	DJ	4	VAL	C-N-CA	5.96	133.08	121.41
1	DK	4	VAL	CA-C-N	5.96	133.08	121.41
1	DK	4	VAL	C-N-CA	5.96	133.08	121.41
1	Aj	113	THR	N-CA-CB	-5.95	103.12	110.98
1	Ad	4	VAL	CA-C-N	5.95	133.08	121.41
1	Ad	4	VAL	C-N-CA	5.95	133.08	121.41
1	DI	113	THR	N-CA-CB	-5.95	103.12	110.98
1	Ai	4	VAL	CA-C-N	5.95	133.07	121.41
1	Ai	4	VAL	C-N-CA	5.95	133.07	121.41
1	A1	4	VAL	CA-C-N	5.95	133.07	121.41
1	A1	4	VAL	C-N-CA	5.95	133.07	121.41
1	AD	4	VAL	CA-C-N	5.95	133.06	121.41
1	AD	4	VAL	C-N-CA	5.95	133.06	121.41
2	BI	50	PRO	N-CA-C	5.94	120.18	111.03
1	DD	4	VAL	CA-C-N	5.94	133.06	121.41
1	DD	4	VAL	C-N-CA	5.94	133.06	121.41
1	AE	4	VAL	CA-C-N	5.94	133.06	121.41
1	AE	4	VAL	C-N-CA	5.94	133.06	121.41
2	Bh	50	PRO	N-CA-C	5.94	120.18	111.03
2	BF	50	PRO	N-CA-C	5.94	120.17	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B2	50	PRO	N-CA-C	5.94	120.17	111.03
1	AO	113	THR	N-CA-CB	-5.94	103.14	110.98
2	B9	50	PRO	N-CA-C	5.94	120.17	111.03
1	A7	4	VAL	CA-C-N	5.93	133.04	121.41
1	A7	4	VAL	C-N-CA	5.93	133.04	121.41
2	Bt	50	PRO	N-CA-C	5.93	120.17	111.03
2	BD	50	PRO	N-CA-C	5.93	120.17	111.03
2	BZ	50	PRO	N-CA-C	5.93	120.17	111.03
2	B7	129	VAL	N-CA-C	5.93	114.36	107.89
1	AN	4	VAL	CA-C-N	5.93	133.03	121.41
1	AN	4	VAL	C-N-CA	5.93	133.03	121.41
1	AM	4	VAL	CA-C-N	5.93	133.03	121.41
1	AM	4	VAL	C-N-CA	5.93	133.03	121.41
2	BN	50	PRO	N-CA-C	5.93	120.16	111.03
2	Bv	50	PRO	N-CA-C	5.93	120.16	111.03
1	Ab	4	VAL	CA-C-N	5.93	133.03	121.41
1	Ab	4	VAL	C-N-CA	5.93	133.03	121.41
2	B0	50	PRO	N-CA-C	5.93	120.16	111.03
2	B1	50	PRO	N-CA-C	5.93	120.16	111.03
2	BJ	129	VAL	N-CA-C	5.93	114.35	107.89
1	DE	4	VAL	CA-C-N	5.93	133.03	121.41
1	DE	4	VAL	C-N-CA	5.93	133.03	121.41
1	AU	113	THR	N-CA-CB	-5.92	103.16	110.98
1	Ag	4	VAL	CA-C-N	5.92	133.02	121.41
1	Ag	4	VAL	C-N-CA	5.92	133.02	121.41
2	Bg	50	PRO	N-CA-C	5.92	120.15	111.03
1	A2	4	VAL	CA-C-N	5.92	133.02	121.41
1	A2	4	VAL	C-N-CA	5.92	133.02	121.41
2	BC	50	PRO	N-CA-C	5.92	120.15	111.03
2	BH	50	PRO	N-CA-C	5.92	120.15	111.03
2	Bx	50	PRO	N-CA-C	5.92	120.15	111.03
2	Bs	50	PRO	N-CA-C	5.92	120.15	111.03
1	DI	4	VAL	CA-C-N	5.92	133.01	121.41
1	DI	4	VAL	C-N-CA	5.92	133.01	121.41
2	BK	50	PRO	N-CA-C	5.92	120.14	111.03
2	Be	50	PRO	N-CA-C	5.92	120.14	111.03
2	B6	50	PRO	N-CA-C	5.92	120.14	111.03
2	B9	129	VAL	N-CA-C	5.92	114.34	107.89
2	Ba	50	PRO	N-CA-C	5.92	120.14	111.03
2	Bd	50	PRO	N-CA-C	5.92	120.14	111.03
1	Ah	4	VAL	CA-C-N	5.91	133.00	121.41
1	Ah	4	VAL	C-N-CA	5.91	133.00	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Am	4	VAL	CA-C-N	5.91	133.00	121.41
1	Am	4	VAL	C-N-CA	5.91	133.00	121.41
2	BT	50	PRO	N-CA-C	5.91	120.14	111.03
2	BM	50	PRO	N-CA-C	5.91	120.14	111.03
2	BA	50	PRO	N-CA-C	5.91	120.13	111.03
2	BB	50	PRO	N-CA-C	5.91	120.13	111.03
2	B8	50	PRO	N-CA-C	5.91	120.13	111.03
1	Ag	121	LEU	N-CA-C	-5.91	100.08	109.59
2	BR	50	PRO	N-CA-C	5.91	120.13	111.03
2	Bk	50	PRO	N-CA-C	5.91	120.13	111.03
2	BG	50	PRO	N-CA-C	5.91	120.13	111.03
1	AP	178	THR	N-CA-C	-5.91	100.22	109.25
1	Al	121	LEU	N-CA-C	-5.91	100.08	109.59
2	Bl	50	PRO	N-CA-C	5.91	120.12	111.03
2	Bm	50	PRO	N-CA-C	5.90	120.12	111.03
2	Bn	129	VAL	N-CA-C	5.90	114.33	107.89
2	Bv	129	VAL	N-CA-C	5.90	114.33	107.89
1	AZ	178	THR	N-CA-C	-5.90	100.22	109.25
2	BA	129	VAL	N-CA-C	5.90	114.32	107.89
2	BE	50	PRO	N-CA-C	5.90	120.12	111.03
2	BQ	50	PRO	N-CA-C	5.90	120.12	111.03
2	Bj	50	PRO	N-CA-C	5.90	120.12	111.03
2	Bw	50	PRO	N-CA-C	5.90	120.12	111.03
3	Ck	178	ASN	CB-CA-C	-5.90	100.38	110.24
2	B7	50	PRO	N-CA-C	5.90	120.12	111.03
2	Br	129	VAL	N-CA-C	5.90	114.32	107.89
2	B4	50	PRO	N-CA-C	5.90	120.11	111.03
2	B5	50	PRO	N-CA-C	5.89	120.11	111.03
2	BO	50	PRO	N-CA-C	5.89	120.11	111.03
2	B8	129	VAL	N-CA-C	5.89	114.31	107.89
2	Bc	129	VAL	N-CA-C	5.89	114.31	107.89
2	BE	129	VAL	N-CA-C	5.89	114.31	107.89
2	BR	129	VAL	N-CA-C	5.89	114.31	107.89
2	Bi	50	PRO	N-CA-C	5.89	120.10	111.03
2	BJ	50	PRO	N-CA-C	5.89	120.10	111.03
2	BL	50	PRO	N-CA-C	5.89	120.10	111.03
2	Bf	50	PRO	N-CA-C	5.89	120.10	111.03
2	BO	129	VAL	N-CA-C	5.89	114.31	107.89
2	BP	129	VAL	N-CA-C	5.89	114.31	107.89
2	Bc	50	PRO	N-CA-C	5.89	120.10	111.03
2	Bh	129	VAL	N-CA-C	5.89	114.31	107.89
2	Bp	50	PRO	N-CA-C	5.89	120.10	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C5	178	ASN	CB-CA-C	-5.89	100.41	110.24
3	DA	178	ASN	CB-CA-C	-5.89	100.41	110.24
1	DG	178	THR	N-CA-C	-5.89	100.24	109.25
1	AW	121	LEU	N-CA-C	-5.88	100.12	109.59
2	Bo	129	VAL	N-CA-C	5.88	114.31	107.89
2	Bx	129	VAL	N-CA-C	5.88	114.31	107.89
1	A5	121	LEU	N-CA-C	-5.88	100.12	109.59
2	Bu	50	PRO	N-CA-C	5.88	120.09	111.03
2	BQ	129	VAL	N-CA-C	5.88	114.30	107.89
2	Bn	50	PRO	N-CA-C	5.88	120.09	111.03
3	CQ	178	ASN	CB-CA-C	-5.88	100.42	110.24
2	BY	50	PRO	N-CA-C	5.88	120.08	111.03
1	DJ	121	LEU	N-CA-C	-5.88	100.12	109.59
2	BX	129	VAL	N-CA-C	5.88	114.30	107.89
3	CB	178	ASN	CB-CA-C	-5.88	100.43	110.24
3	CP	178	ASN	CB-CA-C	-5.88	100.43	110.24
3	C9	178	ASN	CB-CA-C	-5.88	100.42	110.24
1	Ad	178	THR	N-CA-C	-5.88	100.26	109.25
1	Aj	121	LEU	N-CA-C	-5.88	100.13	109.59
1	AM	121	LEU	N-CA-C	-5.87	100.13	109.59
2	Bi	129	VAL	N-CA-C	5.87	114.29	107.89
2	Bj	129	VAL	N-CA-C	5.87	114.29	107.89
1	DI	121	LEU	N-CA-C	-5.87	100.13	109.59
2	BP	50	PRO	N-CA-C	5.87	120.07	111.03
2	Bw	129	VAL	N-CA-C	5.87	114.29	107.89
3	CL	178	ASN	CB-CA-C	-5.87	100.43	110.24
3	CT	178	ASN	CB-CA-C	-5.87	100.44	110.24
3	CX	178	ASN	CB-CA-C	-5.87	100.44	110.24
3	Cu	178	ASN	CB-CA-C	-5.87	100.44	110.24
1	A5	178	THR	N-CA-C	-5.87	100.27	109.25
2	Bp	129	VAL	N-CA-C	5.87	114.29	107.89
3	CU	178	ASN	CB-CA-C	-5.87	100.44	110.24
1	A0	121	LEU	N-CA-C	-5.87	100.14	109.59
1	Af	121	LEU	N-CA-C	-5.87	100.14	109.59
2	BG	129	VAL	N-CA-C	5.87	114.28	107.89
2	Bs	129	VAL	N-CA-C	5.87	114.28	107.89
3	CH	178	ASN	CB-CA-C	-5.87	100.44	110.24
1	A6	121	LEU	N-CA-C	-5.86	100.15	109.59
2	BW	50	PRO	N-CA-C	5.86	120.06	111.03
3	Cc	178	ASN	CB-CA-C	-5.86	100.45	110.24
2	B2	129	VAL	N-CA-C	5.86	114.28	107.89
3	Ce	178	ASN	CB-CA-C	-5.86	100.45	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B5	129	VAL	N-CA-C	5.86	114.28	107.89
3	Cw	192	THR	N-CA-C	-5.86	100.63	109.95
2	BC	129	VAL	N-CA-C	5.86	114.28	107.89
2	Bk	129	VAL	N-CA-C	5.86	114.28	107.89
1	DK	121	LEU	N-CA-C	-5.86	100.16	109.59
1	AU	121	LEU	N-CA-C	-5.86	100.16	109.59
2	Bf	129	VAL	N-CA-C	5.86	114.28	107.89
3	Cf	192	THR	N-CA-C	-5.86	100.64	109.95
3	Cp	178	ASN	CB-CA-C	-5.86	100.46	110.24
1	AL	121	LEU	N-CA-C	-5.86	100.16	109.59
2	BK	129	VAL	N-CA-C	5.86	114.27	107.89
2	B6	129	VAL	N-CA-C	5.86	114.27	107.89
3	CN	158	VAL	N-CA-C	-5.86	101.84	107.76
3	CQ	192	THR	N-CA-C	-5.86	100.64	109.95
3	CV	178	ASN	CB-CA-C	-5.86	100.46	110.24
3	DB	178	ASN	CB-CA-C	-5.86	100.46	110.24
1	AZ	121	LEU	N-CA-C	-5.85	100.16	109.59
3	C0	178	ASN	CB-CA-C	-5.85	100.46	110.24
1	AH	121	LEU	N-CA-C	-5.85	100.17	109.59
1	AS	121	LEU	N-CA-C	-5.85	100.17	109.59
2	BL	129	VAL	N-CA-C	5.85	114.27	107.89
2	BT	129	VAL	N-CA-C	5.85	114.27	107.89
2	BY	129	VAL	N-CA-C	5.85	114.27	107.89
2	BZ	129	VAL	N-CA-C	5.85	114.27	107.89
2	Bt	129	VAL	N-CA-C	5.85	114.27	107.89
3	Cp	158	VAL	N-CA-C	-5.85	101.85	107.76
1	DH	121	LEU	N-CA-C	-5.85	100.17	109.59
3	Ce	36	VAL	CA-C-N	5.85	125.82	120.03
3	Ce	36	VAL	C-N-CA	5.85	125.82	120.03
3	Cg	178	ASN	CB-CA-C	-5.85	100.47	110.24
3	Cn	178	ASN	CB-CA-C	-5.85	100.47	110.24
1	AV	121	LEU	N-CA-C	-5.85	100.17	109.59
3	C0	192	THR	N-CA-C	-5.85	100.65	109.95
3	Cj	178	ASN	CB-CA-C	-5.85	100.47	110.24
3	Co	178	ASN	CB-CA-C	-5.85	100.47	110.24
3	Cs	192	THR	N-CA-C	-5.85	100.65	109.95
3	Ct	158	VAL	N-CA-C	-5.85	101.85	107.76
1	AD	121	LEU	N-CA-C	-5.85	100.17	109.59
1	AE	121	LEU	N-CA-C	-5.85	100.18	109.59
1	AG	121	LEU	N-CA-C	-5.85	100.17	109.59
2	B1	129	VAL	N-CA-C	5.85	114.26	107.89
2	B3	129	VAL	N-CA-C	5.85	114.26	107.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bg	129	VAL	N-CA-C	5.85	114.26	107.89
2	Bm	129	VAL	N-CA-C	5.85	114.26	107.89
3	CF	192	THR	N-CA-C	-5.85	100.65	109.95
3	CK	178	ASN	CB-CA-C	-5.85	100.47	110.24
3	C3	178	ASN	CB-CA-C	-5.85	100.47	110.24
3	C7	178	ASN	CB-CA-C	-5.85	100.47	110.24
1	DD	121	LEU	N-CA-C	-5.85	100.17	109.59
1	AB	121	LEU	N-CA-C	-5.85	100.18	109.59
1	AQ	178	THR	N-CA-C	-5.85	100.31	109.25
2	BB	129	VAL	N-CA-C	5.85	114.26	107.89
3	Cm	178	ASN	CB-CA-C	-5.85	100.48	110.24
1	AZ	240	PRO	N-CA-C	-5.84	102.09	111.38
3	CA	178	ASN	CB-CA-C	-5.84	100.48	110.24
3	CF	178	ASN	CB-CA-C	-5.84	100.48	110.24
3	CG	178	ASN	CB-CA-C	-5.84	100.48	110.24
3	Ci	192	THR	N-CA-C	-5.84	100.66	109.95
1	AR	121	LEU	N-CA-C	-5.84	100.18	109.59
2	BF	129	VAL	N-CA-C	5.84	114.26	107.89
3	C6	178	ASN	CB-CA-C	-5.84	100.48	110.24
2	BD	129	VAL	N-CA-C	5.84	114.26	107.89
2	B4	129	VAL	N-CA-C	5.84	114.26	107.89
2	Bd	129	VAL	N-CA-C	5.84	114.26	107.89
2	Br	50	PRO	N-CA-C	5.84	120.03	111.03
3	CC	178	ASN	CB-CA-C	-5.84	100.49	110.24
3	CY	178	ASN	CB-CA-C	-5.84	100.49	110.24
2	Bb	129	VAL	N-CA-C	5.84	114.26	107.89
3	CO	178	ASN	CB-CA-C	-5.84	100.49	110.24
3	CQ	158	VAL	N-CA-C	-5.84	101.86	107.76
3	C3	192	THR	N-CA-C	-5.84	100.67	109.95
3	Cd	192	THR	N-CA-C	-5.84	100.66	109.95
3	Cf	178	ASN	CB-CA-C	-5.84	100.49	110.24
3	Cg	192	THR	N-CA-C	-5.84	100.67	109.95
3	Cw	178	ASN	CB-CA-C	-5.84	100.49	110.24
3	Cx	178	ASN	CB-CA-C	-5.84	100.49	110.24
1	A3	121	LEU	N-CA-C	-5.84	100.19	109.59
1	Ah	121	LEU	N-CA-C	-5.84	100.19	109.59
3	CS	158	VAL	N-CA-C	-5.84	101.86	107.76
3	CS	178	ASN	CB-CA-C	-5.84	100.49	110.24
3	C7	158	VAL	N-CA-C	-5.84	101.86	107.76
1	AQ	121	LEU	N-CA-C	-5.84	100.19	109.59
1	Aa	121	LEU	N-CA-C	-5.84	100.19	109.59
1	Af	178	THR	N-CA-C	-5.84	100.32	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CN	178	ASN	CB-CA-C	-5.84	100.49	110.24
3	C4	178	ASN	CB-CA-C	-5.84	100.49	110.24
1	DE	121	LEU	N-CA-C	-5.84	100.19	109.59
3	CM	178	ASN	CB-CA-C	-5.83	100.50	110.24
3	C6	192	THR	N-CA-C	-5.83	100.67	109.95
1	AI	121	LEU	N-CA-C	-5.83	100.20	109.59
1	AK	121	LEU	N-CA-C	-5.83	100.20	109.59
3	CD	178	ASN	CB-CA-C	-5.83	100.50	110.24
3	C2	192	THR	N-CA-C	-5.83	100.67	109.95
3	Ch	178	ASN	CB-CA-C	-5.83	100.50	110.24
3	Cq	178	ASN	CB-CA-C	-5.83	100.50	110.24
3	Cd	178	ASN	CB-CA-C	-5.83	100.50	110.24
3	Cw	158	VAL	N-CA-C	-5.83	101.87	107.76
1	A4	121	LEU	N-CA-C	-5.83	100.20	109.59
3	CZ	178	ASN	CB-CA-C	-5.83	100.50	110.24
1	DC	121	LEU	N-CA-C	-5.83	100.20	109.59
1	Ao	121	LEU	N-CA-C	-5.83	100.20	109.59
2	BI	129	VAL	N-CA-C	5.83	114.24	107.89
2	BM	129	VAL	N-CA-C	5.83	114.24	107.89
3	CK	192	THR	N-CA-C	-5.83	100.68	109.95
3	CP	36	VAL	CA-C-N	5.83	125.80	120.03
3	CP	36	VAL	C-N-CA	5.83	125.80	120.03
3	Cv	178	ASN	CB-CA-C	-5.83	100.51	110.24
1	DG	240	PRO	N-CA-C	-5.83	102.11	111.38
1	A7	121	LEU	N-CA-C	-5.83	100.21	109.59
1	Ae	121	LEU	N-CA-C	-5.83	100.21	109.59
1	Ak	121	LEU	N-CA-C	-5.83	100.21	109.59
3	CI	158	VAL	N-CA-C	-5.83	101.88	107.76
3	C8	178	ASN	CB-CA-C	-5.83	100.51	110.24
3	Ci	158	VAL	N-CA-C	-5.83	101.88	107.76
1	A2	121	LEU	N-CA-C	-5.83	100.21	109.59
1	Ac	121	LEU	N-CA-C	-5.83	100.21	109.59
2	BU	129	VAL	N-CA-C	5.83	114.24	107.89
2	Bl	129	VAL	N-CA-C	5.83	114.24	107.89
3	CX	192	THR	N-CA-C	-5.83	100.69	109.95
3	C1	178	ASN	CB-CA-C	-5.83	100.51	110.24
1	AP	121	LEU	N-CA-C	-5.82	100.22	109.59
1	AT	121	LEU	N-CA-C	-5.82	100.21	109.59
1	AY	121	LEU	N-CA-C	-5.82	100.21	109.59
3	CB	192	THR	N-CA-C	-5.82	100.69	109.95
3	CS	192	THR	N-CA-C	-5.82	100.69	109.95
3	Cs	178	ASN	CB-CA-C	-5.82	100.52	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ct	178	ASN	CB-CA-C	-5.82	100.52	110.24
1	DG	121	LEU	N-CA-C	-5.82	100.21	109.59
2	BH	129	VAL	N-CA-C	5.82	114.23	107.89
3	CJ	178	ASN	CB-CA-C	-5.82	100.52	110.24
3	CL	192	THR	N-CA-C	-5.82	100.69	109.95
1	DF	121	LEU	N-CA-C	-5.82	100.22	109.59
1	A8	121	LEU	N-CA-C	-5.82	100.22	109.59
2	BS	129	VAL	N-CA-C	5.82	114.23	107.89
2	B0	129	VAL	N-CA-C	5.82	114.23	107.89
2	Bq	129	VAL	N-CA-C	5.82	114.23	107.89
3	CE	178	ASN	CB-CA-C	-5.82	100.52	110.24
3	CM	192	THR	N-CA-C	-5.82	100.69	109.95
3	C2	178	ASN	CB-CA-C	-5.82	100.52	110.24
3	C5	192	THR	N-CA-C	-5.82	100.70	109.95
3	Cl	192	THR	N-CA-C	-5.82	100.70	109.95
3	Cu	192	THR	N-CA-C	-5.82	100.69	109.95
3	Cv	192	THR	N-CA-C	-5.82	100.69	109.95
3	Cx	192	THR	N-CA-C	-5.82	100.69	109.95
1	A1	121	LEU	N-CA-C	-5.82	100.22	109.59
1	A9	121	LEU	N-CA-C	-5.82	100.22	109.59
3	CG	192	THR	N-CA-C	-5.82	100.70	109.95
3	CH	192	THR	N-CA-C	-5.82	100.70	109.95
3	CN	192	THR	N-CA-C	-5.82	100.70	109.95
3	CV	192	THR	N-CA-C	-5.82	100.70	109.95
3	Co	36	VAL	CA-C-N	5.82	125.79	120.03
3	Co	36	VAL	C-N-CA	5.82	125.79	120.03
2	BW	129	VAL	N-CA-C	5.82	114.23	107.89
3	CO	192	THR	N-CA-C	-5.82	100.70	109.95
3	CR	192	THR	N-CA-C	-5.82	100.70	109.95
3	CW	178	ASN	CB-CA-C	-5.82	100.53	110.24
3	Cl	178	ASN	CB-CA-C	-5.82	100.53	110.24
3	Cr	192	THR	N-CA-C	-5.82	100.70	109.95
1	AA	121	LEU	N-CA-C	-5.82	100.23	109.59
1	AC	121	LEU	N-CA-C	-5.82	100.23	109.59
3	CR	178	ASN	CB-CA-C	-5.82	100.53	110.24
3	C4	192	THR	N-CA-C	-5.82	100.70	109.95
1	AF	121	LEU	N-CA-C	-5.81	100.23	109.59
3	CJ	192	THR	N-CA-C	-5.81	100.71	109.95
3	Cp	192	THR	N-CA-C	-5.81	100.71	109.95
3	DA	192	THR	N-CA-C	-5.81	100.71	109.95
3	CD	36	VAL	CA-C-N	5.81	125.78	120.03
3	CD	36	VAL	C-N-CA	5.81	125.78	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CX	36	VAL	CA-C-N	5.81	125.78	120.03
3	CX	36	VAL	C-N-CA	5.81	125.78	120.03
3	C9	192	THR	N-CA-C	-5.81	100.71	109.95
3	Cn	192	THR	N-CA-C	-5.81	100.71	109.95
1	AN	121	LEU	N-CA-C	-5.81	100.23	109.59
1	Ao	240	PRO	N-CA-C	-5.81	102.14	111.38
3	CI	192	THR	N-CA-C	-5.81	100.71	109.95
3	C9	36	VAL	CA-C-N	5.81	125.78	120.03
3	C9	36	VAL	C-N-CA	5.81	125.78	120.03
3	Ck	192	THR	N-CA-C	-5.81	100.71	109.95
1	Ab	121	LEU	N-CA-C	-5.81	100.24	109.59
1	Ae	240	PRO	N-CA-C	-5.81	102.15	111.38
2	Ba	129	VAL	N-CA-C	5.81	114.22	107.89
3	CE	192	THR	N-CA-C	-5.81	100.72	109.95
3	CK	158	VAL	N-CA-C	-5.81	101.89	107.76
3	C2	158	VAL	N-CA-C	-5.81	101.89	107.76
3	Cq	192	THR	N-CA-C	-5.81	100.72	109.95
1	Ad	121	LEU	N-CA-C	-5.80	100.24	109.59
1	Am	121	LEU	N-CA-C	-5.80	100.24	109.59
3	CC	192	THR	N-CA-C	-5.80	100.72	109.95
3	CI	178	ASN	CB-CA-C	-5.80	100.55	110.24
3	Cm	192	THR	N-CA-C	-5.80	100.72	109.95
1	AX	121	LEU	N-CA-C	-5.80	100.25	109.59
3	CT	192	THR	N-CA-C	-5.80	100.72	109.95
3	CY	192	THR	N-CA-C	-5.80	100.72	109.95
3	C1	192	THR	N-CA-C	-5.80	100.72	109.95
3	Ci	178	ASN	CB-CA-C	-5.80	100.55	110.24
1	AJ	121	LEU	N-CA-C	-5.80	100.25	109.59
1	Ai	121	LEU	N-CA-C	-5.80	100.25	109.59
3	CY	158	VAL	N-CA-C	-5.80	101.90	107.76
3	Ct	36	VAL	CA-C-N	5.80	125.77	120.03
3	Ct	36	VAL	C-N-CA	5.80	125.77	120.03
3	DA	158	VAL	N-CA-C	-5.80	101.90	107.76
1	AK	240	PRO	N-CA-C	-5.80	102.16	111.38
1	AO	121	LEU	N-CA-C	-5.80	100.25	109.59
1	An	121	LEU	N-CA-C	-5.80	100.25	109.59
2	Be	129	VAL	N-CA-C	5.80	114.21	107.89
3	CU	192	THR	N-CA-C	-5.80	100.73	109.95
3	CZ	192	THR	N-CA-C	-5.80	100.73	109.95
3	CZ	36	VAL	CA-C-N	5.80	125.77	120.03
3	CZ	36	VAL	C-N-CA	5.80	125.77	120.03
1	A7	40	VAL	N-CA-C	-5.80	100.13	108.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CD	158	VAL	N-CA-C	-5.80	101.91	107.76
3	CR	158	VAL	N-CA-C	-5.80	101.91	107.76
3	C7	192	THR	N-CA-C	-5.80	100.73	109.95
3	Ch	192	THR	N-CA-C	-5.80	100.73	109.95
1	DK	40	VAL	N-CA-C	-5.80	100.12	108.53
3	Cr	178	ASN	CB-CA-C	-5.79	100.56	110.24
3	CA	192	THR	N-CA-C	-5.79	100.74	109.95
1	AG	240	PRO	N-CA-C	-5.79	102.17	111.38
1	AB	240	PRO	N-CA-C	-5.79	102.17	111.38
3	Cc	192	THR	N-CA-C	-5.79	100.75	109.95
3	CK	36	VAL	CA-C-N	5.79	125.76	120.03
3	CK	36	VAL	C-N-CA	5.79	125.76	120.03
3	CA	36	VAL	CA-C-N	5.79	125.76	120.03
3	CA	36	VAL	C-N-CA	5.79	125.76	120.03
3	Cr	158	VAL	N-CA-C	-5.79	101.92	107.76
1	Ac	40	VAL	N-CA-C	-5.78	100.14	108.53
3	CB	158	VAL	N-CA-C	-5.78	101.92	107.76
3	CU	158	VAL	N-CA-C	-5.78	101.92	107.76
1	DE	40	VAL	N-CA-C	-5.78	100.14	108.53
3	CP	158	VAL	N-CA-C	-5.78	101.92	107.76
1	AE	40	VAL	N-CA-C	-5.78	100.15	108.53
1	AJ	40	VAL	N-CA-C	-5.78	100.15	108.53
1	AQ	40	VAL	N-CA-C	-5.78	100.15	108.53
1	A4	240	PRO	N-CA-C	-5.78	102.19	111.38
1	Aj	40	VAL	N-CA-C	-5.78	100.15	108.53
2	BV	129	VAL	N-CA-C	5.78	114.19	107.89
2	Bu	129	VAL	N-CA-C	5.78	114.19	107.89
3	CA	158	VAL	N-CA-C	-5.78	101.92	107.76
3	CG	158	VAL	N-CA-C	-5.78	101.92	107.76
3	CW	192	THR	N-CA-C	-5.78	100.76	109.95
3	Cj	36	VAL	CA-C-N	5.78	125.75	120.03
3	Cj	36	VAL	C-N-CA	5.78	125.75	120.03
3	DB	192	THR	N-CA-C	-5.78	100.76	109.95
1	AL	240	PRO	N-CA-C	-5.78	102.20	111.38
1	AO	40	VAL	N-CA-C	-5.78	100.16	108.53
1	AV	240	PRO	N-CA-C	-5.78	102.20	111.38
1	A3	240	PRO	N-CA-C	-5.78	102.20	111.38
1	Ab	240	PRO	N-CA-C	-5.78	102.20	111.38
1	Aj	240	PRO	N-CA-C	-5.78	102.20	111.38
3	CD	192	THR	N-CA-C	-5.78	100.77	109.95
3	Cj	192	THR	N-CA-C	-5.78	100.77	109.95
1	A9	240	PRO	N-CA-C	-5.77	102.20	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CJ	36	VAL	CA-C-N	5.77	125.75	120.03
3	CJ	36	VAL	C-N-CA	5.77	125.75	120.03
3	Cg	158	VAL	N-CA-C	-5.77	101.93	107.76
3	Co	192	THR	N-CA-C	-5.77	100.77	109.95
3	Cp	36	VAL	CA-C-N	5.77	125.75	120.03
3	Cp	36	VAL	C-N-CA	5.77	125.75	120.03
3	Cu	158	VAL	N-CA-C	-5.77	101.93	107.76
3	C2	36	VAL	CA-C-N	5.77	125.74	120.03
3	C2	36	VAL	C-N-CA	5.77	125.74	120.03
3	C7	36	VAL	CA-C-N	5.77	125.74	120.03
3	C7	36	VAL	C-N-CA	5.77	125.74	120.03
1	DD	240	PRO	N-CA-C	-5.77	102.21	111.38
1	AF	240	PRO	N-CA-C	-5.77	102.21	111.38
1	An	240	PRO	N-CA-C	-5.77	102.21	111.38
1	Ao	40	VAL	N-CA-C	-5.77	100.17	108.53
3	CH	36	VAL	CA-C-N	5.77	125.74	120.03
3	CH	36	VAL	C-N-CA	5.77	125.74	120.03
3	CL	158	VAL	N-CA-C	-5.77	101.94	107.76
3	C6	36	VAL	CA-C-N	5.77	125.74	120.03
3	C6	36	VAL	C-N-CA	5.77	125.74	120.03
3	Ce	192	THR	N-CA-C	-5.77	100.78	109.95
2	BN	129	VAL	N-CA-C	5.77	114.17	107.89
3	C1	158	VAL	N-CA-C	-5.77	101.94	107.76
1	AB	40	VAL	N-CA-C	-5.76	100.17	108.53
1	Af	240	PRO	N-CA-C	-5.76	102.22	111.38
3	Cf	158	VAL	N-CA-C	-5.76	101.94	107.76
3	Cv	158	VAL	N-CA-C	-5.76	101.94	107.76
1	DC	240	PRO	N-CA-C	-5.76	102.21	111.38
1	AC	240	PRO	N-CA-C	-5.76	102.22	111.38
1	A8	40	VAL	N-CA-C	-5.76	100.17	108.53
3	CV	158	VAL	N-CA-C	-5.76	101.94	107.76
1	A3	40	VAL	N-CA-C	-5.76	100.18	108.53
3	CP	192	THR	N-CA-C	-5.76	100.79	109.95
3	CS	36	VAL	CA-C-N	5.76	125.73	120.03
3	CS	36	VAL	C-N-CA	5.76	125.73	120.03
3	Cw	36	VAL	CA-C-N	5.76	125.73	120.03
3	Cw	36	VAL	C-N-CA	5.76	125.73	120.03
1	AM	240	PRO	N-CA-C	-5.76	102.22	111.38
3	CF	36	VAL	CA-C-N	5.76	125.73	120.03
3	CF	36	VAL	C-N-CA	5.76	125.73	120.03
1	DI	240	PRO	N-CA-C	-5.76	102.22	111.38
1	AO	240	PRO	N-CA-C	-5.76	102.22	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AU	240	PRO	N-CA-C	-5.76	102.22	111.38
3	Cc	36	VAL	CA-C-N	5.76	125.73	120.03
3	Cc	36	VAL	C-N-CA	5.76	125.73	120.03
1	DC	40	VAL	N-CA-C	-5.76	100.18	108.53
1	Ae	40	VAL	N-CA-C	-5.76	100.18	108.53
3	CC	158	VAL	N-CA-C	-5.76	101.94	107.76
3	CT	158	VAL	N-CA-C	-5.76	101.95	107.76
1	DD	40	VAL	N-CA-C	-5.76	100.18	108.53
1	AP	240	PRO	N-CA-C	-5.75	102.23	111.38
1	AQ	240	PRO	N-CA-C	-5.75	102.23	111.38
1	A6	20	SER	CA-C-N	5.75	127.03	119.84
1	A6	20	SER	C-N-CA	5.75	127.03	119.84
3	C3	36	VAL	CA-C-N	5.75	125.73	120.03
3	C3	36	VAL	C-N-CA	5.75	125.73	120.03
3	C4	18	VAL	CB-CA-C	-5.75	100.89	111.36
1	DH	40	VAL	N-CA-C	-5.75	100.19	108.53
1	AA	240	PRO	N-CA-C	-5.75	102.23	111.38
1	AP	40	VAL	N-CA-C	-5.75	100.19	108.53
1	AY	240	PRO	N-CA-C	-5.75	102.23	111.38
3	C4	36	VAL	CA-C-N	5.75	125.72	120.03
3	C4	36	VAL	C-N-CA	5.75	125.72	120.03
3	DB	158	VAL	N-CA-C	-5.75	101.95	107.76
1	DI	40	VAL	N-CA-C	-5.75	100.19	108.53
1	A8	240	PRO	N-CA-C	-5.75	102.23	111.38
1	Al	240	PRO	N-CA-C	-5.75	102.24	111.38
3	C8	192	THR	N-CA-C	-5.75	100.81	109.95
1	Am	40	VAL	N-CA-C	-5.75	100.19	108.53
3	CE	158	VAL	N-CA-C	-5.75	101.95	107.76
3	DA	36	VAL	CA-C-N	5.75	125.72	120.03
3	DA	36	VAL	C-N-CA	5.75	125.72	120.03
1	DJ	240	PRO	N-CA-C	-5.75	102.24	111.38
1	AH	240	PRO	N-CA-C	-5.75	102.24	111.38
1	AK	40	VAL	N-CA-C	-5.75	100.20	108.53
1	AR	240	PRO	N-CA-C	-5.75	102.24	111.38
1	A0	240	PRO	N-CA-C	-5.75	102.24	111.38
1	Ac	240	PRO	N-CA-C	-5.75	102.24	111.38
1	Ad	240	PRO	N-CA-C	-5.75	102.24	111.38
1	Ai	40	VAL	N-CA-C	-5.75	100.20	108.53
1	Ak	240	PRO	N-CA-C	-5.75	102.24	111.38
3	CJ	158	VAL	N-CA-C	-5.75	101.96	107.76
3	CU	36	VAL	CA-C-N	5.75	125.72	120.03
3	CU	36	VAL	C-N-CA	5.75	125.72	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	240	PRO	N-CA-C	-5.74	102.25	111.38
1	Aa	40	VAL	N-CA-C	-5.74	100.20	108.53
3	C1	36	VAL	CA-C-N	5.74	125.72	120.03
3	C1	36	VAL	C-N-CA	5.74	125.72	120.03
3	Cu	36	VAL	CA-C-N	5.74	125.72	120.03
3	Cu	36	VAL	C-N-CA	5.74	125.72	120.03
1	DJ	40	VAL	N-CA-C	-5.74	100.20	108.53
1	A2	240	PRO	N-CA-C	-5.74	102.25	111.38
1	AF	40	VAL	N-CA-C	-5.74	100.20	108.53
1	AU	40	VAL	N-CA-C	-5.74	100.21	108.53
1	AX	40	VAL	N-CA-C	-5.74	100.21	108.53
1	A0	40	VAL	N-CA-C	-5.74	100.21	108.53
3	Ci	36	VAL	CA-C-N	5.74	125.71	120.03
3	Ci	36	VAL	C-N-CA	5.74	125.71	120.03
1	AJ	240	PRO	N-CA-C	-5.74	102.25	111.38
1	Aa	240	PRO	N-CA-C	-5.74	102.26	111.38
1	An	40	VAL	N-CA-C	-5.74	100.21	108.53
3	CN	36	VAL	CA-C-N	5.74	125.71	120.03
3	CN	36	VAL	C-N-CA	5.74	125.71	120.03
1	A2	40	VAL	N-CA-C	-5.74	100.21	108.53
3	CQ	36	VAL	CA-C-N	5.74	125.71	120.03
3	CQ	36	VAL	C-N-CA	5.74	125.71	120.03
3	Cf	36	VAL	CA-C-N	5.74	125.71	120.03
3	Cf	36	VAL	C-N-CA	5.74	125.71	120.03
3	DB	36	VAL	CA-C-N	5.74	125.71	120.03
3	DB	36	VAL	C-N-CA	5.74	125.71	120.03
1	AD	240	PRO	N-CA-C	-5.74	102.26	111.38
1	Ad	40	VAL	N-CA-C	-5.74	100.21	108.53
1	Ah	40	VAL	N-CA-C	-5.74	100.21	108.53
3	CH	158	VAL	N-CA-C	-5.74	101.97	107.76
3	CI	36	VAL	CA-C-N	5.74	125.71	120.03
3	CI	36	VAL	C-N-CA	5.74	125.71	120.03
3	Ct	192	THR	N-CA-C	-5.74	100.83	109.95
1	AG	40	VAL	N-CA-C	-5.73	100.22	108.53
1	A1	40	VAL	N-CA-C	-5.73	100.22	108.53
3	CO	158	VAL	N-CA-C	-5.73	101.97	107.76
1	DK	240	PRO	N-CA-C	-5.73	102.26	111.38
1	AI	240	PRO	N-CA-C	-5.73	102.26	111.38
1	AN	40	VAL	N-CA-C	-5.73	100.22	108.53
1	AW	240	PRO	N-CA-C	-5.73	102.27	111.38
1	Ak	40	VAL	N-CA-C	-5.73	100.22	108.53
3	CU	18	VAL	CB-CA-C	-5.73	100.92	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CW	36	VAL	CA-C-N	5.73	125.71	120.03
3	CW	36	VAL	C-N-CA	5.73	125.71	120.03
3	Cx	158	VAL	N-CA-C	-5.73	101.97	107.76
1	Am	240	PRO	N-CA-C	-5.73	102.27	111.38
3	CV	36	VAL	CA-C-N	5.73	125.70	120.03
3	CV	36	VAL	C-N-CA	5.73	125.70	120.03
1	AW	40	VAL	N-CA-C	-5.73	100.22	108.53
3	CR	18	VAL	CB-CA-C	-5.73	100.93	111.36
1	AT	40	VAL	N-CA-C	-5.73	100.22	108.53
1	AY	20	SER	CA-C-N	5.73	127.00	119.84
1	AY	20	SER	C-N-CA	5.73	127.00	119.84
1	A5	40	VAL	N-CA-C	-5.73	100.23	108.53
3	CW	18	VAL	CB-CA-C	-5.73	100.93	111.36
3	C3	158	VAL	N-CA-C	-5.73	101.97	107.76
3	Cl	158	VAL	N-CA-C	-5.73	101.97	107.76
1	AL	40	VAL	N-CA-C	-5.73	100.23	108.53
1	A1	240	PRO	N-CA-C	-5.73	102.28	111.38
3	C8	36	VAL	CA-C-N	5.73	125.70	120.03
3	C8	36	VAL	C-N-CA	5.73	125.70	120.03
1	DF	40	VAL	N-CA-C	-5.73	100.23	108.53
1	AX	240	PRO	N-CA-C	-5.72	102.28	111.38
1	AZ	40	VAL	N-CA-C	-5.72	100.23	108.53
1	A6	240	PRO	N-CA-C	-5.72	102.28	111.38
1	Ag	40	VAL	N-CA-C	-5.72	100.23	108.53
1	Al	40	VAL	N-CA-C	-5.72	100.23	108.53
3	CM	36	VAL	CA-C-N	5.72	125.70	120.03
3	CM	36	VAL	C-N-CA	5.72	125.70	120.03
3	Ch	36	VAL	CA-C-N	5.72	125.70	120.03
3	Ch	36	VAL	C-N-CA	5.72	125.70	120.03
1	DD	42	THR	N-CA-C	-5.72	98.96	108.75
1	DF	240	PRO	N-CA-C	-5.72	102.28	111.38
1	AA	40	VAL	N-CA-C	-5.72	100.23	108.53
1	A4	40	VAL	N-CA-C	-5.72	100.23	108.53
1	A5	240	PRO	N-CA-C	-5.72	102.28	111.38
3	Cd	158	VAL	N-CA-C	-5.72	101.98	107.76
3	Cm	36	VAL	CA-C-N	5.72	125.70	120.03
3	Cm	36	VAL	C-N-CA	5.72	125.70	120.03
1	AC	40	VAL	N-CA-C	-5.72	100.23	108.53
1	AY	40	VAL	N-CA-C	-5.72	100.23	108.53
1	A3	20	SER	CA-C-N	5.72	126.99	119.84
1	A3	20	SER	C-N-CA	5.72	126.99	119.84
3	C0	36	VAL	CA-C-N	5.72	125.69	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C0	36	VAL	C-N-CA	5.72	125.69	120.03
3	Cq	18	VAL	CB-CA-C	-5.72	100.95	111.36
1	DH	42	THR	N-CA-C	-5.72	98.97	108.75
1	DH	240	PRO	N-CA-C	-5.72	102.28	111.38
1	AN	240	PRO	N-CA-C	-5.72	102.28	111.38
1	AR	40	VAL	N-CA-C	-5.72	100.24	108.53
1	A6	40	VAL	N-CA-C	-5.72	100.24	108.53
1	Ah	240	PRO	N-CA-C	-5.72	102.29	111.38
3	CZ	18	VAL	CB-CA-C	-5.72	100.95	111.36
3	CA	18	VAL	CB-CA-C	-5.72	100.95	111.36
3	Cl	18	VAL	CB-CA-C	-5.72	100.95	111.36
1	A9	40	VAL	N-CA-C	-5.72	100.24	108.53
3	CT	36	VAL	CA-C-N	5.72	125.69	120.03
3	CT	36	VAL	C-N-CA	5.72	125.69	120.03
1	DG	40	VAL	N-CA-C	-5.72	100.24	108.53
1	AS	40	VAL	N-CA-C	-5.71	100.24	108.53
1	AS	240	PRO	N-CA-C	-5.71	102.30	111.38
1	AT	240	PRO	N-CA-C	-5.71	102.30	111.38
3	C9	18	VAL	CB-CA-C	-5.71	100.96	111.36
3	Ct	18	VAL	CB-CA-C	-5.71	100.96	111.36
3	DB	18	VAL	CB-CA-C	-5.71	100.96	111.36
3	DA	18	VAL	CB-CA-C	-5.71	100.96	111.36
1	DF	20	SER	CA-C-N	5.71	126.98	119.84
1	DF	20	SER	C-N-CA	5.71	126.98	119.84
1	AH	40	VAL	N-CA-C	-5.71	100.25	108.53
1	Ag	42	THR	N-CA-C	-5.71	98.98	108.75
3	CE	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	CK	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	CM	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	CP	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	C1	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	Cc	18	VAL	CB-CA-C	-5.71	100.96	111.36
3	Cf	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	Cx	18	VAL	CB-CA-C	-5.71	100.97	111.36
1	Ag	240	PRO	N-CA-C	-5.71	102.30	111.38
3	CH	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	Co	13	SER	N-CA-C	5.71	117.43	110.41
1	Ai	240	PRO	N-CA-C	-5.71	102.30	111.38
3	CL	36	VAL	CA-C-N	5.71	125.68	120.03
3	CL	36	VAL	C-N-CA	5.71	125.68	120.03
1	AD	40	VAL	N-CA-C	-5.71	100.26	108.53
1	A7	240	PRO	N-CA-C	-5.71	102.31	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C6	18	VAL	CB-CA-C	-5.71	100.97	111.36
3	CJ	18	VAL	CB-CA-C	-5.71	100.98	111.36
3	Cj	18	VAL	CB-CA-C	-5.71	100.98	111.36
1	DE	240	PRO	N-CA-C	-5.71	102.31	111.38
1	AI	40	VAL	N-CA-C	-5.70	100.26	108.53
1	AT	42	THR	N-CA-C	-5.70	99.00	108.75
3	CB	36	VAL	CA-C-N	5.70	125.68	120.03
3	CB	36	VAL	C-N-CA	5.70	125.68	120.03
3	CC	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	CD	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	CF	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	Co	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	CG	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	CY	36	VAL	CA-C-N	5.70	125.67	120.03
3	CY	36	VAL	C-N-CA	5.70	125.67	120.03
3	Cn	36	VAL	CA-C-N	5.70	125.67	120.03
3	Cn	36	VAL	C-N-CA	5.70	125.67	120.03
3	Cp	18	VAL	CB-CA-C	-5.70	100.98	111.36
1	DC	42	THR	N-CA-C	-5.70	99.00	108.75
1	AA	20	SER	CA-C-N	5.70	126.97	119.84
1	AA	20	SER	C-N-CA	5.70	126.97	119.84
1	AE	42	THR	N-CA-C	-5.70	99.00	108.75
1	Ag	20	SER	CA-C-N	5.70	126.97	119.84
1	Ag	20	SER	C-N-CA	5.70	126.97	119.84
3	CL	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	C8	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	Ce	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	Ck	18	VAL	CB-CA-C	-5.70	100.98	111.36
3	Ck	36	VAL	CA-C-N	5.70	125.67	120.03
3	Ck	36	VAL	C-N-CA	5.70	125.67	120.03
3	Cw	18	VAL	CB-CA-C	-5.70	100.98	111.36
1	AS	42	THR	N-CA-C	-5.70	99.01	108.75
1	AL	42	THR	N-CA-C	-5.70	99.01	108.75
3	CQ	18	VAL	CB-CA-C	-5.70	100.99	111.36
1	A0	42	THR	N-CA-C	-5.70	99.01	108.75
1	Ah	42	THR	N-CA-C	-5.70	99.01	108.75
3	Cm	18	VAL	CB-CA-C	-5.70	100.99	111.36
3	Cx	36	VAL	CA-C-N	5.70	125.67	120.03
3	Cx	36	VAL	C-N-CA	5.70	125.67	120.03
1	AF	42	THR	N-CA-C	-5.69	99.01	108.75
3	Cd	36	VAL	CA-C-N	5.69	125.67	120.03
3	Cd	36	VAL	C-N-CA	5.69	125.67	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ch	18	VAL	CB-CA-C	-5.69	101.00	111.36
1	AM	40	VAL	N-CA-C	-5.69	100.28	108.53
1	AV	40	VAL	N-CA-C	-5.69	100.28	108.53
3	C3	18	VAL	CB-CA-C	-5.69	101.00	111.36
3	Cd	18	VAL	CB-CA-C	-5.69	101.00	111.36
3	Cg	18	VAL	CB-CA-C	-5.69	101.00	111.36
1	Al	42	THR	N-CA-C	-5.69	99.02	108.75
3	CN	18	VAL	CB-CA-C	-5.69	101.00	111.36
3	Cq	36	VAL	CA-C-N	5.69	125.66	120.03
3	Cq	36	VAL	C-N-CA	5.69	125.66	120.03
3	Cs	36	VAL	CA-C-N	5.69	125.66	120.03
3	Cs	36	VAL	C-N-CA	5.69	125.66	120.03
1	Ab	40	VAL	N-CA-C	-5.69	100.28	108.53
3	CR	36	VAL	CA-C-N	5.69	125.66	120.03
3	CR	36	VAL	C-N-CA	5.69	125.66	120.03
1	AD	42	THR	N-CA-C	-5.69	99.02	108.75
1	AG	42	THR	N-CA-C	-5.69	99.03	108.75
1	AW	42	THR	N-CA-C	-5.69	99.02	108.75
1	A1	42	THR	N-CA-C	-5.69	99.02	108.75
3	CG	36	VAL	CA-C-N	5.69	125.66	120.03
3	CG	36	VAL	C-N-CA	5.69	125.66	120.03
3	Cs	18	VAL	CB-CA-C	-5.69	101.01	111.36
1	Am	42	THR	N-CA-C	-5.69	99.03	108.75
1	Ao	42	THR	N-CA-C	-5.69	99.03	108.75
3	Cn	18	VAL	CB-CA-C	-5.69	101.01	111.36
1	Ad	42	THR	N-CA-C	-5.68	99.03	108.75
1	Af	40	VAL	N-CA-C	-5.68	100.29	108.53
3	C2	18	VAL	CB-CA-C	-5.68	101.01	111.36
3	Cv	18	VAL	CB-CA-C	-5.68	101.01	111.36
3	Cv	36	VAL	CA-C-N	5.68	125.66	120.03
3	Cv	36	VAL	C-N-CA	5.68	125.66	120.03
1	AM	42	THR	N-CA-C	-5.68	99.03	108.75
3	CC	36	VAL	CA-C-N	5.68	125.66	120.03
3	CC	36	VAL	C-N-CA	5.68	125.66	120.03
3	CS	18	VAL	CB-CA-C	-5.68	101.02	111.36
3	CY	18	VAL	CB-CA-C	-5.68	101.02	111.36
1	AQ	42	THR	N-CA-C	-5.68	99.04	108.75
3	CE	36	VAL	CA-C-N	5.68	125.65	120.03
3	CE	36	VAL	C-N-CA	5.68	125.65	120.03
3	CR	13	SER	N-CA-C	5.68	117.40	110.41
1	AZ	42	THR	N-CA-C	-5.68	99.04	108.75
1	Aa	42	THR	N-CA-C	-5.68	99.04	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	An	20	SER	CA-C-N	5.68	126.94	119.84
1	An	20	SER	C-N-CA	5.68	126.94	119.84
3	CX	18	VAL	CB-CA-C	-5.68	101.03	111.36
3	C5	18	VAL	CB-CA-C	-5.68	101.02	111.36
3	Cr	36	VAL	CA-C-N	5.68	125.65	120.03
3	Cr	36	VAL	C-N-CA	5.68	125.65	120.03
1	DD	20	SER	CA-C-N	5.68	126.94	119.84
1	DD	20	SER	C-N-CA	5.68	126.94	119.84
1	DF	42	THR	N-CA-C	-5.68	99.04	108.75
1	DJ	42	THR	N-CA-C	-5.68	99.04	108.75
1	AR	20	SER	CA-C-N	5.68	126.94	119.84
1	AR	20	SER	C-N-CA	5.68	126.94	119.84
1	AR	42	THR	N-CA-C	-5.68	99.04	108.75
1	AV	42	THR	N-CA-C	-5.68	99.04	108.75
3	CM	13	SER	N-CA-C	5.68	117.39	110.41
3	CO	36	VAL	CA-C-N	5.68	125.65	120.03
3	CO	36	VAL	C-N-CA	5.68	125.65	120.03
3	C7	18	VAL	CB-CA-C	-5.68	101.03	111.36
3	Cl	36	VAL	CA-C-N	5.68	125.65	120.03
3	Cl	36	VAL	C-N-CA	5.68	125.65	120.03
3	Cr	18	VAL	CB-CA-C	-5.68	101.03	111.36
1	AH	42	THR	N-CA-C	-5.67	99.05	108.75
1	AU	134	ALA	N-CA-C	-5.67	106.71	113.97
1	Af	42	THR	N-CA-C	-5.67	99.05	108.75
3	CI	18	VAL	CB-CA-C	-5.67	101.03	111.36
3	CO	18	VAL	CB-CA-C	-5.67	101.03	111.36
3	Ck	13	SER	N-CA-C	5.67	117.39	110.41
3	Cu	18	VAL	CB-CA-C	-5.67	101.03	111.36
1	DG	42	THR	N-CA-C	-5.67	99.05	108.75
1	DI	42	THR	N-CA-C	-5.67	99.05	108.75
1	Ai	20	SER	CA-C-N	5.67	126.93	119.84
1	Ai	20	SER	C-N-CA	5.67	126.93	119.84
1	An	42	THR	N-CA-C	-5.67	99.05	108.75
1	A0	20	SER	CA-C-N	5.67	126.93	119.84
1	A0	20	SER	C-N-CA	5.67	126.93	119.84
1	A8	20	SER	CA-C-N	5.67	126.93	119.84
1	A8	20	SER	C-N-CA	5.67	126.93	119.84
1	Ai	42	THR	N-CA-C	-5.67	99.05	108.75
1	A6	42	THR	N-CA-C	-5.67	99.06	108.75
1	AB	42	THR	N-CA-C	-5.67	99.06	108.75
1	AN	42	THR	N-CA-C	-5.67	99.06	108.75
1	AY	42	THR	N-CA-C	-5.67	99.06	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ab	42	THR	N-CA-C	-5.67	99.06	108.75
1	Ae	42	THR	N-CA-C	-5.67	99.06	108.75
3	CV	18	VAL	CB-CA-C	-5.67	101.04	111.36
1	DE	20	SER	CA-C-N	5.67	126.93	119.84
1	DE	20	SER	C-N-CA	5.67	126.93	119.84
1	AC	42	THR	N-CA-C	-5.67	99.06	108.75
1	AX	42	THR	N-CA-C	-5.67	99.06	108.75
3	CB	18	VAL	CB-CA-C	-5.67	101.05	111.36
3	Cj	13	SER	N-CA-C	5.67	117.38	110.41
1	Ak	42	THR	N-CA-C	-5.67	99.06	108.75
3	C0	13	SER	N-CA-C	5.67	117.38	110.41
1	DK	20	SER	CA-C-N	5.67	126.92	119.84
1	DK	20	SER	C-N-CA	5.67	126.92	119.84
1	AF	20	SER	CA-C-N	5.66	126.92	119.84
1	AF	20	SER	C-N-CA	5.66	126.92	119.84
1	A2	42	THR	N-CA-C	-5.66	99.07	108.75
1	Aj	20	SER	CA-C-N	5.66	126.92	119.84
1	Aj	20	SER	C-N-CA	5.66	126.92	119.84
3	CW	13	SER	N-CA-C	5.66	117.38	110.41
3	Ci	18	VAL	CB-CA-C	-5.66	101.05	111.36
3	Ct	13	SER	N-CA-C	5.66	117.38	110.41
1	AI	42	THR	N-CA-C	-5.66	99.07	108.75
1	AZ	20	SER	CA-C-N	5.66	126.92	119.84
1	AZ	20	SER	C-N-CA	5.66	126.92	119.84
1	A3	42	THR	N-CA-C	-5.66	99.07	108.75
1	AA	42	THR	N-CA-C	-5.66	99.07	108.75
1	AM	20	SER	CA-C-N	5.66	126.92	119.84
1	AM	20	SER	C-N-CA	5.66	126.92	119.84
1	AO	42	THR	N-CA-C	-5.66	99.07	108.75
1	AT	20	SER	CA-C-N	5.66	126.92	119.84
1	AT	20	SER	C-N-CA	5.66	126.92	119.84
3	CF	13	SER	N-CA-C	5.66	117.37	110.41
3	C4	13	SER	N-CA-C	5.66	117.37	110.41
1	AO	20	SER	CA-C-N	5.66	126.91	119.84
1	AO	20	SER	C-N-CA	5.66	126.91	119.84
1	AS	20	SER	CA-C-N	5.66	126.91	119.84
1	AS	20	SER	C-N-CA	5.66	126.91	119.84
1	A5	24	MET	N-CA-C	5.66	119.76	112.86
1	A9	42	THR	N-CA-C	-5.66	99.07	108.75
3	CA	13	SER	N-CA-C	5.66	117.37	110.41
1	DJ	20	SER	CA-C-N	5.66	126.91	119.84
1	DJ	20	SER	C-N-CA	5.66	126.91	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CT	18	VAL	CB-CA-C	-5.66	101.06	111.36
1	AU	42	THR	N-CA-C	-5.66	99.08	108.75
2	BR	49	ASP	CB-CA-C	5.66	117.73	109.08
3	Cf	13	SER	N-CA-C	5.66	117.37	110.41
1	DE	42	THR	N-CA-C	-5.65	99.08	108.75
1	AL	20	SER	CA-C-N	5.65	126.91	119.84
1	AL	20	SER	C-N-CA	5.65	126.91	119.84
1	A4	42	THR	N-CA-C	-5.65	99.09	108.75
1	A7	20	SER	CA-C-N	5.65	126.91	119.84
1	A7	20	SER	C-N-CA	5.65	126.91	119.84
1	Aj	42	THR	N-CA-C	-5.65	99.08	108.75
3	CL	13	SER	N-CA-C	5.65	117.36	110.41
3	Cv	13	SER	N-CA-C	5.65	117.36	110.41
1	AJ	42	THR	N-CA-C	-5.65	99.09	108.75
1	AK	42	THR	N-CA-C	-5.65	99.09	108.75
1	AP	42	THR	N-CA-C	-5.65	99.09	108.75
1	A8	42	THR	N-CA-C	-5.65	99.09	108.75
3	CU	13	SER	N-CA-C	5.65	117.36	110.41
1	DK	42	THR	N-CA-C	-5.65	99.09	108.75
1	Ad	20	SER	CA-C-N	5.65	126.90	119.84
1	Ad	20	SER	C-N-CA	5.65	126.90	119.84
3	C0	18	VAL	CB-CA-C	-5.65	101.08	111.36
1	A5	42	THR	N-CA-C	-5.65	99.09	108.75
1	Ac	42	THR	N-CA-C	-5.65	99.09	108.75
3	C6	13	SER	N-CA-C	5.65	117.36	110.41
3	DA	13	SER	N-CA-C	5.65	117.36	110.41
1	AJ	20	SER	CA-C-N	5.65	126.90	119.84
1	AJ	20	SER	C-N-CA	5.65	126.90	119.84
1	AN	20	SER	CA-C-N	5.65	126.90	119.84
1	AN	20	SER	C-N-CA	5.65	126.90	119.84
1	A1	20	SER	CA-C-N	5.65	126.90	119.84
1	A1	20	SER	C-N-CA	5.65	126.90	119.84
2	BS	229	PRO	N-CA-C	5.65	120.10	112.48
1	AD	20	SER	CA-C-N	5.64	126.90	119.84
1	AD	20	SER	C-N-CA	5.64	126.90	119.84
1	A7	42	THR	N-CA-C	-5.64	99.10	108.75
2	Bc	135	THR	N-CA-C	5.64	122.82	110.80
3	CC	13	SER	N-CA-C	5.64	117.35	110.41
3	CV	13	SER	N-CA-C	5.64	117.35	110.41
1	DH	24	MET	N-CA-C	5.64	119.75	112.86
1	AO	134	ALA	N-CA-C	-5.64	106.75	113.97
1	AU	244	ASN	N-CA-C	5.64	122.82	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AW	20	SER	CA-C-N	5.64	126.89	119.84
1	AW	20	SER	C-N-CA	5.64	126.89	119.84
3	CK	13	SER	N-CA-C	5.64	117.35	110.41
3	Ce	13	SER	N-CA-C	5.64	117.35	110.41
3	DB	13	SER	N-CA-C	5.64	117.35	110.41
1	DI	20	SER	CA-C-N	5.64	126.89	119.84
1	DI	20	SER	C-N-CA	5.64	126.89	119.84
1	A5	20	SER	CA-C-N	5.64	126.89	119.84
1	A5	20	SER	C-N-CA	5.64	126.89	119.84
2	BL	229	PRO	N-CA-C	5.64	120.09	112.48
3	Ct	1	ALA	CA-C-N	-5.64	113.98	119.90
3	Ct	1	ALA	C-N-CA	-5.64	113.98	119.90
1	AX	41	GLU	N-CA-C	5.64	122.81	110.80
1	A4	134	ALA	N-CA-C	-5.64	106.75	113.97
2	B5	135	THR	N-CA-C	5.64	122.81	110.80
2	Bh	135	THR	N-CA-C	5.64	122.81	110.80
1	AP	41	GLU	N-CA-C	5.64	122.80	110.80
1	Ab	20	SER	CA-C-N	5.64	126.89	119.84
1	Ab	20	SER	C-N-CA	5.64	126.89	119.84
1	Ac	20	SER	CA-C-N	5.64	126.89	119.84
1	Ac	20	SER	C-N-CA	5.64	126.89	119.84
1	Af	20	SER	CA-C-N	5.64	126.88	119.84
1	Af	20	SER	C-N-CA	5.64	126.88	119.84
2	Bi	135	THR	N-CA-C	5.64	122.81	110.80
3	Cp	13	SER	N-CA-C	5.64	117.34	110.41
3	Cq	13	SER	N-CA-C	5.64	117.34	110.41
1	AS	244	ASN	N-CA-C	5.63	122.80	110.80
1	A9	20	SER	CA-C-N	5.63	126.88	119.84
1	A9	20	SER	C-N-CA	5.63	126.88	119.84
1	Ah	41	GLU	N-CA-C	5.63	122.80	110.80
1	Al	20	SER	CA-C-N	5.63	126.88	119.84
1	Al	20	SER	C-N-CA	5.63	126.88	119.84
1	Ao	20	SER	CA-C-N	5.63	126.88	119.84
1	Ao	20	SER	C-N-CA	5.63	126.88	119.84
2	BH	135	THR	N-CA-C	5.63	122.80	110.80
2	BU	135	THR	N-CA-C	5.63	122.80	110.80
2	Bb	135	THR	N-CA-C	5.63	122.80	110.80
2	Bw	49	ASP	CB-CA-C	5.63	117.70	109.08
3	CZ	13	SER	N-CA-C	5.63	117.34	110.41
1	AC	20	SER	CA-C-N	5.63	126.88	119.84
1	AC	20	SER	C-N-CA	5.63	126.88	119.84
1	AM	134	ALA	N-CA-C	-5.63	106.76	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B8	135	THR	N-CA-C	5.63	122.80	110.80
3	CG	13	SER	N-CA-C	5.63	117.34	110.41
1	DH	20	SER	CA-C-N	5.63	126.88	119.84
1	DH	20	SER	C-N-CA	5.63	126.88	119.84
1	AG	20	SER	CA-C-N	5.63	126.88	119.84
1	AG	20	SER	C-N-CA	5.63	126.88	119.84
1	AH	20	SER	CA-C-N	5.63	126.88	119.84
1	AH	20	SER	C-N-CA	5.63	126.88	119.84
1	Aj	134	ALA	N-CA-C	-5.63	106.76	113.97
2	BT	135	THR	N-CA-C	5.63	122.80	110.80
2	B3	49	ASP	CB-CA-C	5.63	117.69	109.08
3	CB	13	SER	N-CA-C	5.63	117.34	110.41
3	Cw	13	SER	N-CA-C	5.63	117.34	110.41
1	DG	134	ALA	N-CA-C	-5.63	106.76	113.97
3	CO	13	SER	N-CA-C	5.63	117.33	110.41
3	Cp	1	ALA	CA-C-N	-5.63	113.99	119.90
3	Cp	1	ALA	C-N-CA	-5.63	113.99	119.90
1	AE	20	SER	CA-C-N	5.63	126.88	119.84
1	AE	20	SER	C-N-CA	5.63	126.88	119.84
1	AP	134	ALA	N-CA-C	-5.63	106.77	113.97
2	B1	135	THR	N-CA-C	5.63	122.79	110.80
2	Br	135	THR	N-CA-C	5.63	122.79	110.80
3	CT	13	SER	N-CA-C	5.63	117.33	110.41
3	C5	13	SER	N-CA-C	5.63	117.33	110.41
1	AG	244	ASN	N-CA-C	5.63	122.78	110.80
1	AH	244	ASN	N-CA-C	5.63	122.78	110.80
1	A2	41	GLU	N-CA-C	5.63	122.78	110.80
2	B5	229	PRO	N-CA-C	5.63	120.08	112.48
2	B9	135	THR	N-CA-C	5.63	122.78	110.80
3	CP	13	SER	N-CA-C	5.63	117.33	110.41
3	Cj	1	ALA	CA-C-N	-5.63	113.99	119.90
3	Cj	1	ALA	C-N-CA	-5.63	113.99	119.90
1	DI	134	ALA	N-CA-C	-5.63	106.77	113.97
1	AF	41	GLU	N-CA-C	5.62	122.78	110.80
1	AJ	134	ALA	N-CA-C	-5.62	106.77	113.97
1	AP	20	SER	CA-C-N	5.62	126.87	119.84
1	AP	20	SER	C-N-CA	5.62	126.87	119.84
1	AX	20	SER	CA-C-N	5.62	126.87	119.84
1	AX	20	SER	C-N-CA	5.62	126.87	119.84
2	BY	135	THR	N-CA-C	5.62	122.78	110.80
3	Cm	13	SER	N-CA-C	5.62	117.33	110.41
1	AI	20	SER	CA-C-N	5.62	126.87	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AI	20	SER	C-N-CA	5.62	126.87	119.84
1	AK	20	SER	CA-C-N	5.62	126.87	119.84
1	AK	20	SER	C-N-CA	5.62	126.87	119.84
1	Ad	24	MET	N-CA-C	5.62	119.72	112.86
1	Ag	134	ALA	N-CA-C	-5.62	106.77	113.97
1	Am	20	SER	CA-C-N	5.62	126.87	119.84
1	Am	20	SER	C-N-CA	5.62	126.87	119.84
1	Am	41	GLU	N-CA-C	5.62	122.78	110.80
2	BO	135	THR	N-CA-C	5.62	122.78	110.80
2	BW	135	THR	N-CA-C	5.62	122.78	110.80
2	Bm	135	THR	N-CA-C	5.62	122.78	110.80
3	CG	1	ALA	CA-C-N	-5.62	114.00	119.90
3	CG	1	ALA	C-N-CA	-5.62	114.00	119.90
3	C5	36	VAL	CA-C-N	5.62	125.60	120.03
3	C5	36	VAL	C-N-CA	5.62	125.60	120.03
1	AP	24	MET	N-CA-C	5.62	119.72	112.86
2	BV	229	PRO	N-CA-C	5.62	120.07	112.48
2	Bn	135	THR	N-CA-C	5.62	122.77	110.80
3	CE	13	SER	N-CA-C	5.62	117.32	110.41
3	Ci	13	SER	N-CA-C	5.62	117.32	110.41
1	AE	41	GLU	N-CA-C	5.62	122.77	110.80
1	AL	24	MET	N-CA-C	5.62	119.72	112.86
1	A9	41	GLU	N-CA-C	5.62	122.77	110.80
1	Ak	20	SER	CA-C-N	5.62	126.86	119.84
1	Ak	20	SER	C-N-CA	5.62	126.86	119.84
2	Bj	49	ASP	CB-CA-C	5.62	117.68	109.08
2	Bo	135	THR	N-CA-C	5.62	122.77	110.80
2	Bp	135	THR	N-CA-C	5.62	122.77	110.80
3	Ch	13	SER	N-CA-C	5.62	117.32	110.41
3	Cl	13	SER	N-CA-C	5.62	117.32	110.41
1	Ac	244	ASN	N-CA-C	5.62	122.77	110.80
1	An	24	MET	N-CA-C	5.62	119.71	112.86
2	BD	135	THR	N-CA-C	5.62	122.77	110.80
2	Ba	135	THR	N-CA-C	5.62	122.77	110.80
2	Bn	49	ASP	CB-CA-C	5.62	117.68	109.08
2	Bu	135	THR	N-CA-C	5.62	122.77	110.80
3	CQ	13	SER	N-CA-C	5.62	117.32	110.41
3	C2	13	SER	N-CA-C	5.62	117.32	110.41
1	DI	41	GLU	N-CA-C	5.62	122.77	110.80
1	A7	134	ALA	N-CA-C	-5.62	106.78	113.97
1	Ae	134	ALA	N-CA-C	-5.62	106.78	113.97
2	BJ	135	THR	N-CA-C	5.62	122.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BP	135	THR	N-CA-C	5.62	122.77	110.80
3	CS	13	SER	N-CA-C	5.62	117.32	110.41
3	C3	13	SER	N-CA-C	5.62	117.32	110.41
1	DD	244	ASN	N-CA-C	5.62	122.76	110.80
1	AO	41	GLU	N-CA-C	5.62	122.76	110.80
1	AS	41	GLU	N-CA-C	5.62	122.76	110.80
1	A0	24	MET	N-CA-C	5.62	119.71	112.86
1	Ae	244	ASN	N-CA-C	5.62	122.76	110.80
2	BZ	49	ASP	CB-CA-C	5.62	117.67	109.08
2	Bc	49	ASP	CB-CA-C	5.62	117.67	109.08
2	Bd	135	THR	N-CA-C	5.62	122.76	110.80
3	CY	13	SER	N-CA-C	5.62	117.32	110.41
3	C1	13	SER	N-CA-C	5.62	117.32	110.41
1	AC	41	GLU	N-CA-C	5.61	122.76	110.80
1	AJ	41	GLU	N-CA-C	5.61	122.76	110.80
1	AK	134	ALA	N-CA-C	-5.61	106.79	113.97
1	AV	134	ALA	N-CA-C	-5.61	106.78	113.97
1	A9	244	ASN	N-CA-C	5.61	122.76	110.80
1	Ak	41	GLU	N-CA-C	5.61	122.76	110.80
2	BC	135	THR	N-CA-C	5.61	122.75	110.80
2	BS	135	THR	N-CA-C	5.61	122.76	110.80
2	BQ	135	THR	N-CA-C	5.61	122.76	110.80
2	Bf	135	THR	N-CA-C	5.61	122.76	110.80
3	Cg	13	SER	N-CA-C	5.61	117.32	110.41
1	AL	41	GLU	N-CA-C	5.61	122.75	110.80
1	AV	24	MET	N-CA-C	5.61	119.71	112.86
1	A9	134	ALA	N-CA-C	-5.61	106.79	113.97
1	Ai	134	ALA	N-CA-C	-5.61	106.79	113.97
1	Ak	24	MET	N-CA-C	5.61	119.71	112.86
2	BE	49	ASP	CB-CA-C	5.61	117.67	109.08
3	Cg	36	VAL	CA-C-N	5.61	125.59	120.03
3	Cg	36	VAL	C-N-CA	5.61	125.59	120.03
1	AD	244	ASN	N-CA-C	5.61	122.75	110.80
1	AH	134	ALA	N-CA-C	-5.61	106.79	113.97
1	AZ	244	ASN	N-CA-C	5.61	122.75	110.80
1	A1	244	ASN	N-CA-C	5.61	122.75	110.80
1	A7	244	ASN	N-CA-C	5.61	122.75	110.80
1	Ae	41	GLU	N-CA-C	5.61	122.75	110.80
1	Aj	41	GLU	N-CA-C	5.61	122.75	110.80
1	Al	41	GLU	N-CA-C	5.61	122.75	110.80
1	Al	134	ALA	N-CA-C	-5.61	106.79	113.97
1	Am	244	ASN	N-CA-C	5.61	122.75	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	244	ASN	N-CA-C	5.61	122.75	110.80
2	BD	229	PRO	N-CA-C	5.61	120.05	112.48
2	BK	135	THR	N-CA-C	5.61	122.75	110.80
2	B0	135	THR	N-CA-C	5.61	122.75	110.80
3	Cn	13	SER	N-CA-C	5.61	117.31	110.41
1	DE	244	ASN	N-CA-C	5.61	122.75	110.80
1	DF	41	GLU	N-CA-C	5.61	122.75	110.80
1	Aa	134	ALA	N-CA-C	-5.61	106.79	113.97
2	BM	135	THR	N-CA-C	5.61	122.75	110.80
2	BV	135	THR	N-CA-C	5.61	122.75	110.80
2	B2	135	THR	N-CA-C	5.61	122.75	110.80
1	AB	134	ALA	N-CA-C	-5.61	106.79	113.97
1	AE	244	ASN	N-CA-C	5.61	122.75	110.80
1	AR	134	ALA	N-CA-C	-5.61	106.79	113.97
1	AU	41	GLU	N-CA-C	5.61	122.74	110.80
1	AV	244	ASN	N-CA-C	5.61	122.74	110.80
1	AY	41	GLU	N-CA-C	5.61	122.74	110.80
1	A3	41	GLU	N-CA-C	5.61	122.74	110.80
1	An	41	GLU	N-CA-C	5.61	122.74	110.80
2	BE	135	THR	N-CA-C	5.61	122.75	110.80
2	B7	135	THR	N-CA-C	5.61	122.74	110.80
2	Bs	135	THR	N-CA-C	5.61	122.75	110.80
2	Bv	59	SER	N-CA-C	-5.61	97.32	107.75
3	CN	13	SER	N-CA-C	5.61	117.31	110.41
3	Cu	1	ALA	CA-C-N	-5.61	114.01	119.90
3	Cu	1	ALA	C-N-CA	-5.61	114.01	119.90
1	AW	41	GLU	N-CA-C	5.61	122.74	110.80
1	A2	244	ASN	N-CA-C	5.61	122.74	110.80
2	BA	135	THR	N-CA-C	5.61	122.74	110.80
2	BG	49	ASP	CB-CA-C	5.61	117.66	109.08
2	B6	229	PRO	N-CA-C	5.61	120.05	112.48
2	Bm	49	ASP	CB-CA-C	5.61	117.66	109.08
2	Bt	135	THR	N-CA-C	5.61	122.74	110.80
3	CB	1	ALA	CA-C-N	-5.61	114.01	119.90
3	CB	1	ALA	C-N-CA	-5.61	114.01	119.90
3	CH	13	SER	N-CA-C	5.61	117.30	110.41
3	Cn	1	ALA	CA-C-N	-5.61	114.02	119.90
3	Cn	1	ALA	C-N-CA	-5.61	114.02	119.90
3	Cs	13	SER	N-CA-C	5.61	117.31	110.41
3	Cu	13	SER	N-CA-C	5.61	117.30	110.41
1	DJ	41	GLU	N-CA-C	5.61	122.74	110.80
1	DK	41	GLU	N-CA-C	5.61	122.74	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AG	41	GLU	N-CA-C	5.60	122.74	110.80
1	AR	244	ASN	N-CA-C	5.60	122.74	110.80
1	AT	41	GLU	N-CA-C	5.60	122.74	110.80
1	AU	20	SER	CA-C-N	5.60	126.84	119.84
1	AU	20	SER	C-N-CA	5.60	126.84	119.84
2	BB	135	THR	N-CA-C	5.60	122.74	110.80
2	BT	49	ASP	CB-CA-C	5.60	117.65	109.08
2	Bk	135	THR	N-CA-C	5.60	122.74	110.80
2	Bq	135	THR	N-CA-C	5.60	122.74	110.80
3	C7	13	SER	N-CA-C	5.60	117.30	110.41
1	DK	244	ASN	N-CA-C	5.60	122.74	110.80
1	AI	244	ASN	N-CA-C	5.60	122.73	110.80
1	Ac	41	GLU	N-CA-C	5.60	122.73	110.80
1	Ae	20	SER	CA-C-N	5.60	126.84	119.84
1	Ae	20	SER	C-N-CA	5.60	126.84	119.84
1	Aj	244	ASN	N-CA-C	5.60	122.73	110.80
1	Ao	41	GLU	N-CA-C	5.60	122.73	110.80
2	BI	59	SER	N-CA-C	-5.60	97.33	107.75
2	BI	135	THR	N-CA-C	5.60	122.73	110.80
2	BR	135	THR	N-CA-C	5.60	122.73	110.80
2	B6	135	THR	N-CA-C	5.60	122.73	110.80
2	Ba	229	PRO	N-CA-C	5.60	120.04	112.48
2	Bv	135	THR	N-CA-C	5.60	122.73	110.80
3	Cr	13	SER	N-CA-C	5.60	117.30	110.41
1	DC	134	ALA	N-CA-C	-5.60	106.80	113.97
1	DD	134	ALA	N-CA-C	-5.60	106.80	113.97
1	AQ	20	SER	CA-C-N	5.60	126.84	119.84
1	AQ	20	SER	C-N-CA	5.60	126.84	119.84
1	AX	24	MET	N-CA-C	5.60	119.69	112.86
1	AZ	134	ALA	N-CA-C	-5.60	106.80	113.97
1	A4	41	GLU	N-CA-C	5.60	122.73	110.80
1	A7	41	GLU	N-CA-C	5.60	122.73	110.80
2	BL	49	ASP	CB-CA-C	5.60	117.65	109.08
2	B3	135	THR	N-CA-C	5.60	122.73	110.80
2	Bg	135	THR	N-CA-C	5.60	122.73	110.80
3	Cd	13	SER	N-CA-C	5.60	117.30	110.41
1	DG	41	GLU	N-CA-C	5.60	122.73	110.80
1	AY	24	MET	N-CA-C	5.60	119.69	112.86
2	BC	49	ASP	CB-CA-C	5.60	117.65	109.08
2	BK	49	ASP	CB-CA-C	5.60	117.65	109.08
2	BL	135	THR	N-CA-C	5.60	122.73	110.80
2	BO	49	ASP	CB-CA-C	5.60	117.65	109.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BZ	135	THR	N-CA-C	5.60	122.73	110.80
3	Cm	1	ALA	CA-C-N	-5.60	114.02	119.90
3	Cm	1	ALA	C-N-CA	-5.60	114.02	119.90
1	DG	244	ASN	N-CA-C	5.60	122.73	110.80
1	AA	41	GLU	N-CA-C	5.60	122.72	110.80
1	AB	20	SER	CA-C-N	5.60	126.84	119.84
1	AB	20	SER	C-N-CA	5.60	126.84	119.84
1	AQ	24	MET	N-CA-C	5.60	119.69	112.86
1	Ai	41	GLU	N-CA-C	5.60	122.72	110.80
1	Ai	244	ASN	N-CA-C	5.60	122.72	110.80
1	Ak	134	ALA	N-CA-C	-5.60	106.81	113.97
2	BA	59	SER	N-CA-C	-5.60	97.34	107.75
2	BF	135	THR	N-CA-C	5.60	122.72	110.80
2	BN	229	PRO	N-CA-C	5.60	120.04	112.48
2	BQ	59	SER	N-CA-C	-5.60	97.34	107.75
2	Bd	49	ASP	CB-CA-C	5.60	117.64	109.08
1	DD	41	GLU	N-CA-C	5.60	122.72	110.80
1	DH	244	ASN	N-CA-C	5.60	122.72	110.80
1	AK	41	GLU	N-CA-C	5.60	122.72	110.80
1	AL	244	ASN	N-CA-C	5.60	122.72	110.80
1	A1	134	ALA	N-CA-C	-5.60	106.81	113.97
1	Ae	24	MET	N-CA-C	5.60	119.69	112.86
1	Ak	244	ASN	N-CA-C	5.60	122.72	110.80
2	Bl	49	ASP	CB-CA-C	5.60	117.64	109.08
2	Bs	49	ASP	CB-CA-C	5.60	117.64	109.08
1	AC	244	ASN	N-CA-C	5.59	122.72	110.80
1	AD	41	GLU	N-CA-C	5.59	122.72	110.80
1	AM	41	GLU	N-CA-C	5.59	122.72	110.80
1	AN	134	ALA	N-CA-C	-5.59	106.81	113.97
1	A0	244	ASN	N-CA-C	5.59	122.72	110.80
1	A9	24	MET	N-CA-C	5.59	119.69	112.86
1	Af	244	ASN	N-CA-C	5.59	122.72	110.80
2	BH	49	ASP	CB-CA-C	5.59	117.64	109.08
2	BZ	59	SER	N-CA-C	-5.59	97.35	107.75
2	Bb	59	SER	N-CA-C	-5.59	97.34	107.75
2	Bg	49	ASP	CB-CA-C	5.59	117.64	109.08
2	Bl	135	THR	N-CA-C	5.59	122.72	110.80
1	DF	244	ASN	N-CA-C	5.59	122.72	110.80
1	DJ	24	MET	N-CA-C	5.59	119.69	112.86
1	AN	41	GLU	N-CA-C	5.59	122.71	110.80
1	AO	244	ASN	N-CA-C	5.59	122.71	110.80
1	AS	24	MET	N-CA-C	5.59	119.68	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AT	134	ALA	N-CA-C	-5.59	106.81	113.97
2	BA	49	ASP	CB-CA-C	5.59	117.64	109.08
2	BJ	49	ASP	CB-CA-C	5.59	117.64	109.08
2	B6	59	SER	N-CA-C	-5.59	97.35	107.75
2	Bw	135	THR	N-CA-C	5.59	122.71	110.80
1	DJ	244	ASN	N-CA-C	5.59	122.71	110.80
1	AB	244	ASN	N-CA-C	5.59	122.71	110.80
1	AH	41	GLU	N-CA-C	5.59	122.71	110.80
1	AN	244	ASN	N-CA-C	5.59	122.71	110.80
1	AW	244	ASN	N-CA-C	5.59	122.71	110.80
1	A2	134	ALA	N-CA-C	-5.59	106.81	113.97
1	A3	24	MET	N-CA-C	5.59	119.68	112.86
1	A8	244	ASN	N-CA-C	5.59	122.71	110.80
1	Ad	134	ALA	N-CA-C	-5.59	106.81	113.97
1	Ag	24	MET	N-CA-C	5.59	119.68	112.86
2	BF	59	SER	N-CA-C	-5.59	97.35	107.75
2	BK	59	SER	N-CA-C	-5.59	97.35	107.75
2	BL	59	SER	N-CA-C	-5.59	97.35	107.75
2	BW	59	SER	N-CA-C	-5.59	97.35	107.75
2	BY	49	ASP	CB-CA-C	5.59	117.64	109.08
2	Bd	59	SER	N-CA-C	-5.59	97.35	107.75
2	Bu	49	ASP	CB-CA-C	5.59	117.63	109.08
3	C6	1	ALA	CA-C-N	-5.59	114.03	119.90
3	C6	1	ALA	C-N-CA	-5.59	114.03	119.90
1	AA	134	ALA	N-CA-C	-5.59	106.82	113.97
1	AH	24	MET	N-CA-C	5.59	119.68	112.86
1	AM	244	ASN	N-CA-C	5.59	122.71	110.80
1	AU	24	MET	N-CA-C	5.59	119.68	112.86
1	A5	244	ASN	N-CA-C	5.59	122.71	110.80
1	Aa	41	GLU	N-CA-C	5.59	122.70	110.80
1	Ad	41	GLU	N-CA-C	5.59	122.70	110.80
1	Ag	41	GLU	N-CA-C	5.59	122.70	110.80
2	B4	229	PRO	N-CA-C	5.59	120.03	112.48
2	B9	229	PRO	N-CA-C	5.59	120.03	112.48
2	Bj	135	THR	N-CA-C	5.59	122.70	110.80
2	Bp	229	PRO	N-CA-C	5.59	120.03	112.48
2	Bt	49	ASP	CB-CA-C	5.59	117.63	109.08
2	Bv	49	ASP	CB-CA-C	5.59	117.63	109.08
3	C9	13	SER	N-CA-C	5.59	117.29	110.41
3	DA	1	ALA	CA-C-N	-5.59	114.03	119.90
3	DA	1	ALA	C-N-CA	-5.59	114.03	119.90
1	AB	41	GLU	N-CA-C	5.59	122.70	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AT	244	ASN	N-CA-C	5.59	122.70	110.80
1	AW	134	ALA	N-CA-C	-5.59	106.82	113.97
1	AY	244	ASN	N-CA-C	5.59	122.70	110.80
1	A4	244	ASN	N-CA-C	5.59	122.70	110.80
1	Aa	20	SER	CA-C-N	5.59	126.82	119.84
1	Aa	20	SER	C-N-CA	5.59	126.82	119.84
1	Ad	244	ASN	N-CA-C	5.59	122.70	110.80
2	BB	229	PRO	N-CA-C	5.59	120.02	112.48
2	BF	49	ASP	CB-CA-C	5.59	117.63	109.08
2	BS	49	ASP	CB-CA-C	5.59	117.63	109.08
2	B0	59	SER	N-CA-C	-5.59	97.36	107.75
2	B4	135	THR	N-CA-C	5.59	122.70	110.80
2	Bn	59	SER	N-CA-C	-5.59	97.36	107.75
2	Bs	229	PRO	N-CA-C	5.59	120.02	112.48
3	C4	1	ALA	CA-C-N	-5.59	114.03	119.90
3	C4	1	ALA	C-N-CA	-5.59	114.03	119.90
1	DG	24	MET	N-CA-C	5.59	119.68	112.86
1	A2	20	SER	CA-C-N	5.59	126.82	119.84
1	A2	20	SER	C-N-CA	5.59	126.82	119.84
1	A5	41	GLU	N-CA-C	5.59	122.70	110.80
1	Ab	41	GLU	N-CA-C	5.59	122.70	110.80
1	Af	134	ALA	N-CA-C	-5.59	106.82	113.97
1	Ah	20	SER	CA-C-N	5.59	126.82	119.84
1	Ah	20	SER	C-N-CA	5.59	126.82	119.84
1	Ah	244	ASN	N-CA-C	5.59	122.70	110.80
1	Ai	24	MET	N-CA-C	5.59	119.68	112.86
1	Am	134	ALA	N-CA-C	-5.59	106.82	113.97
2	BD	59	SER	N-CA-C	-5.59	97.36	107.75
2	BG	229	PRO	N-CA-C	5.59	120.02	112.48
2	B5	49	ASP	CB-CA-C	5.59	117.63	109.08
2	Bj	59	SER	N-CA-C	-5.59	97.36	107.75
2	Bm	229	PRO	N-CA-C	5.59	120.02	112.48
2	Bq	59	SER	N-CA-C	-5.59	97.36	107.75
2	Bu	59	SER	N-CA-C	-5.59	97.36	107.75
3	CJ	13	SER	N-CA-C	5.59	117.28	110.41
3	CP	1	ALA	CA-C-N	-5.59	114.03	119.90
3	CP	1	ALA	C-N-CA	-5.59	114.03	119.90
3	Co	1	ALA	CA-C-N	-5.59	114.03	119.90
3	Co	1	ALA	C-N-CA	-5.59	114.03	119.90
1	DC	24	MET	N-CA-C	5.59	119.68	112.86
1	DF	134	ALA	N-CA-C	-5.59	106.82	113.97
1	AC	24	MET	N-CA-C	5.58	119.67	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BU	229	PRO	N-CA-C	5.58	120.02	112.48
2	BW	229	PRO	N-CA-C	5.58	120.02	112.48
2	BX	49	ASP	CB-CA-C	5.58	117.63	109.08
2	B8	59	SER	N-CA-C	-5.58	97.36	107.75
2	Bd	229	PRO	N-CA-C	5.58	120.02	112.48
2	Be	135	THR	N-CA-C	5.58	122.70	110.80
2	Bk	59	SER	N-CA-C	-5.58	97.36	107.75
3	CI	13	SER	N-CA-C	5.58	117.28	110.41
1	AQ	244	ASN	N-CA-C	5.58	122.69	110.80
1	AV	20	SER	CA-C-N	5.58	126.82	119.84
1	AV	20	SER	C-N-CA	5.58	126.82	119.84
1	AX	244	ASN	N-CA-C	5.58	122.69	110.80
1	A6	41	GLU	N-CA-C	5.58	122.69	110.80
1	A8	41	GLU	N-CA-C	5.58	122.69	110.80
1	Af	41	GLU	N-CA-C	5.58	122.69	110.80
2	BB	59	SER	N-CA-C	-5.58	97.37	107.75
2	B2	229	PRO	N-CA-C	5.58	120.02	112.48
2	Bb	49	ASP	CB-CA-C	5.58	117.62	109.08
2	Br	49	ASP	CB-CA-C	5.58	117.62	109.08
3	C8	13	SER	N-CA-C	5.58	117.28	110.41
1	DE	41	GLU	N-CA-C	5.58	122.69	110.80
1	A6	244	ASN	N-CA-C	5.58	122.69	110.80
1	Ac	24	MET	N-CA-C	5.58	119.67	112.86
2	BM	229	PRO	N-CA-C	5.58	120.02	112.48
2	B1	49	ASP	CB-CA-C	5.58	117.62	109.08
2	Ba	49	ASP	CB-CA-C	5.58	117.62	109.08
2	Bo	49	ASP	CB-CA-C	5.58	117.62	109.08
2	Bs	59	SER	N-CA-C	-5.58	97.37	107.75
2	Bx	49	ASP	CB-CA-C	5.58	117.62	109.08
1	DC	244	ASN	N-CA-C	5.58	122.69	110.80
1	AF	24	MET	N-CA-C	5.58	119.67	112.86
1	AV	41	GLU	N-CA-C	5.58	122.69	110.80
2	BR	229	PRO	N-CA-C	5.58	120.01	112.48
2	BX	229	PRO	N-CA-C	5.58	120.01	112.48
2	Ba	59	SER	N-CA-C	-5.58	97.37	107.75
2	Bp	59	SER	N-CA-C	-5.58	97.37	107.75
3	Ck	1	ALA	CA-C-N	-5.58	114.04	119.90
3	Ck	1	ALA	C-N-CA	-5.58	114.04	119.90
1	AF	134	ALA	N-CA-C	-5.58	106.83	113.97
1	AG	134	ALA	N-CA-C	-5.58	106.83	113.97
1	AX	134	ALA	N-CA-C	-5.58	106.83	113.97
1	A5	134	ALA	N-CA-C	-5.58	106.83	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ao	134	ALA	N-CA-C	-5.58	106.83	113.97
2	BA	229	PRO	N-CA-C	5.58	120.01	112.48
2	BC	59	SER	N-CA-C	-5.58	97.37	107.75
2	BG	135	THR	N-CA-C	5.58	122.68	110.80
2	BH	229	PRO	N-CA-C	5.58	120.01	112.48
2	BM	59	SER	N-CA-C	-5.58	97.37	107.75
2	BN	135	THR	N-CA-C	5.58	122.68	110.80
2	B1	229	PRO	N-CA-C	5.58	120.01	112.48
2	B2	49	ASP	CB-CA-C	5.58	117.61	109.08
2	Be	49	ASP	CB-CA-C	5.58	117.61	109.08
2	Bn	229	PRO	N-CA-C	5.58	120.01	112.48
2	Bo	59	SER	N-CA-C	-5.58	97.37	107.75
3	Ch	1	ALA	CA-C-N	-5.58	114.04	119.90
3	Ch	1	ALA	C-N-CA	-5.58	114.04	119.90
1	DC	41	GLU	N-CA-C	5.58	122.68	110.80
1	AT	24	MET	N-CA-C	5.58	119.66	112.86
1	A1	24	MET	N-CA-C	5.58	119.66	112.86
2	BN	59	SER	N-CA-C	-5.58	97.38	107.75
2	BX	135	THR	N-CA-C	5.58	122.68	110.80
2	B2	59	SER	N-CA-C	-5.58	97.38	107.75
1	AI	41	GLU	N-CA-C	5.58	122.68	110.80
1	AK	24	MET	N-CA-C	5.58	119.66	112.86
1	AQ	41	GLU	N-CA-C	5.58	122.68	110.80
1	AR	41	GLU	N-CA-C	5.58	122.67	110.80
1	AY	134	ALA	N-CA-C	-5.58	106.83	113.97
1	A1	41	GLU	N-CA-C	5.58	122.67	110.80
1	A7	24	MET	N-CA-C	5.58	119.66	112.86
1	Ah	134	ALA	N-CA-C	-5.58	106.83	113.97
1	Al	244	ASN	N-CA-C	5.58	122.68	110.80
2	BH	59	SER	N-CA-C	-5.58	97.38	107.75
2	BM	49	ASP	CB-CA-C	5.58	117.61	109.08
2	BO	229	PRO	N-CA-C	5.58	120.01	112.48
2	B4	49	ASP	CB-CA-C	5.58	117.61	109.08
2	B8	49	ASP	CB-CA-C	5.58	117.61	109.08
2	Bx	135	THR	N-CA-C	5.58	122.68	110.80
3	CX	13	SER	N-CA-C	5.58	117.27	110.41
3	Cc	13	SER	N-CA-C	5.58	117.27	110.41
3	Cr	1	ALA	CA-C-N	-5.58	114.05	119.90
3	Cr	1	ALA	C-N-CA	-5.58	114.05	119.90
1	DK	24	MET	N-CA-C	5.58	119.66	112.86
1	AA	244	ASN	N-CA-C	5.57	122.67	110.80
1	AJ	24	MET	N-CA-C	5.57	119.66	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AJ	244	ASN	N-CA-C	5.57	122.67	110.80
1	AO	24	MET	N-CA-C	5.57	119.66	112.86
1	A0	41	GLU	N-CA-C	5.57	122.67	110.80
1	A0	134	ALA	N-CA-C	-5.57	106.83	113.97
1	Al	24	MET	N-CA-C	5.57	119.66	112.86
2	BF	229	PRO	N-CA-C	5.57	120.00	112.48
2	BJ	229	PRO	N-CA-C	5.57	120.00	112.48
2	BV	49	ASP	CB-CA-C	5.57	117.61	109.08
2	B4	59	SER	N-CA-C	-5.57	97.38	107.75
3	CZ	1	ALA	CA-C-N	-5.57	114.05	119.90
3	CZ	1	ALA	C-N-CA	-5.57	114.05	119.90
3	C0	1	ALA	CA-C-N	-5.57	114.05	119.90
3	C0	1	ALA	C-N-CA	-5.57	114.05	119.90
3	C9	1	ALA	CA-C-N	-5.57	114.05	119.90
3	C9	1	ALA	C-N-CA	-5.57	114.05	119.90
1	DE	134	ALA	N-CA-C	-5.57	106.83	113.97
1	DG	20	SER	CA-C-N	5.57	126.81	119.84
1	DG	20	SER	C-N-CA	5.57	126.81	119.84
1	DH	41	GLU	N-CA-C	5.57	122.67	110.80
1	DJ	134	ALA	N-CA-C	-5.57	106.84	113.97
2	BW	49	ASP	CB-CA-C	5.57	117.61	109.08
2	Bb	229	PRO	N-CA-C	5.57	120.00	112.48
2	Bt	59	SER	N-CA-C	-5.57	97.39	107.75
1	AZ	41	GLU	N-CA-C	5.57	122.67	110.80
1	A6	134	ALA	N-CA-C	-5.57	106.84	113.97
1	Ab	24	MET	N-CA-C	5.57	119.66	112.86
1	Ab	244	ASN	N-CA-C	5.57	122.67	110.80
2	B9	49	ASP	CB-CA-C	5.57	117.60	109.08
2	Bi	49	ASP	CB-CA-C	5.57	117.60	109.08
2	Bx	59	SER	N-CA-C	-5.57	97.39	107.75
3	CD	13	SER	N-CA-C	5.57	117.26	110.41
3	Ce	1	ALA	CA-C-N	-5.57	114.05	119.90
3	Ce	1	ALA	C-N-CA	-5.57	114.05	119.90
1	DC	20	SER	CA-C-N	5.57	126.80	119.84
1	DC	20	SER	C-N-CA	5.57	126.80	119.84
1	AC	134	ALA	N-CA-C	-5.57	106.84	113.97
1	AI	134	ALA	N-CA-C	-5.57	106.84	113.97
2	Bk	49	ASP	CB-CA-C	5.57	117.60	109.08
2	Bk	229	PRO	N-CA-C	5.57	120.00	112.48
2	Bl	229	PRO	N-CA-C	5.57	120.00	112.48
1	AD	134	ALA	N-CA-C	-5.57	106.84	113.97
1	AE	24	MET	N-CA-C	5.57	119.65	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A3	134	ALA	N-CA-C	-5.57	106.84	113.97
1	A4	20	SER	CA-C-N	5.57	126.80	119.84
1	A4	20	SER	C-N-CA	5.57	126.80	119.84
2	B3	59	SER	N-CA-C	-5.57	97.39	107.75
2	B8	229	PRO	N-CA-C	5.57	120.00	112.48
2	Bh	49	ASP	CB-CA-C	5.57	117.60	109.08
2	Bo	229	PRO	N-CA-C	5.57	120.00	112.48
2	Bp	49	ASP	CB-CA-C	5.57	117.60	109.08
2	Bt	229	PRO	N-CA-C	5.57	120.00	112.48
2	Bv	229	PRO	N-CA-C	5.57	120.00	112.48
3	CA	1	ALA	CA-C-N	-5.57	114.05	119.90
3	CA	1	ALA	C-N-CA	-5.57	114.05	119.90
3	CO	1	ALA	CA-C-N	-5.57	114.06	119.90
3	CO	1	ALA	C-N-CA	-5.57	114.06	119.90
1	AK	244	ASN	N-CA-C	5.57	122.66	110.80
1	Aa	244	ASN	N-CA-C	5.57	122.65	110.80
1	Ab	134	ALA	N-CA-C	-5.57	106.85	113.97
2	BI	49	ASP	CB-CA-C	5.57	117.59	109.08
2	BK	229	PRO	N-CA-C	5.57	120.00	112.48
2	B7	59	SER	N-CA-C	-5.57	97.40	107.75
2	Bi	229	PRO	N-CA-C	5.57	119.99	112.48
1	AP	244	ASN	N-CA-C	5.56	122.65	110.80
1	AS	134	ALA	N-CA-C	-5.56	106.85	113.97
1	A3	244	ASN	N-CA-C	5.56	122.65	110.80
2	BB	49	ASP	CB-CA-C	5.56	117.59	109.08
2	BO	59	SER	N-CA-C	-5.56	97.40	107.75
1	AB	24	MET	N-CA-C	5.56	119.65	112.86
1	Aa	24	MET	N-CA-C	5.56	119.65	112.86
2	BE	229	PRO	N-CA-C	5.56	119.99	112.48
2	BP	59	SER	N-CA-C	-5.56	97.40	107.75
2	Bf	59	SER	N-CA-C	-5.56	97.40	107.75
2	Bg	59	SER	N-CA-C	-5.56	97.40	107.75
2	Bq	229	PRO	N-CA-C	5.56	119.99	112.48
3	CN	1	ALA	CA-C-N	-5.56	114.06	119.90
3	CN	1	ALA	C-N-CA	-5.56	114.06	119.90
1	A8	24	MET	N-CA-C	5.56	119.64	112.86
2	BJ	59	SER	N-CA-C	-5.56	97.41	107.75
2	Bl	59	SER	N-CA-C	-5.56	97.41	107.75
2	Bu	229	PRO	N-CA-C	5.56	119.99	112.48
3	CU	1	ALA	CA-C-N	-5.56	114.06	119.90
3	CU	1	ALA	C-N-CA	-5.56	114.06	119.90
1	DF	24	MET	N-CA-C	5.56	119.64	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A3	241	THR	N-CA-CB	-5.56	102.90	111.46
1	Ag	244	ASN	N-CA-C	5.56	122.64	110.80
1	Ai	241	THR	N-CA-CB	-5.56	102.90	111.46
2	BS	59	SER	N-CA-C	-5.56	97.41	107.75
2	BZ	229	PRO	N-CA-C	5.56	119.98	112.48
2	B5	59	SER	N-CA-C	-5.56	97.41	107.75
2	Bg	229	PRO	N-CA-C	5.56	119.99	112.48
2	Bh	229	PRO	N-CA-C	5.56	119.99	112.48
1	AD	24	MET	N-CA-C	5.56	119.64	112.86
1	AV	147	ALA	N-CA-C	-5.56	98.96	110.80
1	A6	24	MET	N-CA-C	5.56	119.64	112.86
2	BD	49	ASP	CB-CA-C	5.56	117.58	109.08
2	BP	49	ASP	CB-CA-C	5.56	117.58	109.08
2	BU	49	ASP	CB-CA-C	5.56	117.58	109.08
2	BU	59	SER	N-CA-C	-5.56	97.41	107.75
2	BY	229	PRO	N-CA-C	5.56	119.98	112.48
2	Bx	229	PRO	N-CA-C	5.56	119.98	112.48
3	CK	1	ALA	CA-C-N	-5.56	114.06	119.90
3	CK	1	ALA	C-N-CA	-5.56	114.06	119.90
3	CW	1	ALA	CA-C-N	-5.56	114.06	119.90
3	CW	1	ALA	C-N-CA	-5.56	114.06	119.90
3	Cf	1	ALA	CA-C-N	-5.56	114.06	119.90
3	Cf	1	ALA	C-N-CA	-5.56	114.06	119.90
1	AA	24	MET	N-CA-C	5.56	119.64	112.86
1	AG	24	MET	N-CA-C	5.56	119.64	112.86
1	Ae	241	THR	N-CA-CB	-5.56	102.90	111.46
1	Aj	24	MET	N-CA-C	5.56	119.64	112.86
2	B0	49	ASP	CB-CA-C	5.56	117.58	109.08
2	B7	49	ASP	CB-CA-C	5.56	117.58	109.08
1	Ac	134	ALA	N-CA-C	-5.55	106.86	113.97
1	Ah	24	MET	N-CA-C	5.55	119.64	112.86
1	Am	24	MET	N-CA-C	5.55	119.64	112.86
1	Ao	24	MET	N-CA-C	5.55	119.64	112.86
2	B1	59	SER	N-CA-C	-5.55	97.42	107.75
2	B3	229	PRO	N-CA-C	5.55	119.98	112.48
2	Bf	49	ASP	CB-CA-C	5.55	117.58	109.08
2	Bh	59	SER	N-CA-C	-5.55	97.42	107.75
2	Br	59	SER	N-CA-C	-5.55	97.42	107.75
3	CQ	1	ALA	CA-C-N	-5.55	114.07	119.90
3	CQ	1	ALA	C-N-CA	-5.55	114.07	119.90
3	Cx	13	SER	N-CA-C	5.55	117.24	110.41
1	A8	134	ALA	N-CA-C	-5.55	106.86	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	An	241	THR	N-CA-CB	-5.55	102.91	111.46
2	BX	59	SER	N-CA-C	-5.55	97.42	107.75
2	Bc	229	PRO	N-CA-C	5.55	119.98	112.48
2	Bw	229	PRO	N-CA-C	5.55	119.98	112.48
3	CF	1	ALA	CA-C-N	-5.55	114.07	119.90
3	CF	1	ALA	C-N-CA	-5.55	114.07	119.90
1	DI	244	ASN	N-CA-C	5.55	122.63	110.80
1	AN	24	MET	N-CA-C	5.55	119.63	112.86
1	An	244	ASN	N-CA-C	5.55	122.63	110.80
2	BG	59	SER	N-CA-C	-5.55	97.42	107.75
2	BI	229	PRO	N-CA-C	5.55	119.97	112.48
2	BQ	229	PRO	N-CA-C	5.55	119.97	112.48
2	BV	59	SER	N-CA-C	-5.55	97.42	107.75
3	CX	1	ALA	CA-C-N	-5.55	114.07	119.90
3	CX	1	ALA	C-N-CA	-5.55	114.07	119.90
1	DG	147	ALA	N-CA-C	-5.55	98.97	110.80
1	DH	134	ALA	N-CA-C	-5.55	106.86	113.97
1	AG	147	ALA	N-CA-C	-5.55	98.98	110.80
1	AL	134	ALA	N-CA-C	-5.55	106.87	113.97
2	Bf	229	PRO	N-CA-C	5.55	119.97	112.48
1	Ag	241	THR	N-CA-CB	-5.55	102.92	111.46
2	B6	49	ASP	CB-CA-C	5.55	117.57	109.08
2	Bq	49	ASP	CB-CA-C	5.55	117.57	109.08
1	AB	147	ALA	N-CA-C	-5.55	98.99	110.80
1	AP	147	ALA	N-CA-C	-5.55	98.99	110.80
1	AY	147	ALA	N-CA-C	-5.55	98.99	110.80
1	A7	241	THR	N-CA-CB	-5.55	102.92	111.46
1	Ae	147	ALA	N-CA-C	-5.55	98.98	110.80
2	BN	49	ASP	CB-CA-C	5.55	117.56	109.08
2	Bi	59	SER	N-CA-C	-5.55	97.43	107.75
3	CD	1	ALA	CA-C-N	-5.55	114.08	119.90
3	CD	1	ALA	C-N-CA	-5.55	114.08	119.90
1	AM	24	MET	N-CA-C	5.54	119.62	112.86
1	AO	178	THR	N-CA-C	-5.54	100.14	108.96
1	AW	24	MET	N-CA-C	5.54	119.62	112.86
1	Ah	241	THR	N-CA-CB	-5.54	102.92	111.46
1	DE	147	ALA	N-CA-C	-5.54	98.99	110.80
1	AX	178	THR	N-CA-C	-5.54	100.14	108.96
2	BE	59	SER	N-CA-C	-5.54	97.44	107.75
2	BQ	49	ASP	CB-CA-C	5.54	117.56	109.08
3	CH	1	ALA	CA-C-N	-5.54	114.08	119.90
3	CH	1	ALA	C-N-CA	-5.54	114.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CJ	1	ALA	CA-C-N	-5.54	114.08	119.90
3	CJ	1	ALA	C-N-CA	-5.54	114.08	119.90
3	Cx	1	ALA	CA-C-N	-5.54	114.08	119.90
3	Cx	1	ALA	C-N-CA	-5.54	114.08	119.90
1	DK	134	ALA	N-CA-C	-5.54	106.88	113.97
1	AE	134	ALA	N-CA-C	-5.54	106.88	113.97
1	AF	244	ASN	N-CA-C	5.54	122.60	110.80
1	A2	24	MET	N-CA-C	5.54	119.62	112.86
2	BC	229	PRO	N-CA-C	5.54	119.96	112.48
2	BT	59	SER	N-CA-C	-5.54	97.44	107.75
2	Br	229	PRO	N-CA-C	5.54	119.96	112.48
3	CY	1	ALA	CA-C-N	-5.54	114.08	119.90
3	CY	1	ALA	C-N-CA	-5.54	114.08	119.90
3	C5	1	ALA	CA-C-N	-5.54	114.08	119.90
3	C5	1	ALA	C-N-CA	-5.54	114.08	119.90
1	AU	241	THR	N-CA-CB	-5.54	102.93	111.46
3	Cc	1	ALA	CA-C-N	-5.54	114.08	119.90
3	Cc	1	ALA	C-N-CA	-5.54	114.08	119.90
1	DH	241	THR	N-CA-CB	-5.54	102.93	111.46
2	BT	229	PRO	N-CA-C	5.54	119.96	112.48
2	B0	229	PRO	N-CA-C	5.54	119.96	112.48
2	Be	59	SER	N-CA-C	-5.54	97.45	107.75
3	CS	1	ALA	CA-C-N	-5.54	114.08	119.90
3	CS	1	ALA	C-N-CA	-5.54	114.08	119.90
3	C1	1	ALA	CA-C-N	-5.54	114.08	119.90
3	C1	1	ALA	C-N-CA	-5.54	114.08	119.90
1	AV	241	THR	N-CA-CB	-5.54	102.93	111.46
1	An	134	ALA	N-CA-C	-5.54	106.88	113.97
2	BP	229	PRO	N-CA-C	5.54	119.95	112.48
2	BY	59	SER	N-CA-C	-5.54	97.45	107.75
2	B9	59	SER	N-CA-C	-5.54	97.45	107.75
3	CV	1	ALA	CA-C-N	-5.54	114.09	119.90
3	CV	1	ALA	C-N-CA	-5.54	114.09	119.90
1	AI	24	MET	N-CA-C	5.54	119.61	112.86
1	A5	147	ALA	N-CA-C	-5.54	99.01	110.80
2	Bc	59	SER	N-CA-C	-5.54	97.45	107.75
1	DJ	178	THR	N-CA-C	-5.54	100.16	108.96
1	AU	178	THR	N-CA-C	-5.53	100.16	108.96
1	A3	147	ALA	N-CA-C	-5.53	99.02	110.80
2	B7	229	PRO	N-CA-C	5.53	119.95	112.48
2	Bw	59	SER	N-CA-C	-5.53	97.46	107.75
3	CI	1	ALA	CA-C-N	-5.53	114.09	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CI	1	ALA	C-N-CA	-5.53	114.09	119.90
1	DG	241	THR	N-CA-CB	-5.53	102.94	111.46
1	AA	178	THR	N-CA-C	-5.53	100.16	108.96
1	AJ	178	THR	N-CA-C	-5.53	100.16	108.96
1	Aj	147	ALA	N-CA-C	-5.53	99.02	110.80
1	DD	24	MET	N-CA-C	5.53	119.61	112.86
1	AC	241	THR	N-CA-CB	-5.53	102.94	111.46
1	AT	241	THR	N-CA-CB	-5.53	102.94	111.46
2	Be	229	PRO	N-CA-C	5.53	119.95	112.48
3	CE	1	ALA	CA-C-N	-5.53	114.09	119.90
3	CE	1	ALA	C-N-CA	-5.53	114.09	119.90
3	DB	1	ALA	CA-C-N	-5.53	114.09	119.90
3	DB	1	ALA	C-N-CA	-5.53	114.09	119.90
1	DF	178	THR	N-CA-C	-5.53	100.17	108.96
1	A8	241	THR	N-CA-CB	-5.53	102.94	111.46
1	DF	241	THR	N-CA-CB	-5.53	102.95	111.46
1	AH	241	THR	N-CA-CB	-5.53	102.95	111.46
1	A6	178	THR	N-CA-C	-5.53	100.17	108.96
1	Al	147	ALA	N-CA-C	-5.53	99.03	110.80
1	DK	178	THR	N-CA-C	-5.53	100.17	108.96
1	AS	241	THR	N-CA-CB	-5.53	102.95	111.46
1	AZ	147	ALA	N-CA-C	-5.53	99.03	110.80
1	Af	147	ALA	N-CA-C	-5.53	99.03	110.80
2	Bj	229	PRO	N-CA-C	5.53	119.94	112.48
2	Bm	59	SER	N-CA-C	-5.53	97.47	107.75
1	AK	147	ALA	N-CA-C	-5.52	99.03	110.80
1	AF	147	ALA	N-CA-C	-5.52	99.04	110.80
1	AJ	147	ALA	N-CA-C	-5.52	99.03	110.80
1	AO	241	THR	N-CA-CB	-5.52	102.95	111.46
1	AT	147	ALA	N-CA-C	-5.52	99.04	110.80
1	AU	147	ALA	N-CA-C	-5.52	99.04	110.80
1	A4	178	THR	N-CA-C	-5.52	100.18	108.96
1	Ak	147	ALA	N-CA-C	-5.52	99.04	110.80
1	Am	147	ALA	N-CA-C	-5.52	99.04	110.80
3	CC	1	ALA	CA-C-N	-5.52	114.10	119.90
3	CC	1	ALA	C-N-CA	-5.52	114.10	119.90
3	Cw	1	ALA	CA-C-N	-5.52	114.10	119.90
3	Cw	1	ALA	C-N-CA	-5.52	114.10	119.90
1	AQ	134	ALA	N-CA-C	-5.52	106.90	113.97
1	A4	147	ALA	N-CA-C	-5.52	99.04	110.80
1	AB	241	THR	N-CA-CB	-5.52	102.96	111.46
1	AS	147	ALA	N-CA-C	-5.52	99.04	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A4	24	MET	N-CA-C	5.52	119.59	112.86
3	C3	1	ALA	CA-C-N	-5.52	114.11	119.90
3	C3	1	ALA	C-N-CA	-5.52	114.11	119.90
3	Cq	1	ALA	CA-C-N	-5.52	114.11	119.90
3	Cq	1	ALA	C-N-CA	-5.52	114.11	119.90
1	DH	147	ALA	N-CA-C	-5.52	99.04	110.80
1	AF	241	THR	N-CA-CB	-5.52	102.96	111.46
1	AM	241	THR	N-CA-CB	-5.52	102.96	111.46
1	Ad	147	ALA	N-CA-C	-5.52	99.05	110.80
1	Ai	178	THR	N-CA-C	-5.52	100.19	108.96
1	Ao	147	ALA	N-CA-C	-5.52	99.05	110.80
2	BR	59	SER	N-CA-C	-5.52	97.49	107.75
3	Cs	1	ALA	CA-C-N	-5.52	114.11	119.90
3	Cs	1	ALA	C-N-CA	-5.52	114.11	119.90
1	AG	178	THR	N-CA-C	-5.52	100.19	108.96
1	AG	241	THR	N-CA-CB	-5.52	102.97	111.46
1	A4	241	THR	N-CA-CB	-5.52	102.97	111.46
1	Ad	241	THR	N-CA-CB	-5.52	102.97	111.46
1	DI	147	ALA	N-CA-C	-5.52	99.05	110.80
1	AA	147	ALA	N-CA-C	-5.51	99.06	110.80
1	AR	241	THR	N-CA-CB	-5.51	102.97	111.46
1	Ab	147	ALA	N-CA-C	-5.51	99.06	110.80
1	AJ	241	THR	N-CA-CB	-5.51	102.97	111.46
1	A2	241	THR	N-CA-CB	-5.51	102.97	111.46
1	Al	241	THR	N-CA-CB	-5.51	102.97	111.46
1	DD	178	THR	N-CA-C	-5.51	100.19	108.96
1	AH	147	ALA	N-CA-C	-5.51	99.06	110.80
1	AM	178	THR	N-CA-C	-5.51	100.20	108.96
1	Aa	147	ALA	N-CA-C	-5.51	99.06	110.80
1	Af	24	MET	N-CA-C	5.51	119.58	112.86
1	Ai	147	ALA	N-CA-C	-5.51	99.06	110.80
1	Am	241	THR	N-CA-CB	-5.51	102.97	111.46
1	AA	241	THR	N-CA-CB	-5.51	102.97	111.46
1	AL	147	ALA	N-CA-C	-5.51	99.06	110.80
1	AR	24	MET	N-CA-C	5.51	119.58	112.86
1	AR	147	ALA	N-CA-C	-5.51	99.06	110.80
1	AY	241	THR	N-CA-CB	-5.51	102.98	111.46
1	AZ	24	MET	N-CA-C	5.51	119.58	112.86
1	A1	241	THR	N-CA-CB	-5.51	102.98	111.46
1	A8	147	ALA	N-CA-C	-5.51	99.07	110.80
1	Ac	178	THR	N-CA-C	-5.51	100.20	108.96
1	An	178	THR	N-CA-C	-5.51	100.20	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cd	1	ALA	CA-C-N	-5.51	114.11	119.90
3	Cd	1	ALA	C-N-CA	-5.51	114.11	119.90
1	AN	241	THR	N-CA-CB	-5.51	102.98	111.46
1	A9	147	ALA	N-CA-C	-5.51	99.07	110.80
1	AD	241	THR	N-CA-CB	-5.51	102.98	111.46
1	AF	178	THR	N-CA-C	-5.51	100.21	108.96
1	AX	241	THR	N-CA-CB	-5.51	102.98	111.46
1	Ag	178	THR	N-CA-C	-5.51	100.20	108.96
1	DE	24	MET	N-CA-C	5.51	119.58	112.86
1	DI	24	MET	N-CA-C	5.51	119.58	112.86
1	A0	241	THR	N-CA-CB	-5.50	102.98	111.46
1	An	147	ALA	N-CA-C	-5.50	99.08	110.80
1	DH	178	THR	N-CA-C	-5.50	100.21	108.96
1	AI	147	ALA	N-CA-C	-5.50	99.08	110.80
1	AQ	147	ALA	N-CA-C	-5.50	99.08	110.80
1	AR	178	THR	N-CA-C	-5.50	100.21	108.96
1	A1	147	ALA	N-CA-C	-5.50	99.08	110.80
1	A2	147	ALA	N-CA-C	-5.50	99.08	110.80
1	Ah	178	THR	N-CA-C	-5.50	100.21	108.96
1	DC	147	ALA	N-CA-C	-5.50	99.08	110.80
1	DD	241	THR	N-CA-CB	-5.50	102.99	111.46
1	Ab	178	THR	N-CA-C	-5.50	100.21	108.96
1	Ab	241	THR	N-CA-CB	-5.50	102.99	111.46
1	Aj	178	THR	N-CA-C	-5.50	100.21	108.96
1	AD	147	ALA	N-CA-C	-5.50	99.09	110.80
1	A3	178	THR	N-CA-C	-5.50	100.22	108.96
1	Ag	147	ALA	N-CA-C	-5.50	99.08	110.80
1	Aj	241	THR	N-CA-CB	-5.50	102.99	111.46
1	AD	178	THR	N-CA-C	-5.50	100.22	108.96
1	AS	178	THR	N-CA-C	-5.50	100.22	108.96
1	AW	178	THR	N-CA-C	-5.50	100.22	108.96
1	A2	178	THR	N-CA-C	-5.50	100.22	108.96
1	Ao	241	THR	N-CA-CB	-5.50	102.99	111.46
3	CL	1	ALA	CA-C-N	-5.50	114.13	119.90
3	CL	1	ALA	C-N-CA	-5.50	114.13	119.90
1	AB	178	THR	N-CA-C	-5.50	100.22	108.96
1	AC	147	ALA	N-CA-C	-5.50	99.09	110.80
1	AI	241	THR	N-CA-CB	-5.50	103.00	111.46
1	AK	241	THR	N-CA-CB	-5.50	103.00	111.46
1	AY	178	THR	N-CA-C	-5.50	100.22	108.96
1	AZ	241	THR	N-CA-CB	-5.50	103.00	111.46
3	CM	1	ALA	CA-C-N	-5.50	114.13	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CM	1	ALA	C-N-CA	-5.50	114.13	119.90
3	C2	1	ALA	CA-C-N	-5.50	114.13	119.90
3	C2	1	ALA	C-N-CA	-5.50	114.13	119.90
1	A6	241	THR	N-CA-CB	-5.50	103.00	111.46
1	DE	178	THR	N-CA-C	-5.50	100.22	108.96
1	AE	178	THR	N-CA-C	-5.49	100.22	108.96
1	AE	241	THR	N-CA-CB	-5.49	103.00	111.46
1	AN	178	THR	N-CA-C	-5.49	100.22	108.96
1	AP	241	THR	N-CA-CB	-5.49	103.00	111.46
1	AX	147	ALA	N-CA-C	-5.49	99.10	110.80
1	Ac	147	ALA	N-CA-C	-5.49	99.10	110.80
3	CT	1	ALA	CA-C-N	-5.49	114.13	119.90
3	CT	1	ALA	C-N-CA	-5.49	114.13	119.90
1	DI	178	THR	N-CA-C	-5.49	100.23	108.96
1	AW	147	ALA	N-CA-C	-5.49	99.10	110.80
1	DJ	241	THR	N-CA-CB	-5.49	103.00	111.46
1	AN	147	ALA	N-CA-C	-5.49	99.11	110.80
1	AO	147	ALA	N-CA-C	-5.49	99.11	110.80
1	A6	147	ALA	N-CA-C	-5.49	99.11	110.80
1	A9	178	THR	N-CA-C	-5.49	100.23	108.96
3	C7	1	ALA	CA-C-N	-5.49	114.13	119.90
3	C7	1	ALA	C-N-CA	-5.49	114.13	119.90
1	DC	178	THR	N-CA-C	-5.49	100.23	108.96
1	DJ	147	ALA	N-CA-C	-5.49	99.10	110.80
1	DI	241	THR	N-CA-CB	-5.49	103.01	111.46
1	A0	147	ALA	N-CA-C	-5.49	99.11	110.80
1	Ac	241	THR	N-CA-CB	-5.49	103.01	111.46
1	AK	241	THR	N-CA-CB	-5.49	103.01	111.46
1	AI	178	THR	N-CA-C	-5.49	100.24	108.96
1	AK	178	THR	N-CA-C	-5.49	100.24	108.96
1	Ae	178	THR	N-CA-C	-5.49	100.24	108.96
1	DC	241	THR	N-CA-CB	-5.49	103.01	111.46
1	DK	147	ALA	N-CA-C	-5.49	99.12	110.80
1	DK	241	THR	N-CA-CB	-5.49	103.01	111.46
1	AW	241	THR	N-CA-CB	-5.48	103.02	111.46
1	A5	241	THR	N-CA-CB	-5.48	103.01	111.46
1	AE	147	ALA	N-CA-C	-5.48	99.12	110.80
1	AL	178	THR	N-CA-C	-5.48	100.24	108.96
1	AM	147	ALA	N-CA-C	-5.48	99.12	110.80
1	AT	178	THR	N-CA-C	-5.48	100.24	108.96
1	A7	147	ALA	N-CA-C	-5.48	99.12	110.80
1	A7	178	THR	N-CA-C	-5.48	100.24	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ah	147	ALA	N-CA-C	-5.48	99.12	110.80
1	Ak	178	THR	N-CA-C	-5.48	100.24	108.96
1	Ao	178	THR	N-CA-C	-5.48	100.24	108.96
1	DE	241	THR	N-CA-CB	-5.48	103.02	111.46
1	Af	241	THR	N-CA-CB	-5.48	103.02	111.46
3	Cv	1	ALA	CA-C-N	-5.48	114.15	119.90
3	Cv	1	ALA	C-N-CA	-5.48	114.15	119.90
1	AQ	241	THR	N-CA-CB	-5.48	103.02	111.46
1	Al	178	THR	N-CA-C	-5.48	100.25	108.96
3	CR	1	ALA	CA-C-N	-5.48	114.15	119.90
3	CR	1	ALA	C-N-CA	-5.48	114.15	119.90
1	DD	147	ALA	N-CA-C	-5.48	99.13	110.80
1	DF	147	ALA	N-CA-C	-5.48	99.14	110.80
1	A8	178	THR	N-CA-C	-5.47	100.26	108.96
1	AC	178	THR	N-CA-C	-5.47	100.26	108.96
1	A9	241	THR	N-CA-CB	-5.47	103.03	111.46
1	AH	178	THR	N-CA-C	-5.47	100.26	108.96
1	Am	178	THR	N-CA-C	-5.47	100.27	108.96
3	Cl	1	ALA	CA-C-N	-5.47	114.16	119.90
3	Cl	1	ALA	C-N-CA	-5.47	114.16	119.90
1	AL	241	THR	N-CA-CB	-5.47	103.04	111.46
1	A0	178	THR	N-CA-C	-5.47	100.27	108.96
3	Cg	1	ALA	CA-C-N	-5.47	114.16	119.90
3	Cg	1	ALA	C-N-CA	-5.47	114.16	119.90
3	Ci	1	ALA	CA-C-N	-5.47	114.16	119.90
3	Ci	1	ALA	C-N-CA	-5.47	114.16	119.90
1	Aa	178	THR	N-CA-C	-5.46	100.27	108.96
3	C8	1	ALA	CA-C-N	-5.46	114.16	119.90
3	C8	1	ALA	C-N-CA	-5.46	114.16	119.90
1	AV	178	THR	N-CA-C	-5.46	100.27	108.96
1	Aa	241	THR	N-CA-CB	-5.46	103.05	111.46
2	BN	46	THR	N-CA-C	5.45	119.46	112.26
1	A1	178	THR	N-CA-C	-5.45	100.30	108.96
2	BG	46	THR	N-CA-C	5.44	119.44	112.26
2	Be	46	THR	N-CA-C	5.44	119.44	112.26
1	A5	30	VAL	N-CA-C	5.43	116.06	110.36
3	CU	106	PHE	CA-C-N	-5.43	114.38	122.74
3	CU	106	PHE	C-N-CA	-5.43	114.38	122.74
2	BQ	46	THR	N-CA-C	5.43	119.42	112.26
2	B2	46	THR	N-CA-C	5.42	119.42	112.26
2	Bc	46	THR	N-CA-C	5.42	119.42	112.26
2	BU	46	THR	N-CA-C	5.41	119.41	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Bm	46	THR	N-CA-C	5.41	119.41	112.26
3	CF	106	PHE	CA-C-N	-5.41	114.40	122.74
3	CF	106	PHE	C-N-CA	-5.41	114.40	122.74
2	B9	46	THR	N-CA-C	5.41	119.40	112.26
1	DH	30	VAL	N-CA-C	5.41	116.04	110.36
2	Bu	46	THR	N-CA-C	5.41	119.40	112.26
2	Bw	46	THR	N-CA-C	5.41	119.40	112.26
2	B3	46	THR	N-CA-C	5.41	119.40	112.26
3	Co	106	PHE	CA-C-N	-5.41	114.42	122.74
3	Co	106	PHE	C-N-CA	-5.41	114.42	122.74
2	BD	46	THR	N-CA-C	5.40	119.39	112.26
2	BI	46	THR	N-CA-C	5.40	119.39	112.26
1	Ak	67	ALA	N-CA-C	5.40	117.92	111.71
2	BB	46	THR	N-CA-C	5.40	119.38	112.26
3	C3	106	PHE	CA-C-N	-5.40	114.43	122.74
3	C3	106	PHE	C-N-CA	-5.40	114.43	122.74
2	BJ	46	THR	N-CA-C	5.40	119.38	112.26
2	Bl	46	THR	N-CA-C	5.40	119.38	112.26
2	BR	46	THR	N-CA-C	5.39	119.38	112.26
2	B6	46	THR	N-CA-C	5.39	119.38	112.26
2	B0	46	THR	N-CA-C	5.39	119.38	112.26
2	Bt	46	THR	N-CA-C	5.39	119.38	112.26
1	A0	30	VAL	N-CA-C	5.39	116.02	110.36
2	Bb	46	THR	N-CA-C	5.39	119.37	112.26
1	Ak	30	VAL	N-CA-C	5.39	116.02	110.36
2	BA	46	THR	N-CA-C	5.39	119.37	112.26
2	BS	46	THR	N-CA-C	5.39	119.37	112.26
2	BZ	46	THR	N-CA-C	5.39	119.37	112.26
2	Bx	46	THR	N-CA-C	5.39	119.37	112.26
2	BX	46	THR	N-CA-C	5.38	119.37	112.26
2	BY	46	THR	N-CA-C	5.38	119.37	112.26
2	Bv	46	THR	N-CA-C	5.38	119.37	112.26
2	BV	46	THR	N-CA-C	5.38	119.37	112.26
2	Bd	46	THR	N-CA-C	5.38	119.36	112.26
3	CY	106	PHE	CA-C-N	-5.38	114.45	122.74
3	CY	106	PHE	C-N-CA	-5.38	114.45	122.74
3	C6	106	PHE	CA-C-N	-5.38	114.45	122.74
3	C6	106	PHE	C-N-CA	-5.38	114.45	122.74
2	BL	46	THR	N-CA-C	5.38	119.36	112.26
2	Bj	46	THR	N-CA-C	5.38	119.36	112.26
3	Cn	106	PHE	CA-C-N	-5.38	114.46	122.74
3	Cn	106	PHE	C-N-CA	-5.38	114.46	122.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CA	106	PHE	CA-C-N	-5.38	114.46	122.74
3	CA	106	PHE	C-N-CA	-5.38	114.46	122.74
3	CH	106	PHE	CA-C-N	-5.38	114.46	122.74
3	CH	106	PHE	C-N-CA	-5.38	114.46	122.74
3	Cs	106	PHE	CA-C-N	-5.38	114.46	122.74
3	Cs	106	PHE	C-N-CA	-5.38	114.46	122.74
1	AI	30	VAL	N-CA-C	5.38	116.01	110.36
2	BW	46	THR	N-CA-C	5.38	119.36	112.26
2	B7	46	THR	N-CA-C	5.38	119.36	112.26
2	B8	46	THR	N-CA-C	5.38	119.36	112.26
2	BT	46	THR	N-CA-C	5.37	119.35	112.26
2	B5	46	THR	N-CA-C	5.37	119.35	112.26
1	Ai	30	VAL	N-CA-C	5.37	116.00	110.36
2	B1	46	THR	N-CA-C	5.37	119.35	112.26
2	Br	46	THR	N-CA-C	5.37	119.35	112.26
3	C4	106	PHE	CA-C-N	-5.37	114.47	122.74
3	C4	106	PHE	C-N-CA	-5.37	114.47	122.74
1	DI	30	VAL	N-CA-C	5.37	116.00	110.36
2	BE	46	THR	N-CA-C	5.37	119.35	112.26
2	BK	46	THR	N-CA-C	5.37	119.35	112.26
2	BO	46	THR	N-CA-C	5.37	119.35	112.26
3	Cj	106	PHE	CA-C-N	-5.37	114.47	122.74
3	Cj	106	PHE	C-N-CA	-5.37	114.47	122.74
3	CG	106	PHE	CA-C-N	-5.37	114.47	122.74
3	CG	106	PHE	C-N-CA	-5.37	114.47	122.74
3	Cq	67	THR	CB-CA-C	-5.37	103.61	111.77
2	Bq	46	THR	N-CA-C	5.37	119.34	112.26
1	AL	30	VAL	N-CA-C	5.37	115.99	110.36
1	A2	30	VAL	N-CA-C	5.37	115.99	110.36
1	A7	30	VAL	N-CA-C	5.36	115.99	110.36
1	Ae	30	VAL	N-CA-C	5.36	115.99	110.36
2	Bg	46	THR	N-CA-C	5.36	119.34	112.26
3	Cg	106	PHE	CA-C-N	-5.36	114.48	122.74
3	Cg	106	PHE	C-N-CA	-5.36	114.48	122.74
2	Bo	46	THR	N-CA-C	5.36	119.34	112.26
3	Cq	106	PHE	CA-C-N	-5.36	114.48	122.74
3	Cq	106	PHE	C-N-CA	-5.36	114.48	122.74
1	AR	30	VAL	N-CA-C	5.36	115.99	110.36
1	Aa	30	VAL	N-CA-C	5.36	115.99	110.36
1	AV	30	VAL	N-CA-C	5.36	115.99	110.36
1	AW	67	ALA	N-CA-C	5.36	117.87	111.71
2	BP	46	THR	N-CA-C	5.36	119.33	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CK	106	PHE	CA-C-N	-5.36	114.49	122.74
3	CK	106	PHE	C-N-CA	-5.36	114.49	122.74
3	CU	11	SER	N-CA-C	5.36	122.21	110.80
3	CX	106	PHE	CA-C-N	-5.36	114.49	122.74
3	CX	106	PHE	C-N-CA	-5.36	114.49	122.74
3	Cq	11	SER	N-CA-C	5.36	122.21	110.80
3	Cw	106	PHE	CA-C-N	-5.36	114.49	122.74
3	Cw	106	PHE	C-N-CA	-5.36	114.49	122.74
1	Ac	30	VAL	N-CA-C	5.36	115.98	110.36
2	BC	46	THR	N-CA-C	5.36	119.33	112.26
2	Bh	46	THR	N-CA-C	5.36	119.33	112.26
3	C8	106	PHE	CA-C-N	-5.36	114.49	122.74
3	C8	106	PHE	C-N-CA	-5.36	114.49	122.74
3	DB	106	PHE	CA-C-N	-5.36	114.49	122.74
3	DB	106	PHE	C-N-CA	-5.36	114.49	122.74
2	B4	46	THR	N-CA-C	5.35	119.33	112.26
3	CP	106	PHE	CA-C-N	-5.35	114.50	122.74
3	CP	106	PHE	C-N-CA	-5.35	114.50	122.74
3	CW	67	THR	CB-CA-C	-5.35	103.63	111.77
1	AQ	30	VAL	N-CA-C	5.35	115.98	110.36
1	Ai	67	ALA	N-CA-C	5.35	117.86	111.71
2	BF	46	THR	N-CA-C	5.35	119.33	112.26
2	Bs	46	THR	N-CA-C	5.35	119.32	112.26
3	CC	106	PHE	CA-C-N	-5.35	114.50	122.74
3	CC	106	PHE	C-N-CA	-5.35	114.50	122.74
3	CN	106	PHE	CA-C-N	-5.35	114.50	122.74
3	CN	106	PHE	C-N-CA	-5.35	114.50	122.74
3	C5	106	PHE	CA-C-N	-5.35	114.50	122.74
3	C5	106	PHE	C-N-CA	-5.35	114.50	122.74
3	Cd	106	PHE	CA-C-N	-5.35	114.50	122.74
3	Cd	106	PHE	C-N-CA	-5.35	114.50	122.74
1	A6	30	VAL	N-CA-C	5.35	115.98	110.36
1	An	67	ALA	N-CA-C	5.35	117.86	111.71
2	Bf	46	THR	N-CA-C	5.35	119.32	112.26
2	Bi	46	THR	N-CA-C	5.35	119.32	112.26
3	CM	11	SER	N-CA-C	5.35	122.19	110.80
3	Ck	106	PHE	CA-C-N	-5.35	114.50	122.74
3	Ck	106	PHE	C-N-CA	-5.35	114.50	122.74
1	DJ	30	VAL	N-CA-C	5.35	115.98	110.36
1	DK	30	VAL	N-CA-C	5.35	115.98	110.36
1	AH	67	ALA	N-CA-C	5.35	117.86	111.71
2	Bk	46	THR	N-CA-C	5.35	119.32	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CF	11	SER	N-CA-C	5.35	122.19	110.80
3	Ct	106	PHE	CA-C-N	-5.35	114.50	122.74
3	Ct	106	PHE	C-N-CA	-5.35	114.50	122.74
1	Af	30	VAL	N-CA-C	5.35	115.97	110.36
3	CK	11	SER	N-CA-C	5.35	122.19	110.80
1	AV	67	ALA	N-CA-C	5.34	117.86	111.71
1	A5	67	ALA	N-CA-C	5.34	117.86	111.71
1	Am	30	VAL	N-CA-C	5.34	115.97	110.36
1	Am	67	ALA	N-CA-C	5.34	117.86	111.71
3	C0	106	PHE	CA-C-N	-5.34	114.51	122.74
3	C0	106	PHE	C-N-CA	-5.34	114.51	122.74
3	C7	106	PHE	CA-C-N	-5.34	114.51	122.74
3	C7	106	PHE	C-N-CA	-5.34	114.51	122.74
3	C9	106	PHE	CA-C-N	-5.34	114.51	122.74
3	C9	106	PHE	C-N-CA	-5.34	114.51	122.74
3	DB	67	THR	CB-CA-C	-5.34	103.65	111.77
1	AP	67	ALA	N-CA-C	5.34	117.86	111.71
1	Aj	30	VAL	N-CA-C	5.34	115.97	110.36
3	C1	67	THR	CB-CA-C	-5.34	103.65	111.77
1	DC	67	ALA	N-CA-C	5.34	117.85	111.71
1	AA	67	ALA	N-CA-C	5.34	117.85	111.71
1	AC	30	VAL	N-CA-C	5.34	115.97	110.36
1	AH	30	VAL	N-CA-C	5.34	115.97	110.36
1	A8	67	ALA	N-CA-C	5.34	117.85	111.71
2	BH	46	THR	N-CA-C	5.34	119.31	112.26
2	BM	46	THR	N-CA-C	5.34	119.31	112.26
2	Bp	46	THR	N-CA-C	5.34	119.31	112.26
3	CJ	106	PHE	CA-C-N	-5.34	114.52	122.74
3	CJ	106	PHE	C-N-CA	-5.34	114.52	122.74
3	CV	106	PHE	CA-C-N	-5.34	114.51	122.74
3	CV	106	PHE	C-N-CA	-5.34	114.51	122.74
1	AQ	67	ALA	N-CA-C	5.34	117.85	111.71
1	Af	67	ALA	N-CA-C	5.34	117.85	111.71
3	CC	11	SER	N-CA-C	5.34	122.17	110.80
3	CG	11	SER	N-CA-C	5.34	122.17	110.80
3	CH	11	SER	N-CA-C	5.34	122.17	110.80
3	CT	106	PHE	CA-C-N	-5.34	114.52	122.74
3	CT	106	PHE	C-N-CA	-5.34	114.52	122.74
3	CW	11	SER	N-CA-C	5.34	122.17	110.80
3	C8	169	VAL	N-CA-C	-5.34	105.64	110.82
3	Cx	106	PHE	CA-C-N	-5.34	114.52	122.74
3	Cx	106	PHE	C-N-CA	-5.34	114.52	122.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AS	30	VAL	N-CA-C	5.34	115.97	110.36
1	A8	30	VAL	N-CA-C	5.34	115.97	110.36
3	CS	106	PHE	CA-C-N	-5.34	114.52	122.74
3	CS	106	PHE	C-N-CA	-5.34	114.52	122.74
3	Cm	106	PHE	CA-C-N	-5.34	114.52	122.74
3	Cm	106	PHE	C-N-CA	-5.34	114.52	122.74
1	DF	30	VAL	N-CA-C	5.34	115.97	110.36
3	CB	106	PHE	CA-C-N	-5.34	114.52	122.74
3	CB	106	PHE	C-N-CA	-5.34	114.52	122.74
3	CC	67	THR	CB-CA-C	-5.34	103.66	111.77
3	CJ	169	VAL	N-CA-C	-5.34	105.64	110.82
3	CP	11	SER	N-CA-C	5.34	122.17	110.80
3	CZ	106	PHE	CA-C-N	-5.34	114.52	122.74
3	CZ	106	PHE	C-N-CA	-5.34	114.52	122.74
3	C2	106	PHE	CA-C-N	-5.34	114.52	122.74
3	C2	106	PHE	C-N-CA	-5.34	114.52	122.74
3	Ce	106	PHE	CA-C-N	-5.34	114.52	122.74
3	Ce	106	PHE	C-N-CA	-5.34	114.52	122.74
3	Ci	106	PHE	CA-C-N	-5.34	114.52	122.74
3	Ci	106	PHE	C-N-CA	-5.34	114.52	122.74
3	Cs	11	SER	N-CA-C	5.34	122.17	110.80
3	Cv	67	THR	CB-CA-C	-5.34	103.66	111.77
1	DE	67	ALA	N-CA-C	5.34	117.85	111.71
1	AC	67	ALA	N-CA-C	5.33	117.84	111.71
1	Ad	30	VAL	N-CA-C	5.33	115.96	110.36
3	CM	106	PHE	CA-C-N	-5.33	114.52	122.74
3	CM	106	PHE	C-N-CA	-5.33	114.52	122.74
3	CZ	11	SER	N-CA-C	5.33	122.16	110.80
1	DC	30	VAL	N-CA-C	5.33	115.96	110.36
1	AL	67	ALA	N-CA-C	5.33	117.84	111.71
1	Ag	30	VAL	N-CA-C	5.33	115.96	110.36
3	CE	106	PHE	CA-C-N	-5.33	114.53	122.74
3	CE	106	PHE	C-N-CA	-5.33	114.53	122.74
3	CR	106	PHE	CA-C-N	-5.33	114.53	122.74
3	CR	106	PHE	C-N-CA	-5.33	114.53	122.74
3	CX	11	SER	N-CA-C	5.33	122.16	110.80
3	C1	106	PHE	CA-C-N	-5.33	114.53	122.74
3	C1	106	PHE	C-N-CA	-5.33	114.53	122.74
3	DB	11	SER	N-CA-C	5.33	122.16	110.80
1	AM	30	VAL	N-CA-C	5.33	115.96	110.36
1	Ab	30	VAL	N-CA-C	5.33	115.96	110.36
3	CB	11	SER	N-CA-C	5.33	122.16	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CL	106	PHE	CA-C-N	-5.33	114.53	122.74
3	CL	106	PHE	C-N-CA	-5.33	114.53	122.74
3	CO	11	SER	N-CA-C	5.33	122.16	110.80
3	C4	11	SER	N-CA-C	5.33	122.16	110.80
3	Cj	11	SER	N-CA-C	5.33	122.16	110.80
3	Cu	106	PHE	CA-C-N	-5.33	114.53	122.74
3	Cu	106	PHE	C-N-CA	-5.33	114.53	122.74
3	Cv	106	PHE	CA-C-N	-5.33	114.53	122.74
3	Cv	106	PHE	C-N-CA	-5.33	114.53	122.74
1	AF	30	VAL	N-CA-C	5.33	115.96	110.36
1	A7	67	ALA	N-CA-C	5.33	117.84	111.71
3	CM	67	THR	CB-CA-C	-5.33	103.67	111.77
3	CO	106	PHE	CA-C-N	-5.33	114.53	122.74
3	CO	106	PHE	C-N-CA	-5.33	114.53	122.74
3	Ci	11	SER	N-CA-C	5.33	122.15	110.80
3	Cx	11	SER	N-CA-C	5.33	122.15	110.80
3	DA	106	PHE	CA-C-N	-5.33	114.53	122.74
3	DA	106	PHE	C-N-CA	-5.33	114.53	122.74
1	AZ	30	VAL	N-CA-C	5.33	115.95	110.36
1	A3	67	ALA	N-CA-C	5.33	117.84	111.71
2	Bn	46	THR	N-CA-C	5.33	119.30	112.26
3	Cr	106	PHE	CA-C-N	-5.33	114.53	122.74
3	Cr	106	PHE	C-N-CA	-5.33	114.53	122.74
3	Ct	11	SER	N-CA-C	5.33	122.15	110.80
1	AO	67	ALA	N-CA-C	5.33	117.84	111.71
3	Co	11	SER	N-CA-C	5.33	122.15	110.80
1	AO	30	VAL	N-CA-C	5.33	115.95	110.36
1	A1	67	ALA	N-CA-C	5.33	117.83	111.71
2	Ba	46	THR	N-CA-C	5.33	119.29	112.26
3	CA	11	SER	N-CA-C	5.33	122.14	110.80
3	CI	106	PHE	CA-C-N	-5.33	114.54	122.74
3	CI	106	PHE	C-N-CA	-5.33	114.54	122.74
3	CQ	106	PHE	CA-C-N	-5.33	114.54	122.74
3	CQ	106	PHE	C-N-CA	-5.33	114.54	122.74
3	CR	11	SER	N-CA-C	5.33	122.14	110.80
3	C7	169	VAL	N-CA-C	-5.33	105.66	110.82
1	AD	30	VAL	N-CA-C	5.32	115.95	110.36
1	AT	67	ALA	N-CA-C	5.32	117.83	111.71
3	CD	106	PHE	CA-C-N	-5.32	114.54	122.74
3	CD	106	PHE	C-N-CA	-5.32	114.54	122.74
3	CV	11	SER	N-CA-C	5.32	122.14	110.80
3	Cg	11	SER	N-CA-C	5.32	122.14	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cm	11	SER	N-CA-C	5.32	122.14	110.80
1	AB	30	VAL	N-CA-C	5.32	115.95	110.36
1	AE	30	VAL	N-CA-C	5.32	115.95	110.36
1	AY	30	VAL	N-CA-C	5.32	115.95	110.36
1	Ae	67	ALA	N-CA-C	5.32	117.83	111.71
3	CW	106	PHE	CA-C-N	-5.32	114.54	122.74
3	CW	106	PHE	C-N-CA	-5.32	114.54	122.74
3	C6	11	SER	N-CA-C	5.32	122.14	110.80
1	AF	67	ALA	N-CA-C	5.32	117.83	111.71
1	Aa	67	ALA	N-CA-C	5.32	117.83	111.71
3	Cg	67	THR	CB-CA-C	-5.32	103.68	111.77
3	Cn	11	SER	N-CA-C	5.32	122.13	110.80
3	C1	11	SER	N-CA-C	5.32	122.13	110.80
3	Ce	11	SER	N-CA-C	5.32	122.13	110.80
3	DA	67	THR	CB-CA-C	-5.32	103.69	111.77
1	Ac	67	ALA	N-CA-C	5.32	117.83	111.71
3	C0	67	THR	CB-CA-C	-5.32	103.69	111.77
3	Cf	11	SER	N-CA-C	5.32	122.13	110.80
3	Cl	11	SER	N-CA-C	5.32	122.12	110.80
3	Cl	67	THR	CB-CA-C	-5.32	103.69	111.77
3	Cr	169	VAL	N-CA-C	-5.32	105.66	110.82
3	Cv	11	SER	N-CA-C	5.32	122.13	110.80
1	AA	30	VAL	N-CA-C	5.32	115.94	110.36
3	CR	67	THR	CB-CA-C	-5.32	103.69	111.77
3	C6	67	THR	CB-CA-C	-5.32	103.69	111.77
3	Ci	67	THR	CB-CA-C	-5.32	103.69	111.77
3	Cl	106	PHE	CA-C-N	-5.32	114.56	122.74
3	Cl	106	PHE	C-N-CA	-5.32	114.56	122.74
3	Cp	106	PHE	CA-C-N	-5.32	114.55	122.74
3	Cp	106	PHE	C-N-CA	-5.32	114.55	122.74
1	AN	67	ALA	N-CA-C	5.31	117.82	111.71
3	C9	11	SER	N-CA-C	5.31	122.12	110.80
1	AU	67	ALA	N-CA-C	5.31	117.82	111.71
1	AW	30	VAL	N-CA-C	5.31	115.94	110.36
3	CD	11	SER	N-CA-C	5.31	122.12	110.80
3	CY	11	SER	N-CA-C	5.31	122.11	110.80
3	CY	67	THR	CB-CA-C	-5.31	103.69	111.77
3	Ch	106	PHE	CA-C-N	-5.31	114.56	122.74
3	Ch	106	PHE	C-N-CA	-5.31	114.56	122.74
1	AK	30	VAL	N-CA-C	5.31	115.94	110.36
3	Cd	11	SER	N-CA-C	5.31	122.11	110.80
3	DA	11	SER	N-CA-C	5.31	122.11	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AJ	30	VAL	N-CA-C	5.31	115.94	110.36
3	CG	169	VAL	N-CA-C	-5.31	105.67	110.82
3	CN	11	SER	N-CA-C	5.31	122.11	110.80
3	CQ	11	SER	N-CA-C	5.31	122.11	110.80
3	C5	11	SER	N-CA-C	5.31	122.11	110.80
1	AD	67	ALA	N-CA-C	5.31	117.81	111.71
1	AY	67	ALA	N-CA-C	5.31	117.81	111.71
3	Cc	106	PHE	CA-C-N	-5.31	114.57	122.74
3	Cc	106	PHE	C-N-CA	-5.31	114.57	122.74
3	Cp	67	THR	CB-CA-C	-5.31	103.70	111.77
1	AU	30	VAL	N-CA-C	5.31	115.93	110.36
1	Aj	67	ALA	N-CA-C	5.31	117.81	111.71
3	CH	67	THR	CB-CA-C	-5.31	103.70	111.77
3	Cd	67	THR	CB-CA-C	-5.31	103.70	111.77
3	Cm	150	LEU	N-CA-C	-5.31	99.50	110.80
1	A3	30	VAL	N-CA-C	5.30	115.93	110.36
1	Ag	67	ALA	N-CA-C	5.30	117.81	111.71
1	Ah	30	VAL	N-CA-C	5.30	115.93	110.36
1	Al	30	VAL	N-CA-C	5.30	115.93	110.36
1	An	30	VAL	N-CA-C	5.30	115.93	110.36
3	CB	67	THR	CB-CA-C	-5.30	103.71	111.77
3	CT	67	THR	CB-CA-C	-5.30	103.71	111.77
3	Cf	106	PHE	CA-C-N	-5.30	114.57	122.74
3	Cf	106	PHE	C-N-CA	-5.30	114.57	122.74
1	DK	67	ALA	N-CA-C	5.30	117.81	111.71
3	Ch	11	SER	N-CA-C	5.30	122.09	110.80
1	AB	67	ALA	N-CA-C	5.30	117.81	111.71
1	A1	30	VAL	N-CA-C	5.30	115.93	110.36
3	CE	11	SER	N-CA-C	5.30	122.09	110.80
3	CQ	67	THR	CB-CA-C	-5.30	103.71	111.77
3	CS	150	LEU	N-CA-C	-5.30	99.51	110.80
1	AN	30	VAL	N-CA-C	5.30	115.92	110.36
1	AS	67	ALA	N-CA-C	5.30	117.80	111.71
3	CF	150	LEU	N-CA-C	-5.30	99.51	110.80
3	CT	11	SER	N-CA-C	5.30	122.09	110.80
3	C5	169	VAL	N-CA-C	-5.30	105.68	110.82
3	C8	11	SER	N-CA-C	5.30	122.09	110.80
3	C9	169	VAL	N-CA-C	-5.30	105.68	110.82
3	Cc	11	SER	N-CA-C	5.30	122.09	110.80
3	Ch	150	LEU	N-CA-C	-5.30	99.51	110.80
1	DD	30	VAL	N-CA-C	5.30	115.92	110.36
1	Ad	67	ALA	N-CA-C	5.30	117.80	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CE	67	THR	CB-CA-C	-5.30	103.72	111.77
3	Ck	11	SER	N-CA-C	5.30	122.08	110.80
3	Cw	67	THR	CB-CA-C	-5.30	103.72	111.77
1	AR	67	ALA	N-CA-C	5.30	117.80	111.71
1	Ah	67	ALA	N-CA-C	5.30	117.80	111.71
3	CI	150	LEU	N-CA-C	-5.30	99.52	110.80
1	AI	67	ALA	N-CA-C	5.29	117.80	111.71
1	A0	67	ALA	N-CA-C	5.29	117.80	111.71
3	C7	11	SER	N-CA-C	5.29	122.08	110.80
3	Cv	169	VAL	N-CA-C	-5.29	105.68	110.82
1	DH	67	ALA	N-CA-C	5.29	117.80	111.71
3	CL	67	THR	CB-CA-C	-5.29	103.72	111.77
3	C2	11	SER	N-CA-C	5.29	122.08	110.80
3	C9	67	THR	CB-CA-C	-5.29	103.72	111.77
3	Cw	150	LEU	N-CA-C	-5.29	99.53	110.80
1	DD	67	ALA	N-CA-C	5.29	117.80	111.71
3	CI	11	SER	N-CA-C	5.29	122.07	110.80
3	CL	11	SER	N-CA-C	5.29	122.07	110.80
3	CX	150	LEU	N-CA-C	-5.29	99.53	110.80
3	Cp	11	SER	N-CA-C	5.29	122.07	110.80
1	AM	67	ALA	N-CA-C	5.29	117.79	111.71
1	A4	30	VAL	N-CA-C	5.29	115.91	110.36
3	CO	67	THR	CB-CA-C	-5.29	103.73	111.77
1	A9	67	ALA	N-CA-C	5.29	117.79	111.71
3	Ch	67	THR	CB-CA-C	-5.29	103.73	111.77
3	Cm	169	VAL	N-CA-C	-5.29	105.69	110.82
3	Cr	11	SER	N-CA-C	5.29	122.06	110.80
3	Cu	11	SER	N-CA-C	5.29	122.06	110.80
3	Cu	67	THR	CB-CA-C	-5.29	103.73	111.77
1	AK	67	ALA	N-CA-C	5.29	117.79	111.71
3	CD	150	LEU	N-CA-C	-5.29	99.54	110.80
3	CX	67	THR	CB-CA-C	-5.29	103.73	111.77
3	Cd	150	LEU	N-CA-C	-5.29	99.54	110.80
3	Cn	67	THR	CB-CA-C	-5.29	103.73	111.77
3	Cw	11	SER	N-CA-C	5.29	122.06	110.80
1	AX	67	ALA	N-CA-C	5.29	117.79	111.71
3	CS	11	SER	N-CA-C	5.29	122.06	110.80
3	C2	67	THR	CB-CA-C	-5.29	103.74	111.77
3	CK	150	LEU	N-CA-C	-5.28	99.55	110.80
3	CX	169	VAL	N-CA-C	-5.28	105.69	110.82
3	C3	11	SER	N-CA-C	5.28	122.05	110.80
3	C4	67	THR	CB-CA-C	-5.28	103.74	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C5	67	THR	CB-CA-C	-5.28	103.74	111.77
3	C8	67	THR	CB-CA-C	-5.28	103.74	111.77
3	C8	150	LEU	N-CA-C	-5.28	99.55	110.80
3	Cc	150	LEU	N-CA-C	-5.28	99.55	110.80
1	DJ	67	ALA	N-CA-C	5.28	117.79	111.71
3	CN	67	THR	CB-CA-C	-5.28	103.74	111.77
3	C0	11	SER	N-CA-C	5.28	122.05	110.80
3	CJ	11	SER	N-CA-C	5.28	122.05	110.80
3	CY	150	LEU	N-CA-C	-5.28	99.55	110.80
3	Ck	67	THR	CB-CA-C	-5.28	103.74	111.77
1	A9	30	VAL	N-CA-C	5.28	115.90	110.36
1	Ao	67	ALA	N-CA-C	5.28	117.78	111.71
3	Cm	67	THR	CB-CA-C	-5.28	103.75	111.77
3	Ct	169	VAL	N-CA-C	-5.28	105.70	110.82
1	AG	67	ALA	N-CA-C	5.28	117.78	111.71
3	CD	69	GLY	N-CA-C	5.28	120.70	111.78
3	CG	67	THR	CB-CA-C	-5.28	103.75	111.77
3	CV	67	THR	CB-CA-C	-5.28	103.75	111.77
3	CX	69	GLY	N-CA-C	5.28	120.70	111.78
3	Cx	67	THR	CB-CA-C	-5.28	103.75	111.77
1	DE	30	VAL	N-CA-C	5.28	115.90	110.36
1	DG	30	VAL	N-CA-C	5.28	115.90	110.36
1	AE	67	ALA	N-CA-C	5.28	117.78	111.71
1	A4	67	ALA	N-CA-C	5.28	117.78	111.71
1	Ab	67	ALA	N-CA-C	5.28	117.78	111.71
3	CJ	150	LEU	N-CA-C	-5.28	99.56	110.80
3	CU	69	GLY	N-CA-C	5.28	120.69	111.78
3	Ce	150	LEU	N-CA-C	-5.28	99.56	110.80
1	Ao	30	VAL	N-CA-C	5.27	115.90	110.36
3	CN	169	VAL	N-CA-C	-5.27	105.70	110.82
1	AX	30	VAL	N-CA-C	5.27	115.90	110.36
3	CP	169	VAL	N-CA-C	-5.27	105.70	110.82
3	C4	169	VAL	N-CA-C	-5.27	105.70	110.82
3	Cc	67	THR	CB-CA-C	-5.27	103.76	111.77
3	Ck	150	LEU	N-CA-C	-5.27	99.57	110.80
1	A6	67	ALA	N-CA-C	5.27	117.77	111.71
3	Cv	150	LEU	N-CA-C	-5.27	99.57	110.80
1	AT	30	VAL	N-CA-C	5.27	115.89	110.36
3	CD	67	THR	CB-CA-C	-5.27	103.76	111.77
3	CH	150	LEU	N-CA-C	-5.27	99.57	110.80
3	C3	67	THR	CB-CA-C	-5.27	103.76	111.77
1	DG	67	ALA	N-CA-C	5.27	117.77	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CF	67	THR	CB-CA-C	-5.27	103.76	111.77
3	CZ	169	VAL	N-CA-C	-5.27	105.71	110.82
3	C6	150	LEU	N-CA-C	-5.27	99.58	110.80
3	Co	150	LEU	N-CA-C	-5.27	99.58	110.80
3	DB	150	LEU	N-CA-C	-5.27	99.58	110.80
1	AJ	67	ALA	N-CA-C	5.27	117.77	111.71
3	Ch	169	VAL	N-CA-C	-5.27	105.71	110.82
1	DF	67	ALA	N-CA-C	5.27	117.77	111.71
3	CO	150	LEU	N-CA-C	-5.26	99.58	110.80
3	CU	169	VAL	N-CA-C	-5.26	105.71	110.82
3	Cg	150	LEU	N-CA-C	-5.26	99.59	110.80
3	Cw	169	VAL	N-CA-C	-5.26	105.71	110.82
3	Cx	150	LEU	N-CA-C	-5.26	99.58	110.80
1	DI	67	ALA	N-CA-C	5.26	117.76	111.71
3	CH	169	VAL	N-CA-C	-5.26	105.72	110.82
3	CK	67	THR	CB-CA-C	-5.26	103.77	111.77
3	CU	67	THR	CB-CA-C	-5.26	103.77	111.77
3	Cc	69	GLY	N-CA-C	5.26	120.67	111.78
3	Cp	69	GLY	N-CA-C	5.26	120.67	111.78
3	Cr	67	THR	CB-CA-C	-5.26	103.77	111.77
3	CJ	67	THR	CB-CA-C	-5.26	103.77	111.77
3	CN	150	LEU	N-CA-C	-5.26	99.59	110.80
3	CZ	150	LEU	N-CA-C	-5.26	99.59	110.80
3	C7	67	THR	CB-CA-C	-5.26	103.77	111.77
3	C9	150	LEU	N-CA-C	-5.26	99.59	110.80
3	Cf	67	THR	CB-CA-C	-5.26	103.77	111.77
3	Cp	169	VAL	N-CA-C	-5.26	105.72	110.82
3	CE	169	VAL	N-CA-C	-5.26	105.72	110.82
3	CT	169	VAL	N-CA-C	-5.26	105.72	110.82
3	C1	150	LEU	N-CA-C	-5.26	99.60	110.80
3	Cm	69	GLY	N-CA-C	5.26	120.67	111.78
3	Cn	150	LEU	N-CA-C	-5.26	99.60	110.80
3	Co	169	VAL	N-CA-C	-5.26	105.72	110.82
3	Cs	67	THR	CB-CA-C	-5.26	103.78	111.77
3	Cs	69	GLY	N-CA-C	5.26	120.67	111.78
3	Ct	67	THR	CB-CA-C	-5.26	103.78	111.77
3	DB	169	VAL	N-CA-C	-5.26	105.72	110.82
3	CA	67	THR	CB-CA-C	-5.26	103.78	111.77
3	CV	150	LEU	N-CA-C	-5.26	99.60	110.80
3	C2	150	LEU	N-CA-C	-5.26	99.60	110.80
3	Ce	67	THR	CB-CA-C	-5.26	103.78	111.77
3	CA	150	LEU	N-CA-C	-5.26	99.60	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CH	69	GLY	N-CA-C	5.26	120.67	111.78
3	C3	69	GLY	N-CA-C	5.26	120.66	111.78
3	Cj	67	THR	CB-CA-C	-5.26	103.78	111.77
3	DA	169	VAL	N-CA-C	-5.26	105.72	110.82
3	CK	169	VAL	N-CA-C	-5.25	105.72	110.82
3	C8	69	GLY	N-CA-C	5.25	120.66	111.78
3	CS	67	THR	CB-CA-C	-5.25	103.78	111.77
3	CV	69	GLY	N-CA-C	5.25	120.66	111.78
3	CW	150	LEU	N-CA-C	-5.25	99.61	110.80
3	CY	169	VAL	N-CA-C	-5.25	105.72	110.82
3	Cf	169	VAL	N-CA-C	-5.25	105.72	110.82
3	Cl	150	LEU	N-CA-C	-5.25	99.61	110.80
3	Cw	69	GLY	N-CA-C	5.25	120.66	111.78
1	AZ	67	ALA	N-CA-C	5.25	117.75	111.71
1	A2	67	ALA	N-CA-C	5.25	117.75	111.71
1	Al	67	ALA	N-CA-C	5.25	117.75	111.71
3	CI	69	GLY	N-CA-C	5.25	120.65	111.78
3	CY	69	GLY	N-CA-C	5.25	120.66	111.78
3	C3	169	VAL	N-CA-C	-5.25	105.72	110.82
3	Cr	69	GLY	N-CA-C	5.25	120.66	111.78
3	Cs	169	VAL	N-CA-C	-5.25	105.72	110.82
3	C6	69	GLY	N-CA-C	5.25	120.65	111.78
3	Cq	150	LEU	N-CA-C	-5.25	99.62	110.80
3	CC	150	LEU	N-CA-C	-5.25	99.62	110.80
3	CR	150	LEU	N-CA-C	-5.25	99.62	110.80
3	Cj	150	LEU	N-CA-C	-5.25	99.62	110.80
3	Cr	150	LEU	N-CA-C	-5.25	99.62	110.80
3	CA	169	VAL	N-CA-C	-5.25	105.73	110.82
3	CE	150	LEU	N-CA-C	-5.25	99.62	110.80
3	CS	69	GLY	N-CA-C	5.25	120.65	111.78
3	C3	150	LEU	N-CA-C	-5.25	99.62	110.80
3	C5	150	LEU	N-CA-C	-5.25	99.62	110.80
3	DA	150	LEU	N-CA-C	-5.25	99.62	110.80
3	CU	150	LEU	N-CA-C	-5.25	99.63	110.80
3	C4	150	LEU	N-CA-C	-5.25	99.63	110.80
3	Ci	69	GLY	N-CA-C	5.25	120.64	111.78
3	CB	169	VAL	N-CA-C	-5.24	105.73	110.82
3	CF	69	GLY	N-CA-C	5.24	120.64	111.78
3	C2	169	VAL	N-CA-C	-5.24	105.73	110.82
3	Cc	169	VAL	N-CA-C	-5.24	105.73	110.82
3	Cl	69	GLY	N-CA-C	5.24	120.64	111.78
3	Cu	150	LEU	N-CA-C	-5.24	99.63	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CI	67	THR	CB-CA-C	-5.24	103.80	111.77
3	CQ	169	VAL	N-CA-C	-5.24	105.74	110.82
1	AG	30	VAL	N-CA-C	5.24	115.86	110.36
3	CP	67	THR	CB-CA-C	-5.24	103.80	111.77
3	CP	150	LEU	N-CA-C	-5.24	99.64	110.80
3	C7	150	LEU	N-CA-C	-5.24	99.64	110.80
3	Cn	169	VAL	N-CA-C	-5.24	105.74	110.82
3	CK	69	GLY	N-CA-C	5.24	120.63	111.78
3	CO	169	VAL	N-CA-C	-5.24	105.74	110.82
3	CT	69	GLY	N-CA-C	5.24	120.63	111.78
3	CZ	69	GLY	N-CA-C	5.24	120.64	111.78
3	Cu	69	GLY	N-CA-C	5.24	120.63	111.78
3	CZ	67	THR	CB-CA-C	-5.24	103.81	111.77
3	C0	69	GLY	N-CA-C	5.24	120.63	111.78
3	Cf	69	GLY	N-CA-C	5.24	120.63	111.78
3	CB	150	LEU	N-CA-C	-5.24	99.65	110.80
3	CI	169	VAL	N-CA-C	-5.24	105.74	110.82
3	CS	169	VAL	N-CA-C	-5.24	105.74	110.82
3	C1	69	GLY	N-CA-C	5.24	120.63	111.78
3	Ci	150	LEU	N-CA-C	-5.24	99.65	110.80
3	Cl	169	VAL	N-CA-C	-5.24	105.74	110.82
3	Cn	69	GLY	N-CA-C	5.24	120.63	111.78
3	CL	150	LEU	N-CA-C	-5.23	99.65	110.80
3	CM	150	LEU	N-CA-C	-5.23	99.65	110.80
3	CV	169	VAL	N-CA-C	-5.23	105.74	110.82
3	Cp	150	LEU	N-CA-C	-5.23	99.65	110.80
3	CN	69	GLY	N-CA-C	5.23	120.62	111.78
3	CR	169	VAL	N-CA-C	-5.23	105.75	110.82
3	Cs	150	LEU	N-CA-C	-5.23	99.66	110.80
1	AC	140	PRO	N-CA-C	5.23	119.79	111.26
1	AN	140	PRO	N-CA-C	5.23	119.78	111.26
3	CQ	150	LEU	N-CA-C	-5.23	99.66	110.80
1	AP	30	VAL	N-CA-C	5.23	115.85	110.36
3	CE	69	GLY	N-CA-C	5.23	120.62	111.78
3	C1	169	VAL	N-CA-C	-5.23	105.75	110.82
3	Co	69	GLY	N-CA-C	5.23	120.62	111.78
3	DA	69	GLY	N-CA-C	5.23	120.62	111.78
1	DK	140	PRO	N-CA-C	5.23	119.78	111.26
3	CC	69	GLY	N-CA-C	5.23	120.61	111.78
3	CM	169	VAL	N-CA-C	-5.23	105.75	110.82
3	CT	150	LEU	N-CA-C	-5.23	99.67	110.80
3	C2	69	GLY	N-CA-C	5.23	120.61	111.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C7	69	GLY	N-CA-C	5.23	120.62	111.78
3	Cx	169	VAL	N-CA-C	-5.23	105.75	110.82
3	C0	169	VAL	N-CA-C	-5.23	105.75	110.82
1	An	140	PRO	N-CA-C	5.22	119.78	111.26
3	CB	69	GLY	N-CA-C	5.22	120.61	111.78
3	Ce	169	VAL	N-CA-C	-5.22	105.75	110.82
3	Cx	69	GLY	N-CA-C	5.22	120.61	111.78
1	DC	140	PRO	N-CA-C	5.22	119.77	111.26
1	Ae	140	PRO	N-CA-C	5.22	119.77	111.26
3	Co	67	THR	CB-CA-C	-5.22	103.83	111.77
3	C0	150	LEU	N-CA-C	-5.22	99.68	110.80
3	C5	69	GLY	N-CA-C	5.22	120.60	111.78
3	Ct	69	GLY	N-CA-C	5.22	120.60	111.78
3	Ct	150	LEU	N-CA-C	-5.22	99.68	110.80
1	DJ	140	PRO	N-CA-C	5.22	119.77	111.26
1	Aa	140	PRO	N-CA-C	5.22	119.77	111.26
3	CL	69	GLY	N-CA-C	5.22	120.60	111.78
3	Ce	69	GLY	N-CA-C	5.22	120.60	111.78
3	Ch	69	GLY	N-CA-C	5.22	120.60	111.78
3	CM	69	GLY	N-CA-C	5.22	120.60	111.78
3	Cf	150	LEU	N-CA-C	-5.22	99.69	110.80
1	AP	140	PRO	N-CA-C	5.22	119.76	111.26
3	CG	150	LEU	N-CA-C	-5.22	99.69	110.80
3	CJ	69	GLY	N-CA-C	5.22	120.59	111.78
3	CR	69	GLY	N-CA-C	5.22	120.59	111.78
3	Cg	169	VAL	N-CA-C	-5.22	105.76	110.82
1	A0	140	PRO	N-CA-C	5.21	119.76	111.26
3	CC	169	VAL	N-CA-C	-5.21	105.76	110.82
1	DG	140	PRO	N-CA-C	5.21	119.76	111.26
1	AQ	140	PRO	N-CA-C	5.21	119.76	111.26
1	AU	140	PRO	N-CA-C	5.21	119.76	111.26
3	C4	69	GLY	N-CA-C	5.21	120.59	111.78
1	Al	140	PRO	N-CA-C	5.21	119.76	111.26
3	CW	69	GLY	N-CA-C	5.21	120.59	111.78
1	Af	140	PRO	N-CA-C	5.21	119.75	111.26
1	Ah	140	PRO	N-CA-C	5.21	119.75	111.26
3	CD	169	VAL	N-CA-C	-5.21	105.77	110.82
3	CF	169	VAL	N-CA-C	-5.21	105.77	110.82
3	CL	169	VAL	N-CA-C	-5.21	105.77	110.82
3	CO	69	GLY	N-CA-C	5.21	120.58	111.78
1	AZ	140	PRO	N-CA-C	5.21	119.75	111.26
3	CA	69	GLY	N-CA-C	5.21	120.58	111.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C6	169	VAL	N-CA-C	-5.21	105.77	110.82
3	C9	69	GLY	N-CA-C	5.21	120.58	111.78
1	AG	140	PRO	N-CA-C	5.20	119.74	111.26
1	AK	140	PRO	N-CA-C	5.20	119.74	111.26
3	Cg	69	GLY	N-CA-C	5.20	120.58	111.78
1	Ab	140	PRO	N-CA-C	5.20	119.74	111.26
3	Cj	69	GLY	N-CA-C	5.20	120.57	111.78
1	AH	140	PRO	N-CA-C	5.20	119.74	111.26
1	AI	140	PRO	N-CA-C	5.20	119.74	111.26
1	Aa	191	HIS	N-CA-C	5.20	115.11	108.24
1	Ak	140	PRO	N-CA-C	5.20	119.74	111.26
3	CP	69	GLY	N-CA-C	5.20	120.57	111.78
3	CQ	69	GLY	N-CA-C	5.20	120.57	111.78
1	A5	140	PRO	N-CA-C	5.20	119.73	111.26
1	A6	140	PRO	N-CA-C	5.20	119.73	111.26
3	CG	69	GLY	N-CA-C	5.20	120.56	111.78
1	AD	140	PRO	N-CA-C	5.20	119.73	111.26
1	A7	140	PRO	N-CA-C	5.20	119.73	111.26
1	Aj	178	THR	CA-C-N	-5.20	114.36	122.05
1	Aj	178	THR	C-N-CA	-5.20	114.36	122.05
3	Cq	69	GLY	N-CA-C	5.20	120.56	111.78
1	AU	178	THR	CA-C-N	-5.19	114.36	122.05
1	AU	178	THR	C-N-CA	-5.19	114.36	122.05
1	A4	140	PRO	N-CA-C	5.19	119.72	111.26
1	Ac	178	THR	CA-C-N	-5.19	114.36	122.05
1	Ac	178	THR	C-N-CA	-5.19	114.36	122.05
3	Cd	69	GLY	N-CA-C	5.19	120.55	111.78
1	AA	140	PRO	N-CA-C	5.19	119.72	111.26
1	AB	140	PRO	N-CA-C	5.19	119.72	111.26
1	AJ	140	PRO	N-CA-C	5.19	119.72	111.26
1	AR	140	PRO	N-CA-C	5.19	119.72	111.26
3	Cv	69	GLY	N-CA-C	5.19	120.55	111.78
3	DB	69	GLY	N-CA-C	5.19	120.55	111.78
1	AO	140	PRO	N-CA-C	5.19	119.71	111.26
1	AW	140	PRO	N-CA-C	5.19	119.72	111.26
3	Ci	169	VAL	N-CA-C	-5.19	105.79	110.82
1	DG	191	HIS	N-CA-C	5.19	115.08	108.24
1	AF	140	PRO	N-CA-C	5.18	119.71	111.26
1	AY	140	PRO	N-CA-C	5.18	119.71	111.26
1	A2	140	PRO	N-CA-C	5.18	119.71	111.26
1	A9	140	PRO	N-CA-C	5.18	119.71	111.26
1	Ao	140	PRO	N-CA-C	5.18	119.71	111.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ck	169	VAL	N-CA-C	-5.18	105.79	110.82
3	Cq	169	VAL	N-CA-C	-5.18	105.79	110.82
1	A1	178	THR	CA-C-N	-5.18	114.38	122.05
1	A1	178	THR	C-N-CA	-5.18	114.38	122.05
1	Ad	140	PRO	N-CA-C	5.18	119.71	111.26
1	DF	140	PRO	N-CA-C	5.18	119.71	111.26
1	DF	191	HIS	N-CA-C	5.18	115.08	108.24
1	AO	178	THR	CA-C-N	-5.18	114.38	122.05
1	AO	178	THR	C-N-CA	-5.18	114.38	122.05
1	A8	191	HIS	N-CA-C	5.18	115.08	108.24
1	AR	178	THR	CA-C-N	-5.18	114.39	122.05
1	AR	178	THR	C-N-CA	-5.18	114.39	122.05
1	AS	140	PRO	N-CA-C	5.18	119.70	111.26
1	AZ	178	THR	CA-C-N	-5.18	114.38	122.05
1	AZ	178	THR	C-N-CA	-5.18	114.38	122.05
3	Cj	169	VAL	N-CA-C	-5.18	105.80	110.82
3	Cu	169	VAL	N-CA-C	-5.18	105.80	110.82
1	AV	140	PRO	N-CA-C	5.18	119.70	111.26
1	A6	178	THR	CA-C-N	-5.18	114.39	122.05
1	A6	178	THR	C-N-CA	-5.18	114.39	122.05
1	Ag	140	PRO	N-CA-C	5.18	119.70	111.26
1	AP	178	THR	CA-C-N	-5.18	114.39	122.05
1	AP	178	THR	C-N-CA	-5.18	114.39	122.05
1	AT	140	PRO	N-CA-C	5.18	119.70	111.26
1	AX	140	PRO	N-CA-C	5.18	119.70	111.26
3	CW	169	VAL	N-CA-C	-5.18	105.80	110.82
3	Cd	169	VAL	N-CA-C	-5.18	105.80	110.82
3	Ck	69	GLY	N-CA-C	5.18	120.53	111.78
1	Ac	140	PRO	N-CA-C	5.17	119.69	111.26
1	Ae	178	THR	CA-C-N	-5.17	114.39	122.05
1	Ae	178	THR	C-N-CA	-5.17	114.39	122.05
1	Ah	178	THR	CA-C-N	-5.17	114.39	122.05
1	Ah	178	THR	C-N-CA	-5.17	114.39	122.05
1	AM	140	PRO	N-CA-C	5.17	119.69	111.26
1	AE	140	PRO	N-CA-C	5.17	119.69	111.26
1	AL	140	PRO	N-CA-C	5.17	119.69	111.26
1	AQ	191	HIS	N-CA-C	5.17	115.07	108.24
1	A3	140	PRO	N-CA-C	5.17	119.69	111.26
1	DD	140	PRO	N-CA-C	5.17	119.69	111.26
1	DH	140	PRO	N-CA-C	5.17	119.69	111.26
1	An	191	HIS	N-CA-C	5.17	115.06	108.24
1	A0	191	HIS	N-CA-C	5.17	115.06	108.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A8	140	PRO	N-CA-C	5.17	119.69	111.26
1	Ak	178	THR	CA-C-N	-5.17	114.40	122.05
1	Ak	178	THR	C-N-CA	-5.17	114.40	122.05
1	AC	191	HIS	N-CA-C	5.17	115.06	108.24
1	AS	191	HIS	N-CA-C	5.17	115.06	108.24
1	Ai	140	PRO	N-CA-C	5.17	119.68	111.26
1	Ai	178	THR	CA-C-N	-5.17	114.40	122.05
1	Ai	178	THR	C-N-CA	-5.17	114.40	122.05
1	Am	191	HIS	N-CA-C	5.17	115.06	108.24
1	A1	140	PRO	N-CA-C	5.17	119.68	111.26
1	DE	140	PRO	N-CA-C	5.17	119.68	111.26
1	AN	191	HIS	N-CA-C	5.16	115.06	108.24
1	AP	191	HIS	N-CA-C	5.16	115.06	108.24
1	AZ	191	HIS	N-CA-C	5.16	115.06	108.24
1	A8	178	THR	CA-C-N	-5.16	114.41	122.05
1	A8	178	THR	C-N-CA	-5.16	114.41	122.05
1	Ai	191	HIS	N-CA-C	5.16	115.06	108.24
3	Cs	8	VAL	N-CA-CB	-5.16	103.98	111.21
1	DE	178	THR	CA-C-N	-5.16	114.41	122.05
1	DE	178	THR	C-N-CA	-5.16	114.41	122.05
1	AV	191	HIS	N-CA-C	5.16	115.05	108.24
1	Am	140	PRO	N-CA-C	5.16	119.67	111.26
3	Cx	8	VAL	N-CA-CB	-5.16	103.98	111.21
1	AE	178	THR	CA-C-N	-5.16	114.42	122.05
1	AE	178	THR	C-N-CA	-5.16	114.42	122.05
1	AJ	191	HIS	N-CA-C	5.16	115.05	108.24
1	Ak	191	HIS	N-CA-C	5.16	115.05	108.24
1	DH	191	HIS	N-CA-C	5.16	115.05	108.24
1	DI	140	PRO	N-CA-C	5.16	119.67	111.26
1	A0	178	THR	CA-C-N	-5.16	114.42	122.05
1	A0	178	THR	C-N-CA	-5.16	114.42	122.05
1	A3	178	THR	CA-C-N	-5.16	114.42	122.05
1	A3	178	THR	C-N-CA	-5.16	114.42	122.05
1	DF	178	THR	CA-C-N	-5.16	114.42	122.05
1	DF	178	THR	C-N-CA	-5.16	114.42	122.05
1	AE	191	HIS	N-CA-C	5.15	115.04	108.24
3	CT	8	VAL	N-CA-CB	-5.15	103.99	111.21
3	CX	8	VAL	N-CA-CB	-5.15	103.99	111.21
1	A4	178	THR	CA-C-N	-5.15	114.42	122.05
1	A4	178	THR	C-N-CA	-5.15	114.42	122.05
1	Af	191	HIS	N-CA-C	5.15	115.04	108.24
3	CS	8	VAL	N-CA-CB	-5.15	104.00	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DG	178	THR	CA-C-N	-5.15	114.42	122.05
1	DG	178	THR	C-N-CA	-5.15	114.42	122.05
1	AM	178	THR	CA-C-N	-5.15	114.43	122.05
1	AM	178	THR	C-N-CA	-5.15	114.43	122.05
1	Aj	140	PRO	N-CA-C	5.15	119.66	111.26
1	AO	191	HIS	N-CA-C	5.15	115.04	108.24
3	Ch	8	VAL	N-CA-CB	-5.15	104.00	111.21
3	Cr	8	VAL	N-CA-CB	-5.15	104.00	111.21
1	Ac	191	HIS	N-CA-C	5.15	115.03	108.24
3	CG	8	VAL	N-CA-CB	-5.15	104.01	111.21
1	AH	191	HIS	N-CA-C	5.14	115.03	108.24
1	AK	191	HIS	N-CA-C	5.14	115.03	108.24
1	AM	191	HIS	N-CA-C	5.14	115.03	108.24
1	Ag	178	THR	CA-C-N	-5.14	114.44	122.05
1	Ag	178	THR	C-N-CA	-5.14	114.44	122.05
3	CI	8	VAL	N-CA-CB	-5.14	104.01	111.21
1	DI	178	THR	CA-C-N	-5.14	114.44	122.05
1	DI	178	THR	C-N-CA	-5.14	114.44	122.05
1	DK	178	THR	CA-C-N	-5.14	114.44	122.05
1	DK	178	THR	C-N-CA	-5.14	114.44	122.05
1	AG	191	HIS	N-CA-C	5.14	115.03	108.24
1	AN	178	THR	CA-C-N	-5.14	114.44	122.05
1	AN	178	THR	C-N-CA	-5.14	114.44	122.05
1	AX	178	THR	CA-C-N	-5.14	114.44	122.05
1	AX	178	THR	C-N-CA	-5.14	114.44	122.05
3	Cw	8	VAL	N-CA-CB	-5.14	104.01	111.21
1	A9	178	THR	CA-C-N	-5.14	114.44	122.05
1	A9	178	THR	C-N-CA	-5.14	114.44	122.05
1	Ah	191	HIS	N-CA-C	5.14	115.03	108.24
1	A2	191	HIS	N-CA-C	5.14	115.02	108.24
3	CM	8	VAL	N-CA-CB	-5.14	104.01	111.21
1	DJ	178	THR	CA-C-N	-5.14	114.44	122.05
1	DJ	178	THR	C-N-CA	-5.14	114.44	122.05
1	AA	191	HIS	N-CA-C	5.14	115.02	108.24
1	AF	178	THR	CA-C-N	-5.14	114.45	122.05
1	AF	178	THR	C-N-CA	-5.14	114.45	122.05
1	AG	178	THR	CA-C-N	-5.14	114.44	122.05
1	AG	178	THR	C-N-CA	-5.14	114.44	122.05
1	AH	178	THR	CA-C-N	-5.14	114.45	122.05
1	AH	178	THR	C-N-CA	-5.14	114.45	122.05
1	Ad	191	HIS	N-CA-C	5.14	115.02	108.24
3	Cm	8	VAL	N-CA-CB	-5.14	104.02	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AD	191	HIS	N-CA-C	5.14	115.02	108.24
3	Ce	8	VAL	N-CA-CB	-5.14	104.02	111.21
1	DC	178	THR	CA-C-N	-5.14	114.45	122.05
1	DC	178	THR	C-N-CA	-5.14	114.45	122.05
3	CH	8	VAL	N-CA-CB	-5.13	104.02	111.21
1	DK	191	HIS	N-CA-C	5.13	115.02	108.24
1	AC	178	THR	CA-C-N	-5.13	114.45	122.05
1	AC	178	THR	C-N-CA	-5.13	114.45	122.05
1	AT	178	THR	CA-C-N	-5.13	114.45	122.05
1	AT	178	THR	C-N-CA	-5.13	114.45	122.05
1	Ab	191	HIS	N-CA-C	5.13	115.02	108.24
3	Cj	8	VAL	N-CA-CB	-5.13	104.02	111.21
1	AA	178	THR	CA-C-N	-5.13	114.45	122.05
1	AA	178	THR	C-N-CA	-5.13	114.45	122.05
1	AS	178	THR	CA-C-N	-5.13	114.46	122.05
1	AS	178	THR	C-N-CA	-5.13	114.46	122.05
1	Aa	178	THR	CA-C-N	-5.13	114.46	122.05
1	Aa	178	THR	C-N-CA	-5.13	114.46	122.05
1	An	178	THR	CA-C-N	-5.13	114.46	122.05
1	An	178	THR	C-N-CA	-5.13	114.46	122.05
3	CD	8	VAL	N-CA-CB	-5.13	104.03	111.21
3	C3	8	VAL	N-CA-CB	-5.13	104.03	111.21
1	AI	191	HIS	N-CA-C	5.13	115.01	108.24
1	Ae	191	HIS	N-CA-C	5.13	115.01	108.24
3	Cq	8	VAL	N-CA-CB	-5.13	104.03	111.21
1	DJ	191	HIS	N-CA-C	5.13	115.01	108.24
1	AA	212	ARG	N-CA-C	-5.13	100.68	109.24
1	AL	191	HIS	N-CA-C	5.13	115.01	108.24
1	AT	191	HIS	N-CA-C	5.13	115.01	108.24
1	Ad	178	THR	CA-C-N	-5.13	114.46	122.05
1	Ad	178	THR	C-N-CA	-5.13	114.46	122.05
1	Af	178	THR	CA-C-N	-5.13	114.46	122.05
1	Af	178	THR	C-N-CA	-5.13	114.46	122.05
1	An	212	ARG	N-CA-C	-5.13	100.68	109.24
3	CN	8	VAL	N-CA-CB	-5.13	104.03	111.21
3	Cp	8	VAL	N-CA-CB	-5.13	104.03	111.21
3	Cu	8	VAL	N-CA-CB	-5.13	104.03	111.21
1	AB	178	THR	CA-C-N	-5.12	114.47	122.05
1	AB	178	THR	C-N-CA	-5.12	114.47	122.05
1	AQ	178	THR	CA-C-N	-5.12	114.47	122.05
1	AQ	178	THR	C-N-CA	-5.12	114.47	122.05
1	AT	212	ARG	N-CA-C	-5.12	100.68	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AW	191	HIS	N-CA-C	5.12	115.00	108.24
3	CK	8	VAL	N-CA-CB	-5.12	104.04	111.21
3	Cf	8	VAL	N-CA-CB	-5.12	104.04	111.21
1	AX	191	HIS	N-CA-C	5.12	115.00	108.24
1	A5	178	THR	CA-C-N	-5.12	114.47	122.05
1	A5	178	THR	C-N-CA	-5.12	114.47	122.05
1	Al	178	THR	CA-C-N	-5.12	114.47	122.05
1	Al	178	THR	C-N-CA	-5.12	114.47	122.05
2	Bo	197	LEU	N-CA-C	5.12	117.75	109.40
3	CP	8	VAL	N-CA-CB	-5.12	104.04	111.21
3	C2	8	VAL	N-CA-CB	-5.12	104.04	111.21
3	Cf	102	GLY	N-CA-C	5.12	118.25	111.70
1	DD	178	THR	CA-C-N	-5.12	114.47	122.05
1	DD	178	THR	C-N-CA	-5.12	114.47	122.05
1	AK	178	THR	CA-C-N	-5.12	114.47	122.05
1	AK	178	THR	C-N-CA	-5.12	114.47	122.05
3	CC	8	VAL	N-CA-CB	-5.12	104.04	111.21
1	AI	178	THR	CA-C-N	-5.12	114.47	122.05
1	AI	178	THR	C-N-CA	-5.12	114.47	122.05
3	CE	8	VAL	N-CA-CB	-5.12	104.04	111.21
3	Cn	8	VAL	N-CA-CB	-5.12	104.04	111.21
1	Ao	178	THR	CA-C-N	-5.12	114.48	122.05
1	Ao	178	THR	C-N-CA	-5.12	114.48	122.05
1	AF	191	HIS	N-CA-C	5.12	114.99	108.24
1	AV	178	THR	CA-C-N	-5.12	114.48	122.05
1	AV	178	THR	C-N-CA	-5.12	114.48	122.05
1	Ab	178	THR	CA-C-N	-5.12	114.48	122.05
1	Ab	178	THR	C-N-CA	-5.12	114.48	122.05
1	Aj	191	HIS	N-CA-C	5.12	114.99	108.24
3	CV	8	VAL	N-CA-CB	-5.12	104.05	111.21
3	C8	8	VAL	N-CA-CB	-5.12	104.05	111.21
3	Ck	8	VAL	N-CA-CB	-5.12	104.05	111.21
3	CJ	8	VAL	N-CA-CB	-5.11	104.05	111.21
3	C7	8	VAL	N-CA-CB	-5.11	104.05	111.21
3	Ci	8	VAL	N-CA-CB	-5.11	104.05	111.21
1	AR	191	HIS	N-CA-C	5.11	114.99	108.24
1	AY	212	ARG	N-CA-C	-5.11	100.70	109.24
3	Cv	8	VAL	N-CA-CB	-5.11	104.05	111.21
1	Am	178	THR	CA-C-N	-5.11	114.49	122.05
1	Am	178	THR	C-N-CA	-5.11	114.49	122.05
3	C9	8	VAL	N-CA-CB	-5.11	104.05	111.21
1	DE	212	ARG	N-CA-C	-5.11	100.70	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DI	191	HIS	N-CA-C	5.11	114.98	108.24
3	Cc	8	VAL	N-CA-CB	-5.11	104.06	111.21
1	A9	212	ARG	N-CA-C	-5.11	100.71	109.24
1	Aj	212	ARG	N-CA-C	-5.11	100.71	109.24
1	Ao	191	HIS	N-CA-C	5.11	114.98	108.24
3	C1	8	VAL	N-CA-CB	-5.11	104.06	111.21
3	Cg	8	VAL	N-CA-CB	-5.11	104.06	111.21
1	AU	212	ARG	N-CA-C	-5.11	100.71	109.24
2	B7	197	LEU	N-CA-C	5.11	117.72	109.40
2	Bq	197	LEU	N-CA-C	5.11	117.72	109.40
3	C6	68	SER	N-CA-C	5.11	121.68	110.80
1	AW	178	THR	CA-C-N	-5.10	114.50	122.05
1	AW	178	THR	C-N-CA	-5.10	114.50	122.05
1	Al	191	HIS	N-CA-C	5.10	114.98	108.24
1	AD	178	THR	CA-C-N	-5.10	114.50	122.05
1	AD	178	THR	C-N-CA	-5.10	114.50	122.05
1	AL	178	THR	CA-C-N	-5.10	114.50	122.05
1	AL	178	THR	C-N-CA	-5.10	114.50	122.05
1	A1	191	HIS	N-CA-C	5.10	114.97	108.24
1	A2	178	THR	CA-C-N	-5.10	114.50	122.05
1	A2	178	THR	C-N-CA	-5.10	114.50	122.05
1	A7	191	HIS	N-CA-C	5.10	114.98	108.24
1	AU	191	HIS	N-CA-C	5.10	114.97	108.24
3	Cl	8	VAL	N-CA-CB	-5.10	104.07	111.21
1	AJ	178	THR	CA-C-N	-5.10	114.50	122.05
1	AJ	178	THR	C-N-CA	-5.10	114.50	122.05
1	AY	191	HIS	N-CA-C	5.10	114.97	108.24
1	A6	191	HIS	N-CA-C	5.10	114.97	108.24
3	CU	8	VAL	N-CA-CB	-5.10	104.07	111.21
3	CZ	8	VAL	N-CA-CB	-5.10	104.07	111.21
1	DE	191	HIS	N-CA-C	5.10	114.97	108.24
1	DH	178	THR	CA-C-N	-5.10	114.50	122.05
1	DH	178	THR	C-N-CA	-5.10	114.50	122.05
1	AV	212	ARG	N-CA-C	-5.10	100.73	109.24
1	A9	191	HIS	N-CA-C	5.10	114.97	108.24
1	Aa	212	ARG	N-CA-C	-5.10	100.73	109.24
3	CR	8	VAL	N-CA-CB	-5.10	104.08	111.21
1	A4	191	HIS	N-CA-C	5.10	114.97	108.24
1	A3	191	HIS	N-CA-C	5.09	114.97	108.24
1	A5	191	HIS	N-CA-C	5.09	114.97	108.24
1	A7	178	THR	CA-C-N	-5.09	114.51	122.05
1	A7	178	THR	C-N-CA	-5.09	114.51	122.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ac	212	ARG	N-CA-C	-5.09	100.73	109.24
1	Ad	212	ARG	N-CA-C	-5.09	100.73	109.24
3	CA	8	VAL	N-CA-CB	-5.09	104.08	111.21
1	AY	178	THR	CA-C-N	-5.09	114.51	122.05
1	AY	178	THR	C-N-CA	-5.09	114.51	122.05
3	C6	8	VAL	N-CA-CB	-5.09	104.08	111.21
3	Ck	102	GLY	N-CA-C	5.09	118.22	111.70
1	DG	212	ARG	N-CA-C	-5.09	100.73	109.24
1	AJ	212	ARG	N-CA-C	-5.09	100.74	109.24
1	AN	212	ARG	N-CA-C	-5.09	100.74	109.24
1	AQ	212	ARG	N-CA-C	-5.09	100.74	109.24
1	A8	212	ARG	N-CA-C	-5.09	100.74	109.24
3	C0	8	VAL	N-CA-CB	-5.09	104.08	111.21
3	C4	8	VAL	N-CA-CB	-5.09	104.08	111.21
1	Ag	191	HIS	N-CA-C	5.09	114.96	108.24
1	Ai	212	ARG	N-CA-C	-5.09	100.74	109.24
2	BS	197	LEU	N-CA-C	5.09	117.70	109.40
2	B4	197	LEU	N-CA-C	5.09	117.69	109.40
3	CB	8	VAL	N-CA-CB	-5.09	104.08	111.21
3	CO	8	VAL	N-CA-CB	-5.09	104.08	111.21
3	CY	8	VAL	N-CA-CB	-5.09	104.08	111.21
1	A5	212	ARG	N-CA-C	-5.09	100.74	109.24
1	Af	212	ARG	N-CA-C	-5.09	100.74	109.24
2	BW	197	LEU	N-CA-C	5.09	117.69	109.40
3	CH	102	GLY	N-CA-C	5.09	118.21	111.70
3	C5	8	VAL	N-CA-CB	-5.09	104.09	111.21
1	DC	191	HIS	N-CA-C	5.09	114.95	108.24
1	DK	212	ARG	N-CA-C	-5.09	100.75	109.24
1	AF	212	ARG	N-CA-C	-5.08	100.75	109.24
1	A7	212	ARG	N-CA-C	-5.08	100.75	109.24
1	Ao	212	ARG	N-CA-C	-5.08	100.75	109.24
3	Cd	8	VAL	N-CA-CB	-5.08	104.09	111.21
1	DF	212	ARG	N-CA-C	-5.08	100.75	109.24
1	AX	212	ARG	N-CA-C	-5.08	100.75	109.24
1	A3	212	ARG	N-CA-C	-5.08	100.75	109.24
1	Ak	212	ARG	N-CA-C	-5.08	100.75	109.24
3	CF	8	VAL	N-CA-CB	-5.08	104.09	111.21
3	CI	68	SER	N-CA-C	5.08	121.63	110.80
3	CW	68	SER	N-CA-C	5.08	121.63	110.80
3	C5	102	GLY	N-CA-C	5.08	118.21	111.70
3	Cr	68	SER	N-CA-C	5.08	121.63	110.80
3	Ct	8	VAL	N-CA-CB	-5.08	104.09	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cv	68	SER	N-CA-C	5.08	121.63	110.80
1	AB	191	HIS	N-CA-C	5.08	114.95	108.24
1	AZ	212	ARG	N-CA-C	-5.08	100.75	109.24
2	BG	197	LEU	N-CA-C	5.08	117.68	109.40
2	BH	197	LEU	N-CA-C	5.08	117.68	109.40
2	Bb	197	LEU	N-CA-C	5.08	117.68	109.40
3	CQ	8	VAL	N-CA-CB	-5.08	104.09	111.21
3	CX	68	SER	N-CA-C	5.08	121.62	110.80
3	Cw	68	SER	N-CA-C	5.08	121.62	110.80
1	DJ	212	ARG	N-CA-C	-5.08	100.75	109.24
1	AL	212	ARG	N-CA-C	-5.08	100.76	109.24
2	BQ	197	LEU	N-CA-C	5.08	117.68	109.40
2	Bw	197	LEU	N-CA-C	5.08	117.68	109.40
3	CI	76	MET	CA-C-N	-5.08	114.16	121.42
3	CI	76	MET	C-N-CA	-5.08	114.16	121.42
3	CJ	68	SER	N-CA-C	5.08	121.62	110.80
1	AE	212	ARG	N-CA-C	-5.08	100.76	109.24
1	AG	212	ARG	N-CA-C	-5.08	100.76	109.24
1	Am	212	ARG	N-CA-C	-5.08	100.76	109.24
3	C7	68	SER	N-CA-C	5.08	121.62	110.80
1	DD	191	HIS	N-CA-C	5.08	114.94	108.24
1	DC	212	ARG	N-CA-C	-5.08	100.76	109.24
1	AB	212	ARG	N-CA-C	-5.08	100.76	109.24
2	BD	197	LEU	N-CA-C	5.08	117.67	109.40
2	Bh	197	LEU	N-CA-C	5.08	117.67	109.40
3	Co	8	VAL	N-CA-CB	-5.08	104.10	111.21
3	DA	8	VAL	N-CA-CB	-5.08	104.10	111.21
1	AK	212	ARG	N-CA-C	-5.07	100.77	109.24
2	BV	197	LEU	N-CA-C	5.07	117.67	109.40
2	BY	197	LEU	N-CA-C	5.07	117.67	109.40
3	CS	68	SER	N-CA-C	5.07	121.61	110.80
3	CY	68	SER	N-CA-C	5.07	121.61	110.80
3	C4	68	SER	N-CA-C	5.07	121.61	110.80
3	DB	8	VAL	N-CA-CB	-5.07	104.11	111.21
1	AO	212	ARG	N-CA-C	-5.07	100.77	109.24
1	Ac	32	PHE	N-CA-C	-5.07	105.66	111.14
2	BZ	197	LEU	N-CA-C	5.07	117.67	109.40
1	AH	212	ARG	N-CA-C	-5.07	100.77	109.24
1	Ae	212	ARG	N-CA-C	-5.07	100.77	109.24
2	BM	197	LEU	N-CA-C	5.07	117.67	109.40
2	BX	197	LEU	N-CA-C	5.07	117.67	109.40
2	Bl	197	LEU	N-CA-C	5.07	117.66	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CA	68	SER	N-CA-C	5.07	121.60	110.80
3	Cw	76	MET	CA-C-N	-5.07	114.17	121.42
3	Cw	76	MET	C-N-CA	-5.07	114.17	121.42
1	DI	212	ARG	N-CA-C	-5.07	100.77	109.24
2	BB	197	LEU	N-CA-C	5.07	117.66	109.40
2	Bp	197	LEU	N-CA-C	5.07	117.66	109.40
2	Br	197	LEU	N-CA-C	5.07	117.66	109.40
3	CN	102	GLY	N-CA-C	5.07	118.19	111.70
3	C0	102	GLY	N-CA-C	5.07	118.19	111.70
3	Cq	68	SER	N-CA-C	5.07	121.59	110.80
1	Ab	212	ARG	N-CA-C	-5.07	100.78	109.24
2	BI	197	LEU	N-CA-C	5.07	117.66	109.40
3	CH	68	SER	N-CA-C	5.07	121.59	110.80
3	CQ	102	GLY	N-CA-C	5.07	118.18	111.70
3	CR	68	SER	N-CA-C	5.07	121.59	110.80
3	CW	8	VAL	N-CA-CB	-5.07	104.12	111.21
3	CW	102	GLY	N-CA-C	5.07	118.18	111.70
3	C1	68	SER	N-CA-C	5.07	121.59	110.80
3	C2	68	SER	N-CA-C	5.07	121.59	110.80
1	AP	212	ARG	N-CA-C	-5.06	100.78	109.24
2	Bw	154	GLN	N-CA-C	5.06	119.15	112.92
3	CL	8	VAL	N-CA-CB	-5.06	104.12	111.21
3	Ch	76	MET	CA-C-N	-5.06	114.18	121.42
3	Ch	76	MET	C-N-CA	-5.06	114.18	121.42
2	BU	197	LEU	N-CA-C	5.06	117.65	109.40
2	Ba	197	LEU	N-CA-C	5.06	117.65	109.40
3	Cg	68	SER	N-CA-C	5.06	121.58	110.80
3	Ch	68	SER	N-CA-C	5.06	121.58	110.80
3	Cj	68	SER	N-CA-C	5.06	121.58	110.80
3	Cl	68	SER	N-CA-C	5.06	121.58	110.80
2	BE	197	LEU	N-CA-C	5.06	117.65	109.40
3	CC	68	SER	N-CA-C	5.06	121.58	110.80
3	CK	76	MET	CA-C-N	-5.06	114.18	121.42
3	CK	76	MET	C-N-CA	-5.06	114.18	121.42
1	DD	212	ARG	N-CA-C	-5.06	100.79	109.24
1	AI	212	ARG	N-CA-C	-5.06	100.79	109.24
1	A4	212	ARG	N-CA-C	-5.06	100.79	109.24
3	CZ	68	SER	N-CA-C	5.06	121.58	110.80
3	Ce	76	MET	CA-C-N	-5.06	114.18	121.42
3	Ce	76	MET	C-N-CA	-5.06	114.18	121.42
3	Ci	68	SER	N-CA-C	5.06	121.58	110.80
3	Ct	102	GLY	N-CA-C	5.06	118.18	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DA	102	GLY	N-CA-C	5.06	118.18	111.70
1	DH	212	ARG	N-CA-C	-5.06	100.79	109.24
1	AC	212	ARG	N-CA-C	-5.06	100.80	109.24
1	AP	32	PHE	N-CA-C	-5.06	105.68	111.14
1	Ah	212	ARG	N-CA-C	-5.06	100.79	109.24
2	B1	197	LEU	N-CA-C	5.06	117.64	109.40
2	B9	197	LEU	N-CA-C	5.06	117.64	109.40
3	CD	102	GLY	N-CA-C	5.06	118.17	111.70
3	Co	68	SER	N-CA-C	5.06	121.57	110.80
3	Ct	68	SER	N-CA-C	5.06	121.57	110.80
1	A2	212	ARG	N-CA-C	-5.06	100.80	109.24
2	Bj	197	LEU	N-CA-C	5.06	117.64	109.40
3	CF	68	SER	N-CA-C	5.06	121.57	110.80
1	AS	212	ARG	N-CA-C	-5.05	100.80	109.24
2	B0	197	LEU	N-CA-C	5.05	117.64	109.40
2	B3	197	LEU	N-CA-C	5.05	117.64	109.40
2	Bv	197	LEU	N-CA-C	5.05	117.64	109.40
3	CI	102	GLY	N-CA-C	5.05	118.17	111.70
3	CO	76	MET	CA-C-N	-5.05	114.19	121.42
3	CO	76	MET	C-N-CA	-5.05	114.19	121.42
3	Ce	68	SER	N-CA-C	5.05	121.57	110.80
1	A2	32	PHE	N-CA-C	-5.05	105.68	111.14
2	Bi	197	LEU	N-CA-C	5.05	117.64	109.40
1	A1	212	ARG	N-CA-C	-5.05	100.80	109.24
2	BN	197	LEU	N-CA-C	5.05	117.63	109.40
2	B2	197	LEU	N-CA-C	5.05	117.63	109.40
3	CB	102	GLY	N-CA-C	5.05	118.17	111.70
3	Ch	102	GLY	N-CA-C	5.05	118.17	111.70
3	Cs	68	SER	N-CA-C	5.05	121.56	110.80
1	A0	212	ARG	N-CA-C	-5.05	100.81	109.24
1	Ag	212	ARG	N-CA-C	-5.05	100.81	109.24
2	BK	197	LEU	N-CA-C	5.05	117.63	109.40
2	Bg	197	LEU	N-CA-C	5.05	117.63	109.40
2	Bu	197	LEU	N-CA-C	5.05	117.63	109.40
3	CC	102	GLY	N-CA-C	5.05	118.16	111.70
3	CG	102	GLY	N-CA-C	5.05	118.16	111.70
3	CL	76	MET	CA-C-N	-5.05	114.20	121.42
3	CL	76	MET	C-N-CA	-5.05	114.20	121.42
3	CN	68	SER	N-CA-C	5.05	121.56	110.80
3	CS	102	GLY	N-CA-C	5.05	118.16	111.70
3	CU	102	GLY	N-CA-C	5.05	118.16	111.70
3	C8	68	SER	N-CA-C	5.05	121.55	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C9	76	MET	CA-C-N	-5.05	114.20	121.42
3	C9	76	MET	C-N-CA	-5.05	114.20	121.42
2	Bx	197	LEU	N-CA-C	5.05	117.63	109.40
3	CE	68	SER	N-CA-C	5.05	121.55	110.80
3	DA	68	SER	N-CA-C	5.05	121.55	110.80
1	AY	32	PHE	N-CA-C	-5.05	105.69	111.14
1	Ah	32	PHE	N-CA-C	-5.05	105.69	111.14
3	CM	68	SER	N-CA-C	5.05	121.55	110.80
3	CV	102	GLY	N-CA-C	5.05	118.16	111.70
3	CL	68	SER	N-CA-C	5.04	121.55	110.80
1	A6	32	PHE	N-CA-C	-5.04	105.69	111.14
2	BP	197	LEU	N-CA-C	5.04	117.62	109.40
2	Bc	197	LEU	N-CA-C	5.04	117.62	109.40
3	CT	76	MET	CA-C-N	-5.04	114.21	121.42
3	CT	76	MET	C-N-CA	-5.04	114.21	121.42
3	C3	68	SER	N-CA-C	5.04	121.54	110.80
3	Cc	68	SER	N-CA-C	5.04	121.54	110.80
3	Cc	102	GLY	N-CA-C	5.04	118.16	111.70
3	Cm	76	MET	CA-C-N	-5.04	114.21	121.42
3	Cm	76	MET	C-N-CA	-5.04	114.21	121.42
3	DB	102	GLY	N-CA-C	5.04	118.16	111.70
3	CO	68	SER	N-CA-C	5.04	121.54	110.80
3	C6	102	GLY	N-CA-C	5.04	118.15	111.70
3	Ci	102	GLY	N-CA-C	5.04	118.15	111.70
3	Cm	68	SER	N-CA-C	5.04	121.54	110.80
3	Cx	68	SER	N-CA-C	5.04	121.54	110.80
2	Bf	197	LEU	N-CA-C	5.04	117.62	109.40
1	AD	212	ARG	N-CA-C	-5.04	100.83	109.24
1	AE	32	PHE	N-CA-C	-5.04	105.70	111.14
2	Bt	197	LEU	N-CA-C	5.04	117.61	109.40
3	CD	68	SER	N-CA-C	5.04	121.53	110.80
3	CP	68	SER	N-CA-C	5.04	121.53	110.80
3	CR	102	GLY	N-CA-C	5.04	118.15	111.70
3	CV	68	SER	N-CA-C	5.04	121.53	110.80
2	BK	154	GLN	N-CA-C	5.04	119.12	112.92
2	Bd	154	GLN	N-CA-C	5.04	119.11	112.92
2	Be	197	LEU	N-CA-C	5.04	117.61	109.40
3	Cj	76	MET	CA-C-N	-5.04	114.22	121.42
3	Cj	76	MET	C-N-CA	-5.04	114.22	121.42
3	Cu	102	GLY	N-CA-C	5.04	118.15	111.70
1	AW	212	ARG	N-CA-C	-5.04	100.83	109.24
1	A4	32	PHE	N-CA-C	-5.04	105.70	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Ae	32	PHE	N-CA-C	-5.04	105.70	111.14
2	BL	197	LEU	N-CA-C	5.04	117.61	109.40
2	BR	197	LEU	N-CA-C	5.04	117.61	109.40
2	B5	197	LEU	N-CA-C	5.04	117.61	109.40
2	B6	197	LEU	N-CA-C	5.04	117.61	109.40
3	CD	76	MET	CA-C-N	-5.04	114.22	121.42
3	CD	76	MET	C-N-CA	-5.04	114.22	121.42
3	CL	102	GLY	N-CA-C	5.04	118.15	111.70
3	Cm	102	GLY	N-CA-C	5.04	118.14	111.70
1	DH	32	PHE	N-CA-C	-5.04	105.70	111.14
1	DK	32	PHE	N-CA-C	-5.04	105.70	111.14
1	AR	212	ARG	N-CA-C	-5.03	100.83	109.24
1	AS	32	PHE	N-CA-C	-5.03	105.70	111.14
1	A8	32	PHE	N-CA-C	-5.03	105.70	111.14
1	Al	212	ARG	N-CA-C	-5.03	100.83	109.24
2	Bs	197	LEU	N-CA-C	5.03	117.60	109.40
3	CB	68	SER	N-CA-C	5.03	121.52	110.80
3	CO	102	GLY	N-CA-C	5.03	118.14	111.70
3	CS	76	MET	CA-C-N	-5.03	114.22	121.42
3	CS	76	MET	C-N-CA	-5.03	114.22	121.42
3	C8	76	MET	CA-C-N	-5.03	114.22	121.42
3	C8	76	MET	C-N-CA	-5.03	114.22	121.42
3	Cg	76	MET	CA-C-N	-5.03	114.22	121.42
3	Cg	76	MET	C-N-CA	-5.03	114.22	121.42
1	AM	212	ARG	N-CA-C	-5.03	100.84	109.24
2	BA	197	LEU	N-CA-C	5.03	117.60	109.40
3	CU	76	MET	CA-C-N	-5.03	114.23	121.42
3	CU	76	MET	C-N-CA	-5.03	114.23	121.42
3	Co	102	GLY	N-CA-C	5.03	118.14	111.70
3	Cf	68	SER	N-CA-C	5.03	121.51	110.80
3	Cx	102	GLY	N-CA-C	5.03	118.14	111.70
3	DB	68	SER	N-CA-C	5.03	121.51	110.80
1	AD	32	PHE	N-CA-C	-5.03	105.71	111.14
1	AQ	32	PHE	N-CA-C	-5.03	105.71	111.14
1	Ad	32	PHE	N-CA-C	-5.03	105.71	111.14
2	BO	197	LEU	N-CA-C	5.03	117.59	109.40
2	B8	197	LEU	N-CA-C	5.03	117.59	109.40
2	Bd	197	LEU	N-CA-C	5.03	117.59	109.40
2	Bk	197	LEU	N-CA-C	5.03	117.60	109.40
3	C2	102	GLY	N-CA-C	5.03	118.14	111.70
3	Co	76	MET	CA-C-N	-5.03	114.23	121.42
3	Co	76	MET	C-N-CA	-5.03	114.23	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Cq	102	GLY	N-CA-C	5.03	118.14	111.70
2	BC	197	LEU	N-CA-C	5.03	117.59	109.40
3	CN	76	MET	CA-C-N	-5.03	114.23	121.42
3	CN	76	MET	C-N-CA	-5.03	114.23	121.42
3	CT	68	SER	N-CA-C	5.03	121.50	110.80
3	C2	76	MET	CA-C-N	-5.03	114.23	121.42
3	C2	76	MET	C-N-CA	-5.03	114.23	121.42
3	Cl	102	GLY	N-CA-C	5.03	118.13	111.70
3	Cn	68	SER	N-CA-C	5.03	121.50	110.80
3	Cp	68	SER	N-CA-C	5.03	121.50	110.80
2	BT	197	LEU	N-CA-C	5.02	117.59	109.40
3	CZ	76	MET	CA-C-N	-5.02	114.24	121.42
3	CZ	76	MET	C-N-CA	-5.02	114.24	121.42
3	Cn	102	GLY	N-CA-C	5.02	118.13	111.70
1	AZ	32	PHE	N-CA-C	-5.02	105.72	111.14
1	A6	212	ARG	N-CA-C	-5.02	100.85	109.24
1	Al	32	PHE	N-CA-C	-5.02	105.72	111.14
3	CU	68	SER	N-CA-C	5.02	121.50	110.80
3	CW	76	MET	CA-C-N	-5.02	114.24	121.42
3	CW	76	MET	C-N-CA	-5.02	114.24	121.42
3	C5	68	SER	N-CA-C	5.02	121.50	110.80
3	Cp	102	GLY	N-CA-C	5.02	118.13	111.70
1	AF	32	PHE	N-CA-C	-5.02	105.72	111.14
3	CG	68	SER	N-CA-C	5.02	121.49	110.80
3	CQ	68	SER	N-CA-C	5.02	121.49	110.80
3	CV	76	MET	CA-C-N	-5.02	114.24	121.42
3	CV	76	MET	C-N-CA	-5.02	114.24	121.42
3	Cd	68	SER	N-CA-C	5.02	121.49	110.80
1	AM	32	PHE	N-CA-C	-5.02	105.72	111.14
2	B8	154	GLN	N-CA-C	5.02	119.09	112.92
2	Bm	197	LEU	N-CA-C	5.02	117.58	109.40
3	C3	76	MET	CA-C-N	-5.02	114.24	121.42
3	C3	76	MET	C-N-CA	-5.02	114.24	121.42
3	Ck	68	SER	N-CA-C	5.02	121.49	110.80
1	DJ	32	PHE	N-CA-C	-5.02	105.72	111.14
3	CX	102	GLY	N-CA-C	5.02	118.12	111.70
3	C7	76	MET	CA-C-N	-5.02	114.25	121.42
3	C7	76	MET	C-N-CA	-5.02	114.25	121.42
3	Ci	76	MET	CA-C-N	-5.02	114.25	121.42
3	Ci	76	MET	C-N-CA	-5.02	114.25	121.42
1	AK	32	PHE	N-CA-C	-5.01	105.72	111.14
1	AW	32	PHE	N-CA-C	-5.01	105.72	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AX	32	PHE	N-CA-C	-5.01	105.72	111.14
1	A0	26	VAL	CB-CA-C	-5.01	105.30	112.22
1	A5	32	PHE	N-CA-C	-5.01	105.72	111.14
2	BJ	197	LEU	N-CA-C	5.01	117.58	109.40
2	Bm	154	GLN	N-CA-C	5.01	119.09	112.92
3	CE	76	MET	CA-C-N	-5.01	114.25	121.42
3	CE	76	MET	C-N-CA	-5.01	114.25	121.42
3	CF	102	GLY	N-CA-C	5.01	118.12	111.70
3	C1	102	GLY	N-CA-C	5.01	118.12	111.70
3	C7	102	GLY	N-CA-C	5.01	118.12	111.70
3	DA	76	MET	CA-C-N	-5.01	114.25	121.42
3	DA	76	MET	C-N-CA	-5.01	114.25	121.42
3	CJ	76	MET	CA-C-N	-5.01	114.25	121.42
3	CJ	76	MET	C-N-CA	-5.01	114.25	121.42
3	Cv	102	GLY	N-CA-C	5.01	118.12	111.70
3	Cw	102	GLY	N-CA-C	5.01	118.12	111.70
1	AE	26	VAL	CB-CA-C	-5.01	105.31	112.22
1	AX	26	VAL	CB-CA-C	-5.01	105.31	112.22
3	CP	76	MET	CA-C-N	-5.01	114.25	121.42
3	CP	76	MET	C-N-CA	-5.01	114.25	121.42
3	C5	76	MET	CA-C-N	-5.01	114.25	121.42
3	C5	76	MET	C-N-CA	-5.01	114.25	121.42
3	Cs	76	MET	CA-C-N	-5.01	114.25	121.42
3	Cs	76	MET	C-N-CA	-5.01	114.25	121.42
1	AB	32	PHE	N-CA-C	-5.01	105.73	111.14
2	Bn	197	LEU	N-CA-C	5.01	117.57	109.40
3	CC	76	MET	CA-C-N	-5.01	114.25	121.42
3	CC	76	MET	C-N-CA	-5.01	114.25	121.42
3	CK	68	SER	N-CA-C	5.01	121.47	110.80
2	BF	197	LEU	N-CA-C	5.01	117.56	109.40
3	C0	68	SER	N-CA-C	5.01	121.47	110.80
3	Cl	76	MET	CA-C-N	-5.01	114.26	121.42
3	Cl	76	MET	C-N-CA	-5.01	114.26	121.42
1	Ab	32	PHE	N-CA-C	-5.01	105.73	111.14
1	Aj	32	PHE	N-CA-C	-5.01	105.73	111.14
2	Bh	154	GLN	N-CA-C	5.01	119.08	112.92
3	C9	68	SER	N-CA-C	5.01	121.47	110.80
3	Cs	102	GLY	N-CA-C	5.01	118.11	111.70
3	Cu	76	MET	CA-C-N	-5.01	114.26	121.42
3	Cu	76	MET	C-N-CA	-5.01	114.26	121.42
2	BF	154	GLN	N-CA-C	5.00	119.08	112.92
3	CX	76	MET	CA-C-N	-5.00	114.26	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CX	76	MET	C-N-CA	-5.00	114.26	121.42
3	C4	76	MET	CA-C-N	-5.00	114.26	121.42
3	C4	76	MET	C-N-CA	-5.00	114.26	121.42
3	Cc	76	MET	CA-C-N	-5.00	114.26	121.42
3	Cc	76	MET	C-N-CA	-5.00	114.26	121.42
1	A1	32	PHE	N-CA-C	-5.00	105.74	111.14
1	Ag	32	PHE	N-CA-C	-5.00	105.74	111.14
1	Ao	32	PHE	N-CA-C	-5.00	105.74	111.14
3	CM	102	GLY	N-CA-C	5.00	118.11	111.70
3	Cd	102	GLY	N-CA-C	5.00	118.11	111.70
3	Ct	76	MET	CA-C-N	-5.00	114.27	121.42
3	Ct	76	MET	C-N-CA	-5.00	114.27	121.42
1	AH	26	VAL	CB-CA-C	-5.00	105.32	112.22
2	Br	154	GLN	N-CA-C	5.00	119.07	112.92
2	Bs	154	GLN	N-CA-C	5.00	119.07	112.92
3	Cr	76	MET	CA-C-N	-5.00	114.27	121.42
3	Cr	76	MET	C-N-CA	-5.00	114.27	121.42
3	Cu	68	SER	N-CA-C	5.00	121.45	110.80

There are no chirality outliers.

All (180) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A0	208	TYR	Sidechain
1	A1	208	TYR	Sidechain
1	A2	208	TYR	Sidechain
1	A3	208	TYR	Sidechain
1	A4	208	TYR	Sidechain
1	A5	208	TYR	Sidechain
1	A6	208	TYR	Sidechain
1	A7	208	TYR	Sidechain
1	A8	208	TYR	Sidechain
1	A9	208	TYR	Sidechain
1	AA	208	TYR	Sidechain
1	AB	208	TYR	Sidechain
1	AC	208	TYR	Sidechain
1	AD	208	TYR	Sidechain
1	AE	208	TYR	Sidechain
1	AF	208	TYR	Sidechain
1	AG	208	TYR	Sidechain
1	AH	208	TYR	Sidechain
1	AI	208	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	AJ	208	TYR	Sidechain
1	AK	208	TYR	Sidechain
1	AL	208	TYR	Sidechain
1	AM	208	TYR	Sidechain
1	AN	208	TYR	Sidechain
1	AO	208	TYR	Sidechain
1	AP	208	TYR	Sidechain
1	AQ	208	TYR	Sidechain
1	AR	208	TYR	Sidechain
1	AS	208	TYR	Sidechain
1	AT	208	TYR	Sidechain
1	AU	208	TYR	Sidechain
1	AV	208	TYR	Sidechain
1	AW	208	TYR	Sidechain
1	AX	208	TYR	Sidechain
1	AY	208	TYR	Sidechain
1	AZ	208	TYR	Sidechain
1	Aa	208	TYR	Sidechain
1	Ab	208	TYR	Sidechain
1	Ac	208	TYR	Sidechain
1	Ad	208	TYR	Sidechain
1	Ae	208	TYR	Sidechain
1	Af	208	TYR	Sidechain
1	Ag	208	TYR	Sidechain
1	Ah	208	TYR	Sidechain
1	Ai	208	TYR	Sidechain
1	Aj	208	TYR	Sidechain
1	Ak	208	TYR	Sidechain
1	Al	208	TYR	Sidechain
1	Am	208	TYR	Sidechain
1	An	208	TYR	Sidechain
1	Ao	208	TYR	Sidechain
2	B0	177	TYR	Sidechain
2	B0	86	ASP	Mainchain
2	B1	177	TYR	Sidechain
2	B1	86	ASP	Mainchain
2	B2	177	TYR	Sidechain
2	B2	86	ASP	Mainchain
2	B3	177	TYR	Sidechain
2	B3	86	ASP	Mainchain
2	B4	177	TYR	Sidechain
2	B4	86	ASP	Mainchain

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Mol	Chain	Res	Type	Group
2	B5	177	TYR	Sidechain
2	B5	86	ASP	Mainchain
2	B6	177	TYR	Sidechain
2	B6	86	ASP	Mainchain
2	B7	177	TYR	Sidechain
2	B7	86	ASP	Mainchain
2	B8	177	TYR	Sidechain
2	B8	86	ASP	Mainchain
2	B9	177	TYR	Sidechain
2	B9	86	ASP	Mainchain
2	BA	177	TYR	Sidechain
2	BA	86	ASP	Mainchain
2	BB	177	TYR	Sidechain
2	BB	86	ASP	Mainchain
2	BC	177	TYR	Sidechain
2	BC	86	ASP	Mainchain
2	BD	177	TYR	Sidechain
2	BD	86	ASP	Mainchain
2	BE	177	TYR	Sidechain
2	BE	86	ASP	Mainchain
2	BF	177	TYR	Sidechain
2	BF	86	ASP	Mainchain
2	BG	177	TYR	Sidechain
2	BG	86	ASP	Mainchain
2	BH	177	TYR	Sidechain
2	BH	86	ASP	Mainchain
2	BI	177	TYR	Sidechain
2	BI	86	ASP	Mainchain
2	BJ	177	TYR	Sidechain
2	BJ	86	ASP	Mainchain
2	BK	177	TYR	Sidechain
2	BK	86	ASP	Mainchain
2	BL	177	TYR	Sidechain
2	BL	86	ASP	Mainchain
2	BM	177	TYR	Sidechain
2	BM	86	ASP	Mainchain
2	BN	177	TYR	Sidechain
2	BN	86	ASP	Mainchain
2	BO	177	TYR	Sidechain
2	BO	86	ASP	Mainchain
2	BP	177	TYR	Sidechain
2	BP	86	ASP	Mainchain

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Mol	Chain	Res	Type	Group
2	BQ	177	TYR	Sidechain
2	BQ	86	ASP	Mainchain
2	BR	177	TYR	Sidechain
2	BR	86	ASP	Mainchain
2	BS	177	TYR	Sidechain
2	BS	86	ASP	Mainchain
2	BT	177	TYR	Sidechain
2	BT	86	ASP	Mainchain
2	BU	177	TYR	Sidechain
2	BU	86	ASP	Mainchain
2	BV	177	TYR	Sidechain
2	BV	86	ASP	Mainchain
2	BW	177	TYR	Sidechain
2	BW	86	ASP	Mainchain
2	BX	177	TYR	Sidechain
2	BX	86	ASP	Mainchain
2	BY	177	TYR	Sidechain
2	BY	86	ASP	Mainchain
2	BZ	177	TYR	Sidechain
2	BZ	86	ASP	Mainchain
2	Ba	177	TYR	Sidechain
2	Ba	86	ASP	Mainchain
2	Bb	177	TYR	Sidechain
2	Bb	86	ASP	Mainchain
2	Bc	177	TYR	Sidechain
2	Bc	86	ASP	Mainchain
2	Bd	177	TYR	Sidechain
2	Bd	86	ASP	Mainchain
2	Be	177	TYR	Sidechain
2	Be	86	ASP	Mainchain
2	Bf	177	TYR	Sidechain
2	Bf	86	ASP	Mainchain
2	Bg	177	TYR	Sidechain
2	Bg	86	ASP	Mainchain
2	Bh	177	TYR	Sidechain
2	Bh	86	ASP	Mainchain
2	Bi	177	TYR	Sidechain
2	Bi	86	ASP	Mainchain
2	Bj	177	TYR	Sidechain
2	Bj	86	ASP	Mainchain
2	Bk	177	TYR	Sidechain
2	Bk	86	ASP	Mainchain

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Mol	Chain	Res	Type	Group
2	Bl	177	TYR	Sidechain
2	Bl	86	ASP	Mainchain
2	Bm	177	TYR	Sidechain
2	Bm	86	ASP	Mainchain
2	Bn	177	TYR	Sidechain
2	Bn	86	ASP	Mainchain
2	Bo	177	TYR	Sidechain
2	Bo	86	ASP	Mainchain
2	Bp	177	TYR	Sidechain
2	Bp	86	ASP	Mainchain
2	Bq	177	TYR	Sidechain
2	Bq	86	ASP	Mainchain
2	Br	177	TYR	Sidechain
2	Br	86	ASP	Mainchain
2	Bs	177	TYR	Sidechain
2	Bs	86	ASP	Mainchain
2	Bt	177	TYR	Sidechain
2	Bt	86	ASP	Mainchain
2	Bu	177	TYR	Sidechain
2	Bu	86	ASP	Mainchain
2	Bv	177	TYR	Sidechain
2	Bv	86	ASP	Mainchain
2	Bw	177	TYR	Sidechain
2	Bw	86	ASP	Mainchain
2	Bx	177	TYR	Sidechain
2	Bx	86	ASP	Mainchain
1	DC	208	TYR	Sidechain
1	DD	208	TYR	Sidechain
1	DE	208	TYR	Sidechain
1	DF	208	TYR	Sidechain
1	DG	208	TYR	Sidechain
1	DH	208	TYR	Sidechain
1	DI	208	TYR	Sidechain
1	DJ	208	TYR	Sidechain
1	DK	208	TYR	Sidechain

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A0	1928	0	1864	98	0
1	A1	1928	0	1864	98	0
1	A2	1928	0	1864	99	0
1	A3	1928	0	1864	96	0
1	A4	1928	0	1864	98	0
1	A5	1928	0	1864	96	0
1	A6	1928	0	1864	97	0
1	A7	1928	0	1864	99	0
1	A8	1928	0	1864	96	0
1	A9	1928	0	1864	97	0
1	AA	1928	0	1864	99	0
1	AB	1928	0	1864	98	0
1	AC	1928	0	1864	98	0
1	AD	1928	0	1864	98	0
1	AE	1928	0	1864	100	0
1	AF	1928	0	1864	98	0
1	AG	1928	0	1864	94	0
1	AH	1928	0	1864	97	0
1	AI	1928	0	1864	94	0
1	AJ	1928	0	1864	96	0
1	AK	1928	0	1864	95	0
1	AL	1928	0	1864	98	0
1	AM	1928	0	1864	98	0
1	AN	1928	0	1864	98	0
1	AO	1928	0	1864	96	0
1	AP	1928	0	1864	99	0
1	AQ	1928	0	1864	94	0
1	AR	1928	0	1864	98	0
1	AS	1928	0	1864	97	0
1	AT	1928	0	1864	97	0
1	AU	1928	0	1864	97	0
1	AV	1928	0	1864	96	0
1	AW	1928	0	1864	99	0
1	AX	1928	0	1864	98	0
1	AY	1928	0	1864	97	0
1	AZ	1928	0	1864	95	0
1	Aa	1928	0	1864	98	0
1	Ab	1928	0	1864	99	0
1	Ac	1928	0	1864	99	0
1	Ad	1928	0	1864	97	0
1	Ae	1928	0	1864	97	0
1	Af	1928	0	1864	99	0
1	Ag	1928	0	1864	99	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ah	1928	0	1864	97	0
1	Ai	1928	0	1864	96	0
1	Aj	1928	0	1864	99	0
1	Ak	1928	0	1864	101	0
1	Al	1928	0	1864	101	0
1	Am	1928	0	1864	96	0
1	An	1928	0	1864	100	0
1	Ao	1928	0	1864	96	0
1	DC	1928	0	1864	96	0
1	DD	1928	0	1864	98	0
1	DE	1928	0	1864	96	0
1	DF	1928	0	1864	96	0
1	DG	1928	0	1864	97	0
1	DH	1928	0	1864	97	0
1	DI	1928	0	1864	98	0
1	DJ	1928	0	1864	97	0
1	DK	1928	0	1864	97	0
2	B0	1553	0	1523	61	0
2	B1	1553	0	1523	59	0
2	B2	1553	0	1523	59	0
2	B3	1553	0	1523	59	0
2	B4	1553	0	1523	59	0
2	B5	1553	0	1523	59	0
2	B6	1553	0	1523	59	0
2	B7	1553	0	1523	58	0
2	B8	1553	0	1523	60	0
2	B9	1553	0	1523	57	0
2	BA	1553	0	1523	59	0
2	BB	1553	0	1523	58	0
2	BC	1553	0	1523	59	0
2	BD	1553	0	1523	57	0
2	BE	1553	0	1523	59	0
2	BF	1553	0	1523	61	0
2	BG	1553	0	1523	58	0
2	BH	1553	0	1523	58	0
2	BI	1553	0	1523	57	0
2	BJ	1553	0	1523	59	0
2	BK	1553	0	1523	56	0
2	BL	1553	0	1523	57	0
2	BM	1553	0	1523	60	0
2	BN	1553	0	1523	59	0
2	BO	1553	0	1523	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	BP	1553	0	1523	58	0
2	BQ	1553	0	1523	58	0
2	BR	1553	0	1523	61	0
2	BS	1553	0	1523	58	0
2	BT	1553	0	1523	57	0
2	BU	1553	0	1523	59	0
2	BV	1553	0	1523	57	0
2	BW	1553	0	1523	57	0
2	BX	1553	0	1523	58	0
2	BY	1553	0	1523	58	0
2	BZ	1553	0	1523	60	0
2	Ba	1553	0	1523	60	0
2	Bb	1553	0	1523	58	0
2	Bc	1553	0	1523	58	0
2	Bd	1553	0	1523	59	0
2	Be	1553	0	1523	58	0
2	Bf	1553	0	1523	57	0
2	Bg	1553	0	1523	59	0
2	Bh	1553	0	1523	57	0
2	Bi	1553	0	1523	59	0
2	Bj	1553	0	1523	58	0
2	Bk	1553	0	1523	60	0
2	Bl	1553	0	1523	60	0
2	Bm	1553	0	1523	57	0
2	Bn	1553	0	1523	58	0
2	Bo	1553	0	1523	60	0
2	Bp	1553	0	1523	56	0
2	Bq	1553	0	1523	58	0
2	Br	1553	0	1523	56	0
2	Bs	1553	0	1523	58	0
2	Bt	1553	0	1523	59	0
2	Bu	1553	0	1523	59	0
2	Bv	1553	0	1523	59	0
2	Bw	1553	0	1523	58	0
2	Bx	1553	0	1523	59	0
3	C0	1718	0	1677	59	0
3	C1	1718	0	1677	61	0
3	C2	1718	0	1677	61	0
3	C3	1718	0	1677	59	0
3	C4	1718	0	1677	61	0
3	C5	1718	0	1677	64	0
3	C6	1718	0	1677	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C7	1718	0	1677	60	0
3	C8	1718	0	1677	64	0
3	C9	1718	0	1677	62	0
3	CA	1718	0	1677	62	0
3	CB	1718	0	1677	61	0
3	CC	1718	0	1677	62	0
3	CD	1718	0	1677	66	0
3	CE	1718	0	1677	63	0
3	CF	1718	0	1677	61	0
3	CG	1718	0	1677	59	0
3	CH	1718	0	1677	61	0
3	CI	1718	0	1677	63	0
3	CJ	1718	0	1677	62	0
3	CK	1718	0	1677	60	0
3	CL	1718	0	1677	59	0
3	CM	1718	0	1677	63	0
3	CN	1718	0	1677	64	0
3	CO	1718	0	1677	64	0
3	CP	1718	0	1677	58	0
3	CQ	1718	0	1677	60	0
3	CR	1718	0	1677	57	0
3	CS	1718	0	1677	62	0
3	CT	1718	0	1677	62	0
3	CU	1718	0	1677	63	0
3	CV	1718	0	1677	61	0
3	CW	1718	0	1677	59	0
3	CX	1718	0	1677	63	0
3	CY	1718	0	1677	61	0
3	CZ	1718	0	1677	57	0
3	Cc	1718	0	1677	61	0
3	Cd	1718	0	1677	63	0
3	Ce	1718	0	1677	62	0
3	Cf	1718	0	1677	64	0
3	Cg	1718	0	1677	63	0
3	Ch	1718	0	1677	60	0
3	Ci	1718	0	1677	63	0
3	Cj	1718	0	1677	60	0
3	Ck	1718	0	1677	62	0
3	Cl	1718	0	1677	62	0
3	Cm	1718	0	1677	62	0
3	Cn	1718	0	1677	59	0
3	Co	1718	0	1677	60	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Cp	1718	0	1677	63	0
3	Cq	1718	0	1677	60	0
3	Cr	1718	0	1677	63	0
3	Cs	1718	0	1677	61	0
3	Ct	1718	0	1677	63	0
3	Cu	1718	0	1677	60	0
3	Cv	1718	0	1677	59	0
3	Cw	1718	0	1677	60	0
3	Cx	1718	0	1677	60	0
3	DA	1718	0	1677	61	0
3	DB	1718	0	1677	64	0
All	All	311940	0	303840	10231	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (10231) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:115:THR:HG21	1:AF:131:GLN:HB3	1.44	1.00
1:AN:115:THR:HG21	1:AN:131:GLN:HB3	1.44	1.00
1:AP:115:THR:HG21	1:AP:131:GLN:HB3	1.44	1.00
1:AV:115:THR:HG21	1:AV:131:GLN:HB3	1.44	1.00
1:Aa:115:THR:HG21	1:Aa:131:GLN:HB3	1.44	1.00
1:Af:115:THR:HG21	1:Af:131:GLN:HB3	1.44	1.00
1:Ad:115:THR:HG21	1:Ad:131:GLN:HB3	1.44	0.99
1:AK:115:THR:HG21	1:AK:131:GLN:HB3	1.44	0.99
1:A7:115:THR:HG21	1:A7:131:GLN:HB3	1.44	0.99
1:DJ:115:THR:HG21	1:DJ:131:GLN:HB3	1.44	0.99
1:AR:115:THR:HG21	1:AR:131:GLN:HB3	1.44	0.99
1:AY:115:THR:HG21	1:AY:131:GLN:HB3	1.44	0.99
1:DI:115:THR:HG21	1:DI:131:GLN:HB3	1.44	0.99
1:A2:115:THR:HG21	1:A2:131:GLN:HB3	1.44	0.99
1:A5:115:THR:HG21	1:A5:131:GLN:HB3	1.44	0.99
1:AW:115:THR:HG21	1:AW:131:GLN:HB3	1.44	0.99
1:Ao:115:THR:HG21	1:Ao:131:GLN:HB3	1.44	0.99
1:DK:115:THR:HG21	1:DK:131:GLN:HB3	1.44	0.99
1:AM:115:THR:HG21	1:AM:131:GLN:HB3	1.44	0.99
1:Ac:115:THR:HG21	1:Ac:131:GLN:HB3	1.44	0.99
1:DF:115:THR:HG21	1:DF:131:GLN:HB3	1.44	0.99
1:AG:115:THR:HG21	1:AG:131:GLN:HB3	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:115:THR:HG21	1:Ak:131:GLN:HB3	1.44	0.98
1:Am:115:THR:HG21	1:Am:131:GLN:HB3	1.44	0.98
1:A8:115:THR:HG21	1:A8:131:GLN:HB3	1.44	0.98
1:AL:115:THR:HG21	1:AL:131:GLN:HB3	1.44	0.98
1:A0:115:THR:HG21	1:A0:131:GLN:HB3	1.44	0.98
1:Ab:115:THR:HG21	1:Ab:131:GLN:HB3	1.44	0.98
1:AT:115:THR:HG21	1:AT:131:GLN:HB3	1.44	0.98
1:AU:115:THR:HG21	1:AU:131:GLN:HB3	1.44	0.98
1:AB:115:THR:HG21	1:AB:131:GLN:HB3	1.44	0.98
1:A3:115:THR:HG21	1:A3:131:GLN:HB3	1.44	0.98
1:A9:115:THR:HG21	1:A9:131:GLN:HB3	1.44	0.98
1:AE:115:THR:HG21	1:AE:131:GLN:HB3	1.44	0.98
1:A1:115:THR:HG21	1:A1:131:GLN:HB3	1.44	0.97
1:A4:115:THR:HG21	1:A4:131:GLN:HB3	1.44	0.97
1:Aj:115:THR:HG21	1:Aj:131:GLN:HB3	1.44	0.97
1:AS:115:THR:HG21	1:AS:131:GLN:HB3	1.44	0.97
1:AQ:115:THR:HG21	1:AQ:131:GLN:HB3	1.44	0.97
1:AZ:115:THR:HG21	1:AZ:131:GLN:HB3	1.44	0.97
1:A6:115:THR:HG21	1:A6:131:GLN:HB3	1.44	0.97
1:Ag:115:THR:HG21	1:Ag:131:GLN:HB3	1.44	0.97
1:Ai:115:THR:HG21	1:Ai:131:GLN:HB3	1.44	0.97
1:AJ:115:THR:HG21	1:AJ:131:GLN:HB3	1.44	0.97
1:AD:115:THR:HG21	1:AD:131:GLN:HB3	1.44	0.96
1:AH:115:THR:HG21	1:AH:131:GLN:HB3	1.44	0.96
1:AO:115:THR:HG21	1:AO:131:GLN:HB3	1.44	0.96
1:DD:115:THR:HG21	1:DD:131:GLN:HB3	1.44	0.96
1:DG:115:THR:HG21	1:DG:131:GLN:HB3	1.44	0.96
1:Ae:115:THR:HG21	1:Ae:131:GLN:HB3	1.44	0.96
1:DH:115:THR:HG21	1:DH:131:GLN:HB3	1.44	0.96
1:AA:115:THR:HG21	1:AA:131:GLN:HB3	1.44	0.96
1:AC:115:THR:HG21	1:AC:131:GLN:HB3	1.44	0.96
1:AX:115:THR:HG21	1:AX:131:GLN:HB3	1.44	0.95
1:DC:115:THR:HG21	1:DC:131:GLN:HB3	1.44	0.95
1:DE:115:THR:HG21	1:DE:131:GLN:HB3	1.44	0.95
1:Al:115:THR:HG21	1:Al:131:GLN:HB3	1.44	0.95
1:AI:115:THR:HG21	1:AI:131:GLN:HB3	1.44	0.95
1:An:115:THR:HG21	1:An:131:GLN:HB3	1.44	0.95
1:Ah:115:THR:HG21	1:Ah:131:GLN:HB3	1.44	0.94
1:A1:112:PRO:HD2	3:C1:220:VAL:HG11	1.58	0.85
1:Am:112:PRO:HD2	3:Ck:220:VAL:HG11	1.58	0.85
1:A0:112:PRO:HD2	3:C3:220:VAL:HG11	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:112:PRO:HD2	3:CX:220:VAL:HG11	1.59	0.85
3:Ct:220:VAL:HG11	1:DG:112:PRO:HD2	1.59	0.85
3:Cu:220:VAL:HG11	1:DJ:112:PRO:HD2	1.58	0.85
1:AL:112:PRO:HD2	3:CO:220:VAL:HG11	1.58	0.85
1:AM:112:PRO:HD2	3:CM:220:VAL:HG11	1.58	0.85
1:A6:112:PRO:HD2	3:C6:220:VAL:HG11	1.59	0.85
1:A8:112:PRO:HD2	3:Cc:220:VAL:HG11	1.58	0.85
3:Cw:220:VAL:HG11	1:DF:112:PRO:HD2	1.58	0.85
1:A7:112:PRO:HD2	3:C5:220:VAL:HG11	1.59	0.85
1:Ac:112:PRO:HD2	3:DA:220:VAL:HG11	1.59	0.85
3:CG:220:VAL:HG11	1:DK:112:PRO:HD2	1.59	0.85
1:AP:112:PRO:HD2	3:CP:220:VAL:HG11	1.58	0.84
1:AX:112:PRO:HD2	3:CV:220:VAL:HG11	1.59	0.84
1:Ak:112:PRO:HD2	3:Cn:220:VAL:HG11	1.58	0.84
1:AJ:112:PRO:HD2	3:CN:220:VAL:HG11	1.59	0.84
1:AY:112:PRO:HD2	3:C2:220:VAL:HG11	1.59	0.84
1:AO:112:PRO:HD2	3:CS:220:VAL:HG11	1.59	0.84
3:Cv:220:VAL:HG11	1:DI:112:PRO:HD2	1.59	0.84
1:AW:112:PRO:HD2	3:CW:220:VAL:HG11	1.58	0.84
1:A2:112:PRO:HD2	3:C0:220:VAL:HG11	1.59	0.84
3:Cp:220:VAL:HG11	1:DE:112:PRO:HD2	1.58	0.84
1:AK:112:PRO:HD2	3:CK:220:VAL:HG11	1.58	0.84
1:A4:112:PRO:HD2	3:C4:220:VAL:HG11	1.59	0.84
2:BA:134:HIS:HD2	2:BA:145:LEU:HD13	1.43	0.84
2:BG:134:HIS:HD2	2:BG:145:LEU:HD13	1.43	0.84
1:AE:112:PRO:HD2	3:CB:220:VAL:HG11	1.58	0.84
1:AG:112:PRO:HD2	3:CF:220:VAL:HG11	1.59	0.84
1:Aj:112:PRO:HD2	3:Cj:220:VAL:HG11	1.59	0.84
2:B3:134:HIS:HD2	2:B3:145:LEU:HD13	1.43	0.84
2:Be:134:HIS:HD2	2:Be:145:LEU:HD13	1.43	0.84
2:Bh:134:HIS:HD2	2:Bh:145:LEU:HD13	1.43	0.84
2:Bi:134:HIS:HD2	2:Bi:145:LEU:HD13	1.43	0.84
3:Cq:220:VAL:HG11	1:DD:112:PRO:HD2	1.59	0.84
1:AU:112:PRO:HD2	3:CU:220:VAL:HG11	1.59	0.84
1:A9:112:PRO:HD2	3:C9:220:VAL:HG11	1.58	0.84
2:BD:134:HIS:HD2	2:BD:145:LEU:HD13	1.43	0.84
2:B4:134:HIS:HD2	2:B4:145:LEU:HD13	1.43	0.84
2:Bk:134:HIS:HD2	2:Bk:145:LEU:HD13	1.43	0.84
2:BL:134:HIS:HD2	2:BL:145:LEU:HD13	1.43	0.84
2:Ba:134:HIS:HD2	2:Ba:145:LEU:HD13	1.43	0.84
2:Bc:134:HIS:HD2	2:Bc:145:LEU:HD13	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:112:PRO:HD2	3:CC:220:VAL:HG11	1.59	0.83
1:AI:112:PRO:HD2	3:CH:220:VAL:HG11	1.59	0.83
1:AN:112:PRO:HD2	3:CL:220:VAL:HG11	1.58	0.83
1:Ai:112:PRO:HD2	3:Cm:220:VAL:HG11	1.59	0.83
1:Al:112:PRO:HD2	3:Cl:220:VAL:HG11	1.58	0.83
2:BK:134:HIS:HD2	2:BK:145:LEU:HD13	1.43	0.83
2:Bu:134:HIS:HD2	2:Bu:145:LEU:HD13	1.43	0.83
1:A5:112:PRO:HD2	3:C8:220:VAL:HG11	1.59	0.83
2:Bp:134:HIS:HD2	2:Bp:145:LEU:HD13	1.43	0.83
1:AB:112:PRO:HD2	3:CA:220:VAL:HG11	1.59	0.83
1:AQ:112:PRO:HD2	3:CT:220:VAL:HG11	1.59	0.83
1:Ad:112:PRO:HD2	3:Ch:220:VAL:HG11	1.59	0.83
2:BR:134:HIS:HD2	2:BR:145:LEU:HD13	1.43	0.83
2:B7:134:HIS:HD2	2:B7:145:LEU:HD13	1.43	0.83
2:Bo:134:HIS:HD2	2:Bo:145:LEU:HD13	1.43	0.83
2:BY:134:HIS:HD2	2:BY:145:LEU:HD13	1.43	0.83
2:Bv:134:HIS:HD2	2:Bv:145:LEU:HD13	1.43	0.83
3:Cs:220:VAL:HG11	1:DC:112:PRO:HD2	1.59	0.83
1:An:112:PRO:HD2	3:Cr:220:VAL:HG11	1.59	0.83
2:BS:134:HIS:HD2	2:BS:145:LEU:HD13	1.43	0.83
2:Bm:134:HIS:HD2	2:Bm:145:LEU:HD13	1.43	0.83
2:Br:134:HIS:HD2	2:Br:145:LEU:HD13	1.43	0.83
1:AZ:112:PRO:HD2	3:CZ:220:VAL:HG11	1.59	0.83
1:Ab:112:PRO:HD2	3:DB:220:VAL:HG11	1.58	0.83
1:Ag:112:PRO:HD2	3:Cg:220:VAL:HG11	1.58	0.83
2:BF:134:HIS:HD2	2:BF:145:LEU:HD13	1.43	0.83
2:BW:134:HIS:HD2	2:BW:145:LEU:HD13	1.43	0.83
2:Bx:134:HIS:HD2	2:Bx:145:LEU:HD13	1.43	0.83
1:AA:112:PRO:HD2	3:CD:220:VAL:HG11	1.59	0.83
1:AH:112:PRO:HD2	3:CJ:220:VAL:HG11	1.59	0.83
2:BO:134:HIS:HD2	2:BO:145:LEU:HD13	1.43	0.83
2:Bl:134:HIS:HD2	2:Bl:145:LEU:HD13	1.43	0.83
1:AC:112:PRO:HD2	3:CE:220:VAL:HG11	1.59	0.83
1:AV:112:PRO:HD2	3:CY:220:VAL:HG11	1.59	0.83
1:Aa:112:PRO:HD2	3:Cd:220:VAL:HG11	1.59	0.83
2:Bw:134:HIS:HD2	2:Bw:145:LEU:HD13	1.43	0.83
1:Ah:112:PRO:HD2	3:Cf:220:VAL:HG11	1.59	0.83
2:BB:134:HIS:HD2	2:BB:145:LEU:HD13	1.43	0.83
2:BC:134:HIS:HD2	2:BC:145:LEU:HD13	1.43	0.83
2:B0:134:HIS:HD2	2:B0:145:LEU:HD13	1.43	0.83
1:Ao:112:PRO:HD2	3:Co:220:VAL:HG11	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:134:HIS:HD2	2:BT:145:LEU:HD13	1.43	0.82
2:BZ:134:HIS:HD2	2:BZ:145:LEU:HD13	1.43	0.82
2:BE:134:HIS:HD2	2:BE:145:LEU:HD13	1.43	0.82
2:BI:134:HIS:HD2	2:BI:145:LEU:HD13	1.43	0.82
2:BM:134:HIS:HD2	2:BM:145:LEU:HD13	1.43	0.82
2:Bb:134:HIS:HD2	2:Bb:145:LEU:HD13	1.43	0.82
2:Bf:134:HIS:HD2	2:Bf:145:LEU:HD13	1.43	0.82
2:Bj:134:HIS:HD2	2:Bj:145:LEU:HD13	1.43	0.82
3:Cx:220:VAL:HG11	1:DH:112:PRO:HD2	1.59	0.82
2:BQ:134:HIS:HD2	2:BQ:145:LEU:HD13	1.43	0.82
2:Bq:134:HIS:HD2	2:Bq:145:LEU:HD13	1.43	0.82
1:AR:112:PRO:HD2	3:CR:220:VAL:HG11	1.59	0.82
1:A3:112:PRO:HD2	3:C7:220:VAL:HG11	1.59	0.82
2:B9:134:HIS:HD2	2:B9:145:LEU:HD13	1.43	0.82
2:BH:134:HIS:HD2	2:BH:145:LEU:HD13	1.43	0.82
2:BV:134:HIS:HD2	2:BV:145:LEU:HD13	1.43	0.82
2:B2:134:HIS:HD2	2:B2:145:LEU:HD13	1.43	0.82
1:AF:112:PRO:HD2	3:CI:220:VAL:HG11	1.59	0.82
2:Bn:134:HIS:HD2	2:Bn:145:LEU:HD13	1.43	0.82
2:BJ:134:HIS:HD2	2:BJ:145:LEU:HD13	1.43	0.82
2:BX:134:HIS:HD2	2:BX:145:LEU:HD13	1.43	0.82
2:Bd:134:HIS:HD2	2:Bd:145:LEU:HD13	1.43	0.82
1:AS:112:PRO:HD2	3:CQ:220:VAL:HG11	1.59	0.82
2:BB:53:ARG:HG2	2:BB:221:MET:HE3	1.62	0.82
2:Bt:134:HIS:HD2	2:Bt:145:LEU:HD13	1.43	0.82
2:BZ:53:ARG:HG2	2:BZ:221:MET:HE3	1.62	0.82
2:Bo:53:ARG:HG2	2:Bo:221:MET:HE3	1.62	0.82
1:Ae:112:PRO:HD2	3:Ce:220:VAL:HG11	1.58	0.81
2:BK:53:ARG:HG2	2:BK:221:MET:HE3	1.62	0.81
2:B5:134:HIS:HD2	2:B5:145:LEU:HD13	1.43	0.81
2:Bk:53:ARG:HG2	2:Bk:221:MET:HE3	1.62	0.81
2:Bw:53:ARG:HG2	2:Bw:221:MET:HE3	1.62	0.81
2:BE:53:ARG:HG2	2:BE:221:MET:HE3	1.62	0.81
2:BN:134:HIS:HD2	2:BN:145:LEU:HD13	1.43	0.81
2:Bn:53:ARG:HG2	2:Bn:221:MET:HE3	1.62	0.81
2:Br:53:ARG:HG2	2:Br:221:MET:HE3	1.62	0.81
1:Af:112:PRO:HD2	3:Ci:220:VAL:HG11	1.59	0.81
2:BC:53:ARG:HG2	2:BC:221:MET:HE3	1.62	0.81
2:BI:53:ARG:HG2	2:BI:221:MET:HE3	1.63	0.81
2:BT:53:ARG:HG2	2:BT:221:MET:HE3	1.62	0.81
2:BY:53:ARG:HG2	2:BY:221:MET:HE3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:134:HIS:HD2	2:B1:145:LEU:HD13	1.43	0.81
2:B8:134:HIS:HD2	2:B8:145:LEU:HD13	1.43	0.81
2:B9:53:ARG:HG2	2:B9:221:MET:HE3	1.62	0.81
2:Bs:134:HIS:HD2	2:Bs:145:LEU:HD13	1.43	0.81
2:BO:53:ARG:HG2	2:BO:221:MET:HE3	1.62	0.81
2:BP:53:ARG:HG2	2:BP:221:MET:HE3	1.62	0.81
2:B5:53:ARG:HG2	2:B5:221:MET:HE3	1.62	0.81
2:Be:53:ARG:HG2	2:Be:221:MET:HE3	1.62	0.81
2:BA:53:ARG:HG2	2:BA:221:MET:HE3	1.62	0.81
2:BS:53:ARG:HG2	2:BS:221:MET:HE3	1.62	0.81
2:BP:134:HIS:HD2	2:BP:145:LEU:HD13	1.43	0.81
2:BQ:53:ARG:HG2	2:BQ:221:MET:HE3	1.62	0.81
2:B4:53:ARG:HG2	2:B4:221:MET:HE3	1.62	0.81
2:Bf:53:ARG:HG2	2:Bf:221:MET:HE3	1.62	0.81
2:Bp:53:ARG:HG2	2:Bp:221:MET:HE3	1.62	0.81
1:DC:70:ARG:O	1:DC:71:LEU:HB2	1.81	0.81
1:AH:70:ARG:O	1:AH:71:LEU:HB2	1.81	0.81
1:A2:70:ARG:O	1:A2:71:LEU:HB2	1.81	0.81
1:Al:70:ARG:O	1:Al:71:LEU:HB2	1.81	0.81
2:Bd:53:ARG:HG2	2:Bd:221:MET:HE3	1.62	0.81
2:Bg:134:HIS:HD2	2:Bg:145:LEU:HD13	1.43	0.81
2:Bh:53:ARG:HG2	2:Bh:221:MET:HE3	1.62	0.81
1:AD:70:ARG:O	1:AD:71:LEU:HB2	1.81	0.81
1:AR:70:ARG:O	1:AR:71:LEU:HB2	1.81	0.81
2:BU:134:HIS:HD2	2:BU:145:LEU:HD13	1.43	0.81
1:AP:70:ARG:O	1:AP:71:LEU:HB2	1.81	0.81
2:Bu:53:ARG:HG2	2:Bu:221:MET:HE3	1.62	0.81
2:BD:53:ARG:HG2	2:BD:221:MET:HE3	1.62	0.80
2:BH:53:ARG:HG2	2:BH:221:MET:HE3	1.62	0.80
2:B6:134:HIS:HD2	2:B6:145:LEU:HD13	1.43	0.80
2:Bq:53:ARG:HG2	2:Bq:221:MET:HE3	1.62	0.80
1:AV:70:ARG:O	1:AV:71:LEU:HB2	1.81	0.80
1:Ah:70:ARG:O	1:Ah:71:LEU:HB2	1.81	0.80
2:Bb:53:ARG:HG2	2:Bb:221:MET:HE3	1.62	0.80
2:Bg:53:ARG:HG2	2:Bg:221:MET:HE3	1.63	0.80
2:Bi:53:ARG:HG2	2:Bi:221:MET:HE3	1.62	0.80
1:AC:70:ARG:O	1:AC:71:LEU:HB2	1.81	0.80
1:AI:70:ARG:O	1:AI:71:LEU:HB2	1.81	0.80
1:Ai:70:ARG:O	1:Ai:71:LEU:HB2	1.81	0.80
2:BL:53:ARG:HG2	2:BL:221:MET:HE3	1.62	0.80
2:B3:53:ARG:HG2	2:B3:221:MET:HE3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bt:53:ARG:HG2	2:Bt:221:MET:HE3	1.62	0.80
1:DH:70:ARG:O	1:DH:71:LEU:HB2	1.81	0.80
2:BW:53:ARG:HG2	2:BW:221:MET:HE3	1.62	0.80
2:Bv:53:ARG:HG2	2:Bv:221:MET:HE3	1.63	0.80
1:AM:70:ARG:O	1:AM:71:LEU:HB2	1.81	0.80
1:AT:70:ARG:O	1:AT:71:LEU:HB2	1.81	0.80
1:DK:70:ARG:O	1:DK:71:LEU:HB2	1.81	0.80
1:AK:70:ARG:O	1:AK:71:LEU:HB2	1.81	0.80
1:AW:70:ARG:O	1:AW:71:LEU:HB2	1.81	0.80
1:Af:70:ARG:O	1:Af:71:LEU:HB2	1.81	0.80
2:BJ:53:ARG:HG2	2:BJ:221:MET:HE3	1.62	0.80
2:Bs:53:ARG:HG2	2:Bs:221:MET:HE3	1.62	0.80
1:AN:70:ARG:O	1:AN:71:LEU:HB2	1.81	0.80
1:A8:70:ARG:O	1:A8:71:LEU:HB2	1.81	0.80
1:Aa:70:ARG:O	1:Aa:71:LEU:HB2	1.81	0.80
2:BF:53:ARG:HG2	2:BF:221:MET:HE3	1.62	0.80
1:DF:70:ARG:O	1:DF:71:LEU:HB2	1.81	0.80
1:AS:70:ARG:O	1:AS:71:LEU:HB2	1.81	0.80
1:An:70:ARG:O	1:An:71:LEU:HB2	1.81	0.80
2:BM:53:ARG:HG2	2:BM:221:MET:HE3	1.62	0.80
2:BU:53:ARG:HG2	2:BU:221:MET:HE3	1.62	0.80
2:B0:53:ARG:HG2	2:B0:221:MET:HE3	1.62	0.80
2:B6:53:ARG:HG2	2:B6:221:MET:HE3	1.62	0.80
1:DI:70:ARG:O	1:DI:71:LEU:HB2	1.81	0.80
1:Ad:70:ARG:O	1:Ad:71:LEU:HB2	1.81	0.80
2:BN:53:ARG:HG2	2:BN:221:MET:HE3	1.62	0.80
1:DD:70:ARG:O	1:DD:71:LEU:HB2	1.81	0.80
1:AF:70:ARG:O	1:AF:71:LEU:HB2	1.81	0.79
1:AG:70:ARG:O	1:AG:71:LEU:HB2	1.81	0.79
2:BR:53:ARG:HG2	2:BR:221:MET:HE3	1.62	0.79
2:Ba:53:ARG:HG2	2:Ba:221:MET:HE3	1.62	0.79
1:AE:70:ARG:O	1:AE:71:LEU:HB2	1.81	0.79
1:AU:70:ARG:O	1:AU:71:LEU:HB2	1.81	0.79
1:A6:70:ARG:O	1:A6:71:LEU:HB2	1.81	0.79
2:BV:53:ARG:HG2	2:BV:221:MET:HE3	1.62	0.79
2:B8:53:ARG:HG2	2:B8:221:MET:HE3	1.62	0.79
2:Bm:53:ARG:HG2	2:Bm:221:MET:HE3	1.62	0.79
2:Bx:53:ARG:HG2	2:Bx:221:MET:HE3	1.62	0.79
1:AA:70:ARG:O	1:AA:71:LEU:HB2	1.81	0.79
1:AO:70:ARG:O	1:AO:71:LEU:HB2	1.81	0.79
1:Ag:70:ARG:O	1:Ag:71:LEU:HB2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:53:ARG:HG2	2:B7:221:MET:HE3	1.62	0.79
2:Bc:53:ARG:HG2	2:Bc:221:MET:HE3	1.62	0.79
2:Bj:53:ARG:HG2	2:Bj:221:MET:HE3	1.62	0.79
2:Bl:53:ARG:HG2	2:Bl:221:MET:HE3	1.62	0.79
1:A5:70:ARG:O	1:A5:71:LEU:HB2	1.81	0.79
1:A7:70:ARG:O	1:A7:71:LEU:HB2	1.81	0.79
1:Am:70:ARG:O	1:Am:71:LEU:HB2	1.81	0.79
2:B2:53:ARG:HG2	2:B2:221:MET:HE3	1.62	0.79
1:Ae:70:ARG:O	1:Ae:71:LEU:HB2	1.81	0.79
1:Ao:70:ARG:O	1:Ao:71:LEU:HB2	1.81	0.79
2:BX:53:ARG:HG2	2:BX:221:MET:HE3	1.62	0.79
1:Ac:70:ARG:O	1:Ac:71:LEU:HB2	1.81	0.79
2:BG:53:ARG:HG2	2:BG:221:MET:HE3	1.62	0.79
1:A9:70:ARG:O	1:A9:71:LEU:HB2	1.81	0.79
1:AZ:70:ARG:O	1:AZ:71:LEU:HB2	1.81	0.79
1:DG:70:ARG:O	1:DG:71:LEU:HB2	1.81	0.79
1:AQ:70:ARG:O	1:AQ:71:LEU:HB2	1.81	0.79
1:AY:70:ARG:O	1:AY:71:LEU:HB2	1.81	0.79
1:A1:70:ARG:O	1:A1:71:LEU:HB2	1.81	0.79
1:Ab:70:ARG:O	1:Ab:71:LEU:HB2	1.81	0.78
2:B1:53:ARG:HG2	2:B1:221:MET:HE3	1.62	0.78
1:AJ:70:ARG:O	1:AJ:71:LEU:HB2	1.81	0.78
1:DE:70:ARG:O	1:DE:71:LEU:HB2	1.81	0.78
1:DJ:70:ARG:O	1:DJ:71:LEU:HB2	1.81	0.78
1:A4:70:ARG:O	1:A4:71:LEU:HB2	1.81	0.78
1:AB:70:ARG:O	1:AB:71:LEU:HB2	1.81	0.78
1:Aj:70:ARG:O	1:Aj:71:LEU:HB2	1.81	0.78
1:A0:70:ARG:O	1:A0:71:LEU:HB2	1.81	0.78
1:AX:70:ARG:O	1:AX:71:LEU:HB2	1.81	0.77
1:Ak:70:ARG:O	1:Ak:71:LEU:HB2	1.81	0.77
1:A3:70:ARG:O	1:A3:71:LEU:HB2	1.81	0.77
2:Bv:137:GLU:HB2	1:DI:181:LYS:HE3	1.67	0.77
1:AL:70:ARG:O	1:AL:71:LEU:HB2	1.81	0.77
1:AQ:181:LYS:HE3	2:BP:137:GLU:HB2	1.67	0.77
1:A6:181:LYS:HE3	2:B6:137:GLU:HB2	1.67	0.77
1:A8:181:LYS:HE3	2:B8:137:GLU:HB2	1.67	0.77
1:AI:191:HIS:HD2	1:AI:193:GLY:H	1.33	0.77
1:AM:181:LYS:HE3	2:BN:137:GLU:HB2	1.67	0.77
1:AP:181:LYS:HE3	2:BS:137:GLU:HB2	1.67	0.77
1:Aj:191:HIS:HD2	1:Aj:193:GLY:H	1.33	0.77
1:Al:181:LYS:HE3	2:Bl:137:GLU:HB2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:191:HIS:HD2	1:AZ:193:GLY:H	1.33	0.77
1:A7:191:HIS:HD2	1:A7:193:GLY:H	1.33	0.77
1:Aa:181:LYS:HE3	2:Ba:137:GLU:HB2	1.67	0.77
1:Ah:181:LYS:HE3	2:Bh:137:GLU:HB2	1.67	0.77
2:BJ:137:GLU:HB2	1:DK:181:LYS:HE3	1.67	0.77
1:AJ:191:HIS:HD2	1:AJ:193:GLY:H	1.33	0.77
1:AU:181:LYS:HE3	2:BV:137:GLU:HB2	1.67	0.77
1:AW:191:HIS:HD2	1:AW:193:GLY:H	1.33	0.77
1:AZ:181:LYS:HE3	2:B0:137:GLU:HB2	1.67	0.77
1:A4:181:LYS:HE3	2:Bx:137:GLU:HB2	1.67	0.77
1:Aa:191:HIS:HD2	1:Aa:193:GLY:H	1.33	0.77
1:Ad:181:LYS:HE3	2:Bd:137:GLU:HB2	1.67	0.77
1:AD:181:LYS:HE3	2:BD:137:GLU:HB2	1.67	0.77
1:AG:191:HIS:HD2	1:AG:193:GLY:H	1.33	0.77
1:AN:191:HIS:HD2	1:AN:193:GLY:H	1.33	0.77
1:AT:181:LYS:HE3	2:BU:137:GLU:HB2	1.67	0.77
1:AZ:207:CYS:O	1:AZ:208:TYR:HB2	1.85	0.77
1:AI:181:LYS:HE3	2:BI:137:GLU:HB2	1.67	0.76
1:AM:191:HIS:HD2	1:AM:193:GLY:H	1.33	0.76
1:AX:181:LYS:HE3	2:BY:137:GLU:HB2	1.67	0.76
1:AY:181:LYS:HE3	2:BZ:137:GLU:HB2	1.67	0.76
1:Aj:181:LYS:HE3	2:Bj:137:GLU:HB2	1.67	0.76
2:Bq:137:GLU:HB2	1:DD:181:LYS:HE3	1.67	0.76
1:DH:191:HIS:HD2	1:DH:193:GLY:H	1.33	0.76
1:AL:181:LYS:HE3	2:BM:137:GLU:HB2	1.67	0.76
1:A2:181:LYS:HE3	2:B3:137:GLU:HB2	1.67	0.76
1:A2:207:CYS:O	1:A2:208:TYR:HB2	1.86	0.76
1:Am:191:HIS:HD2	1:Am:193:GLY:H	1.33	0.76
1:DF:191:HIS:HD2	1:DF:193:GLY:H	1.33	0.76
1:AH:181:LYS:HE3	2:BH:137:GLU:HB2	1.67	0.76
1:Ag:191:HIS:HD2	1:Ag:193:GLY:H	1.33	0.76
2:Bu:137:GLU:HB2	1:DH:181:LYS:HE3	1.67	0.76
2:Bw:137:GLU:HB2	1:DJ:181:LYS:HE3	1.67	0.76
1:AN:181:LYS:HE3	2:BR:137:GLU:HB2	1.67	0.76
1:AO:191:HIS:HD2	1:AO:193:GLY:H	1.33	0.76
1:Ac:191:HIS:HD2	1:Ac:193:GLY:H	1.33	0.76
1:DC:207:CYS:O	1:DC:208:TYR:HB2	1.86	0.76
1:AC:207:CYS:O	1:AC:208:TYR:HB2	1.86	0.76
1:AK:207:CYS:O	1:AK:208:TYR:HB2	1.86	0.76
1:A0:191:HIS:HD2	1:A0:193:GLY:H	1.33	0.76
1:A4:191:HIS:HD2	1:A4:193:GLY:H	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:181:LYS:HE3	2:Bi:137:GLU:HB2	1.67	0.76
1:Ai:207:CYS:O	1:Ai:208:TYR:HB2	1.86	0.76
1:Ak:191:HIS:HD2	1:Ak:193:GLY:H	1.33	0.76
1:Ao:207:CYS:O	1:Ao:208:TYR:HB2	1.86	0.76
3:CY:46:VAL:O	3:CY:50:THR:HB	1.86	0.76
1:DI:207:CYS:O	1:DI:208:TYR:HB2	1.86	0.76
1:AA:181:LYS:HE3	2:BA:137:GLU:HB2	1.67	0.76
1:AW:207:CYS:O	1:AW:208:TYR:HB2	1.86	0.76
1:A8:207:CYS:O	1:A8:208:TYR:HB2	1.86	0.76
1:Ak:181:LYS:HE3	2:Bk:137:GLU:HB2	1.67	0.76
1:Al:191:HIS:HD2	1:Al:193:GLY:H	1.33	0.76
2:Bp:137:GLU:HB2	1:DC:181:LYS:HE3	1.67	0.76
3:CI:46:VAL:O	3:CI:50:THR:HB	1.86	0.76
3:CZ:46:VAL:O	3:CZ:50:THR:HB	1.86	0.76
3:C2:46:VAL:O	3:C2:50:THR:HB	1.86	0.76
3:Ci:46:VAL:O	3:Ci:50:THR:HB	1.86	0.76
3:Cq:46:VAL:O	3:Cq:50:THR:HB	1.86	0.76
1:AJ:181:LYS:HE3	2:BK:137:GLU:HB2	1.67	0.76
1:AQ:207:CYS:O	1:AQ:208:TYR:HB2	1.86	0.76
1:AS:181:LYS:HE3	2:BT:137:GLU:HB2	1.67	0.76
1:AU:191:HIS:HD2	1:AU:193:GLY:H	1.33	0.76
1:A5:181:LYS:HE3	2:B5:137:GLU:HB2	1.67	0.76
1:A6:207:CYS:O	1:A6:208:TYR:HB2	1.86	0.76
1:A7:181:LYS:HE3	2:B7:137:GLU:HB2	1.67	0.76
3:CS:46:VAL:O	3:CS:50:THR:HB	1.86	0.76
3:C9:46:VAL:O	3:C9:50:THR:HB	1.86	0.76
3:Cr:46:VAL:O	3:Cr:50:THR:HB	1.86	0.76
1:AA:207:CYS:O	1:AA:208:TYR:HB2	1.86	0.76
1:AB:207:CYS:O	1:AB:208:TYR:HB2	1.85	0.76
1:AF:207:CYS:O	1:AF:208:TYR:HB2	1.86	0.76
1:Ab:181:LYS:HE3	2:Bb:137:GLU:HB2	1.67	0.76
1:Ac:207:CYS:O	1:Ac:208:TYR:HB2	1.86	0.76
1:Ae:181:LYS:HE3	2:Be:137:GLU:HB2	1.67	0.76
3:CD:46:VAL:O	3:CD:50:THR:HB	1.86	0.76
3:CM:46:VAL:O	3:CM:50:THR:HB	1.86	0.76
3:CN:46:VAL:O	3:CN:50:THR:HB	1.86	0.76
3:CW:46:VAL:O	3:CW:50:THR:HB	1.86	0.76
3:C0:46:VAL:O	3:C0:50:THR:HB	1.86	0.76
3:Cc:46:VAL:O	3:Cc:50:THR:HB	1.86	0.76
3:Cf:46:VAL:O	3:Cf:50:THR:HB	1.86	0.76
3:Cx:46:VAL:O	3:Cx:50:THR:HB	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:191:HIS:HD2	1:DG:193:GLY:H	1.33	0.76
1:AT:207:CYS:O	1:AT:208:TYR:HB2	1.86	0.76
1:AV:181:LYS:HE3	2:BW:137:GLU:HB2	1.67	0.76
1:AV:207:CYS:O	1:AV:208:TYR:HB2	1.86	0.76
1:Ah:207:CYS:O	1:Ah:208:TYR:HB2	1.86	0.76
1:Aj:207:CYS:O	1:Aj:208:TYR:HB2	1.86	0.76
1:Ak:207:CYS:O	1:Ak:208:TYR:HB2	1.86	0.76
2:BF:157:VAL:HG23	3:CF:50:THR:HG21	1.68	0.76
3:CJ:46:VAL:O	3:CJ:50:THR:HB	1.86	0.76
3:CR:46:VAL:O	3:CR:50:THR:HB	1.86	0.76
3:C5:46:VAL:O	3:C5:50:THR:HB	1.86	0.76
3:Ct:46:VAL:O	3:Ct:50:THR:HB	1.86	0.76
1:DJ:191:HIS:HD2	1:DJ:193:GLY:H	1.33	0.76
1:DJ:207:CYS:O	1:DJ:208:TYR:HB2	1.86	0.76
1:AD:191:HIS:HD2	1:AD:193:GLY:H	1.33	0.75
1:AG:207:CYS:O	1:AG:208:TYR:HB2	1.86	0.75
1:A3:181:LYS:HE3	2:B4:137:GLU:HB2	1.67	0.75
1:A3:207:CYS:O	1:A3:208:TYR:HB2	1.86	0.75
1:A8:191:HIS:HD2	1:A8:193:GLY:H	1.33	0.75
1:A9:181:LYS:HE3	2:B9:137:GLU:HB2	1.67	0.75
1:A9:191:HIS:HD2	1:A9:193:GLY:H	1.33	0.75
2:BC:157:VAL:HG23	3:CC:50:THR:HG21	1.68	0.75
2:BO:157:VAL:HG23	3:CP:50:THR:HG21	1.68	0.75
2:BW:157:VAL:HG23	3:CW:50:THR:HG21	1.68	0.75
1:AI:207:CYS:O	1:AI:208:TYR:HB2	1.86	0.75
1:A1:191:HIS:HD2	1:A1:193:GLY:H	1.33	0.75
1:Ac:181:LYS:HE3	2:Bc:137:GLU:HB2	1.67	0.75
2:BB:157:VAL:HG23	3:CB:50:THR:HG21	1.69	0.75
2:BM:157:VAL:HG23	3:CM:50:THR:HG21	1.68	0.75
2:BS:157:VAL:HG23	3:CQ:50:THR:HG21	1.69	0.75
2:Bd:157:VAL:HG23	3:Ce:50:THR:HG21	1.68	0.75
2:Bw:157:VAL:HG23	3:Cx:50:THR:HG21	1.68	0.75
3:Cn:46:VAL:O	3:Cn:50:THR:HB	1.86	0.75
3:DA:46:VAL:O	3:DA:50:THR:HB	1.86	0.75
1:DE:207:CYS:O	1:DE:208:TYR:HB2	1.86	0.75
1:DG:207:CYS:O	1:DG:208:TYR:HB2	1.86	0.75
1:AB:181:LYS:HE3	2:BB:137:GLU:HB2	1.67	0.75
1:AK:181:LYS:HE3	2:BL:137:GLU:HB2	1.67	0.75
1:AX:207:CYS:O	1:AX:208:TYR:HB2	1.86	0.75
1:A1:181:LYS:HE3	2:B2:137:GLU:HB2	1.67	0.75
2:Bf:157:VAL:HG23	3:Cg:50:THR:HG21	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:157:VAL:HG23	3:Cq:50:THR:HG21	1.68	0.75
3:CF:46:VAL:O	3:CF:50:THR:HB	1.86	0.75
1:DD:191:HIS:HD2	1:DD:193:GLY:H	1.33	0.75
1:DD:207:CYS:O	1:DD:208:TYR:HB2	1.86	0.75
1:AE:181:LYS:HE3	2:BE:137:GLU:HB2	1.67	0.75
1:AS:207:CYS:O	1:AS:208:TYR:HB2	1.86	0.75
1:AY:207:CYS:O	1:AY:208:TYR:HB2	1.86	0.75
1:Ao:181:LYS:HE3	2:Bo:137:GLU:HB2	1.67	0.75
2:Br:137:GLU:HB2	1:DE:181:LYS:HE3	1.67	0.75
3:CV:46:VAL:O	3:CV:50:THR:HB	1.86	0.75
3:C7:46:VAL:O	3:C7:50:THR:HB	1.86	0.75
3:Ce:46:VAL:O	3:Ce:50:THR:HB	1.86	0.75
3:DB:46:VAL:O	3:DB:50:THR:HB	1.86	0.75
1:DK:207:CYS:O	1:DK:208:TYR:HB2	1.86	0.75
1:AD:207:CYS:O	1:AD:208:TYR:HB2	1.86	0.75
1:AE:191:HIS:HD2	1:AE:193:GLY:H	1.33	0.75
1:AQ:191:HIS:HD2	1:AQ:193:GLY:H	1.33	0.75
1:AR:191:HIS:HD2	1:AR:193:GLY:H	1.33	0.75
1:AS:191:HIS:HD2	1:AS:193:GLY:H	1.33	0.75
1:A4:207:CYS:O	1:A4:208:TYR:HB2	1.86	0.75
1:Ai:191:HIS:HD2	1:Ai:193:GLY:H	1.33	0.75
2:BJ:157:VAL:HG23	3:CJ:50:THR:HG21	1.68	0.75
2:B0:157:VAL:HG23	3:C0:50:THR:HG21	1.69	0.75
3:CO:46:VAL:O	3:CO:50:THR:HB	1.86	0.75
3:CT:46:VAL:O	3:CT:50:THR:HB	1.86	0.75
3:CU:46:VAL:O	3:CU:50:THR:HB	1.86	0.75
3:Cl:46:VAL:O	3:Cl:50:THR:HB	1.86	0.75
3:Cw:46:VAL:O	3:Cw:50:THR:HB	1.86	0.75
1:DH:207:CYS:O	1:DH:208:TYR:HB2	1.86	0.75
1:AA:191:HIS:HD2	1:AA:193:GLY:H	1.33	0.75
1:AC:181:LYS:HE3	2:BC:137:GLU:HB2	1.67	0.75
1:A0:181:LYS:HE3	2:B1:137:GLU:HB2	1.67	0.75
1:Am:181:LYS:HE3	2:Bm:137:GLU:HB2	1.67	0.75
2:BK:157:VAL:HG23	3:CK:50:THR:HG21	1.69	0.75
2:BL:157:VAL:HG23	3:CL:50:THR:HG21	1.69	0.75
2:Bo:157:VAL:HG23	3:Cp:50:THR:HG21	1.69	0.75
3:CC:46:VAL:O	3:CC:50:THR:HB	1.86	0.75
1:AK:191:HIS:HD2	1:AK:193:GLY:H	1.33	0.75
1:AN:207:CYS:O	1:AN:208:TYR:HB2	1.86	0.75
1:AO:181:LYS:HE3	2:BO:137:GLU:HB2	1.67	0.75
1:AU:207:CYS:O	1:AU:208:TYR:HB2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:207:CYS:O	1:A1:208:TYR:HB2	1.86	0.75
1:A5:207:CYS:O	1:A5:208:TYR:HB2	1.86	0.75
1:An:181:LYS:HE3	2:Bn:137:GLU:HB2	1.67	0.75
1:Ao:191:HIS:HD2	1:Ao:193:GLY:H	1.33	0.75
2:BZ:157:VAL:HG23	3:CZ:50:THR:HG21	1.68	0.75
2:Bc:157:VAL:HG23	3:Cd:50:THR:HG21	1.69	0.75
2:Bg:157:VAL:HG23	3:Ch:50:THR:HG21	1.69	0.75
2:Bl:157:VAL:HG23	3:Cm:50:THR:HG21	1.69	0.75
2:Bn:157:VAL:HG23	3:Co:50:THR:HG21	1.69	0.75
3:CA:46:VAL:O	3:CA:50:THR:HB	1.86	0.75
3:CK:46:VAL:O	3:CK:50:THR:HB	1.86	0.75
3:Cm:46:VAL:O	3:Cm:50:THR:HB	1.86	0.75
1:AF:181:LYS:HE3	2:BF:137:GLU:HB2	1.67	0.75
1:AO:207:CYS:O	1:AO:208:TYR:HB2	1.86	0.75
1:AV:191:HIS:HD2	1:AV:193:GLY:H	1.33	0.75
1:AW:181:LYS:HE3	2:BX:137:GLU:HB2	1.67	0.75
1:Ae:207:CYS:O	1:Ae:208:TYR:HB2	1.86	0.75
1:Af:181:LYS:HE3	2:Bf:137:GLU:HB2	1.67	0.75
2:Bb:157:VAL:HG23	3:Cc:50:THR:HG21	1.69	0.75
2:Bj:157:VAL:HG23	3:Ck:50:THR:HG21	1.69	0.75
3:Cd:46:VAL:O	3:Cd:50:THR:HB	1.86	0.75
3:Cu:46:VAL:O	3:Cu:50:THR:HB	1.86	0.75
1:AG:243:ILE:HG23	1:DK:188:PRO:HB2	1.69	0.75
1:AH:191:HIS:HD2	1:AH:193:GLY:H	1.33	0.75
1:AX:191:HIS:HD2	1:AX:193:GLY:H	1.33	0.75
1:A0:207:CYS:O	1:A0:208:TYR:HB2	1.86	0.75
1:A3:191:HIS:HD2	1:A3:193:GLY:H	1.33	0.75
1:A8:188:PRO:HB2	1:Ab:243:ILE:HG23	1.69	0.75
1:Af:191:HIS:HD2	1:Af:193:GLY:H	1.33	0.75
2:BQ:157:VAL:HG23	3:CS:50:THR:HG21	1.68	0.75
2:BU:157:VAL:HG23	3:CU:50:THR:HG21	1.69	0.75
2:BX:157:VAL:HG23	3:CX:50:THR:HG21	1.69	0.75
2:Bx:157:VAL:HG23	3:C5:50:THR:HG21	1.69	0.75
3:Ck:46:VAL:O	3:Ck:50:THR:HB	1.86	0.75
1:DC:191:HIS:HD2	1:DC:193:GLY:H	1.33	0.75
1:AE:207:CYS:O	1:AE:208:TYR:HB2	1.86	0.74
1:AJ:188:PRO:HB2	1:AM:243:ILE:HG23	1.69	0.74
1:A4:243:ILE:HG23	1:A7:188:PRO:HB2	1.70	0.74
1:A5:243:ILE:HG23	1:A6:188:PRO:HB2	1.70	0.74
1:A7:207:CYS:O	1:A7:208:TYR:HB2	1.86	0.74
2:BY:157:VAL:HG23	3:CY:50:THR:HG21	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bt:137:GLU:HB2	1:DG:181:LYS:HE3	1.67	0.74
3:CL:46:VAL:O	3:CL:50:THR:HB	1.86	0.74
3:C3:46:VAL:O	3:C3:50:THR:HB	1.86	0.74
3:Ch:46:VAL:O	3:Ch:50:THR:HB	1.86	0.74
1:DG:243:ILE:HG23	1:DJ:188:PRO:HB2	1.69	0.74
1:AF:191:HIS:HD2	1:AF:193:GLY:H	1.33	0.74
1:AK:243:ILE:HG23	1:AN:188:PRO:HB2	1.69	0.74
1:AY:243:ILE:HG23	1:AZ:188:PRO:HB2	1.69	0.74
1:A9:207:CYS:O	1:A9:208:TYR:HB2	1.86	0.74
1:Aa:188:PRO:HB2	1:Ac:243:ILE:HG23	1.69	0.74
1:Ag:181:LYS:HE3	2:Bg:137:GLU:HB2	1.67	0.74
1:Aj:243:ILE:HG23	1:Am:188:PRO:HB2	1.69	0.74
1:Ak:243:ILE:HG23	1:Al:188:PRO:HB2	1.70	0.74
1:Al:207:CYS:O	1:Al:208:TYR:HB2	1.86	0.74
2:BO:184:THR:HG21	2:BO:189:HIS:ND1	2.03	0.74
2:B5:157:VAL:HG23	3:C6:50:THR:HG21	1.69	0.74
2:B9:157:VAL:HG23	3:DA:50:THR:HG21	1.69	0.74
2:Bk:157:VAL:HG23	3:Cl:50:THR:HG21	1.69	0.74
2:Br:157:VAL:HG23	3:Cs:50:THR:HG21	1.69	0.74
3:CH:46:VAL:O	3:CH:50:THR:HB	1.86	0.74
3:C6:46:VAL:O	3:C6:50:THR:HB	1.86	0.74
3:C8:46:VAL:O	3:C8:50:THR:HB	1.86	0.74
3:Cs:46:VAL:O	3:Cs:50:THR:HB	1.86	0.74
1:DH:243:ILE:HG23	1:DI:188:PRO:HB2	1.69	0.74
1:AC:243:ILE:HG23	1:AD:188:PRO:HB2	1.69	0.74
1:AF:243:ILE:HG23	1:AG:188:PRO:HB2	1.69	0.74
1:AR:181:LYS:HE3	2:BQ:137:GLU:HB2	1.67	0.74
1:AT:188:PRO:HB2	1:AW:243:ILE:HG23	1.69	0.74
1:AV:243:ILE:HG23	1:AW:188:PRO:HB2	1.69	0.74
1:Ai:243:ILE:HG23	1:Aj:188:PRO:HB2	1.69	0.74
1:Ao:243:ILE:HG23	1:DE:188:PRO:HB2	1.70	0.74
2:BN:157:VAL:HG23	3:CN:50:THR:HG21	1.69	0.74
2:Bu:157:VAL:HG23	3:Cv:50:THR:HG21	1.68	0.74
3:Cg:46:VAL:O	3:Cg:50:THR:HB	1.86	0.74
3:Cj:46:VAL:O	3:Cj:50:THR:HB	1.86	0.74
1:DC:188:PRO:HB2	1:DE:243:ILE:HG23	1.70	0.74
1:DE:191:HIS:HD2	1:DE:193:GLY:H	1.33	0.74
1:AB:191:HIS:HD2	1:AB:193:GLY:H	1.33	0.74
1:AL:243:ILE:HG23	1:AM:188:PRO:HB2	1.70	0.74
1:AP:207:CYS:O	1:AP:208:TYR:HB2	1.85	0.74
1:AU:243:ILE:HG23	1:AX:188:PRO:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:188:PRO:HB2	1:A1:243:ILE:HG23	1.70	0.74
1:A8:243:ILE:HG23	1:A9:188:PRO:HB2	1.70	0.74
1:Ae:191:HIS:HD2	1:Ae:193:GLY:H	1.33	0.74
2:BF:184:THR:HG21	2:BF:189:HIS:ND1	2.03	0.74
2:BR:184:THR:HG21	2:BR:189:HIS:ND1	2.03	0.74
2:BP:184:THR:HG21	2:BP:189:HIS:ND1	2.03	0.74
2:B1:157:VAL:HG23	3:C1:50:THR:HG21	1.69	0.74
2:Bi:184:THR:HG21	2:Bi:189:HIS:ND1	2.03	0.74
2:Bs:157:VAL:HG23	3:Ct:50:THR:HG21	1.68	0.74
1:AC:188:PRO:HB2	1:AE:243:ILE:HG23	1.70	0.74
1:AF:188:PRO:HB2	1:AI:243:ILE:HG23	1.70	0.74
1:AQ:188:PRO:HB2	1:AS:243:ILE:HG23	1.70	0.74
1:AQ:243:ILE:HG23	1:AR:188:PRO:HB2	1.70	0.74
1:A3:243:ILE:HG23	1:A4:188:PRO:HB2	1.70	0.74
1:A9:243:ILE:HG23	1:Ac:188:PRO:HB2	1.69	0.74
1:Ae:243:ILE:HG23	1:Ah:188:PRO:HB2	1.69	0.74
1:Af:188:PRO:HB2	1:Ah:243:ILE:HG23	1.70	0.74
1:Ai:188:PRO:HB2	1:Al:243:ILE:HG23	1.69	0.74
2:BA:157:VAL:HG23	3:CA:50:THR:HG21	1.68	0.74
2:BJ:184:THR:HG21	2:BJ:189:HIS:ND1	2.03	0.74
2:BP:157:VAL:HG23	3:CR:50:THR:HG21	1.68	0.74
2:BT:184:THR:HG21	2:BT:189:HIS:ND1	2.03	0.74
2:BX:184:THR:HG21	2:BX:189:HIS:ND1	2.03	0.74
2:B4:184:THR:HG21	2:B4:189:HIS:ND1	2.03	0.74
3:CB:46:VAL:O	3:CB:50:THR:HB	1.86	0.74
3:CG:46:VAL:O	3:CG:50:THR:HB	1.86	0.74
3:CQ:46:VAL:O	3:CQ:50:THR:HB	1.86	0.74
3:C4:46:VAL:O	3:C4:50:THR:HB	1.86	0.74
3:Cv:46:VAL:O	3:Cv:50:THR:HB	1.86	0.74
1:DF:188:PRO:HB2	1:DI:243:ILE:HG23	1.70	0.74
1:AG:181:LYS:HE3	2:BG:137:GLU:HB2	1.67	0.74
1:AJ:207:CYS:O	1:AJ:208:TYR:HB2	1.86	0.74
1:AM:207:CYS:O	1:AM:208:TYR:HB2	1.85	0.74
1:AV:188:PRO:HB2	1:AX:243:ILE:HG23	1.70	0.74
1:AZ:243:ILE:HG23	1:A2:188:PRO:HB2	1.69	0.74
1:A0:188:PRO:HB2	1:A2:243:ILE:HG23	1.69	0.74
1:A0:243:ILE:HG23	1:A1:188:PRO:HB2	1.69	0.74
1:A3:188:PRO:HB2	1:A6:243:ILE:HG23	1.70	0.74
1:An:207:CYS:O	1:An:208:TYR:HB2	1.86	0.74
2:BA:184:THR:HG21	2:BA:189:HIS:ND1	2.03	0.74
2:BC:184:THR:HG21	2:BC:189:HIS:ND1	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:184:THR:HG21	2:BE:189:HIS:ND1	2.03	0.74
2:B2:157:VAL:HG23	3:C2:50:THR:HG21	1.69	0.74
2:B8:184:THR:HG21	2:B8:189:HIS:ND1	2.03	0.74
2:Bd:184:THR:HG21	2:Bd:189:HIS:ND1	2.03	0.74
2:Bp:184:THR:HG21	2:Bp:189:HIS:ND1	2.03	0.74
2:Bq:184:THR:HG21	2:Bq:189:HIS:ND1	2.03	0.74
2:Bt:184:THR:HG21	2:Bt:189:HIS:ND1	2.03	0.74
2:Bu:184:THR:HG21	2:Bu:189:HIS:ND1	2.03	0.74
3:CX:46:VAL:O	3:CX:50:THR:HB	1.86	0.74
1:DH:188:PRO:HB2	1:DJ:243:ILE:HG23	1.70	0.74
1:DI:191:HIS:HD2	1:DI:193:GLY:H	1.33	0.74
1:DK:191:HIS:HD2	1:DK:193:GLY:H	1.33	0.74
1:AH:243:ILE:HG23	1:AI:188:PRO:HB2	1.70	0.74
1:Ab:207:CYS:O	1:Ab:208:TYR:HB2	1.86	0.74
1:Af:243:ILE:HG23	1:Ag:188:PRO:HB2	1.69	0.74
2:BI:184:THR:HG21	2:BI:189:HIS:ND1	2.03	0.74
2:BK:184:THR:HG21	2:BK:189:HIS:ND1	2.03	0.74
2:BW:184:THR:HG21	2:BW:189:HIS:ND1	2.03	0.74
2:BZ:184:THR:HG21	2:BZ:189:HIS:ND1	2.02	0.74
2:B6:157:VAL:HG23	3:C7:50:THR:HG21	1.69	0.74
2:Bl:184:THR:HG21	2:Bl:189:HIS:ND1	2.03	0.74
2:Bm:184:THR:HG21	2:Bm:189:HIS:ND1	2.03	0.74
3:CP:46:VAL:O	3:CP:50:THR:HB	1.86	0.74
3:C1:46:VAL:O	3:C1:50:THR:HB	1.86	0.74
1:AJ:243:ILE:HG23	1:AK:188:PRO:HB2	1.70	0.74
1:AT:191:HIS:HD2	1:AT:193:GLY:H	1.33	0.74
1:AT:243:ILE:HG23	1:AU:188:PRO:HB2	1.69	0.74
2:BD:157:VAL:HG23	3:CD:50:THR:HG21	1.69	0.74
2:BS:184:THR:HG21	2:BS:189:HIS:ND1	2.03	0.74
2:BU:184:THR:HG21	2:BU:189:HIS:ND1	2.03	0.74
2:BV:157:VAL:HG23	3:CV:50:THR:HG21	1.69	0.74
2:BV:184:THR:HG21	2:BV:189:HIS:ND1	2.02	0.74
2:B0:184:THR:HG21	2:B0:189:HIS:ND1	2.03	0.74
2:Bg:184:THR:HG21	2:Bg:189:HIS:ND1	2.03	0.74
2:Bv:184:THR:HG21	2:Bv:189:HIS:ND1	2.03	0.74
1:DC:243:ILE:HG23	1:DD:188:PRO:HB2	1.70	0.74
1:AB:243:ILE:HG23	1:AE:188:PRO:HB2	1.69	0.74
1:AO:188:PRO:HB2	1:AR:243:ILE:HG23	1.69	0.74
1:AP:243:ILE:HG23	1:AS:188:PRO:HB2	1.69	0.74
1:A5:191:HIS:HD2	1:A5:193:GLY:H	1.33	0.74
1:Am:207:CYS:O	1:Am:208:TYR:HB2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:184:THR:HG21	2:BB:189:HIS:ND1	2.03	0.74
2:Ba:184:THR:HG21	2:Ba:189:HIS:ND1	2.03	0.74
2:Be:184:THR:HG21	2:Be:189:HIS:ND1	2.03	0.74
2:Bo:184:THR:HG21	2:Bo:189:HIS:ND1	2.03	0.74
2:Bs:137:GLU:HB2	1:DF:181:LYS:HE3	1.67	0.74
1:DF:207:CYS:O	1:DF:208:TYR:HB2	1.86	0.74
1:AC:191:HIS:HD2	1:AC:193:GLY:H	1.33	0.74
1:Aa:207:CYS:O	1:Aa:208:TYR:HB2	1.86	0.74
2:Bv:157:VAL:HG23	3:Cw:50:THR:HG21	1.69	0.74
2:Bw:184:THR:HG21	2:Bw:189:HIS:ND1	2.03	0.74
3:Co:46:VAL:O	3:Co:50:THR:HB	1.86	0.74
1:DF:243:ILE:HG23	1:DG:188:PRO:HB2	1.69	0.74
1:Ad:207:CYS:O	1:Ad:208:TYR:HB2	1.86	0.73
1:Af:207:CYS:O	1:Af:208:TYR:HB2	1.86	0.73
1:Ah:191:HIS:HD2	1:Ah:193:GLY:H	1.33	0.73
1:An:191:HIS:HD2	1:An:193:GLY:H	1.33	0.73
2:BL:184:THR:HG21	2:BL:189:HIS:ND1	2.03	0.73
2:Bf:184:THR:HG21	2:Bf:189:HIS:ND1	2.03	0.73
2:Bh:157:VAL:HG23	3:Ci:50:THR:HG21	1.68	0.73
3:CE:46:VAL:O	3:CE:50:THR:HB	1.86	0.73
1:AH:207:CYS:O	1:AH:208:TYR:HB2	1.86	0.73
1:AL:207:CYS:O	1:AL:208:TYR:HB2	1.86	0.73
1:AR:207:CYS:O	1:AR:208:TYR:HB2	1.86	0.73
1:A6:191:HIS:HD2	1:A6:193:GLY:H	1.33	0.73
1:Ab:191:HIS:HD2	1:Ab:193:GLY:H	1.33	0.73
1:Ad:188:PRO:HB2	1:Ag:243:ILE:HG23	1.69	0.73
1:Ad:243:ILE:HG23	1:Ae:188:PRO:HB2	1.69	0.73
1:Ag:207:CYS:O	1:Ag:208:TYR:HB2	1.86	0.73
2:B4:157:VAL:HG23	3:C4:50:THR:HG21	1.68	0.73
2:Bt:157:VAL:HG23	3:Cu:50:THR:HG21	1.69	0.73
1:AL:191:HIS:HD2	1:AL:193:GLY:H	1.33	0.73
1:A3:115:THR:CG2	1:A3:131:GLN:HB3	2.19	0.73
1:Af:115:THR:CG2	1:Af:131:GLN:HB3	2.19	0.73
2:BE:157:VAL:HG23	3:CE:50:THR:HG21	1.68	0.73
2:B8:157:VAL:HG23	3:C9:50:THR:HG21	1.68	0.73
2:Bc:184:THR:HG21	2:Bc:189:HIS:ND1	2.03	0.73
1:AH:188:PRO:HB2	1:DK:243:ILE:HG23	1.70	0.73
1:AP:191:HIS:HD2	1:AP:193:GLY:H	1.33	0.73
2:B2:184:THR:HG21	2:B2:189:HIS:ND1	2.03	0.73
2:B3:184:THR:HG21	2:B3:189:HIS:ND1	2.03	0.73
2:B6:184:THR:HG21	2:B6:189:HIS:ND1	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bb:184:THR:HG21	2:Bb:189:HIS:ND1	2.03	0.73
1:AO:243:ILE:HG23	1:AP:188:PRO:HB2	1.69	0.73
1:A2:115:THR:CG2	1:A2:131:GLN:HB3	2.19	0.73
1:Ak:188:PRO:HB2	1:Am:243:ILE:HG23	1.70	0.73
1:An:243:ILE:HG23	1:Ao:188:PRO:HB2	1.69	0.73
2:Bm:157:VAL:HG23	3:Cn:50:THR:HG21	1.68	0.73
2:Bx:184:THR:HG21	2:Bx:189:HIS:ND1	2.03	0.73
1:AB:115:THR:CG2	1:AB:131:GLN:HB3	2.19	0.73
1:AE:115:THR:CG2	1:AE:131:GLN:HB3	2.19	0.73
1:Ao:115:THR:CG2	1:Ao:131:GLN:HB3	2.19	0.73
2:BH:157:VAL:HG23	3:CH:50:THR:HG21	1.68	0.73
2:BM:184:THR:HG21	2:BM:189:HIS:ND1	2.03	0.73
2:BY:184:THR:HG21	2:BY:189:HIS:ND1	2.03	0.73
2:B7:184:THR:HG21	2:B7:189:HIS:ND1	2.03	0.73
2:B9:184:THR:HG21	2:B9:189:HIS:ND1	2.03	0.73
2:Be:157:VAL:HG23	3:Cf:50:THR:HG21	1.69	0.73
2:Bn:184:THR:HG21	2:Bn:189:HIS:ND1	2.03	0.73
1:DF:115:THR:CG2	1:DF:131:GLN:HB3	2.19	0.73
1:DK:115:THR:CG2	1:DK:131:GLN:HB3	2.19	0.73
1:AA:188:PRO:HB2	1:AD:243:ILE:HG23	1.70	0.73
1:AJ:115:THR:CG2	1:AJ:131:GLN:HB3	2.19	0.73
1:AT:115:THR:CG2	1:AT:131:GLN:HB3	2.19	0.73
1:AY:191:HIS:HD2	1:AY:193:GLY:H	1.33	0.73
2:BH:184:THR:HG21	2:BH:189:HIS:ND1	2.03	0.73
2:BN:184:THR:HG21	2:BN:189:HIS:ND1	2.03	0.73
2:B3:157:VAL:HG23	3:C3:50:THR:HG21	1.68	0.73
2:Ba:157:VAL:HG23	3:DB:50:THR:HG21	1.68	0.73
2:Bi:157:VAL:HG23	3:Cj:50:THR:HG21	1.69	0.73
1:AA:243:ILE:HG23	1:AB:188:PRO:HB2	1.69	0.73
1:AL:188:PRO:HB2	1:AN:243:ILE:HG23	1.69	0.73
2:BD:184:THR:HG21	2:BD:189:HIS:ND1	2.03	0.73
2:BG:184:THR:HG21	2:BG:189:HIS:ND1	2.03	0.73
2:BI:157:VAL:HG23	3:CI:50:THR:HG21	1.68	0.73
2:B1:184:THR:HG21	2:B1:189:HIS:ND1	2.03	0.73
3:Cp:46:VAL:O	3:Cp:50:THR:HB	1.86	0.73
1:AL:115:THR:CG2	1:AL:131:GLN:HB3	2.19	0.73
1:Ad:115:THR:CG2	1:Ad:131:GLN:HB3	2.19	0.73
1:Ad:191:HIS:HD2	1:Ad:193:GLY:H	1.33	0.73
2:B5:184:THR:HG21	2:B5:189:HIS:ND1	2.03	0.73
2:Bj:184:THR:HG21	2:Bj:189:HIS:ND1	2.03	0.73
2:Bk:184:THR:HG21	2:Bk:189:HIS:ND1	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bq:157:VAL:HG23	3:Cr:50:THR:HG21	1.69	0.73
1:An:115:THR:CG2	1:An:131:GLN:HB3	2.19	0.73
1:An:188:PRO:HB2	1:DD:243:ILE:HG23	1.70	0.73
2:BG:157:VAL:HG23	3:CG:50:THR:HG21	1.69	0.73
1:AM:115:THR:CG2	1:AM:131:GLN:HB3	2.19	0.72
1:Ah:115:THR:CG2	1:Ah:131:GLN:HB3	2.19	0.72
1:AK:115:THR:CG2	1:AK:131:GLN:HB3	2.19	0.72
2:BR:157:VAL:HG23	3:CO:50:THR:HG21	1.69	0.72
1:DH:115:THR:CG2	1:DH:131:GLN:HB3	2.19	0.72
1:AU:115:THR:CG2	1:AU:131:GLN:HB3	2.19	0.72
1:Aj:115:THR:CG2	1:Aj:131:GLN:HB3	2.19	0.72
2:BT:157:VAL:HG23	3:CT:50:THR:HG21	1.69	0.72
2:Bs:184:THR:HG21	2:Bs:189:HIS:ND1	2.03	0.72
1:AH:115:THR:CG2	1:AH:131:GLN:HB3	2.19	0.72
1:A5:188:PRO:HB2	1:A7:243:ILE:HG23	1.70	0.72
1:A8:115:THR:CG2	1:A8:131:GLN:HB3	2.19	0.72
2:B7:157:VAL:HG23	3:C8:50:THR:HG21	1.68	0.72
1:DI:115:THR:CG2	1:DI:131:GLN:HB3	2.19	0.72
1:AF:115:THR:CG2	1:AF:131:GLN:HB3	2.19	0.72
1:AZ:115:THR:CG2	1:AZ:131:GLN:HB3	2.19	0.72
1:A2:191:HIS:HD2	1:A2:193:GLY:H	1.33	0.72
1:Aa:115:THR:CG2	1:Aa:131:GLN:HB3	2.19	0.72
2:BQ:184:THR:HG21	2:BQ:189:HIS:ND1	2.03	0.72
2:Bh:184:THR:HG21	2:Bh:189:HIS:ND1	2.03	0.72
2:Br:184:THR:HG21	2:Br:189:HIS:ND1	2.03	0.72
1:AP:115:THR:CG2	1:AP:131:GLN:HB3	2.19	0.72
1:AS:115:THR:CG2	1:AS:131:GLN:HB3	2.19	0.72
1:AC:115:THR:CG2	1:AC:131:GLN:HB3	2.19	0.72
1:AX:115:THR:CG2	1:AX:131:GLN:HB3	2.19	0.72
1:A0:110:GLY:H	1:A2:242:ASN:HD22	1.38	0.72
1:A3:242:ASN:HD22	1:A4:110:GLY:H	1.38	0.72
1:A8:242:ASN:HD22	1:A9:110:GLY:H	1.38	0.72
1:A7:115:THR:CG2	1:A7:131:GLN:HB3	2.19	0.72
1:Ai:242:ASN:HD22	1:Aj:110:GLY:H	1.38	0.72
1:DH:242:ASN:HD22	1:DI:110:GLY:H	1.38	0.72
1:AA:115:THR:CG2	1:AA:131:GLN:HB3	2.19	0.72
1:AJ:110:GLY:H	1:AM:242:ASN:HD22	1.38	0.72
1:AJ:242:ASN:HD22	1:AK:110:GLY:H	1.38	0.72
1:AL:242:ASN:HD22	1:AM:110:GLY:H	1.38	0.72
1:Ab:115:THR:CG2	1:Ab:131:GLN:HB3	2.19	0.72
1:Ae:115:THR:CG2	1:Ae:131:GLN:HB3	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:115:THR:CG2	1:Ai:131:GLN:HB3	2.19	0.72
1:Ao:242:ASN:HD22	1:DE:110:GLY:H	1.38	0.72
1:DF:110:GLY:H	1:DI:242:ASN:HD22	1.38	0.72
1:AB:242:ASN:HD22	1:AE:110:GLY:H	1.38	0.72
1:AC:110:GLY:H	1:AE:242:ASN:HD22	1.38	0.72
1:A4:115:THR:CG2	1:A4:131:GLN:HB3	2.19	0.72
1:A9:242:ASN:HD22	1:Ac:110:GLY:H	1.38	0.72
1:Aa:243:ILE:HG23	1:Ab:188:PRO:HB2	1.70	0.72
1:Ae:242:ASN:HD22	1:Ah:110:GLY:H	1.38	0.72
1:A9:115:THR:CG2	1:A9:131:GLN:HB3	2.19	0.71
1:An:242:ASN:HD22	1:Ao:110:GLY:H	1.38	0.71
2:Br:134:HIS:CD2	2:Br:145:LEU:HD13	2.25	0.71
1:AE:163:MET:HE1	1:AE:189:GLY:HA3	1.72	0.71
1:AQ:110:GLY:H	1:AS:242:ASN:HD22	1.38	0.71
1:AU:242:ASN:HD22	1:AX:110:GLY:H	1.38	0.71
1:A5:163:MET:HE1	1:A5:189:GLY:HA3	1.72	0.71
1:Af:242:ASN:HD22	1:Ag:110:GLY:H	1.38	0.71
2:BX:134:HIS:CD2	2:BX:145:LEU:HD13	2.26	0.71
2:B3:134:HIS:CD2	2:B3:145:LEU:HD13	2.26	0.71
2:B6:134:HIS:CD2	2:B6:145:LEU:HD13	2.26	0.71
1:DD:115:THR:CG2	1:DD:131:GLN:HB3	2.19	0.71
1:DJ:115:THR:CG2	1:DJ:131:GLN:HB3	2.19	0.71
1:AC:163:MET:HE1	1:AC:189:GLY:HA3	1.73	0.71
1:AK:163:MET:HE1	1:AK:189:GLY:HA3	1.73	0.71
1:AN:115:THR:CG2	1:AN:131:GLN:HB3	2.19	0.71
1:AR:163:MET:HE1	1:AR:189:GLY:HA3	1.73	0.71
1:AT:242:ASN:HD22	1:AU:110:GLY:H	1.38	0.71
1:AZ:242:ASN:HD22	1:A2:110:GLY:H	1.38	0.71
1:A2:163:MET:HE1	1:A2:189:GLY:HA3	1.73	0.71
1:Al:115:THR:CG2	1:Al:131:GLN:HB3	2.19	0.71
2:BR:134:HIS:CD2	2:BR:145:LEU:HD13	2.26	0.71
2:B0:134:HIS:CD2	2:B0:145:LEU:HD13	2.26	0.71
1:DE:163:MET:HE1	1:DE:189:GLY:HA3	1.73	0.71
1:DG:115:THR:CG2	1:DG:131:GLN:HB3	2.19	0.71
1:AQ:242:ASN:HD22	1:AR:110:GLY:H	1.38	0.71
1:AR:115:THR:CG2	1:AR:131:GLN:HB3	2.19	0.71
1:A0:115:THR:CG2	1:A0:131:GLN:HB3	2.19	0.71
1:Ak:163:MET:HE1	1:Ak:189:GLY:HA3	1.73	0.71
1:DC:110:GLY:H	1:DE:242:ASN:HD22	1.38	0.71
1:DF:242:ASN:HD22	1:DG:110:GLY:H	1.38	0.71
1:AA:242:ASN:HD22	1:AB:110:GLY:H	1.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:115:THR:CG2	1:AG:131:GLN:HB3	2.19	0.71
1:AV:163:MET:HE1	1:AV:189:GLY:HA3	1.72	0.71
1:A8:110:GLY:H	1:Ab:242:ASN:HD22	1.38	0.71
1:Ab:163:MET:HE1	1:Ab:189:GLY:HA3	1.73	0.71
1:Al:163:MET:HE1	1:Al:189:GLY:HA3	1.73	0.71
2:BA:134:HIS:CD2	2:BA:145:LEU:HD13	2.26	0.71
2:BK:134:HIS:CD2	2:BK:145:LEU:HD13	2.26	0.71
2:BT:134:HIS:CD2	2:BT:145:LEU:HD13	2.26	0.71
2:Bj:134:HIS:CD2	2:Bj:145:LEU:HD13	2.26	0.71
1:DC:115:THR:CG2	1:DC:131:GLN:HB3	2.19	0.71
1:DC:163:MET:HE1	1:DC:189:GLY:HA3	1.73	0.71
1:AD:115:THR:CG2	1:AD:131:GLN:HB3	2.19	0.71
1:AL:110:GLY:H	1:AN:242:ASN:HD22	1.38	0.71
1:AU:87:GLN:HE21	1:AU:210:ARG:HH22	1.39	0.71
1:AV:110:GLY:H	1:AX:242:ASN:HD22	1.38	0.71
1:A6:115:THR:CG2	1:A6:131:GLN:HB3	2.19	0.71
1:Ai:110:GLY:H	1:Al:242:ASN:HD22	1.38	0.71
2:BB:134:HIS:CD2	2:BB:145:LEU:HD13	2.26	0.71
2:BG:134:HIS:CD2	2:BG:145:LEU:HD13	2.25	0.71
2:Bn:134:HIS:CD2	2:Bn:145:LEU:HD13	2.26	0.71
2:Bo:134:HIS:CD2	2:Bo:145:LEU:HD13	2.26	0.71
2:Bs:134:HIS:CD2	2:Bs:145:LEU:HD13	2.26	0.71
1:DF:163:MET:HE1	1:DF:189:GLY:HA3	1.73	0.71
1:AH:242:ASN:HD22	1:AI:110:GLY:H	1.38	0.71
1:AL:163:MET:HE1	1:AL:189:GLY:HA3	1.73	0.71
1:A5:115:THR:CG2	1:A5:131:GLN:HB3	2.19	0.71
1:A7:163:MET:HE1	1:A7:189:GLY:HA3	1.73	0.71
1:Aa:242:ASN:HD22	1:Ab:110:GLY:H	1.38	0.71
1:Ac:87:GLN:HE21	1:Ac:210:ARG:HH22	1.39	0.71
1:Ae:163:MET:HE1	1:Ae:189:GLY:HA3	1.73	0.71
1:Ah:163:MET:HE1	1:Ah:189:GLY:HA3	1.73	0.71
2:BN:134:HIS:CD2	2:BN:145:LEU:HD13	2.26	0.71
2:B2:134:HIS:CD2	2:B2:145:LEU:HD13	2.26	0.71
2:Ba:134:HIS:CD2	2:Ba:145:LEU:HD13	2.26	0.71
2:Bv:134:HIS:CD2	2:Bv:145:LEU:HD13	2.26	0.71
1:AD:163:MET:HE1	1:AD:189:GLY:HA3	1.73	0.71
1:AH:87:GLN:HE21	1:AH:210:ARG:HH22	1.39	0.71
1:AH:110:GLY:H	1:DK:242:ASN:HD22	1.38	0.71
1:AT:110:GLY:H	1:AW:242:ASN:HD22	1.38	0.71
1:AT:163:MET:HE1	1:AT:189:GLY:HA3	1.73	0.71
1:AW:115:THR:CG2	1:AW:131:GLN:HB3	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:115:THR:CG2	1:AY:131:GLN:HB3	2.19	0.71
1:AY:163:MET:HE1	1:AY:189:GLY:HA3	1.73	0.71
1:AZ:163:MET:HE1	1:AZ:189:GLY:HA3	1.73	0.71
1:Af:163:MET:HE1	1:Af:189:GLY:HA3	1.73	0.71
1:Ak:115:THR:CG2	1:Ak:131:GLN:HB3	2.19	0.71
2:BY:134:HIS:CD2	2:BY:145:LEU:HD13	2.26	0.71
2:B9:134:HIS:CD2	2:B9:145:LEU:HD13	2.25	0.71
2:Bc:134:HIS:CD2	2:Bc:145:LEU:HD13	2.26	0.71
1:AH:163:MET:HE1	1:AH:189:GLY:HA3	1.73	0.71
1:AV:87:GLN:HE21	1:AV:210:ARG:HH22	1.39	0.71
1:A3:110:GLY:H	1:A6:242:ASN:HD22	1.38	0.71
1:Ac:163:MET:HE1	1:Ac:189:GLY:HA3	1.72	0.71
1:Am:163:MET:HE1	1:Am:189:GLY:HA3	1.73	0.71
1:Ao:163:MET:HE1	1:Ao:189:GLY:HA3	1.73	0.71
2:BV:134:HIS:CD2	2:BV:145:LEU:HD13	2.26	0.71
1:AF:110:GLY:H	1:AI:242:ASN:HD22	1.38	0.71
1:AN:87:GLN:HE21	1:AN:210:ARG:HH22	1.39	0.71
1:Aa:87:GLN:HE21	1:Aa:210:ARG:HH22	1.39	0.71
1:Af:110:GLY:H	1:Ah:242:ASN:HD22	1.38	0.71
1:An:110:GLY:H	1:DD:242:ASN:HD22	1.38	0.71
2:BE:134:HIS:CD2	2:BE:145:LEU:HD13	2.26	0.71
2:BZ:134:HIS:CD2	2:BZ:145:LEU:HD13	2.26	0.71
2:B8:134:HIS:CD2	2:B8:145:LEU:HD13	2.26	0.71
2:Bk:134:HIS:CD2	2:Bk:145:LEU:HD13	2.26	0.71
2:Bm:134:HIS:CD2	2:Bm:145:LEU:HD13	2.26	0.71
1:DE:115:THR:CG2	1:DE:131:GLN:HB3	2.19	0.71
1:AG:242:ASN:HD22	1:DK:110:GLY:H	1.38	0.70
1:AO:115:THR:CG2	1:AO:131:GLN:HB3	2.19	0.70
1:AW:87:GLN:HE21	1:AW:210:ARG:HH22	1.39	0.70
1:A6:163:MET:HE1	1:A6:189:GLY:HA3	1.73	0.70
1:Aj:87:GLN:HE21	1:Aj:210:ARG:HH22	1.39	0.70
2:B7:134:HIS:CD2	2:B7:145:LEU:HD13	2.26	0.70
1:AA:110:GLY:H	1:AD:242:ASN:HD22	1.38	0.70
1:A0:163:MET:HE1	1:A0:189:GLY:HA3	1.73	0.70
1:A0:242:ASN:HD22	1:A1:110:GLY:H	1.38	0.70
1:A5:110:GLY:H	1:A7:242:ASN:HD22	1.38	0.70
1:A8:87:GLN:HE21	1:A8:210:ARG:HH22	1.39	0.70
1:Ai:87:GLN:HE21	1:Ai:210:ARG:HH22	1.39	0.70
1:Ai:163:MET:HE1	1:Ai:189:GLY:HA3	1.72	0.70
2:BD:134:HIS:CD2	2:BD:145:LEU:HD13	2.26	0.70
2:BS:134:HIS:CD2	2:BS:145:LEU:HD13	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:87:GLN:HE21	1:AB:210:ARG:HH22	1.39	0.70
1:AF:242:ASN:HD22	1:AG:110:GLY:H	1.38	0.70
1:A5:87:GLN:HE21	1:A5:210:ARG:HH22	1.39	0.70
1:A6:87:GLN:HE21	1:A6:210:ARG:HH22	1.39	0.70
1:An:87:GLN:HE21	1:An:210:ARG:HH22	1.39	0.70
2:BC:134:HIS:CD2	2:BC:145:LEU:HD13	2.26	0.70
2:Bb:134:HIS:CD2	2:Bb:145:LEU:HD13	2.25	0.70
1:DD:163:MET:HE1	1:DD:189:GLY:HA3	1.73	0.70
1:DI:163:MET:HE1	1:DI:189:GLY:HA3	1.73	0.70
1:DJ:163:MET:HE1	1:DJ:189:GLY:HA3	1.72	0.70
1:AG:87:GLN:HE21	1:AG:210:ARG:HH22	1.39	0.70
1:AK:87:GLN:HE21	1:AK:210:ARG:HH22	1.39	0.70
1:AM:87:GLN:HE21	1:AM:210:ARG:HH22	1.39	0.70
1:A9:150:ARG:HE	1:A9:150:ARG:H	1.39	0.70
1:Aa:163:MET:HE1	1:Aa:189:GLY:HA3	1.72	0.70
1:Am:115:THR:CG2	1:Am:131:GLN:HB3	2.19	0.70
2:BW:134:HIS:CD2	2:BW:145:LEU:HD13	2.26	0.70
1:DK:163:MET:HE1	1:DK:189:GLY:HA3	1.73	0.70
1:AB:163:MET:HE1	1:AB:189:GLY:HA3	1.73	0.70
1:AC:242:ASN:HD22	1:AD:110:GLY:H	1.38	0.70
1:AS:163:MET:HE1	1:AS:189:GLY:HA3	1.73	0.70
1:A4:87:GLN:HE21	1:A4:210:ARG:HH22	1.39	0.70
1:Ae:150:ARG:HE	1:Ae:150:ARG:H	1.39	0.70
1:Ao:87:GLN:HE21	1:Ao:210:ARG:HH22	1.39	0.70
2:BP:134:HIS:CD2	2:BP:145:LEU:HD13	2.26	0.70
2:BU:134:HIS:CD2	2:BU:145:LEU:HD13	2.26	0.70
2:Bd:134:HIS:CD2	2:Bd:145:LEU:HD13	2.26	0.70
2:Be:134:HIS:CD2	2:Be:145:LEU:HD13	2.25	0.70
2:Bf:134:HIS:CD2	2:Bf:145:LEU:HD13	2.26	0.70
1:DC:242:ASN:HD22	1:DD:110:GLY:H	1.38	0.70
1:AE:150:ARG:HE	1:AE:150:ARG:H	1.39	0.70
1:AJ:150:ARG:HE	1:AJ:150:ARG:H	1.40	0.70
1:Ae:87:GLN:HE21	1:Ae:210:ARG:HH22	1.39	0.70
2:BH:134:HIS:CD2	2:BH:145:LEU:HD13	2.26	0.70
1:DG:150:ARG:HE	1:DG:150:ARG:H	1.40	0.70
1:DJ:150:ARG:HE	1:DJ:150:ARG:H	1.40	0.70
1:DK:150:ARG:H	1:DK:150:ARG:HE	1.40	0.70
1:AG:163:MET:HE1	1:AG:189:GLY:HA3	1.73	0.70
1:AP:150:ARG:HE	1:AP:150:ARG:H	1.39	0.70
1:AQ:163:MET:HE1	1:AQ:189:GLY:HA3	1.72	0.70
1:AS:87:GLN:HE21	1:AS:210:ARG:HH22	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:150:ARG:HE	1:AS:150:ARG:H	1.40	0.70
1:AX:150:ARG:HE	1:AX:150:ARG:H	1.40	0.70
1:A1:163:MET:HE1	1:A1:189:GLY:HA3	1.73	0.70
1:A3:87:GLN:HE21	1:A3:210:ARG:HH22	1.39	0.70
1:A3:150:ARG:HE	1:A3:150:ARG:H	1.40	0.70
1:Ac:92:THR:HG22	1:Ac:93:THR:H	1.57	0.70
1:Ag:87:GLN:HE21	1:Ag:210:ARG:HH22	1.39	0.70
1:Al:87:GLN:HE21	1:Al:210:ARG:HH22	1.39	0.70
2:Bg:134:HIS:CD2	2:Bg:145:LEU:HD13	2.26	0.70
1:AB:92:THR:HG22	1:AB:93:THR:H	1.57	0.70
1:AC:150:ARG:H	1:AC:150:ARG:HE	1.40	0.70
1:A7:87:GLN:HE21	1:A7:210:ARG:HH22	1.39	0.70
1:Ad:163:MET:HE1	1:Ad:189:GLY:HA3	1.73	0.70
1:Ag:150:ARG:H	1:Ag:150:ARG:HE	1.40	0.70
2:B4:134:HIS:CD2	2:B4:145:LEU:HD13	2.26	0.70
1:DH:87:GLN:HE21	1:DH:210:ARG:HH22	1.39	0.70
1:AB:74:THR:HG21	3:CB:43:PHE:HE1	1.57	0.70
1:AD:150:ARG:HE	1:AD:150:ARG:H	1.40	0.70
1:AE:87:GLN:HE21	1:AE:210:ARG:HH22	1.39	0.70
1:AF:163:MET:HE1	1:AF:189:GLY:HA3	1.73	0.70
1:AG:74:THR:HG21	3:CG:43:PHE:HE1	1.57	0.70
1:AG:92:THR:HG22	1:AG:93:THR:H	1.57	0.70
1:AG:150:ARG:HE	1:AG:150:ARG:H	1.40	0.70
1:AP:163:MET:HE1	1:AP:189:GLY:HA3	1.73	0.70
1:AW:163:MET:HE1	1:AW:189:GLY:HA3	1.73	0.70
1:A2:150:ARG:H	1:A2:150:ARG:HE	1.40	0.70
1:A3:163:MET:HE1	1:A3:189:GLY:HA3	1.73	0.70
1:A4:74:THR:HG21	3:C5:43:PHE:HE2	1.57	0.70
1:A5:242:ASN:HD22	1:A6:110:GLY:H	1.38	0.70
1:Ae:74:THR:HG21	3:Cf:43:PHE:HE2	1.57	0.70
1:Ae:92:THR:HG22	1:Ae:93:THR:H	1.57	0.70
1:Af:87:GLN:HE21	1:Af:210:ARG:HH22	1.39	0.70
1:Ag:115:THR:CG2	1:Ag:131:GLN:HB3	2.19	0.70
1:An:163:MET:HE1	1:An:189:GLY:HA3	1.73	0.70
1:AA:163:MET:HE1	1:AA:189:GLY:HA3	1.73	0.70
1:AL:92:THR:HG22	1:AL:93:THR:H	1.57	0.70
1:AR:150:ARG:HE	1:AR:150:ARG:H	1.40	0.70
1:AZ:92:THR:HG22	1:AZ:93:THR:H	1.57	0.70
1:A9:163:MET:HE1	1:A9:189:GLY:HA3	1.73	0.70
1:Af:150:ARG:HE	1:Af:150:ARG:H	1.40	0.70
1:Ah:92:THR:HG22	1:Ah:93:THR:H	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:150:ARG:HE	1:Ai:150:ARG:H	1.40	0.70
2:B5:134:HIS:CD2	2:B5:145:LEU:HD13	2.26	0.70
1:DE:150:ARG:H	1:DE:150:ARG:HE	1.40	0.70
1:AA:87:GLN:HE21	1:AA:210:ARG:HH22	1.39	0.69
1:AF:87:GLN:HE21	1:AF:210:ARG:HH22	1.39	0.69
1:AI:150:ARG:HE	1:AI:150:ARG:H	1.39	0.69
1:AQ:92:THR:HG22	1:AQ:93:THR:H	1.57	0.69
1:AX:163:MET:HE1	1:AX:189:GLY:HA3	1.73	0.69
1:AZ:74:THR:HG21	3:C0:43:PHE:HE2	1.57	0.69
1:A2:87:GLN:HE21	1:A2:210:ARG:HH22	1.39	0.69
1:A8:163:MET:HE1	1:A8:189:GLY:HA3	1.73	0.69
1:Ac:74:THR:HG21	3:Cd:43:PHE:HE2	1.57	0.69
1:Ad:110:GLY:H	1:Ag:242:ASN:HD22	1.38	0.69
1:Aj:163:MET:HE1	1:Aj:189:GLY:HA3	1.73	0.69
1:Ak:110:GLY:H	1:Am:242:ASN:HD22	1.38	0.69
1:Ao:150:ARG:H	1:Ao:150:ARG:HE	1.40	0.69
2:Bw:134:HIS:CD2	2:Bw:145:LEU:HD13	2.26	0.69
1:DH:163:MET:HE1	1:DH:189:GLY:HA3	1.73	0.69
1:DI:92:THR:HG22	1:DI:93:THR:H	1.57	0.69
1:AK:74:THR:HG21	3:CL:43:PHE:HE1	1.57	0.69
1:AU:163:MET:HE1	1:AU:189:GLY:HA3	1.73	0.69
1:AY:74:THR:HG21	3:CZ:43:PHE:HE2	1.57	0.69
1:AZ:87:GLN:HE21	1:AZ:210:ARG:HH22	1.39	0.69
1:A2:74:THR:HG21	3:C3:43:PHE:HE2	1.57	0.69
1:A5:74:THR:HG21	3:C6:43:PHE:HE2	1.57	0.69
1:Ad:92:THR:HG22	1:Ad:93:THR:H	1.57	0.69
1:Ag:163:MET:HE1	1:Ag:189:GLY:HA3	1.73	0.69
3:Cx:43:PHE:HE2	1:DJ:74:THR:HG21	1.57	0.69
1:DI:150:ARG:HE	1:DI:150:ARG:H	1.40	0.69
1:AC:92:THR:HG22	1:AC:93:THR:H	1.57	0.69
1:AI:115:THR:CG2	1:AI:131:GLN:HB3	2.19	0.69
1:AN:150:ARG:H	1:AN:150:ARG:HE	1.39	0.69
1:AO:163:MET:HE1	1:AO:189:GLY:HA3	1.73	0.69
1:AR:87:GLN:HE21	1:AR:210:ARG:HH22	1.39	0.69
1:AS:92:THR:HG22	1:AS:93:THR:H	1.57	0.69
1:AT:92:THR:HG22	1:AT:93:THR:H	1.57	0.69
1:AU:92:THR:HG22	1:AU:93:THR:H	1.57	0.69
1:A0:87:GLN:HE21	1:A0:210:ARG:HH22	1.39	0.69
1:A1:115:THR:CG2	1:A1:131:GLN:HB3	2.19	0.69
1:Ab:92:THR:HG22	1:Ab:93:THR:H	1.57	0.69
1:Ak:150:ARG:HE	1:Ak:150:ARG:H	1.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:150:ARG:H	1:DC:150:ARG:HE	1.40	0.69
1:DE:92:THR:HG22	1:DE:93:THR:H	1.57	0.69
1:DH:150:ARG:H	1:DH:150:ARG:HE	1.40	0.69
1:AK:242:ASN:HD22	1:AN:110:GLY:H	1.38	0.69
1:AO:87:GLN:HE21	1:AO:210:ARG:HH22	1.39	0.69
1:Ac:115:THR:CG2	1:Ac:131:GLN:HB3	2.19	0.69
1:Ag:74:THR:HG21	3:Ch:43:PHE:HE2	1.57	0.69
1:Am:92:THR:HG22	1:Am:93:THR:H	1.57	0.69
1:Ao:74:THR:HG21	3:Cp:43:PHE:HE2	1.57	0.69
3:Cv:43:PHE:HE2	1:DH:74:THR:HG21	1.57	0.69
1:DJ:92:THR:HG22	1:DJ:93:THR:H	1.57	0.69
1:AC:74:THR:HG21	3:CC:43:PHE:HE1	1.57	0.69
1:AL:150:ARG:HE	1:AL:150:ARG:H	1.40	0.69
1:AO:110:GLY:H	1:AR:242:ASN:HD22	1.38	0.69
1:AP:74:THR:HG21	3:CQ:43:PHE:HE1	1.57	0.69
1:AV:92:THR:HG22	1:AV:93:THR:H	1.57	0.69
1:AW:92:THR:HG22	1:AW:93:THR:H	1.57	0.69
1:A4:163:MET:HE1	1:A4:189:GLY:HA3	1.73	0.69
1:A6:74:THR:HG21	3:C7:43:PHE:HE2	1.57	0.69
1:Ad:242:ASN:HD22	1:Ae:110:GLY:H	1.38	0.69
1:Aj:74:THR:HG21	3:Ck:43:PHE:HE2	1.57	0.69
1:Ak:87:GLN:HE21	1:Ak:210:ARG:HH22	1.39	0.69
1:Am:87:GLN:HE21	1:Am:210:ARG:HH22	1.39	0.69
2:BF:134:HIS:CD2	2:BF:145:LEU:HD13	2.26	0.69
2:BJ:134:HIS:CD2	2:BJ:145:LEU:HD13	2.26	0.69
3:Cw:43:PHE:HE2	1:DI:74:THR:HG21	1.57	0.69
1:DJ:87:GLN:HE21	1:DJ:210:ARG:HH22	1.39	0.69
1:DK:92:THR:HG22	1:DK:93:THR:H	1.57	0.69
1:AF:92:THR:HG22	1:AF:93:THR:H	1.57	0.69
1:AH:150:ARG:H	1:AH:150:ARG:HE	1.40	0.69
1:AL:74:THR:HG21	3:CM:43:PHE:HE1	1.57	0.69
1:AM:74:THR:HG21	3:CN:43:PHE:HE1	1.57	0.69
1:A2:92:THR:HG22	1:A2:93:THR:H	1.57	0.69
1:A5:92:THR:HG22	1:A5:93:THR:H	1.57	0.69
1:Aa:74:THR:HG21	3:DB:43:PHE:HE1	1.57	0.69
1:Ad:150:ARG:H	1:Ad:150:ARG:HE	1.40	0.69
1:Ao:92:THR:HG22	1:Ao:93:THR:H	1.57	0.69
2:B1:134:HIS:CD2	2:B1:145:LEU:HD13	2.26	0.69
1:DD:87:GLN:HE21	1:DD:210:ARG:HH22	1.39	0.69
1:DE:87:GLN:HE21	1:DE:210:ARG:HH22	1.39	0.69
1:DI:87:GLN:HE21	1:DI:210:ARG:HH22	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:242:ASN:HD22	1:AP:110:GLY:H	1.38	0.69
1:AW:74:THR:HG21	3:CX:43:PHE:HE2	1.58	0.69
1:AZ:150:ARG:HE	1:AZ:150:ARG:H	1.40	0.69
1:A7:74:THR:HG21	3:C8:43:PHE:HE2	1.57	0.69
2:Bu:134:HIS:CD2	2:Bu:145:LEU:HD13	2.26	0.69
1:DF:92:THR:HG22	1:DF:93:THR:H	1.57	0.69
1:DG:87:GLN:HE21	1:DG:210:ARG:HH22	1.39	0.69
1:AF:150:ARG:H	1:AF:150:ARG:HE	1.40	0.69
1:AH:74:THR:HG21	3:CH:43:PHE:HE1	1.57	0.69
1:AI:92:THR:HG22	1:AI:93:THR:H	1.57	0.69
1:AN:163:MET:HE1	1:AN:189:GLY:HA3	1.73	0.69
1:AP:92:THR:HG22	1:AP:93:THR:H	1.57	0.69
1:AU:74:THR:HG21	3:CV:43:PHE:HE2	1.57	0.69
1:AV:242:ASN:HD22	1:AW:110:GLY:H	1.38	0.69
1:A0:92:THR:HG22	1:A0:93:THR:H	1.57	0.69
1:A1:74:THR:HG21	3:C2:43:PHE:HE2	1.57	0.69
1:A1:87:GLN:HE21	1:A1:210:ARG:HH22	1.39	0.69
1:A1:92:THR:HG22	1:A1:93:THR:H	1.57	0.69
1:A4:242:ASN:HD22	1:A7:110:GLY:H	1.38	0.69
1:A9:87:GLN:HE21	1:A9:210:ARG:HH22	1.39	0.69
1:Am:74:THR:HG21	3:Cn:43:PHE:HE2	1.58	0.69
1:Am:150:ARG:H	1:Am:150:ARG:HE	1.39	0.69
2:BQ:134:HIS:CD2	2:BQ:145:LEU:HD13	2.26	0.69
2:BY:82:PRO:HA	2:BY:193:THR:HB	1.75	0.69
2:Bl:134:HIS:CD2	2:Bl:145:LEU:HD13	2.26	0.69
2:Br:82:PRO:HA	2:Br:193:THR:HB	1.75	0.69
3:Cu:43:PHE:HE2	1:DG:74:THR:HG21	1.57	0.69
1:DD:92:THR:HG22	1:DD:93:THR:H	1.57	0.69
1:DF:150:ARG:HE	1:DF:150:ARG:H	1.39	0.69
1:AO:150:ARG:HE	1:AO:150:ARG:H	1.40	0.69
1:AV:74:THR:HG21	3:CW:43:PHE:HE2	1.57	0.69
1:AV:115:THR:CG2	1:AV:131:GLN:HB3	2.19	0.69
1:AY:110:GLY:H	1:A1:242:ASN:HD22	1.38	0.69
1:AY:242:ASN:HD22	1:AZ:110:GLY:H	1.38	0.69
1:Aa:92:THR:HG22	1:Aa:93:THR:H	1.57	0.69
1:Ak:74:THR:HG21	3:Cl:43:PHE:HE2	1.57	0.69
1:Ak:92:THR:HG22	1:Ak:93:THR:H	1.57	0.69
1:An:92:THR:HG22	1:An:93:THR:H	1.57	0.69
2:BW:82:PRO:HA	2:BW:193:THR:HB	1.75	0.69
2:Bl:82:PRO:HA	2:Bl:193:THR:HB	1.75	0.69
3:CG:1:ALA:HB2	3:Cl:21:ASN:OD1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:21:ASN:OD1	3:CR:1:ALA:HB2	1.93	0.69
3:Cs:43:PHE:HE2	1:DE:74:THR:HG21	1.57	0.69
1:DF:87:GLN:HE21	1:DF:210:ARG:HH22	1.39	0.69
1:AA:92:THR:HG22	1:AA:93:THR:H	1.57	0.69
1:Aa:110:GLY:H	1:Ac:242:ASN:HD22	1.38	0.69
1:Ai:92:THR:HG22	1:Ai:93:THR:H	1.57	0.69
2:BE:82:PRO:HA	2:BE:193:THR:HB	1.75	0.69
2:B0:82:PRO:HA	2:B0:193:THR:HB	1.75	0.69
3:CU:1:ALA:HB2	3:CW:21:ASN:OD1	1.93	0.69
3:CZ:21:ASN:OD1	3:C3:1:ALA:HB2	1.93	0.69
1:DG:242:ASN:HD22	1:DJ:110:GLY:H	1.38	0.69
1:AA:150:ARG:HE	1:AA:150:ARG:H	1.40	0.68
1:AB:150:ARG:HE	1:AB:150:ARG:H	1.40	0.68
1:AD:92:THR:HG22	1:AD:93:THR:H	1.57	0.68
1:AH:92:THR:HG22	1:AH:93:THR:H	1.57	0.68
1:AJ:163:MET:HE1	1:AJ:189:GLY:HA3	1.73	0.68
1:AL:87:GLN:HE21	1:AL:210:ARG:HH22	1.39	0.68
1:AQ:87:GLN:HE21	1:AQ:210:ARG:HH22	1.39	0.68
1:AQ:115:THR:CG2	1:AQ:131:GLN:HB3	2.19	0.68
1:AQ:150:ARG:H	1:AQ:150:ARG:HE	1.40	0.68
1:AR:74:THR:HG21	3:CS:43:PHE:HE2	1.57	0.68
1:AV:150:ARG:H	1:AV:150:ARG:HE	1.40	0.68
1:AX:87:GLN:HE21	1:AX:210:ARG:HH22	1.39	0.68
1:AY:92:THR:HG22	1:AY:93:THR:H	1.57	0.68
1:Ad:74:THR:HG21	3:Ce:43:PHE:HE2	1.57	0.68
1:Ai:74:THR:HG21	3:Cj:43:PHE:HE2	1.57	0.68
1:Aj:152:GLN:NE2	1:Am:145:LYS:HE3	2.09	0.68
1:Al:150:ARG:HE	1:Al:150:ARG:H	1.40	0.68
1:An:74:THR:HG21	3:Co:43:PHE:HE2	1.57	0.68
2:Ba:82:PRO:HA	2:Ba:193:THR:HB	1.75	0.68
2:Bh:134:HIS:CD2	2:Bh:145:LEU:HD13	2.26	0.68
3:CQ:1:ALA:HB2	3:CS:21:ASN:OD1	1.93	0.68
3:CS:1:ALA:HB2	3:CT:21:ASN:OD1	1.93	0.68
1:AF:152:GLN:NE2	1:AG:145:LYS:HE3	2.09	0.68
1:AH:145:LYS:HE3	1:DK:152:GLN:NE2	2.09	0.68
1:AJ:152:GLN:NE2	1:AK:145:LYS:HE3	2.08	0.68
1:AK:92:THR:HG22	1:AK:93:THR:H	1.57	0.68
1:A4:92:THR:HG22	1:A4:93:THR:H	1.57	0.68
1:A9:74:THR:HG21	3:DA:43:PHE:HE1	1.57	0.68
1:Ad:145:LYS:HE3	1:Ag:152:GLN:NE2	2.08	0.68
1:Ag:92:THR:HG22	1:Ag:93:THR:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:82:PRO:HA	2:BF:193:THR:HB	1.75	0.68
2:Bx:134:HIS:CD2	2:Bx:145:LEU:HD13	2.26	0.68
3:CG:21:ASN:OD1	3:CH:1:ALA:HB2	1.93	0.68
3:CK:21:ASN:OD1	3:CO:1:ALA:HB2	1.93	0.68
3:CZ:1:ALA:HB2	3:C1:21:ASN:OD1	1.93	0.68
3:C4:1:ALA:HB2	3:C6:21:ASN:OD1	1.93	0.68
3:Cf:21:ASN:OD1	3:Cg:1:ALA:HB2	1.93	0.68
3:Ck:1:ALA:HB2	3:Cm:21:ASN:OD1	1.93	0.68
3:Cq:43:PHE:HE2	1:DC:74:THR:HG21	1.57	0.68
1:DH:110:GLY:H	1:DJ:242:ASN:HD22	1.38	0.68
1:AI:87:GLN:HE21	1:AI:210:ARG:HH22	1.39	0.68
1:AI:163:MET:HE1	1:AI:189:GLY:HA3	1.73	0.68
1:AM:163:MET:HE1	1:AM:189:GLY:HA3	1.72	0.68
1:AQ:152:GLN:NE2	1:AR:145:LYS:HE3	2.09	0.68
1:AW:150:ARG:HE	1:AW:150:ARG:H	1.40	0.68
1:AX:74:THR:HG21	3:CY:43:PHE:HE2	1.57	0.68
1:A3:92:THR:HG22	1:A3:93:THR:H	1.57	0.68
1:A5:145:LYS:HE3	1:A7:152:GLN:NE2	2.09	0.68
1:A9:152:GLN:NE2	1:Ac:145:LYS:HE3	2.09	0.68
1:Af:145:LYS:HE3	1:Ah:152:GLN:NE2	2.09	0.68
1:Ah:150:ARG:HE	1:Ah:150:ARG:H	1.40	0.68
1:Aj:242:ASN:HD22	1:Am:110:GLY:H	1.38	0.68
1:An:150:ARG:HE	1:An:150:ARG:H	1.40	0.68
2:BK:82:PRO:HA	2:BK:193:THR:HB	1.75	0.68
2:B7:82:PRO:HA	2:B7:193:THR:HB	1.75	0.68
3:CJ:43:PHE:HE1	1:DK:74:THR:HG21	1.57	0.68
3:C0:21:ASN:OD1	3:C1:1:ALA:HB2	1.93	0.68
3:Cm:1:ALA:HB2	3:Cn:21:ASN:OD1	1.93	0.68
3:Ct:21:ASN:OD1	3:Cx:1:ALA:HB2	1.94	0.68
1:DC:92:THR:HG22	1:DC:93:THR:H	1.57	0.68
1:DG:92:THR:HG22	1:DG:93:THR:H	1.57	0.68
1:DG:163:MET:HE1	1:DG:189:GLY:HA3	1.73	0.68
1:DH:92:THR:HG22	1:DH:93:THR:H	1.57	0.68
1:AM:92:THR:HG22	1:AM:93:THR:H	1.57	0.68
1:AQ:74:THR:HG21	3:CR:43:PHE:HE1	1.57	0.68
1:AS:74:THR:HG21	3:CT:43:PHE:HE2	1.57	0.68
1:A3:152:GLN:NE2	1:A4:145:LYS:HE3	2.09	0.68
1:A8:92:THR:HG22	1:A8:93:THR:H	1.57	0.68
1:Ab:74:THR:HG21	3:Cc:43:PHE:HE2	1.57	0.68
1:Ac:150:ARG:HE	1:Ac:150:ARG:H	1.40	0.68
1:Ai:145:LYS:HE3	1:Al:152:GLN:NE2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:134:HIS:CD2	2:BO:145:LEU:HD13	2.26	0.68
3:CI:1:ALA:HB2	3:CJ:21:ASN:OD1	1.93	0.68
3:CK:1:ALA:HB2	3:CM:21:ASN:OD1	1.93	0.68
3:C9:1:ALA:HB2	3:DB:21:ASN:OD1	1.93	0.68
3:Ce:1:ALA:HB2	3:Cg:21:ASN:OD1	1.93	0.68
3:Ck:21:ASN:OD1	3:Cl:1:ALA:HB2	1.93	0.68
3:Ct:43:PHE:HE2	1:DF:74:THR:HG21	1.57	0.68
3:Cu:21:ASN:OD1	3:Cv:1:ALA:HB2	1.93	0.68
1:DC:145:LYS:HE3	1:DE:152:GLN:NE2	2.09	0.68
1:AD:87:GLN:HE21	1:AD:210:ARG:HH22	1.39	0.68
1:AF:74:THR:HG21	3:CF:43:PHE:HE1	1.57	0.68
1:AG:152:GLN:NE2	1:DK:145:LYS:HE3	2.09	0.68
1:AJ:87:GLN:HE21	1:AJ:210:ARG:HH22	1.39	0.68
1:AL:152:GLN:NE2	1:AM:145:LYS:HE3	2.09	0.68
1:AT:145:LYS:HE3	1:AW:152:GLN:NE2	2.09	0.68
1:AY:150:ARG:H	1:AY:150:ARG:HE	1.39	0.68
1:A3:145:LYS:HE3	1:A6:152:GLN:NE2	2.09	0.68
1:A6:92:THR:HG22	1:A6:93:THR:H	1.57	0.68
1:Af:152:GLN:NE2	1:Ag:145:LYS:HE3	2.09	0.68
2:BJ:82:PRO:HA	2:BJ:193:THR:HB	1.75	0.68
2:BL:82:PRO:HA	2:BL:193:THR:HB	1.75	0.68
2:Bt:134:HIS:CD2	2:Bt:145:LEU:HD13	2.26	0.68
3:C7:1:ALA:HB2	3:C8:21:ASN:OD1	1.93	0.68
3:Cc:21:ASN:OD1	3:DA:1:ALA:HB2	1.93	0.68
3:Ch:1:ALA:HB2	3:Ci:21:ASN:OD1	1.94	0.68
3:DA:21:ASN:OD1	3:DB:1:ALA:HB2	1.93	0.68
1:DF:145:LYS:HE3	1:DI:152:GLN:NE2	2.09	0.68
1:AC:87:GLN:HE21	1:AC:210:ARG:HH22	1.39	0.68
1:AC:152:GLN:NE2	1:AD:145:LYS:HE3	2.09	0.68
1:AE:92:THR:HG22	1:AE:93:THR:H	1.57	0.68
1:AF:145:LYS:HE3	1:AI:152:GLN:NE2	2.09	0.68
1:AO:152:GLN:NE2	1:AP:145:LYS:HE3	2.09	0.68
1:AX:92:THR:HG22	1:AX:93:THR:H	1.57	0.68
1:Aa:152:GLN:NE2	1:Ab:145:LYS:HE3	2.09	0.68
1:Ab:150:ARG:H	1:Ab:150:ARG:HE	1.40	0.68
2:BM:82:PRO:HA	2:BM:193:THR:HB	1.75	0.68
2:Bb:82:PRO:HA	2:Bb:193:THR:HB	1.75	0.68
3:CP:1:ALA:HB2	3:CR:21:ASN:OD1	1.93	0.68
1:DF:152:GLN:NE2	1:DG:145:LYS:HE3	2.09	0.68
1:AC:145:LYS:HE3	1:AE:152:GLN:NE2	2.09	0.68
1:AV:152:GLN:NE2	1:AW:145:LYS:HE3	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:145:LYS:HE3	1:A2:152:GLN:NE2	2.09	0.68
1:A7:150:ARG:HE	1:A7:150:ARG:H	1.40	0.68
1:A8:152:GLN:NE2	1:A9:145:LYS:HE3	2.09	0.68
1:Aa:145:LYS:HE3	1:Ac:152:GLN:NE2	2.08	0.68
1:Ad:87:GLN:HE21	1:Ad:210:ARG:HH22	1.39	0.68
2:BT:82:PRO:HA	2:BT:193:THR:HB	1.75	0.68
2:BU:82:PRO:HA	2:BU:193:THR:HB	1.75	0.68
2:Bq:134:HIS:CD2	2:Bq:145:LEU:HD13	2.26	0.68
2:Bs:82:PRO:HA	2:Bs:193:THR:HB	1.75	0.68
3:CP:21:ASN:OD1	3:CT:1:ALA:HB2	1.93	0.68
3:Cj:1:ALA:HB2	3:Cl:21:ASN:OD1	1.93	0.68
1:AA:74:THR:HG21	3:CA:43:PHE:HE1	1.57	0.68
1:AJ:74:THR:HG21	3:CK:43:PHE:HE1	1.57	0.68
1:AK:150:ARG:H	1:AK:150:ARG:HE	1.39	0.68
1:AP:242:ASN:HD22	1:AS:110:GLY:H	1.38	0.68
1:AU:150:ARG:HE	1:AU:150:ARG:H	1.40	0.68
1:A7:92:THR:HG22	1:A7:93:THR:H	1.57	0.68
1:Ad:152:GLN:NE2	1:Ae:145:LYS:HE3	2.09	0.68
1:Aj:92:THR:HG22	1:Aj:93:THR:H	1.57	0.68
1:Ak:242:ASN:HD22	1:Al:110:GLY:H	1.38	0.68
1:Al:74:THR:HG21	3:Cm:43:PHE:HE2	1.57	0.68
2:BC:82:PRO:HA	2:BC:193:THR:HB	1.75	0.68
2:BI:82:PRO:HA	2:BI:193:THR:HB	1.75	0.68
2:BQ:82:PRO:HA	2:BQ:193:THR:HB	1.75	0.68
2:Bi:134:HIS:CD2	2:Bi:145:LEU:HD13	2.26	0.68
3:CB:1:ALA:HB2	3:CD:21:ASN:OD1	1.93	0.68
3:CL:1:ALA:HB2	3:CN:21:ASN:OD1	1.93	0.68
3:CV:1:ALA:HB2	3:CX:21:ASN:OD1	1.93	0.68
3:CX:1:ALA:HB2	3:CY:21:ASN:OD1	1.93	0.68
3:Co:1:ALA:HB2	3:Cq:21:ASN:OD1	1.93	0.68
3:Cp:21:ASN:OD1	3:Cq:1:ALA:HB2	1.93	0.68
1:DD:150:ARG:HE	1:DD:150:ARG:H	1.40	0.68
1:AN:74:THR:HG21	3:CO:43:PHE:HE1	1.57	0.68
1:AO:92:THR:HG22	1:AO:93:THR:H	1.57	0.68
1:AR:92:THR:HG22	1:AR:93:THR:H	1.57	0.68
1:AT:74:THR:HG21	3:CU:43:PHE:HE2	1.57	0.68
1:AY:145:LYS:HE3	1:A1:152:GLN:NE2	2.09	0.68
1:A8:145:LYS:HE3	1:Ab:152:GLN:NE2	2.09	0.68
1:Ab:87:GLN:HE21	1:Ab:210:ARG:HH22	1.39	0.68
1:Af:74:THR:HG21	3:Cg:43:PHE:HE2	1.57	0.68
1:Al:92:THR:HG22	1:Al:93:THR:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:134:HIS:CD2	2:Bp:145:LEU:HD13	2.26	0.68
3:CD:1:ALA:HB2	3:CE:21:ASN:OD1	1.93	0.68
3:CF:21:ASN:OD1	3:CJ:1:ALA:HB2	1.93	0.68
3:C5:1:ALA:HB2	3:C7:21:ASN:OD1	1.93	0.68
1:DC:87:GLN:HE21	1:DC:210:ARG:HH22	1.39	0.68
1:AO:74:THR:HG21	3:CP:43:PHE:HE1	1.57	0.68
1:A4:152:GLN:NE2	1:A7:145:LYS:HE3	2.09	0.68
1:Ai:152:GLN:NE2	1:Aj:145:LYS:HE3	2.09	0.68
1:Ak:145:LYS:HE3	1:Am:152:GLN:NE2	2.09	0.68
1:Ao:152:GLN:NE2	1:DE:145:LYS:HE3	2.09	0.68
2:BB:82:PRO:HA	2:BB:193:THR:HB	1.75	0.68
2:BP:82:PRO:HA	2:BP:193:THR:HB	1.75	0.68
2:Bn:82:PRO:HA	2:Bn:193:THR:HB	1.75	0.68
2:Bo:82:PRO:HA	2:Bo:193:THR:HB	1.75	0.68
3:CB:21:ASN:OD1	3:CC:1:ALA:HB2	1.93	0.68
3:CL:21:ASN:OD1	3:CM:1:ALA:HB2	1.93	0.68
3:CU:21:ASN:OD1	3:CY:1:ALA:HB2	1.93	0.68
3:CV:21:ASN:OD1	3:CW:1:ALA:HB2	1.93	0.68
3:C5:21:ASN:OD1	3:C6:1:ALA:HB2	1.93	0.68
3:Cf:1:ALA:HB2	3:Ch:21:ASN:OD1	1.93	0.68
3:Ct:1:ALA:HB2	3:Cv:21:ASN:OD1	1.93	0.68
1:AD:74:THR:HG21	3:CD:43:PHE:HE1	1.57	0.67
1:AE:74:THR:HG21	3:CE:43:PHE:HE1	1.57	0.67
1:AP:87:GLN:HE21	1:AP:210:ARG:HH22	1.39	0.67
1:AV:145:LYS:HE3	1:AX:152:GLN:NE2	2.09	0.67
1:A6:150:ARG:HE	1:A6:150:ARG:H	1.40	0.67
1:A9:92:THR:HG22	1:A9:93:THR:H	1.57	0.67
1:Ah:87:GLN:HE21	1:Ah:210:ARG:HH22	1.39	0.67
1:Aj:150:ARG:H	1:Aj:150:ARG:HE	1.39	0.67
2:BG:82:PRO:HA	2:BG:193:THR:HB	1.75	0.67
2:BL:134:HIS:CD2	2:BL:145:LEU:HD13	2.26	0.67
2:BM:134:HIS:CD2	2:BM:145:LEU:HD13	2.26	0.67
2:BR:82:PRO:HA	2:BR:193:THR:HB	1.75	0.67
2:B1:82:PRO:HA	2:B1:193:THR:HB	1.75	0.67
2:B8:82:PRO:HA	2:B8:193:THR:HB	1.75	0.67
3:CA:21:ASN:OD1	3:CE:1:ALA:HB2	1.93	0.67
3:C0:1:ALA:HB2	3:C2:21:ASN:OD1	1.93	0.67
3:Cr:43:PHE:HE2	1:DD:74:THR:HG21	1.57	0.67
3:Cu:1:ALA:HB2	3:Cw:21:ASN:OD1	1.93	0.67
1:AB:152:GLN:NE2	1:AE:145:LYS:HE3	2.09	0.67
1:AJ:92:THR:HG22	1:AJ:93:THR:H	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:150:ARG:HE	1:AM:150:ARG:H	1.40	0.67
1:AZ:152:GLN:NE2	1:A2:145:LYS:HE3	2.09	0.67
1:A1:150:ARG:HE	1:A1:150:ARG:H	1.40	0.67
1:A5:150:ARG:H	1:A5:150:ARG:HE	1.40	0.67
2:BI:134:HIS:CD2	2:BI:145:LEU:HD13	2.26	0.67
2:BX:82:PRO:HA	2:BX:193:THR:HB	1.75	0.67
2:Bv:82:PRO:HA	2:Bv:193:THR:HB	1.75	0.67
1:DK:87:GLN:HE21	1:DK:210:ARG:HH22	1.39	0.67
1:AY:87:GLN:HE21	1:AY:210:ARG:HH22	1.39	0.67
1:A8:74:THR:HG21	3:C9:43:PHE:HE2	1.57	0.67
2:Bf:82:PRO:HA	2:Bf:193:THR:HB	1.75	0.67
2:Bh:82:PRO:HA	2:Bh:193:THR:HB	1.75	0.67
3:Cc:1:ALA:HB2	3:Cd:21:ASN:OD1	1.93	0.67
3:Cj:21:ASN:OD1	3:Cn:1:ALA:HB2	1.93	0.67
3:Cw:1:ALA:HB2	3:Cx:21:ASN:OD1	1.93	0.67
1:DC:152:GLN:NE2	1:DD:145:LYS:HE3	2.09	0.67
1:AW:150:ARG:H	1:AW:150:ARG:NE	1.93	0.67
1:A0:150:ARG:HE	1:A0:150:ARG:H	1.40	0.67
1:Ak:152:GLN:NE2	1:Al:145:LYS:HE3	2.09	0.67
2:BA:82:PRO:HA	2:BA:193:THR:HB	1.75	0.67
1:AI:74:THR:HG21	3:CI:43:PHE:HE1	1.57	0.67
1:AT:150:ARG:H	1:AT:150:ARG:HE	1.39	0.67
1:AT:152:GLN:NE2	1:AU:145:LYS:HE3	2.09	0.67
1:A9:150:ARG:H	1:A9:150:ARG:NE	1.93	0.67
1:Ag:150:ARG:H	1:Ag:150:ARG:NE	1.93	0.67
1:An:145:LYS:HE3	1:DD:152:GLN:NE2	2.09	0.67
2:B5:82:PRO:HA	2:B5:193:THR:HB	1.75	0.67
2:Bd:82:PRO:HA	2:Bd:193:THR:HB	1.75	0.67
2:Bg:82:PRO:HA	2:Bg:193:THR:HB	1.75	0.67
2:Bm:82:PRO:HA	2:Bm:193:THR:HB	1.75	0.67
3:CA:1:ALA:HB2	3:CC:21:ASN:OD1	1.93	0.67
3:Ce:21:ASN:OD1	3:Ci:1:ALA:HB2	1.93	0.67
1:DH:145:LYS:HE3	1:DJ:152:GLN:NE2	2.09	0.67
1:AA:150:ARG:H	1:AA:150:ARG:NE	1.93	0.67
1:AE:150:ARG:H	1:AE:150:ARG:NE	1.93	0.67
1:AO:145:LYS:HE3	1:AR:152:GLN:NE2	2.09	0.67
1:AT:87:GLN:HE21	1:AT:210:ARG:HH22	1.39	0.67
1:A4:150:ARG:H	1:A4:150:ARG:NE	1.93	0.67
1:Ah:150:ARG:H	1:Ah:150:ARG:NE	1.93	0.67
3:C9:21:ASN:OD1	3:Cd:1:ALA:HB2	1.93	0.67
3:Cp:1:ALA:HB2	3:Cr:21:ASN:OD1	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:152:GLN:NE2	1:DJ:145:LYS:HE3	2.09	0.67
1:AK:150:ARG:H	1:AK:150:ARG:NE	1.93	0.67
1:AL:145:LYS:HE3	1:AN:152:GLN:NE2	2.09	0.67
1:AN:92:THR:HG22	1:AN:93:THR:H	1.57	0.67
1:AP:152:GLN:NE2	1:AS:145:LYS:HE3	2.09	0.67
1:AQ:145:LYS:HE3	1:AS:152:GLN:NE2	2.09	0.67
1:AS:150:ARG:H	1:AS:150:ARG:NE	1.93	0.67
1:AY:152:GLN:NE2	1:AZ:145:LYS:HE3	2.09	0.67
1:A0:152:GLN:NE2	1:A1:145:LYS:HE3	2.09	0.67
1:A1:150:ARG:H	1:A1:150:ARG:NE	1.93	0.67
1:A3:74:THR:HG21	3:C4:43:PHE:HE2	1.57	0.67
1:A5:150:ARG:H	1:A5:150:ARG:NE	1.93	0.67
1:A8:150:ARG:H	1:A8:150:ARG:HE	1.40	0.67
1:Aa:150:ARG:H	1:Aa:150:ARG:HE	1.40	0.67
1:Af:92:THR:HG22	1:Af:93:THR:H	1.57	0.67
1:Ah:74:THR:HG21	3:Ci:43:PHE:HE2	1.57	0.67
1:An:150:ARG:H	1:An:150:ARG:NE	1.93	0.67
1:Ao:150:ARG:H	1:Ao:150:ARG:NE	1.93	0.67
2:Bq:82:PRO:HA	2:Bq:193:THR:HB	1.75	0.67
3:C4:21:ASN:OD1	3:C8:1:ALA:HB2	1.93	0.67
3:Cr:1:ALA:HB2	3:Cs:21:ASN:OD1	1.93	0.67
1:DE:150:ARG:H	1:DE:150:ARG:NE	1.93	0.67
1:AA:145:LYS:HE3	1:AD:152:GLN:NE2	2.09	0.67
1:AJ:145:LYS:HE3	1:AM:152:GLN:NE2	2.09	0.67
1:AK:152:GLN:NE2	1:AN:145:LYS:HE3	2.09	0.67
1:A0:74:THR:HG21	3:C1:43:PHE:HE2	1.57	0.67
1:A8:150:ARG:H	1:A8:150:ARG:NE	1.93	0.67
1:Aj:150:ARG:H	1:Aj:150:ARG:NE	1.93	0.67
1:Ak:150:ARG:H	1:Ak:150:ARG:NE	1.93	0.67
2:B3:82:PRO:HA	2:B3:193:THR:HB	1.75	0.67
2:Bj:82:PRO:HA	2:Bj:193:THR:HB	1.75	0.67
3:CF:1:ALA:HB2	3:CH:21:ASN:OD1	1.93	0.67
3:C2:1:ALA:HB2	3:C3:21:ASN:OD1	1.93	0.67
3:Co:21:ASN:OD1	3:Cs:1:ALA:HB2	1.93	0.67
1:DH:152:GLN:NE2	1:DI:145:LYS:HE3	2.09	0.67
1:AA:231:PRO:HG2	3:CA:83:ALA:HB2	1.77	0.67
1:AF:150:ARG:H	1:AF:150:ARG:NE	1.93	0.67
1:AH:152:GLN:NE2	1:AI:145:LYS:HE3	2.09	0.67
1:AL:150:ARG:H	1:AL:150:ARG:NE	1.93	0.67
1:AM:231:PRO:HG2	3:CN:83:ALA:HB2	1.77	0.67
1:AU:150:ARG:H	1:AU:150:ARG:NE	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:83:GLU:HB2	1:AY:212:ARG:HB3	1.77	0.67
1:AY:231:PRO:HG2	3:CZ:83:ALA:HB2	1.77	0.67
1:A5:152:GLN:NE2	1:A6:145:LYS:HE3	2.09	0.67
2:B9:82:PRO:HA	2:B9:193:THR:HB	1.75	0.67
3:CN:1:ALA:HB2	3:CO:21:ASN:OD1	1.93	0.67
1:AB:150:ARG:H	1:AB:150:ARG:NE	1.93	0.67
1:AB:231:PRO:HG2	3:CB:83:ALA:HB2	1.77	0.67
1:AS:231:PRO:HG2	3:CT:83:ALA:HB2	1.77	0.67
1:AU:152:GLN:NE2	1:AX:145:LYS:HE3	2.09	0.67
1:A2:150:ARG:H	1:A2:150:ARG:NE	1.93	0.67
1:A4:150:ARG:H	1:A4:150:ARG:HE	1.40	0.67
1:A4:231:PRO:HG2	3:C5:83:ALA:HB2	1.77	0.67
1:Aj:231:PRO:HG2	3:Ck:83:ALA:HB2	1.77	0.67
1:Am:231:PRO:HG2	3:Cn:83:ALA:HB2	1.77	0.67
2:Bi:82:PRO:HA	2:Bi:193:THR:HB	1.75	0.67
1:DE:83:GLU:HB2	1:DE:212:ARG:HB3	1.77	0.67
1:DF:150:ARG:H	1:DF:150:ARG:NE	1.93	0.67
1:DG:150:ARG:H	1:DG:150:ARG:NE	1.93	0.67
1:DJ:83:GLU:HB2	1:DJ:212:ARG:HB3	1.77	0.67
1:AC:83:GLU:HB2	1:AC:212:ARG:HB3	1.77	0.66
1:AD:83:GLU:HB2	1:AD:212:ARG:HB3	1.77	0.66
1:AI:150:ARG:H	1:AI:150:ARG:NE	1.93	0.66
1:AO:150:ARG:H	1:AO:150:ARG:NE	1.93	0.66
1:AP:83:GLU:HB2	1:AP:212:ARG:HB3	1.77	0.66
1:Ae:231:PRO:HG2	3:Cf:83:ALA:HB2	1.77	0.66
1:Al:150:ARG:H	1:Al:150:ARG:NE	1.93	0.66
1:An:231:PRO:HG2	3:Co:83:ALA:HB2	1.78	0.66
1:Ao:231:PRO:HG2	3:Cp:83:ALA:HB2	1.77	0.66
2:BO:82:PRO:HA	2:BO:193:THR:HB	1.75	0.66
2:BS:82:PRO:HA	2:BS:193:THR:HB	1.75	0.66
2:B4:82:PRO:HA	2:B4:193:THR:HB	1.75	0.66
2:B6:82:PRO:HA	2:B6:193:THR:HB	1.75	0.66
1:DC:83:GLU:HB2	1:DC:212:ARG:HB3	1.77	0.66
1:AC:150:ARG:H	1:AC:150:ARG:NE	1.93	0.66
1:AE:83:GLU:HB2	1:AE:212:ARG:HB3	1.77	0.66
1:AR:150:ARG:H	1:AR:150:ARG:NE	1.93	0.66
1:AV:150:ARG:H	1:AV:150:ARG:NE	1.93	0.66
1:AV:231:PRO:HG2	3:CW:83:ALA:HB2	1.77	0.66
1:A6:150:ARG:H	1:A6:150:ARG:NE	1.93	0.66
1:A7:150:ARG:H	1:A7:150:ARG:NE	1.93	0.66
1:Ac:231:PRO:HG2	3:Cd:83:ALA:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:83:GLU:HB2	1:Ad:212:ARG:HB3	1.77	0.66
1:Ad:231:PRO:HG2	3:Ce:83:ALA:HB2	1.77	0.66
1:Ae:152:GLN:NE2	1:Ah:145:LYS:HE3	2.09	0.66
2:Bw:82:PRO:HA	2:Bw:193:THR:HB	1.75	0.66
1:DD:83:GLU:HB2	1:DD:212:ARG:HB3	1.77	0.66
1:DH:150:ARG:H	1:DH:150:ARG:NE	1.93	0.66
1:AA:152:GLN:NE2	1:AB:145:LYS:HE3	2.09	0.66
1:AU:231:PRO:HG2	3:CV:83:ALA:HB2	1.77	0.66
1:AY:150:ARG:H	1:AY:150:ARG:NE	1.93	0.66
1:A0:231:PRO:HG2	3:C1:83:ALA:HB2	1.77	0.66
1:A1:83:GLU:HB2	1:A1:212:ARG:HB3	1.77	0.66
1:A1:231:PRO:HG2	3:C2:83:ALA:HB2	1.77	0.66
1:A3:231:PRO:HG2	3:C4:83:ALA:HB2	1.77	0.66
1:Aa:150:ARG:H	1:Aa:150:ARG:NE	1.93	0.66
1:Ab:150:ARG:H	1:Ab:150:ARG:NE	1.93	0.66
2:BN:82:PRO:HA	2:BN:193:THR:HB	1.75	0.66
2:Bk:82:PRO:HA	2:Bk:193:THR:HB	1.75	0.66
3:Cr:83:ALA:HB2	1:DD:231:PRO:HG2	1.77	0.66
1:AA:83:GLU:HB2	1:AA:212:ARG:HB3	1.77	0.66
1:AE:231:PRO:HG2	3:CE:83:ALA:HB2	1.77	0.66
1:AF:103:TRP:HB2	1:AF:198:THR:HG22	1.78	0.66
1:AK:83:GLU:HB2	1:AK:212:ARG:HB3	1.77	0.66
1:AM:150:ARG:H	1:AM:150:ARG:NE	1.93	0.66
1:Ad:103:TRP:HB2	1:Ad:198:THR:HG22	1.78	0.66
1:Ag:231:PRO:HG2	3:Ch:83:ALA:HB2	1.77	0.66
1:Ai:150:ARG:H	1:Ai:150:ARG:NE	1.93	0.66
2:BD:82:PRO:HA	2:BD:193:THR:HB	1.75	0.66
2:B2:82:PRO:HA	2:B2:193:THR:HB	1.75	0.66
2:Be:82:PRO:HA	2:Be:193:THR:HB	1.75	0.66
2:Bx:82:PRO:HA	2:Bx:193:THR:HB	1.75	0.66
3:Cv:83:ALA:HB2	1:DH:231:PRO:HG2	1.77	0.66
1:DD:150:ARG:H	1:DD:150:ARG:NE	1.93	0.66
1:AG:231:PRO:HG2	3:CG:83:ALA:HB2	1.77	0.66
1:AJ:103:TRP:HB2	1:AJ:198:THR:HG22	1.78	0.66
1:AK:231:PRO:HG2	3:CL:83:ALA:HB2	1.78	0.66
1:AN:150:ARG:H	1:AN:150:ARG:NE	1.93	0.66
1:AQ:42:THR:HG21	1:AR:120:GLN:O	1.96	0.66
1:AQ:150:ARG:H	1:AQ:150:ARG:NE	1.93	0.66
1:AV:103:TRP:HB2	1:AV:198:THR:HG22	1.78	0.66
1:A3:83:GLU:HB2	1:A3:212:ARG:HB3	1.77	0.66
1:A6:103:TRP:HB2	1:A6:198:THR:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:103:TRP:HB2	1:Ab:198:THR:HG22	1.78	0.66
1:Am:83:GLU:HB2	1:Am:212:ARG:HB3	1.77	0.66
1:An:83:GLU:HB2	1:An:212:ARG:HB3	1.77	0.66
2:BZ:82:PRO:HA	2:BZ:193:THR:HB	1.75	0.66
2:Bc:82:PRO:HA	2:Bc:193:THR:HB	1.75	0.66
2:Bt:82:PRO:HA	2:Bt:193:THR:HB	1.75	0.66
1:DC:150:ARG:H	1:DC:150:ARG:NE	1.93	0.66
1:A7:231:PRO:HG2	3:C8:83:ALA:HB2	1.77	0.66
1:A8:231:PRO:HG2	3:C9:83:ALA:HB2	1.78	0.66
1:A9:231:PRO:HG2	3:DA:83:ALA:HB2	1.77	0.66
1:Ab:83:GLU:HB2	1:Ab:212:ARG:HB3	1.77	0.66
1:Ae:150:ARG:H	1:Ae:150:ARG:NE	1.93	0.66
1:Al:83:GLU:HB2	1:Al:212:ARG:HB3	1.77	0.66
2:BH:82:PRO:HA	2:BH:193:THR:HB	1.75	0.66
2:BV:82:PRO:HA	2:BV:193:THR:HB	1.75	0.66
1:DG:83:GLU:HB2	1:DG:212:ARG:HB3	1.77	0.66
1:AB:42:THR:HG21	1:AE:120:GLN:O	1.96	0.66
1:AF:120:GLN:O	1:AI:42:THR:HG21	1.96	0.66
1:AG:150:ARG:H	1:AG:150:ARG:NE	1.93	0.66
1:AP:103:TRP:HB2	1:AP:198:THR:HG22	1.78	0.66
1:Ac:83:GLU:HB2	1:Ac:212:ARG:HB3	1.77	0.66
1:Ai:231:PRO:HG2	3:Cj:83:ALA:HB2	1.78	0.66
1:Ak:42:THR:HG21	1:AI:120:GLN:O	1.96	0.66
1:Ak:83:GLU:HB2	1:Ak:212:ARG:HB3	1.77	0.66
1:An:152:GLN:NE2	1:Ao:145:LYS:HE3	2.09	0.66
1:Ao:83:GLU:HB2	1:Ao:212:ARG:HB3	1.77	0.66
2:Bu:82:PRO:HA	2:Bu:193:THR:HB	1.75	0.66
3:Cx:83:ALA:HB2	1:DJ:231:PRO:HG2	1.77	0.66
1:DH:83:GLU:HB2	1:DH:212:ARG:HB3	1.78	0.66
1:DK:103:TRP:HB2	1:DK:198:THR:HG22	1.78	0.66
1:AB:83:GLU:HB2	1:AB:212:ARG:HB3	1.78	0.66
1:AC:120:GLN:O	1:AE:42:THR:HG21	1.96	0.66
1:AD:103:TRP:HB2	1:AD:198:THR:HG22	1.78	0.66
1:AD:231:PRO:HG2	3:CD:83:ALA:HB2	1.77	0.66
1:AF:231:PRO:HG2	3:CF:83:ALA:HB2	1.77	0.66
1:AH:150:ARG:H	1:AH:150:ARG:NE	1.93	0.66
1:AL:83:GLU:HB2	1:AL:212:ARG:HB3	1.78	0.66
1:AL:103:TRP:HB2	1:AL:198:THR:HG22	1.78	0.66
1:AM:103:TRP:HB2	1:AM:198:THR:HG22	1.78	0.66
1:AO:42:THR:HG21	1:AP:120:GLN:O	1.96	0.66
1:AT:103:TRP:HB2	1:AT:198:THR:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:83:GLU:HB2	1:AZ:212:ARG:HB3	1.78	0.66
1:AZ:231:PRO:HG2	3:C0:83:ALA:HB2	1.77	0.66
1:A0:150:ARG:H	1:A0:150:ARG:NE	1.93	0.66
1:A2:83:GLU:HB2	1:A2:212:ARG:HB3	1.77	0.66
1:A5:103:TRP:HB2	1:A5:198:THR:HG22	1.78	0.66
1:Af:103:TRP:HB2	1:Af:198:THR:HG22	1.78	0.66
1:Ai:83:GLU:HB2	1:Ai:212:ARG:HB3	1.77	0.66
1:Al:103:TRP:HB2	1:Al:198:THR:HG22	1.78	0.66
2:Bp:82:PRO:HA	2:Bp:193:THR:HB	1.75	0.66
3:Ct:83:ALA:HB2	1:DF:231:PRO:HG2	1.77	0.66
1:DC:42:THR:HG21	1:DD:120:GLN:O	1.96	0.66
1:AA:120:GLN:O	1:AD:42:THR:HG21	1.96	0.66
1:AD:150:ARG:H	1:AD:150:ARG:NE	1.93	0.66
1:AI:83:GLU:HB2	1:AI:212:ARG:HB3	1.77	0.66
1:AJ:120:GLN:O	1:AM:42:THR:HG21	1.96	0.66
1:AK:42:THR:HG21	1:AN:120:GLN:O	1.96	0.66
1:AO:83:GLU:HB2	1:AO:212:ARG:HB3	1.77	0.66
1:AS:83:GLU:HB2	1:AS:212:ARG:HB3	1.77	0.66
1:AT:42:THR:HG21	1:AU:120:GLN:O	1.96	0.66
1:AU:103:TRP:HB2	1:AU:198:THR:HG22	1.78	0.66
1:AX:103:TRP:HB2	1:AX:198:THR:HG22	1.78	0.66
1:AY:103:TRP:HB2	1:AY:198:THR:HG22	1.78	0.66
1:AZ:103:TRP:HB2	1:AZ:198:THR:HG22	1.78	0.66
1:AZ:150:ARG:H	1:AZ:150:ARG:NE	1.93	0.66
1:A0:120:GLN:O	1:A2:42:THR:HG21	1.96	0.66
1:A6:83:GLU:HB2	1:A6:212:ARG:HB3	1.77	0.66
1:A8:103:TRP:HB2	1:A8:198:THR:HG22	1.78	0.66
1:Aa:120:GLN:O	1:Ac:42:THR:HG21	1.96	0.66
1:Ao:42:THR:HG21	1:DE:120:GLN:O	1.96	0.66
3:Cs:83:ALA:HB2	1:DE:231:PRO:HG2	1.78	0.66
1:DI:150:ARG:H	1:DI:150:ARG:NE	1.93	0.66
1:DJ:103:TRP:HB2	1:DJ:198:THR:HG22	1.78	0.66
1:DK:83:GLU:HB2	1:DK:212:ARG:HB3	1.77	0.66
1:DK:150:ARG:H	1:DK:150:ARG:NE	1.93	0.66
1:AH:120:GLN:O	1:DK:42:THR:HG21	1.96	0.66
1:AJ:42:THR:HG21	1:AK:120:GLN:O	1.96	0.66
1:AT:150:ARG:H	1:AT:150:ARG:NE	1.93	0.66
1:A7:83:GLU:HB2	1:A7:212:ARG:HB3	1.77	0.66
1:A8:42:THR:HG21	1:A9:120:GLN:O	1.96	0.66
1:Ac:150:ARG:H	1:Ac:150:ARG:NE	1.93	0.66
1:Af:231:PRO:HG2	3:Cg:83:ALA:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:83:GLU:HB2	1:Ah:212:ARG:HB3	1.77	0.66
1:Ak:103:TRP:HB2	1:Ak:198:THR:HG22	1.78	0.66
1:DC:103:TRP:HB2	1:DC:198:THR:HG22	1.78	0.66
1:AC:231:PRO:HG2	3:CC:83:ALA:HB2	1.77	0.65
1:AG:42:THR:HG21	1:DK:120:GLN:O	1.96	0.65
1:AK:103:TRP:HB2	1:AK:198:THR:HG22	1.78	0.65
1:AP:150:ARG:H	1:AP:150:ARG:NE	1.93	0.65
1:AR:231:PRO:HG2	3:CS:83:ALA:HB2	1.77	0.65
1:AU:83:GLU:HB2	1:AU:212:ARG:HB3	1.77	0.65
1:A9:103:TRP:HB2	1:A9:198:THR:HG22	1.78	0.65
1:Ak:231:PRO:HG2	3:Cl:83:ALA:HB2	1.77	0.65
1:DF:83:GLU:HB2	1:DF:212:ARG:HB3	1.77	0.65
1:AG:103:TRP:HB2	1:AG:198:THR:HG22	1.78	0.65
1:AJ:150:ARG:H	1:AJ:150:ARG:NE	1.93	0.65
1:AT:120:GLN:O	1:AW:42:THR:HG21	1.96	0.65
1:AV:42:THR:HG21	1:AW:120:GLN:O	1.96	0.65
1:A5:42:THR:HG21	1:A6:120:GLN:O	1.96	0.65
1:Ac:103:TRP:HB2	1:Ac:198:THR:HG22	1.78	0.65
1:An:42:THR:HG21	1:Ao:120:GLN:O	1.96	0.65
3:Cu:83:ALA:HB2	1:DG:231:PRO:HG2	1.77	0.65
1:AF:42:THR:HG21	1:AG:120:GLN:O	1.96	0.65
1:AI:103:TRP:HB2	1:AI:198:THR:HG22	1.78	0.65
1:AI:231:PRO:HG2	3:CI:83:ALA:HB2	1.77	0.65
1:AL:120:GLN:O	1:AN:42:THR:HG21	1.96	0.65
1:AR:83:GLU:HB2	1:AR:212:ARG:HB3	1.77	0.65
1:AW:103:TRP:HB2	1:AW:198:THR:HG22	1.78	0.65
1:A0:103:TRP:HB2	1:A0:198:THR:HG22	1.78	0.65
1:A1:103:TRP:HB2	1:A1:198:THR:HG22	1.78	0.65
1:A2:231:PRO:HG2	3:C3:83:ALA:HB2	1.77	0.65
1:A5:231:PRO:HG2	3:C6:83:ALA:HB2	1.77	0.65
1:Ae:42:THR:HG21	1:Ah:120:GLN:O	1.96	0.65
3:Cq:83:ALA:HB2	1:DC:231:PRO:HG2	1.78	0.65
1:DD:103:TRP:HB2	1:DD:198:THR:HG22	1.78	0.65
1:DJ:150:ARG:H	1:DJ:150:ARG:NE	1.93	0.65
1:AH:103:TRP:HB2	1:AH:198:THR:HG22	1.78	0.65
1:AO:231:PRO:HG2	3:CP:83:ALA:HB2	1.77	0.65
1:AQ:120:GLN:O	1:AS:42:THR:HG21	1.96	0.65
1:AX:83:GLU:HB2	1:AX:212:ARG:HB3	1.77	0.65
1:A4:42:THR:HG21	1:A7:120:GLN:O	1.96	0.65
1:A9:83:GLU:HB2	1:A9:212:ARG:HB3	1.78	0.65
1:Af:150:ARG:H	1:Af:150:ARG:NE	1.93	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:103:TRP:HB2	1:AA:198:THR:HG22	1.78	0.65
1:AC:42:THR:HG21	1:AD:120:GLN:O	1.96	0.65
1:AC:103:TRP:HB2	1:AC:198:THR:HG22	1.78	0.65
1:AH:42:THR:HG21	1:AI:120:GLN:O	1.96	0.65
1:AL:42:THR:HG21	1:AM:120:GLN:O	1.96	0.65
1:AY:120:GLN:O	1:A1:42:THR:HG21	1.96	0.65
1:A8:120:GLN:O	1:Ab:42:THR:HG21	1.96	0.65
1:A9:42:THR:HG21	1:Ac:120:GLN:O	1.96	0.65
1:Aa:83:GLU:HB2	1:Aa:212:ARG:HB3	1.77	0.65
1:Ab:231:PRO:HG2	3:Cc:83:ALA:HB2	1.77	0.65
1:AA:42:THR:HG21	1:AB:120:GLN:O	1.96	0.65
1:AM:83:GLU:HB2	1:AM:212:ARG:HB3	1.77	0.65
1:AP:42:THR:HG21	1:AS:120:GLN:O	1.96	0.65
1:AU:42:THR:HG21	1:AX:120:GLN:O	1.96	0.65
1:AW:231:PRO:HG2	3:CX:83:ALA:HB2	1.77	0.65
1:A0:83:GLU:HB2	1:A0:212:ARG:HB3	1.77	0.65
1:A3:150:ARG:H	1:A3:150:ARG:NE	1.93	0.65
1:Aa:42:THR:HG21	1:Ab:120:GLN:O	1.96	0.65
1:AP:231:PRO:HG2	3:CQ:83:ALA:HB2	1.77	0.65
1:AT:83:GLU:HB2	1:AT:212:ARG:HB3	1.77	0.65
1:AT:231:PRO:HG2	3:CU:83:ALA:HB2	1.77	0.65
1:A3:103:TRP:HB2	1:A3:198:THR:HG22	1.78	0.65
1:Ag:83:GLU:HB2	1:Ag:212:ARG:HB3	1.77	0.65
1:Ag:103:TRP:HB2	1:Ag:198:THR:HG22	1.78	0.65
1:Ah:231:PRO:HG2	3:Ci:83:ALA:HB2	1.77	0.65
1:Aj:103:TRP:HB2	1:Aj:198:THR:HG22	1.78	0.65
1:Am:103:TRP:HB2	1:Am:198:THR:HG22	1.78	0.65
1:Am:150:ARG:H	1:Am:150:ARG:NE	1.93	0.65
1:Ao:103:TRP:HB2	1:Ao:198:THR:HG22	1.78	0.65
1:DG:103:TRP:HB2	1:DG:198:THR:HG22	1.78	0.65
1:AQ:83:GLU:HB2	1:AQ:212:ARG:HB3	1.78	0.65
1:AR:103:TRP:HB2	1:AR:198:THR:HG22	1.78	0.65
1:AX:231:PRO:HG2	3:CY:83:ALA:HB2	1.77	0.65
1:A6:231:PRO:HG2	3:C7:83:ALA:HB2	1.77	0.65
1:Ad:120:GLN:O	1:Ag:42:THR:HG21	1.96	0.65
1:Ae:83:GLU:HB2	1:Ae:212:ARG:HB3	1.77	0.65
1:Aj:42:THR:HG21	1:Am:120:GLN:O	1.96	0.65
2:BG:137:GLU:C	2:BG:139:ALA:N	2.55	0.65
2:Bc:137:GLU:C	2:Bc:139:ALA:N	2.55	0.65
1:DC:120:GLN:O	1:DE:42:THR:HG21	1.96	0.65
1:DH:103:TRP:HB2	1:DH:198:THR:HG22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:83:GLU:HB2	1:AG:212:ARG:HB3	1.77	0.65
1:AH:83:GLU:HB2	1:AH:212:ARG:HB3	1.78	0.65
1:AH:231:PRO:HG2	3:CH:83:ALA:HB2	1.77	0.65
1:AJ:83:GLU:HB2	1:AJ:212:ARG:HB3	1.77	0.65
1:AV:83:GLU:HB2	1:AV:212:ARG:HB3	1.77	0.65
1:AX:150:ARG:H	1:AX:150:ARG:NE	1.93	0.65
1:A3:120:GLN:O	1:A6:42:THR:HG21	1.96	0.65
1:A8:83:GLU:HB2	1:A8:212:ARG:HB3	1.77	0.65
1:Ai:42:THR:HG21	1:Aj:120:GLN:O	1.96	0.65
1:Ai:103:TRP:HB2	1:Ai:198:THR:HG22	1.78	0.65
1:Al:231:PRO:HG2	3:Cm:83:ALA:HB2	1.77	0.65
2:BY:132:TYR:HB3	2:BY:193:THR:HG21	1.79	0.65
2:B7:132:TYR:HB3	2:B7:193:THR:HG21	1.79	0.65
1:DF:103:TRP:HB2	1:DF:198:THR:HG22	1.78	0.65
1:DH:42:THR:HG21	1:DI:120:GLN:O	1.96	0.65
1:DI:83:GLU:HB2	1:DI:212:ARG:HB3	1.77	0.65
1:AN:103:TRP:HB2	1:AN:198:THR:HG22	1.78	0.65
1:AY:42:THR:HG21	1:AZ:120:GLN:O	1.96	0.65
1:A5:120:GLN:O	1:A7:42:THR:HG21	1.96	0.65
1:Aa:231:PRO:HG2	3:DB:83:ALA:HB2	1.77	0.65
1:Ad:150:ARG:H	1:Ad:150:ARG:NE	1.93	0.65
2:B1:137:GLU:C	2:B1:139:ALA:N	2.54	0.65
1:DH:120:GLN:O	1:DJ:42:THR:HG21	1.96	0.65
1:DI:103:TRP:HB2	1:DI:198:THR:HG22	1.78	0.65
1:AB:103:TRP:HB2	1:AB:198:THR:HG22	1.78	0.64
1:AO:120:GLN:O	1:AR:42:THR:HG21	1.96	0.64
1:AQ:231:PRO:HG2	3:CR:83:ALA:HB2	1.77	0.64
2:BE:137:GLU:C	2:BE:139:ALA:N	2.55	0.64
2:BF:132:TYR:HB3	2:BF:193:THR:HG21	1.79	0.64
2:Bw:132:TYR:HB3	2:Bw:193:THR:HG21	1.79	0.64
1:DF:42:THR:HG21	1:DG:120:GLN:O	1.96	0.64
1:AF:83:GLU:HB2	1:AF:212:ARG:HB3	1.77	0.64
1:AS:103:TRP:HB2	1:AS:198:THR:HG22	1.78	0.64
1:A5:83:GLU:HB2	1:A5:212:ARG:HB3	1.78	0.64
1:Ad:42:THR:HG21	1:Ae:120:GLN:O	1.96	0.64
1:Af:83:GLU:HB2	1:Af:212:ARG:HB3	1.78	0.64
1:Aj:83:GLU:HB2	1:Aj:212:ARG:HB3	1.77	0.64
1:Ak:120:GLN:O	1:Am:42:THR:HG21	1.96	0.64
2:B0:132:TYR:HB3	2:B0:193:THR:HG21	1.80	0.64
2:Ba:132:TYR:HB3	2:Ba:193:THR:HG21	1.79	0.64
2:Bf:132:TYR:HB3	2:Bf:193:THR:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:42:THR:HG21	1:DJ:120:GLN:O	1.96	0.64
1:A0:42:THR:HG21	1:A1:120:GLN:O	1.96	0.64
1:Ae:103:TRP:HB2	1:Ae:198:THR:HG22	1.78	0.64
1:Ah:103:TRP:HB2	1:Ah:198:THR:HG22	1.78	0.64
1:An:103:TRP:HB2	1:An:198:THR:HG22	1.78	0.64
2:BV:137:GLU:C	2:BV:139:ALA:N	2.55	0.64
2:B6:132:TYR:HB3	2:B6:193:THR:HG21	1.79	0.64
2:Bl:132:TYR:HB3	2:Bl:193:THR:HG21	1.79	0.64
1:DF:120:GLN:O	1:DI:42:THR:HG21	1.96	0.64
1:AO:103:TRP:HB2	1:AO:198:THR:HG22	1.78	0.64
1:AQ:103:TRP:HB2	1:AQ:198:THR:HG22	1.78	0.64
1:AV:120:GLN:O	1:AX:42:THR:HG21	1.96	0.64
1:A4:103:TRP:HB2	1:A4:198:THR:HG22	1.78	0.64
1:A7:103:TRP:HB2	1:A7:198:THR:HG22	1.78	0.64
1:Af:42:THR:HG21	1:Ag:120:GLN:O	1.96	0.64
1:An:120:GLN:O	1:DD:42:THR:HG21	1.96	0.64
2:BE:132:TYR:HB3	2:BE:193:THR:HG21	1.79	0.64
2:BS:132:TYR:HB3	2:BS:193:THR:HG21	1.79	0.64
2:BZ:132:TYR:HB3	2:BZ:193:THR:HG21	1.79	0.64
3:CJ:83:ALA:HB2	1:DK:231:PRO:HG2	1.77	0.64
2:BT:132:TYR:HB3	2:BT:193:THR:HG21	1.80	0.64
2:BW:132:TYR:HB3	2:BW:193:THR:HG21	1.79	0.64
2:Bt:137:GLU:C	2:Bt:139:ALA:N	2.55	0.64
2:Bu:132:TYR:HB3	2:Bu:193:THR:HG21	1.79	0.64
1:DE:103:TRP:HB2	1:DE:198:THR:HG22	1.78	0.64
1:AC:243:ILE:HG23	1:AD:188:PRO:CB	2.28	0.64
1:AH:243:ILE:HG23	1:AI:188:PRO:CB	2.28	0.64
1:AJ:231:PRO:HG2	3:CK:83:ALA:HB2	1.77	0.64
1:A3:42:THR:HG21	1:A4:120:GLN:O	1.96	0.64
1:Ai:120:GLN:O	1:Al:42:THR:HG21	1.96	0.64
2:BI:132:TYR:HB3	2:BI:193:THR:HG21	1.79	0.64
2:BK:132:TYR:HB3	2:BK:193:THR:HG21	1.79	0.64
2:B2:137:GLU:C	2:B2:139:ALA:N	2.55	0.64
2:Br:132:TYR:HB3	2:Br:193:THR:HG21	1.79	0.64
1:AK:243:ILE:HG23	1:AN:188:PRO:CB	2.28	0.64
1:AN:83:GLU:HB2	1:AN:212:ARG:HB3	1.78	0.64
1:Aa:103:TRP:HB2	1:Aa:198:THR:HG22	1.78	0.64
2:Bk:132:TYR:HB3	2:Bk:193:THR:HG21	1.79	0.64
3:Cw:83:ALA:HB2	1:DI:231:PRO:HG2	1.77	0.64
1:AA:188:PRO:CB	1:AD:243:ILE:HG23	2.28	0.64
1:AB:243:ILE:HG23	1:AE:188:PRO:CB	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:231:PRO:HG2	3:CM:83:ALA:HB2	1.77	0.64
1:AN:231:PRO:HG2	3:CO:83:ALA:HB2	1.78	0.64
1:AU:243:ILE:HG23	1:AX:188:PRO:CB	2.28	0.64
1:AV:243:ILE:HG23	1:AW:188:PRO:CB	2.28	0.64
1:AZ:42:THR:HG21	1:A2:120:GLN:O	1.96	0.64
1:A2:103:TRP:HB2	1:A2:198:THR:HG22	1.78	0.64
1:A4:83:GLU:HB2	1:A4:212:ARG:HB3	1.78	0.64
1:A9:243:ILE:HG23	1:Ac:188:PRO:CB	2.28	0.64
1:Af:120:GLN:O	1:Ah:42:THR:HG21	1.96	0.64
1:Ai:243:ILE:HG23	1:Aj:188:PRO:CB	2.28	0.64
1:Ak:243:ILE:HG23	1:Al:188:PRO:CB	2.28	0.64
2:BA:226:LEU:HD23	3:CD:126:PRO:HG2	1.80	0.64
2:BP:132:TYR:HB3	2:BP:193:THR:HG21	1.79	0.64
2:BU:137:GLU:C	2:BU:139:ALA:N	2.54	0.64
2:Bi:137:GLU:C	2:Bi:139:ALA:N	2.54	0.64
2:Bm:132:TYR:HB3	2:Bm:193:THR:HG21	1.79	0.64
1:AC:188:PRO:CB	1:AE:243:ILE:HG23	2.28	0.64
1:AT:188:PRO:CB	1:AW:243:ILE:HG23	2.28	0.64
1:AZ:243:ILE:HG23	1:A2:188:PRO:CB	2.28	0.64
1:Aa:243:ILE:HG23	1:Ab:188:PRO:CB	2.28	0.64
2:BA:132:TYR:HB3	2:BA:193:THR:HG21	1.79	0.64
2:BC:149:ALA:HA	2:BC:152:TYR:CE2	2.33	0.64
2:BL:132:TYR:HB3	2:BL:193:THR:HG21	1.79	0.64
2:BO:149:ALA:HA	2:BO:152:TYR:CE2	2.33	0.64
2:BV:114:VAL:HG22	2:BV:209:VAL:CG1	2.28	0.64
2:B4:137:GLU:C	2:B4:139:ALA:N	2.55	0.64
2:Bv:132:TYR:HB3	2:Bv:193:THR:HG21	1.79	0.64
2:Bw:149:ALA:HA	2:Bw:152:TYR:CE2	2.33	0.64
2:Bx:137:GLU:C	2:Bx:139:ALA:N	2.55	0.64
1:AA:243:ILE:HG23	1:AB:188:PRO:CB	2.28	0.64
1:AW:83:GLU:HB2	1:AW:212:ARG:HB3	1.77	0.64
2:BD:137:GLU:C	2:BD:139:ALA:N	2.55	0.64
2:BN:114:VAL:HG22	2:BN:209:VAL:CG1	2.29	0.64
2:BQ:132:TYR:HB3	2:BQ:193:THR:HG21	1.79	0.64
2:BY:137:GLU:C	2:BY:139:ALA:N	2.55	0.64
2:B0:137:GLU:C	2:B0:139:ALA:N	2.55	0.64
2:B3:132:TYR:HB3	2:B3:193:THR:HG21	1.79	0.64
2:B4:149:ALA:HA	2:B4:152:TYR:CE2	2.33	0.64
2:B5:149:ALA:HA	2:B5:152:TYR:CE2	2.33	0.64
2:B9:137:GLU:C	2:B9:139:ALA:N	2.55	0.64
2:B9:149:ALA:HA	2:B9:152:TYR:CE2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ba:137:GLU:C	2:Ba:139:ALA:N	2.54	0.64
2:Bd:149:ALA:HA	2:Bd:152:TYR:CE2	2.33	0.64
2:Bi:132:TYR:HB3	2:Bi:193:THR:HG21	1.79	0.64
2:Bi:149:ALA:HA	2:Bi:152:TYR:CE2	2.33	0.64
2:Bn:149:ALA:HA	2:Bn:152:TYR:CE2	2.33	0.64
2:Bq:132:TYR:HB3	2:Bq:193:THR:HG21	1.79	0.64
2:Bt:149:ALA:HA	2:Bt:152:TYR:CE2	2.33	0.64
1:DH:188:PRO:CB	1:DJ:243:ILE:HG23	2.28	0.64
1:AG:243:ILE:HG23	1:DK:188:PRO:CB	2.28	0.63
1:AL:188:PRO:CB	1:AN:243:ILE:HG23	2.28	0.63
1:AV:188:PRO:CB	1:AX:243:ILE:HG23	2.28	0.63
1:Ae:243:ILE:HG23	1:Ah:188:PRO:CB	2.28	0.63
2:BA:137:GLU:C	2:BA:139:ALA:N	2.54	0.63
2:BA:149:ALA:HA	2:BA:152:TYR:CE2	2.33	0.63
2:BB:114:VAL:HG22	2:BB:209:VAL:CG1	2.28	0.63
2:BF:149:ALA:HA	2:BF:152:TYR:CE2	2.33	0.63
2:BG:114:VAL:HG22	2:BG:209:VAL:CG1	2.29	0.63
2:BJ:226:LEU:HD23	3:CG:126:PRO:HG2	1.80	0.63
2:BO:132:TYR:HB3	2:BO:193:THR:HG21	1.79	0.63
2:BS:149:ALA:HA	2:BS:152:TYR:CE2	2.33	0.63
2:BU:226:LEU:HD23	3:CX:126:PRO:HG2	1.80	0.63
2:BX:132:TYR:HB3	2:BX:193:THR:HG21	1.79	0.63
2:B4:132:TYR:HB3	2:B4:193:THR:HG21	1.80	0.63
2:B8:137:GLU:C	2:B8:139:ALA:N	2.54	0.63
2:Bc:114:VAL:HG22	2:Bc:209:VAL:CG1	2.29	0.63
2:Bc:132:TYR:HB3	2:Bc:193:THR:HG21	1.79	0.63
2:Bd:132:TYR:HB3	2:Bd:193:THR:HG21	1.79	0.63
2:Be:114:VAL:HG22	2:Be:209:VAL:CG1	2.29	0.63
2:Bf:114:VAL:HG22	2:Bf:209:VAL:CG1	2.29	0.63
2:Bf:149:ALA:HA	2:Bf:152:TYR:CE2	2.33	0.63
2:Bh:149:ALA:HA	2:Bh:152:TYR:CE2	2.33	0.63
2:Bt:132:TYR:HB3	2:Bt:193:THR:HG21	1.79	0.63
2:Bu:149:ALA:HA	2:Bu:152:TYR:CE2	2.33	0.63
1:DH:243:ILE:HG23	1:DI:188:PRO:CB	2.28	0.63
1:Aa:188:PRO:CB	1:Ac:243:ILE:HG23	2.28	0.63
1:Ai:188:PRO:CB	1:Al:243:ILE:HG23	2.28	0.63
2:BH:149:ALA:HA	2:BH:152:TYR:CE2	2.33	0.63
2:BI:149:ALA:HA	2:BI:152:TYR:CE2	2.33	0.63
2:BQ:149:ALA:HA	2:BQ:152:TYR:CE2	2.34	0.63
2:B2:149:ALA:HA	2:B2:152:TYR:CE2	2.34	0.63
2:B5:132:TYR:HB3	2:B5:193:THR:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:137:GLU:C	2:B5:139:ALA:N	2.54	0.63
2:B8:114:VAL:HG22	2:B8:209:VAL:CG1	2.29	0.63
2:Bg:114:VAL:HG22	2:Bg:209:VAL:CG1	2.29	0.63
2:Bk:226:LEU:HD23	3:Cn:126:PRO:HG2	1.80	0.63
2:Bl:114:VAL:HG22	2:Bl:209:VAL:CG1	2.29	0.63
2:Bm:149:ALA:HA	2:Bm:152:TYR:CE2	2.34	0.63
2:Bm:226:LEU:HD23	3:Ck:126:PRO:HG2	1.80	0.63
2:Bn:226:LEU:HD23	3:Cr:126:PRO:HG2	1.81	0.63
2:Br:226:LEU:HD23	3:Cp:126:PRO:HG2	1.80	0.63
1:Ao:243:ILE:HG23	1:DE:188:PRO:CB	2.28	0.63
2:BG:132:TYR:HB3	2:BG:193:THR:HG21	1.79	0.63
2:BJ:114:VAL:HG22	2:BJ:209:VAL:CG1	2.29	0.63
2:BS:114:VAL:HG22	2:BS:209:VAL:CG1	2.28	0.63
2:BT:114:VAL:HG22	2:BT:209:VAL:CG1	2.29	0.63
2:BT:149:ALA:HA	2:BT:152:TYR:CE2	2.33	0.63
2:BW:149:ALA:HA	2:BW:152:TYR:CE2	2.33	0.63
2:BW:226:LEU:HD23	3:CY:126:PRO:HG2	1.80	0.63
2:B2:226:LEU:HD23	3:C1:126:PRO:HG2	1.80	0.63
2:B3:137:GLU:C	2:B3:139:ALA:N	2.54	0.63
2:B5:226:LEU:HD23	3:C8:126:PRO:HG2	1.80	0.63
2:B6:114:VAL:HG22	2:B6:209:VAL:CG1	2.29	0.63
2:B6:149:ALA:HA	2:B6:152:TYR:CE2	2.33	0.63
2:Bb:149:ALA:HA	2:Bb:152:TYR:CE2	2.34	0.63
2:Bd:114:VAL:HG22	2:Bd:209:VAL:CG1	2.29	0.63
2:Be:132:TYR:HB3	2:Be:193:THR:HG21	1.79	0.63
2:Bg:132:TYR:HB3	2:Bg:193:THR:HG21	1.79	0.63
2:Bg:149:ALA:HA	2:Bg:152:TYR:CE2	2.33	0.63
2:Bh:132:TYR:HB3	2:Bh:193:THR:HG21	1.79	0.63
2:Bj:114:VAL:HG22	2:Bj:209:VAL:CG1	2.29	0.63
2:Bl:149:ALA:HA	2:Bl:152:TYR:CE2	2.34	0.63
2:Bn:132:TYR:HB3	2:Bn:193:THR:HG21	1.79	0.63
2:Bv:114:VAL:HG22	2:Bv:209:VAL:CG1	2.29	0.63
2:Bw:114:VAL:HG22	2:Bw:209:VAL:CG1	2.29	0.63
1:DF:188:PRO:CB	1:DI:243:ILE:HG23	2.28	0.63
1:AE:103:TRP:HB2	1:AE:198:THR:HG22	1.78	0.63
1:AF:188:PRO:CB	1:AI:243:ILE:HG23	2.28	0.63
1:AH:146:ILE:O	1:AH:147:ALA:HB2	1.99	0.63
1:AJ:243:ILE:HG23	1:AK:188:PRO:CB	2.28	0.63
1:AO:188:PRO:CB	1:AR:243:ILE:HG23	2.28	0.63
1:AT:243:ILE:HG23	1:AU:188:PRO:CB	2.28	0.63
1:Ad:188:PRO:CB	1:Ag:243:ILE:HG23	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BH:114:VAL:HG22	2:BH:209:VAL:CG1	2.29	0.63
2:BL:114:VAL:HG22	2:BL:209:VAL:CG1	2.28	0.63
2:BS:226:LEU:HD23	3:CP:126:PRO:HG2	1.80	0.63
2:BZ:149:ALA:HA	2:BZ:152:TYR:CE2	2.33	0.63
2:B2:132:TYR:HB3	2:B2:193:THR:HG21	1.79	0.63
2:B9:114:VAL:HG22	2:B9:209:VAL:CG1	2.29	0.63
2:Bd:226:LEU:HD23	3:Ch:126:PRO:HG2	1.80	0.63
2:Bj:132:TYR:HB3	2:Bj:193:THR:HG21	1.79	0.63
2:Bn:137:GLU:C	2:Bn:139:ALA:N	2.55	0.63
2:Bq:137:GLU:C	2:Bq:139:ALA:N	2.54	0.63
2:Br:149:ALA:HA	2:Br:152:TYR:CE2	2.33	0.63
2:Bs:114:VAL:HG22	2:Bs:209:VAL:CG1	2.29	0.63
1:AJ:188:PRO:CB	1:AM:243:ILE:HG23	2.28	0.63
1:AN:146:ILE:O	1:AN:147:ALA:HB2	1.99	0.63
1:AW:146:ILE:O	1:AW:147:ALA:HB2	1.99	0.63
1:A0:243:ILE:HG23	1:A1:188:PRO:CB	2.28	0.63
1:A5:188:PRO:CB	1:A7:243:ILE:HG23	2.28	0.63
1:Af:188:PRO:CB	1:Ah:243:ILE:HG23	2.28	0.63
2:BB:226:LEU:HD23	3:CA:126:PRO:HG2	1.80	0.63
2:BC:226:LEU:HD23	3:CE:126:PRO:HG2	1.81	0.63
2:BK:137:GLU:C	2:BK:139:ALA:N	2.55	0.63
2:BK:149:ALA:HA	2:BK:152:TYR:CE2	2.33	0.63
2:BR:132:TYR:HB3	2:BR:193:THR:HG21	1.79	0.63
2:B3:149:ALA:HA	2:B3:152:TYR:CE2	2.34	0.63
2:B7:226:LEU:HD23	3:C5:126:PRO:HG2	1.80	0.63
2:B8:132:TYR:HB3	2:B8:193:THR:HG21	1.79	0.63
2:Bk:137:GLU:C	2:Bk:139:ALA:N	2.55	0.63
2:Bo:132:TYR:HB3	2:Bo:193:THR:HG21	1.79	0.63
2:Bp:149:ALA:HA	2:Bp:152:TYR:CE2	2.33	0.63
2:Bq:149:ALA:HA	2:Bq:152:TYR:CE2	2.33	0.63
2:Bq:226:LEU:HD23	3:Cq:126:PRO:HG2	1.80	0.63
1:AF:146:ILE:O	1:AF:147:ALA:HB2	1.99	0.63
1:AF:243:ILE:HG23	1:AG:188:PRO:CB	2.28	0.63
1:AG:146:ILE:O	1:AG:147:ALA:HB2	1.99	0.63
1:AL:146:ILE:O	1:AL:147:ALA:HB2	1.99	0.63
1:A3:188:PRO:CB	1:A6:243:ILE:HG23	2.28	0.63
1:A4:243:ILE:HG23	1:A7:188:PRO:CB	2.28	0.63
1:A9:146:ILE:O	1:A9:147:ALA:HB2	1.99	0.63
1:Ae:146:ILE:O	1:Ae:147:ALA:HB2	1.99	0.63
1:Aj:243:ILE:HG23	1:Am:188:PRO:CB	2.28	0.63
1:An:243:ILE:HG23	1:Ao:188:PRO:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:149:ALA:HA	2:BB:152:TYR:CE2	2.33	0.63
2:BE:114:VAL:HG22	2:BE:209:VAL:CG1	2.29	0.63
2:BF:114:VAL:HG22	2:BF:209:VAL:CG1	2.29	0.63
2:BH:132:TYR:HB3	2:BH:193:THR:HG21	1.79	0.63
2:BM:149:ALA:HA	2:BM:152:TYR:CE2	2.33	0.63
2:BX:114:VAL:HG22	2:BX:209:VAL:CG1	2.29	0.63
2:BY:226:LEU:HD23	3:CV:126:PRO:HG2	1.80	0.63
2:B4:114:VAL:HG22	2:B4:209:VAL:CG1	2.29	0.63
2:Bv:149:ALA:HA	2:Bv:152:TYR:CE2	2.33	0.63
1:DE:146:ILE:O	1:DE:147:ALA:HB2	1.99	0.63
1:DF:146:ILE:O	1:DF:147:ALA:HB2	1.99	0.63
1:A5:243:ILE:HG23	1:A6:188:PRO:CB	2.28	0.63
1:A8:188:PRO:CB	1:Ab:243:ILE:HG23	2.28	0.63
1:Ad:146:ILE:O	1:Ad:147:ALA:HB2	1.99	0.63
1:Ak:188:PRO:CB	1:Am:243:ILE:HG23	2.28	0.63
2:BD:114:VAL:HG22	2:BD:209:VAL:CG1	2.29	0.63
2:BD:132:TYR:HB3	2:BD:193:THR:HG21	1.79	0.63
2:BP:114:VAL:HG22	2:BP:209:VAL:CG1	2.29	0.63
2:BP:149:ALA:HA	2:BP:152:TYR:CE2	2.33	0.63
2:BV:149:ALA:HA	2:BV:152:TYR:CE2	2.33	0.63
2:BY:149:ALA:HA	2:BY:152:TYR:CE2	2.33	0.63
2:B1:114:VAL:HG22	2:B1:209:VAL:CG1	2.29	0.63
2:B3:114:VAL:HG22	2:B3:209:VAL:CG1	2.29	0.63
2:B7:137:GLU:C	2:B7:139:ALA:N	2.55	0.63
2:Bc:226:LEU:HD23	3:DA:126:PRO:HG2	1.80	0.63
2:Bn:114:VAL:HG22	2:Bn:209:VAL:CG1	2.29	0.63
2:Bo:149:ALA:HA	2:Bo:152:TYR:CE2	2.33	0.63
2:Bx:226:LEU:HD23	3:C4:126:PRO:HG2	1.80	0.63
1:DF:243:ILE:HG23	1:DG:188:PRO:CB	2.28	0.63
1:AC:146:ILE:O	1:AC:147:ALA:HB2	1.99	0.63
1:AI:146:ILE:O	1:AI:147:ALA:HB2	1.99	0.63
1:AJ:146:ILE:O	1:AJ:147:ALA:HB2	1.99	0.63
1:AP:146:ILE:O	1:AP:147:ALA:HB2	1.99	0.63
1:AQ:146:ILE:O	1:AQ:147:ALA:HB2	1.99	0.63
1:AV:146:ILE:O	1:AV:147:ALA:HB2	1.99	0.63
1:A8:243:ILE:HG23	1:A9:188:PRO:CB	2.28	0.63
1:Af:146:ILE:O	1:Af:147:ALA:HB2	1.99	0.63
1:Af:243:ILE:HG23	1:Ag:188:PRO:CB	2.28	0.63
2:BA:114:VAL:HG22	2:BA:209:VAL:CG1	2.29	0.63
2:BJ:149:ALA:HA	2:BJ:152:TYR:CE2	2.34	0.63
2:BK:226:LEU:HD23	3:CN:126:PRO:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:132:TYR:HB3	2:BN:193:THR:HG21	1.79	0.63
2:BN:226:LEU:HD23	3:CM:126:PRO:HG2	1.80	0.63
2:BU:114:VAL:HG22	2:BU:209:VAL:CG1	2.29	0.63
2:BX:149:ALA:HA	2:BX:152:TYR:CE2	2.34	0.63
2:B0:114:VAL:HG22	2:B0:209:VAL:CG1	2.29	0.63
2:B7:149:ALA:HA	2:B7:152:TYR:CE2	2.34	0.63
2:Bb:137:GLU:C	2:Bb:139:ALA:N	2.54	0.63
2:Be:149:ALA:HA	2:Be:152:TYR:CE2	2.33	0.63
2:Bf:137:GLU:C	2:Bf:139:ALA:N	2.55	0.63
2:Bi:226:LEU:HD23	3:Cm:126:PRO:HG2	1.80	0.63
2:Bj:137:GLU:C	2:Bj:139:ALA:N	2.55	0.63
2:Bk:149:ALA:HA	2:Bk:152:TYR:CE2	2.33	0.63
2:Bo:114:VAL:HG22	2:Bo:209:VAL:CG1	2.29	0.63
2:Bs:149:ALA:HA	2:Bs:152:TYR:CE2	2.33	0.63
2:Bu:226:LEU:HD23	3:Cx:126:PRO:HG2	1.80	0.63
1:DI:146:ILE:O	1:DI:147:ALA:HB2	1.99	0.63
1:AQ:188:PRO:CB	1:AS:243:ILE:HG23	2.28	0.63
1:AU:146:ILE:O	1:AU:147:ALA:HB2	1.99	0.63
1:A3:243:ILE:HG23	1:A4:188:PRO:CB	2.28	0.63
1:A6:146:ILE:O	1:A6:147:ALA:HB2	1.99	0.63
1:A7:146:ILE:O	1:A7:147:ALA:HB2	1.99	0.63
2:BD:149:ALA:HA	2:BD:152:TYR:CE2	2.33	0.63
2:BE:149:ALA:HA	2:BE:152:TYR:CE2	2.34	0.63
2:BE:226:LEU:HD23	3:CB:126:PRO:HG2	1.80	0.63
2:BJ:132:TYR:HB3	2:BJ:193:THR:HG21	1.80	0.63
2:BK:114:VAL:HG22	2:BK:209:VAL:CG1	2.29	0.63
2:BM:114:VAL:HG22	2:BM:209:VAL:CG1	2.28	0.63
2:BM:226:LEU:HD23	3:CO:126:PRO:HG2	1.80	0.63
2:BO:114:VAL:HG22	2:BO:209:VAL:CG1	2.29	0.63
2:BV:226:LEU:HD23	3:CU:126:PRO:HG2	1.80	0.63
2:B1:132:TYR:HB3	2:B1:193:THR:HG21	1.80	0.63
2:Bp:114:VAL:HG22	2:Bp:209:VAL:CG1	2.29	0.63
2:Bp:132:TYR:HB3	2:Bp:193:THR:HG21	1.79	0.63
2:Bt:226:LEU:HD23	3:Ct:126:PRO:HG2	1.80	0.63
2:Bx:132:TYR:HB3	2:Bx:193:THR:HG21	1.79	0.63
1:DC:188:PRO:CB	1:DE:243:ILE:HG23	2.28	0.63
1:DG:243:ILE:HG23	1:DJ:188:PRO:CB	2.28	0.63
1:AK:146:ILE:O	1:AK:147:ALA:HB2	1.99	0.62
1:AM:146:ILE:O	1:AM:147:ALA:HB2	1.99	0.62
1:AP:74:THR:O	1:AP:74:THR:HG22	1.99	0.62
1:AY:243:ILE:HG23	1:AZ:188:PRO:CB	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:74:THR:HG22	1:AZ:74:THR:O	1.99	0.62
1:A5:74:THR:O	1:A5:74:THR:HG22	2.00	0.62
1:A6:74:THR:HG22	1:A6:74:THR:O	2.00	0.62
1:Ab:146:ILE:O	1:Ab:147:ALA:HB2	1.99	0.62
1:Ad:243:ILE:HG23	1:Ae:188:PRO:CB	2.28	0.62
1:Ai:146:ILE:O	1:Ai:147:ALA:HB2	1.99	0.62
2:BC:132:TYR:HB3	2:BC:193:THR:HG21	1.79	0.62
2:BF:137:GLU:C	2:BF:139:ALA:N	2.54	0.62
2:BG:149:ALA:HA	2:BG:152:TYR:CE2	2.33	0.62
2:BI:114:VAL:HG22	2:BI:209:VAL:CG1	2.29	0.62
2:BI:226:LEU:HD23	3:CH:126:PRO:HG2	1.80	0.62
2:BM:132:TYR:HB3	2:BM:193:THR:HG21	1.79	0.62
2:BO:137:GLU:C	2:BO:139:ALA:N	2.54	0.62
2:BQ:137:GLU:C	2:BQ:139:ALA:N	2.55	0.62
2:BV:132:TYR:HB3	2:BV:193:THR:HG21	1.79	0.62
2:B0:149:ALA:HA	2:B0:152:TYR:CE2	2.33	0.62
2:Ba:149:ALA:HA	2:Ba:152:TYR:CE2	2.33	0.62
2:Bb:132:TYR:HB3	2:Bb:193:THR:HG21	1.79	0.62
2:Bp:137:GLU:C	2:Bp:139:ALA:N	2.54	0.62
2:Bs:132:TYR:HB3	2:Bs:193:THR:HG21	1.79	0.62
2:Bs:137:GLU:C	2:Bs:139:ALA:N	2.54	0.62
2:Bu:114:VAL:HG22	2:Bu:209:VAL:CG1	2.29	0.62
2:Bv:137:GLU:C	2:Bv:139:ALA:N	2.54	0.62
1:AA:146:ILE:O	1:AA:147:ALA:HB2	1.99	0.62
1:AL:243:ILE:HG23	1:AM:188:PRO:CB	2.28	0.62
1:AX:146:ILE:O	1:AX:147:ALA:HB2	1.99	0.62
1:AY:188:PRO:CB	1:A1:243:ILE:HG23	2.28	0.62
1:A4:74:THR:O	1:A4:74:THR:HG22	1.99	0.62
1:Ah:74:THR:HG22	1:Ah:74:THR:O	1.99	0.62
2:BF:226:LEU:HD23	3:CI:126:PRO:HG2	1.80	0.62
2:BS:137:GLU:C	2:BS:139:ALA:N	2.55	0.62
2:BU:132:TYR:HB3	2:BU:193:THR:HG21	1.79	0.62
2:BX:137:GLU:C	2:BX:139:ALA:N	2.55	0.62
2:BX:226:LEU:HD23	3:CW:126:PRO:HG2	1.80	0.62
2:B1:149:ALA:HA	2:B1:152:TYR:CE2	2.33	0.62
2:B8:226:LEU:HD23	3:Cc:126:PRO:HG2	1.80	0.62
2:B9:132:TYR:HB3	2:B9:193:THR:HG21	1.80	0.62
2:Be:137:GLU:C	2:Be:139:ALA:N	2.55	0.62
2:Bw:226:LEU:HD23	3:Cu:126:PRO:HG2	1.80	0.62
2:Bx:149:ALA:HA	2:Bx:152:TYR:CE2	2.33	0.62
1:AE:146:ILE:O	1:AE:147:ALA:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:74:THR:O	1:AJ:74:THR:HG22	1.99	0.62
1:AQ:243:ILE:HG23	1:AR:188:PRO:CB	2.28	0.62
1:AR:74:THR:HG22	1:AR:74:THR:O	1.99	0.62
1:AS:146:ILE:O	1:AS:147:ALA:HB2	1.99	0.62
1:AT:146:ILE:O	1:AT:147:ALA:HB2	1.99	0.62
1:A0:188:PRO:CB	1:A2:243:ILE:HG23	2.28	0.62
1:An:188:PRO:CB	1:DD:243:ILE:HG23	2.28	0.62
2:BL:137:GLU:C	2:BL:139:ALA:N	2.55	0.62
2:BL:149:ALA:HA	2:BL:152:TYR:CE2	2.34	0.62
2:BN:149:ALA:HA	2:BN:152:TYR:CE2	2.33	0.62
2:BO:226:LEU:HD23	3:CS:126:PRO:HG2	1.80	0.62
2:BY:114:VAL:HG22	2:BY:209:VAL:CG1	2.29	0.62
2:BZ:226:LEU:HD23	3:C2:126:PRO:HG2	1.80	0.62
2:B7:114:VAL:HG22	2:B7:209:VAL:CG1	2.29	0.62
2:Ba:114:VAL:HG22	2:Ba:209:VAL:CG1	2.29	0.62
2:Bd:137:GLU:C	2:Bd:139:ALA:N	2.54	0.62
1:DC:146:ILE:O	1:DC:147:ALA:HB2	1.99	0.62
1:DC:243:ILE:HG23	1:DD:188:PRO:CB	2.28	0.62
1:AO:243:ILE:HG23	1:AP:188:PRO:CB	2.28	0.62
1:AS:120:GLN:HG3	1:AS:129:ARG:HG2	1.82	0.62
1:AY:120:GLN:HG3	1:AY:129:ARG:HG2	1.82	0.62
1:Ag:146:ILE:O	1:Ag:147:ALA:HB2	1.99	0.62
1:Aj:74:THR:O	1:Aj:74:THR:HG22	1.99	0.62
2:BN:137:GLU:C	2:BN:139:ALA:N	2.55	0.62
2:BR:114:VAL:HG22	2:BR:209:VAL:CG1	2.29	0.62
2:BT:226:LEU:HD23	3:CQ:126:PRO:HG2	1.80	0.62
2:B6:226:LEU:HD23	3:C6:126:PRO:HG2	1.80	0.62
2:B9:226:LEU:HD23	3:C9:126:PRO:HG2	1.80	0.62
2:Bi:114:VAL:HG22	2:Bi:209:VAL:CG1	2.29	0.62
2:Bj:149:ALA:HA	2:Bj:152:TYR:CE2	2.33	0.62
2:Bm:114:VAL:HG22	2:Bm:209:VAL:CG1	2.29	0.62
2:Bp:226:LEU:HD23	3:Cs:126:PRO:HG2	1.80	0.62
2:Bq:114:VAL:HG22	2:Bq:209:VAL:CG1	2.29	0.62
2:Bt:114:VAL:HG22	2:Bt:209:VAL:CG1	2.29	0.62
1:AB:146:ILE:O	1:AB:147:ALA:HB2	1.99	0.62
1:AQ:120:GLN:HG3	1:AQ:129:ARG:HG2	1.82	0.62
1:AR:146:ILE:O	1:AR:147:ALA:HB2	1.99	0.62
1:A3:74:THR:HG22	1:A3:74:THR:O	2.00	0.62
1:A4:115:THR:HG23	1:A4:132:GLN:HB3	1.82	0.62
1:Aa:146:ILE:O	1:Aa:147:ALA:HB2	1.99	0.62
1:Ai:74:THR:O	1:Ai:74:THR:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:132:TYR:HB3	2:BB:193:THR:HG21	1.80	0.62
2:BC:114:VAL:HG22	2:BC:209:VAL:CG1	2.28	0.62
2:BH:226:LEU:HD23	3:CJ:126:PRO:HG2	1.80	0.62
2:BP:137:GLU:C	2:BP:139:ALA:N	2.54	0.62
2:BP:226:LEU:HD23	3:CT:126:PRO:HG2	1.80	0.62
2:BU:149:ALA:HA	2:BU:152:TYR:CE2	2.33	0.62
2:BW:114:VAL:HG22	2:BW:209:VAL:CG1	2.29	0.62
2:Bb:226:LEU:HD23	3:DB:126:PRO:HG2	1.80	0.62
2:Bk:114:VAL:HG22	2:Bk:209:VAL:CG1	2.29	0.62
2:Bs:226:LEU:HD23	3:Cw:126:PRO:HG2	1.80	0.62
1:DD:146:ILE:O	1:DD:147:ALA:HB2	1.99	0.62
1:DJ:146:ILE:O	1:DJ:147:ALA:HB2	1.99	0.62
1:DK:146:ILE:O	1:DK:147:ALA:HB2	1.99	0.62
1:AI:74:THR:HG22	1:AI:74:THR:O	2.00	0.62
1:AL:120:GLN:HG3	1:AL:129:ARG:HG2	1.82	0.62
1:AO:120:GLN:HG3	1:AO:129:ARG:HG2	1.82	0.62
1:A6:120:GLN:HG3	1:A6:129:ARG:HG2	1.82	0.62
1:A8:120:GLN:HG3	1:A8:129:ARG:HG2	1.82	0.62
1:Ah:120:GLN:HG3	1:Ah:129:ARG:HG2	1.82	0.62
1:Aj:115:THR:HG23	1:Aj:132:GLN:HB3	1.82	0.62
1:Ak:74:THR:HG22	1:Ak:74:THR:O	2.00	0.62
2:BB:137:GLU:C	2:BB:139:ALA:N	2.55	0.62
2:B0:226:LEU:HD23	3:CZ:126:PRO:HG2	1.80	0.62
2:B2:114:VAL:HG22	2:B2:209:VAL:CG1	2.29	0.62
2:B3:226:LEU:HD23	3:C0:126:PRO:HG2	1.80	0.62
2:Ba:226:LEU:HD23	3:Cd:126:PRO:HG2	1.80	0.62
2:Bb:114:VAL:HG22	2:Bb:209:VAL:CG1	2.29	0.62
1:DC:120:GLN:HG3	1:DC:129:ARG:HG2	1.82	0.62
1:DE:74:THR:O	1:DE:74:THR:HG22	1.99	0.62
1:DF:74:THR:HG22	1:DF:74:THR:O	2.00	0.62
1:DG:115:THR:HG23	1:DG:132:GLN:HB3	1.82	0.62
1:DH:74:THR:O	1:DH:74:THR:HG22	2.00	0.62
1:AT:115:THR:HG23	1:AT:132:GLN:HB3	1.82	0.62
1:A1:115:THR:HG23	1:A1:132:GLN:HB3	1.82	0.62
1:A7:120:GLN:HG3	1:A7:129:ARG:HG2	1.82	0.62
1:Ak:115:THR:HG23	1:Ak:132:GLN:HB3	1.82	0.62
1:Ak:120:GLN:HG3	1:Ak:129:ARG:HG2	1.82	0.62
1:An:146:ILE:O	1:An:147:ALA:HB2	1.99	0.62
2:BL:226:LEU:HD23	3:CK:126:PRO:HG2	1.80	0.62
2:BQ:114:VAL:HG22	2:BQ:209:VAL:CG1	2.29	0.62
2:B1:226:LEU:HD23	3:C3:126:PRO:HG2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:226:LEU:HD23	3:C7:126:PRO:HG2	1.80	0.62
2:B5:114:VAL:HG22	2:B5:209:VAL:CG1	2.29	0.62
2:Bh:114:VAL:HG22	2:Bh:209:VAL:CG1	2.29	0.62
2:Bo:226:LEU:HD23	3:Co:126:PRO:HG2	1.80	0.62
2:Br:137:GLU:C	2:Br:139:ALA:N	2.55	0.62
2:Bx:114:VAL:HG22	2:Bx:209:VAL:CG1	2.29	0.62
1:AC:120:GLN:HG3	1:AC:129:ARG:HG2	1.82	0.62
1:AH:188:PRO:CB	1:DK:243:ILE:HG23	2.28	0.62
1:AP:243:ILE:HG23	1:AS:188:PRO:CB	2.28	0.62
1:AV:74:THR:O	1:AV:74:THR:HG22	2.00	0.62
1:A0:115:THR:HG23	1:A0:132:GLN:HB3	1.82	0.62
1:A0:146:ILE:O	1:A0:147:ALA:HB2	1.99	0.62
1:A3:115:THR:HG23	1:A3:132:GLN:HB3	1.82	0.62
1:Ac:146:ILE:O	1:Ac:147:ALA:HB2	1.99	0.62
2:BI:137:GLU:C	2:BI:139:ALA:N	2.55	0.62
2:BR:149:ALA:HA	2:BR:152:TYR:CE2	2.33	0.62
2:BR:226:LEU:HD23	3:CL:126:PRO:HG2	1.80	0.62
2:B8:149:ALA:HA	2:B8:152:TYR:CE2	2.33	0.62
1:DD:115:THR:HG23	1:DD:132:GLN:HB3	1.82	0.62
1:DH:120:GLN:HG3	1:DH:129:ARG:HG2	1.82	0.62
1:DI:115:THR:HG23	1:DI:132:GLN:HB3	1.82	0.62
1:DJ:74:THR:O	1:DJ:74:THR:HG22	1.99	0.62
1:DJ:120:GLN:HG3	1:DJ:129:ARG:HG2	1.82	0.62
1:AD:120:GLN:HG3	1:AD:129:ARG:HG2	1.82	0.62
1:AT:74:THR:HG22	1:AT:74:THR:O	2.00	0.62
1:A4:146:ILE:O	1:A4:147:ALA:HB2	1.99	0.62
1:A5:115:THR:HG23	1:A5:132:GLN:HB3	1.82	0.62
1:Aa:120:GLN:HG3	1:Aa:129:ARG:HG2	1.82	0.62
1:Ab:120:GLN:HG3	1:Ab:129:ARG:HG2	1.82	0.62
1:Ad:74:THR:O	1:Ad:74:THR:HG22	1.99	0.62
1:Ah:146:ILE:O	1:Ah:147:ALA:HB2	1.99	0.62
1:Ak:146:ILE:O	1:Ak:147:ALA:HB2	1.99	0.62
1:Al:146:ILE:O	1:Al:147:ALA:HB2	1.99	0.62
1:Ao:146:ILE:O	1:Ao:147:ALA:HB2	1.99	0.62
2:BG:226:LEU:HD23	3:CF:126:PRO:HG2	1.80	0.62
2:BJ:137:GLU:C	2:BJ:139:ALA:N	2.55	0.62
2:BQ:226:LEU:HD23	3:CR:126:PRO:HG2	1.80	0.62
2:Bc:149:ALA:HA	2:Bc:152:TYR:CE2	2.33	0.62
1:DG:120:GLN:HG3	1:DG:129:ARG:HG2	1.82	0.62
1:DH:115:THR:HG23	1:DH:132:GLN:HB3	1.82	0.62
1:AA:74:THR:HG22	1:AA:74:THR:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:115:THR:HG23	1:AA:132:GLN:HB3	1.82	0.62
1:AG:74:THR:O	1:AG:74:THR:HG22	1.99	0.62
1:AK:74:THR:O	1:AK:74:THR:HG22	1.99	0.62
1:AR:115:THR:HG23	1:AR:132:GLN:HB3	1.82	0.62
1:AY:146:ILE:O	1:AY:147:ALA:HB2	1.99	0.62
1:A3:146:ILE:O	1:A3:147:ALA:HB2	1.99	0.62
1:A7:115:THR:HG23	1:A7:132:GLN:HB3	1.82	0.62
1:Ag:74:THR:O	1:Ag:74:THR:HG22	1.99	0.62
1:Am:115:THR:HG23	1:Am:132:GLN:HB3	1.82	0.62
2:BW:137:GLU:C	2:BW:139:ALA:N	2.55	0.62
2:BZ:137:GLU:C	2:BZ:139:ALA:N	2.54	0.62
2:Bh:137:GLU:C	2:Bh:139:ALA:N	2.55	0.62
2:Bh:226:LEU:HD23	3:Cf:126:PRO:HG2	1.80	0.62
2:Bw:137:GLU:C	2:Bw:139:ALA:N	2.55	0.62
1:DF:115:THR:HG23	1:DF:132:GLN:HB3	1.82	0.62
1:AI:120:GLN:HG3	1:AI:129:ARG:HG2	1.82	0.61
1:Aa:115:THR:HG23	1:Aa:132:GLN:HB3	1.82	0.61
1:Ae:120:GLN:HG3	1:Ae:129:ARG:HG2	1.82	0.61
1:Ah:115:THR:HG22	1:Ah:131:GLN:OE1	2.00	0.61
2:BZ:114:VAL:HG22	2:BZ:209:VAL:CG1	2.29	0.61
2:Bg:226:LEU:HD23	3:Cg:126:PRO:HG2	1.80	0.61
2:Bv:226:LEU:HD23	3:Cv:126:PRO:HG2	1.80	0.61
1:DG:74:THR:O	1:DG:74:THR:HG22	1.99	0.61
1:AD:146:ILE:O	1:AD:147:ALA:HB2	1.99	0.61
1:AE:74:THR:O	1:AE:74:THR:HG22	1.99	0.61
1:AF:74:THR:HG22	1:AF:74:THR:O	2.00	0.61
1:AL:115:THR:HG23	1:AL:132:GLN:HB3	1.82	0.61
1:AN:74:THR:O	1:AN:74:THR:HG22	1.99	0.61
1:AN:115:THR:HG22	1:AN:131:GLN:OE1	2.01	0.61
1:AO:115:THR:HG23	1:AO:132:GLN:HB3	1.82	0.61
1:AU:74:THR:O	1:AU:74:THR:HG22	1.99	0.61
1:AW:115:THR:HG22	1:AW:131:GLN:OE1	2.00	0.61
1:AZ:115:THR:HG23	1:AZ:132:GLN:HB3	1.82	0.61
1:A2:146:ILE:O	1:A2:147:ALA:HB2	1.99	0.61
1:A3:120:GLN:HG3	1:A3:129:ARG:HG2	1.82	0.61
1:A5:146:ILE:O	1:A5:147:ALA:HB2	1.99	0.61
1:A8:74:THR:HG22	1:A8:74:THR:O	2.00	0.61
1:Ac:115:THR:HG23	1:Ac:132:GLN:HB3	1.82	0.61
2:BM:137:GLU:C	2:BM:139:ALA:N	2.54	0.61
2:BT:137:GLU:C	2:BT:139:ALA:N	2.55	0.61
2:Bg:137:GLU:C	2:Bg:139:ALA:N	2.55	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:120:GLN:HG3	1:DI:129:ARG:HG2	1.82	0.61
1:AB:115:THR:HG22	1:AB:131:GLN:OE1	2.00	0.61
1:AK:115:THR:HG23	1:AK:132:GLN:HB3	1.82	0.61
1:AM:120:GLN:HG3	1:AM:129:ARG:HG2	1.82	0.61
1:AR:115:THR:HG22	1:AR:131:GLN:OE1	2.01	0.61
1:AS:115:THR:HG22	1:AS:131:GLN:OE1	2.00	0.61
1:AT:120:GLN:HG3	1:AT:129:ARG:HG2	1.82	0.61
1:AU:115:THR:HG22	1:AU:131:GLN:OE1	2.00	0.61
1:AY:115:THR:HG23	1:AY:132:GLN:HB3	1.82	0.61
1:A4:115:THR:HG22	1:A4:131:GLN:OE1	2.01	0.61
1:A7:115:THR:HG22	1:A7:131:GLN:OE1	2.01	0.61
1:Aa:115:THR:HG22	1:Aa:131:GLN:OE1	2.01	0.61
1:Ac:115:THR:HG22	1:Ac:131:GLN:OE1	2.00	0.61
1:Af:115:THR:HG23	1:Af:132:GLN:HB3	1.82	0.61
1:Ag:115:THR:HG23	1:Ag:132:GLN:HB3	1.82	0.61
1:Ai:115:THR:HG23	1:Ai:132:GLN:HB3	1.82	0.61
1:Aj:146:ILE:O	1:Aj:147:ALA:HB2	1.99	0.61
1:Al:74:THR:O	1:Al:74:THR:HG22	1.99	0.61
1:Am:74:THR:HG22	1:Am:74:THR:O	1.99	0.61
1:Ao:115:THR:HG23	1:Ao:132:GLN:HB3	1.82	0.61
2:Bu:137:GLU:C	2:Bu:139:ALA:N	2.54	0.61
1:DD:74:THR:O	1:DD:74:THR:HG22	2.00	0.61
1:DK:115:THR:HG23	1:DK:132:GLN:HB3	1.82	0.61
1:AD:115:THR:HG23	1:AD:132:GLN:HB3	1.82	0.61
1:AI:115:THR:HG22	1:AI:131:GLN:OE1	2.00	0.61
1:AN:115:THR:HG23	1:AN:132:GLN:HB3	1.82	0.61
1:AO:146:ILE:O	1:AO:147:ALA:HB2	1.99	0.61
1:AQ:74:THR:O	1:AQ:74:THR:HG22	2.00	0.61
1:AQ:115:THR:HG22	1:AQ:131:GLN:OE1	2.01	0.61
1:AX:120:GLN:HG3	1:AX:129:ARG:HG2	1.82	0.61
1:A9:74:THR:O	1:A9:74:THR:HG22	1.99	0.61
1:A9:120:GLN:HG3	1:A9:129:ARG:HG2	1.82	0.61
1:Ab:74:THR:HG22	1:Ab:74:THR:O	1.99	0.61
1:Af:120:GLN:HG3	1:Af:129:ARG:HG2	1.82	0.61
1:Ag:120:GLN:HG3	1:Ag:129:ARG:HG2	1.82	0.61
1:Aj:115:THR:HG22	1:Aj:131:GLN:OE1	2.01	0.61
1:Al:115:THR:HG22	1:Al:131:GLN:OE1	2.00	0.61
2:Be:226:LEU:HD23	3:Ce:126:PRO:HG2	1.80	0.61
2:Bj:226:LEU:HD23	3:Cj:126:PRO:HG2	1.80	0.61
2:Br:114:VAL:HG22	2:Br:209:VAL:CG1	2.29	0.61
1:DE:120:GLN:HG3	1:DE:129:ARG:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DF:115:THR:HG22	1:DF:131:GLN:OE1	2.01	0.61
1:DG:115:THR:HG22	1:DG:131:GLN:OE1	2.01	0.61
1:AH:74:THR:O	1:AH:74:THR:HG22	2.00	0.61
1:AM:115:THR:HG22	1:AM:131:GLN:OE1	2.00	0.61
1:AW:115:THR:HG23	1:AW:132:GLN:HB3	1.82	0.61
1:AX:74:THR:O	1:AX:74:THR:HG22	2.00	0.61
1:AZ:146:ILE:O	1:AZ:147:ALA:HB2	1.99	0.61
1:A2:74:THR:O	1:A2:74:THR:HG22	1.99	0.61
1:Aa:74:THR:O	1:Aa:74:THR:HG22	2.00	0.61
1:Am:115:THR:HG22	1:Am:131:GLN:OE1	2.01	0.61
1:Am:146:ILE:O	1:Am:147:ALA:HB2	1.99	0.61
1:Ao:115:THR:HG22	1:Ao:131:GLN:OE1	2.00	0.61
2:BD:226:LEU:HD23	3:CC:126:PRO:HG2	1.80	0.61
1:DD:115:THR:HG22	1:DD:131:GLN:OE1	2.00	0.61
1:DD:120:GLN:HG3	1:DD:129:ARG:HG2	1.82	0.61
1:DE:115:THR:HG22	1:DE:131:GLN:OE1	2.01	0.61
1:DG:146:ILE:O	1:DG:147:ALA:HB2	1.99	0.61
1:DK:74:THR:O	1:DK:74:THR:HG22	2.00	0.61
1:AE:115:THR:HG23	1:AE:132:GLN:HB3	1.82	0.61
1:AE:120:GLN:HG3	1:AE:129:ARG:HG2	1.82	0.61
1:AF:115:THR:HG23	1:AF:132:GLN:HB3	1.82	0.61
1:AH:115:THR:HG22	1:AH:131:GLN:OE1	2.01	0.61
1:AL:74:THR:HG22	1:AL:74:THR:O	2.00	0.61
1:AL:115:THR:HG22	1:AL:131:GLN:OE1	2.01	0.61
1:AO:74:THR:HG22	1:AO:74:THR:O	1.99	0.61
1:AR:120:GLN:HG3	1:AR:129:ARG:HG2	1.82	0.61
1:AS:115:THR:HG23	1:AS:132:GLN:HB3	1.82	0.61
1:Ae:74:THR:HG22	1:Ae:74:THR:O	1.99	0.61
1:Aj:120:GLN:HG3	1:Aj:129:ARG:HG2	1.82	0.61
1:Al:120:GLN:HG3	1:Al:129:ARG:HG2	1.82	0.61
1:Am:120:GLN:HG3	1:Am:129:ARG:HG2	1.82	0.61
2:Bl:226:LEU:HD23	3:Cl:126:PRO:HG2	1.80	0.61
1:DH:115:THR:HG22	1:DH:131:GLN:OE1	2.00	0.61
1:AA:115:THR:HG22	1:AA:131:GLN:OE1	2.01	0.61
1:AD:115:THR:HG22	1:AD:131:GLN:OE1	2.01	0.61
1:AF:120:GLN:HG3	1:AF:129:ARG:HG2	1.82	0.61
1:AG:115:THR:HG22	1:AG:131:GLN:OE1	2.00	0.61
1:AG:115:THR:HG23	1:AG:132:GLN:HB3	1.82	0.61
1:AV:115:THR:HG23	1:AV:132:GLN:HB3	1.82	0.61
1:A2:115:THR:HG22	1:A2:131:GLN:OE1	2.00	0.61
1:A9:115:THR:HG22	1:A9:131:GLN:OE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:115:THR:HG22	1:Af:131:GLN:OE1	2.01	0.61
1:Ak:163:MET:CE	1:Ak:189:GLY:HA3	2.31	0.61
1:Al:115:THR:HG23	1:Al:132:GLN:HB3	1.82	0.61
1:An:115:THR:HG22	1:An:131:GLN:OE1	2.01	0.61
2:B6:137:GLU:C	2:B6:139:ALA:N	2.54	0.61
1:AA:181:LYS:HE3	2:BA:137:GLU:CB	2.31	0.61
1:AB:74:THR:O	1:AB:74:THR:HG22	2.00	0.61
1:AD:163:MET:CE	1:AD:189:GLY:HA3	2.31	0.61
1:AJ:115:THR:HG22	1:AJ:131:GLN:OE1	2.01	0.61
1:AR:181:LYS:HE3	2:BQ:137:GLU:CB	2.31	0.61
1:AY:163:MET:CE	1:AY:189:GLY:HA3	2.31	0.61
1:A5:163:MET:CE	1:A5:189:GLY:HA3	2.31	0.61
1:A9:115:THR:HG23	1:A9:132:GLN:HB3	1.82	0.61
1:Ae:163:MET:CE	1:Ae:189:GLY:HA3	2.31	0.61
1:Af:74:THR:O	1:Af:74:THR:HG22	2.00	0.61
1:Ah:163:MET:CE	1:Ah:189:GLY:HA3	2.31	0.61
1:Ai:115:THR:HG22	1:Ai:131:GLN:OE1	2.01	0.61
1:Ai:120:GLN:HG3	1:Ai:129:ARG:HG2	1.82	0.61
1:Ai:181:LYS:HE3	2:Bi:137:GLU:CB	2.31	0.61
1:Ak:181:LYS:HE3	2:Bk:137:GLU:CB	2.31	0.61
1:Ao:163:MET:CE	1:Ao:189:GLY:HA3	2.31	0.61
2:Bf:226:LEU:HD23	3:Ci:126:PRO:HG2	1.80	0.61
2:Bp:137:GLU:CB	1:DC:181:LYS:HE3	2.31	0.61
1:AC:115:THR:HG22	1:AC:131:GLN:OE1	2.01	0.61
1:AF:181:LYS:HE3	2:BF:137:GLU:CB	2.31	0.61
1:AH:120:GLN:HG3	1:AH:129:ARG:HG2	1.82	0.61
1:AJ:115:THR:HG23	1:AJ:132:GLN:HB3	1.82	0.61
1:AT:115:THR:HG22	1:AT:131:GLN:OE1	2.01	0.61
1:A1:146:ILE:O	1:A1:147:ALA:HB2	1.99	0.61
1:A4:120:GLN:HG3	1:A4:129:ARG:HG2	1.82	0.61
1:A8:115:THR:HG22	1:A8:131:GLN:OE1	2.01	0.61
1:A8:146:ILE:O	1:A8:147:ALA:HB2	1.99	0.61
1:A9:181:LYS:HE3	2:B9:137:GLU:CB	2.31	0.61
1:Aa:163:MET:CE	1:Aa:189:GLY:HA3	2.31	0.61
1:Af:181:LYS:HE3	2:Bf:137:GLU:CB	2.31	0.61
1:An:115:THR:HG23	1:An:132:GLN:HB3	1.82	0.61
1:Ao:74:THR:O	1:Ao:74:THR:HG22	2.00	0.61
2:Bs:137:GLU:CB	1:DF:181:LYS:HE3	2.31	0.61
1:DH:163:MET:CE	1:DH:189:GLY:HA3	2.31	0.61
1:AB:163:MET:CE	1:AB:189:GLY:HA3	2.31	0.61
1:AE:115:THR:HG22	1:AE:131:GLN:OE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:120:GLN:HG3	1:AJ:129:ARG:HG2	1.82	0.61
1:AK:115:THR:HG22	1:AK:131:GLN:OE1	2.01	0.61
1:AM:74:THR:O	1:AM:74:THR:HG22	1.99	0.61
1:AN:120:GLN:HG3	1:AN:129:ARG:HG2	1.82	0.61
1:AS:181:LYS:HE3	2:BT:137:GLU:CB	2.31	0.61
1:AV:115:THR:HG22	1:AV:131:GLN:OE1	2.01	0.61
1:A1:115:THR:HG22	1:A1:131:GLN:OE1	2.01	0.61
1:A1:120:GLN:HG3	1:A1:129:ARG:HG2	1.82	0.61
1:A5:115:THR:HG22	1:A5:131:GLN:OE1	2.01	0.61
1:A5:120:GLN:HG3	1:A5:129:ARG:HG2	1.82	0.61
1:A7:163:MET:CE	1:A7:189:GLY:HA3	2.31	0.61
1:Ac:74:THR:O	1:Ac:74:THR:HG22	2.00	0.61
1:An:181:LYS:HE3	2:Bn:137:GLU:CB	2.31	0.61
2:BC:137:GLU:C	2:BC:139:ALA:N	2.54	0.61
2:Bo:137:GLU:C	2:Bo:139:ALA:N	2.55	0.61
2:Bu:137:GLU:CB	1:DH:181:LYS:HE3	2.31	0.61
1:DJ:115:THR:HG23	1:DJ:132:GLN:HB3	1.82	0.61
1:DK:115:THR:HG22	1:DK:131:GLN:OE1	2.01	0.61
1:AF:115:THR:HG22	1:AF:131:GLN:OE1	2.01	0.60
1:AK:120:GLN:HG3	1:AK:129:ARG:HG2	1.82	0.60
1:AM:181:LYS:HE3	2:BN:137:GLU:CB	2.31	0.60
1:AP:120:GLN:HG3	1:AP:129:ARG:HG2	1.82	0.60
1:AT:181:LYS:HE3	2:BU:137:GLU:CB	2.31	0.60
1:AV:120:GLN:HG3	1:AV:129:ARG:HG2	1.82	0.60
1:A0:120:GLN:HG3	1:A0:129:ARG:HG2	1.82	0.60
1:A7:74:THR:O	1:A7:74:THR:HG22	1.99	0.60
1:Ab:163:MET:CE	1:Ab:189:GLY:HA3	2.31	0.60
1:Ab:181:LYS:HE3	2:Bb:137:GLU:CB	2.31	0.60
1:Ac:120:GLN:HG3	1:Ac:129:ARG:HG2	1.82	0.60
1:Ad:181:LYS:HE3	2:Bd:137:GLU:CB	2.31	0.60
1:Ag:115:THR:HG22	1:Ag:131:GLN:OE1	2.01	0.60
1:An:120:GLN:HG3	1:An:129:ARG:HG2	1.82	0.60
1:Ao:120:GLN:HG3	1:Ao:129:ARG:HG2	1.82	0.60
1:DC:74:THR:HG22	1:DC:74:THR:O	2.00	0.60
1:DD:163:MET:CE	1:DD:189:GLY:HA3	2.31	0.60
1:DF:120:GLN:HG3	1:DF:129:ARG:HG2	1.82	0.60
1:AB:120:GLN:HG3	1:AB:129:ARG:HG2	1.82	0.60
1:AC:163:MET:CE	1:AC:189:GLY:HA3	2.31	0.60
1:AD:74:THR:HG22	1:AD:74:THR:O	1.99	0.60
1:AD:181:LYS:HE3	2:BD:137:GLU:CB	2.31	0.60
1:AI:163:MET:CE	1:AI:189:GLY:HA3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:181:LYS:O	1:AI:182:ALA:HB2	2.01	0.60
1:AL:163:MET:CE	1:AL:189:GLY:HA3	2.31	0.60
1:AU:120:GLN:HG3	1:AU:129:ARG:HG2	1.82	0.60
1:AW:181:LYS:HE3	2:BX:137:GLU:CB	2.31	0.60
1:AW:181:LYS:O	1:AW:182:ALA:HB2	2.02	0.60
1:AX:115:THR:HG23	1:AX:132:GLN:HB3	1.82	0.60
1:A0:74:THR:HG22	1:A0:74:THR:O	2.00	0.60
1:A0:181:LYS:HE3	2:B1:137:GLU:CB	2.31	0.60
1:A1:74:THR:O	1:A1:74:THR:HG22	1.99	0.60
1:A2:163:MET:CE	1:A2:189:GLY:HA3	2.31	0.60
1:A3:181:LYS:O	1:A3:182:ALA:HB2	2.01	0.60
1:A5:201:ALA:O	1:A5:203:ASP:N	2.34	0.60
1:A6:181:LYS:O	1:A6:182:ALA:HB2	2.01	0.60
1:AI:181:LYS:O	1:AI:182:ALA:HB2	2.02	0.60
1:Aj:163:MET:CE	1:Aj:189:GLY:HA3	2.31	0.60
1:Aj:201:ALA:O	1:Aj:203:ASP:N	2.34	0.60
1:Al:163:MET:CE	1:Al:189:GLY:HA3	2.31	0.60
3:Ct:29:VAL:HG21	1:DF:159:PRO:HB2	1.84	0.60
1:DE:115:THR:HG23	1:DE:132:GLN:HB3	1.82	0.60
1:DH:146:ILE:O	1:DH:147:ALA:HB2	1.99	0.60
1:DJ:163:MET:CE	1:DJ:189:GLY:HA3	2.31	0.60
1:DJ:201:ALA:O	1:DJ:203:ASP:N	2.35	0.60
1:AN:163:MET:CE	1:AN:189:GLY:HA3	2.31	0.60
1:AS:181:LYS:O	1:AS:182:ALA:HB2	2.01	0.60
1:AU:115:THR:HG23	1:AU:132:GLN:HB3	1.82	0.60
1:AU:163:MET:CE	1:AU:189:GLY:HA3	2.31	0.60
1:AU:181:LYS:HE3	2:BV:137:GLU:CB	2.31	0.60
1:AY:74:THR:O	1:AY:74:THR:HG22	2.00	0.60
1:AZ:115:THR:HG22	1:AZ:131:GLN:OE1	2.01	0.60
1:AZ:120:GLN:HG3	1:AZ:129:ARG:HG2	1.82	0.60
1:A1:201:ALA:O	1:A1:203:ASP:N	2.34	0.60
1:Ad:120:GLN:HG3	1:Ad:129:ARG:HG2	1.82	0.60
1:Ae:181:LYS:HE3	2:Be:137:GLU:CB	2.31	0.60
1:Ah:115:THR:HG23	1:Ah:132:GLN:HB3	1.82	0.60
2:Bv:137:GLU:CB	1:DI:181:LYS:HE3	2.31	0.60
2:Bw:137:GLU:CB	1:DJ:181:LYS:HE3	2.31	0.60
1:DC:181:LYS:O	1:DC:182:ALA:HB2	2.02	0.60
1:DH:181:LYS:O	1:DH:182:ALA:HB2	2.02	0.60
1:AA:120:GLN:HG3	1:AA:129:ARG:HG2	1.82	0.60
1:AB:115:THR:HG23	1:AB:132:GLN:HB3	1.82	0.60
1:AG:120:GLN:HG3	1:AG:129:ARG:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:181:LYS:HE3	2:BG:137:GLU:CB	2.31	0.60
1:AR:181:LYS:O	1:AR:182:ALA:HB2	2.01	0.60
1:AS:74:THR:O	1:AS:74:THR:HG22	2.00	0.60
1:AU:181:LYS:O	1:AU:182:ALA:HB2	2.02	0.60
1:AV:181:LYS:HE3	2:BW:137:GLU:CB	2.31	0.60
1:AV:201:ALA:O	1:AV:203:ASP:N	2.34	0.60
1:AY:201:ALA:O	1:AY:203:ASP:N	2.35	0.60
1:AZ:163:MET:CE	1:AZ:189:GLY:HA3	2.31	0.60
1:AZ:201:ALA:O	1:AZ:203:ASP:N	2.34	0.60
1:A4:201:ALA:O	1:A4:203:ASP:N	2.34	0.60
1:A7:181:LYS:O	1:A7:182:ALA:HB2	2.01	0.60
1:Ad:159:PRO:HB2	3:Ce:29:VAL:HG21	1.84	0.60
1:Ak:115:THR:HG22	1:Ak:131:GLN:OE1	2.00	0.60
2:BH:137:GLU:C	2:BH:139:ALA:N	2.54	0.60
2:BJ:137:GLU:CB	1:DK:181:LYS:HE3	2.31	0.60
2:Bm:137:GLU:C	2:Bm:139:ALA:N	2.55	0.60
1:DC:115:THR:HG22	1:DC:131:GLN:OE1	2.01	0.60
1:DC:201:ALA:O	1:DC:203:ASP:N	2.35	0.60
1:DE:163:MET:CE	1:DE:189:GLY:HA3	2.31	0.60
1:DI:115:THR:HG22	1:DI:131:GLN:OE1	2.01	0.60
1:DI:163:MET:CE	1:DI:189:GLY:HA3	2.31	0.60
1:DK:120:GLN:HG3	1:DK:129:ARG:HG2	1.82	0.60
1:DK:181:LYS:O	1:DK:182:ALA:HB2	2.02	0.60
1:AC:181:LYS:HE3	2:BC:137:GLU:CB	2.31	0.60
1:AH:159:PRO:HB2	3:CH:29:VAL:HG21	1.84	0.60
1:AK:181:LYS:HE3	2:BL:137:GLU:CB	2.31	0.60
1:AQ:163:MET:CE	1:AQ:189:GLY:HA3	2.31	0.60
1:AT:163:MET:CE	1:AT:189:GLY:HA3	2.31	0.60
1:AT:181:LYS:O	1:AT:182:ALA:HB2	2.02	0.60
1:AT:201:ALA:O	1:AT:203:ASP:N	2.35	0.60
1:AW:74:THR:HG22	1:AW:74:THR:O	1.99	0.60
1:AX:181:LYS:HE3	2:BY:137:GLU:CB	2.31	0.60
1:A0:159:PRO:HB2	3:C1:29:VAL:HG21	1.84	0.60
1:A2:115:THR:HG23	1:A2:132:GLN:HB3	1.82	0.60
1:A4:163:MET:CE	1:A4:189:GLY:HA3	2.31	0.60
1:A4:181:LYS:O	1:A4:182:ALA:HB2	2.02	0.60
1:A5:181:LYS:O	1:A5:182:ALA:HB2	2.01	0.60
1:A6:115:THR:HG22	1:A6:131:GLN:OE1	2.01	0.60
1:A6:181:LYS:HE3	2:B6:137:GLU:CB	2.31	0.60
1:Ab:115:THR:HG23	1:Ab:132:GLN:HB3	1.82	0.60
1:Ad:115:THR:HG22	1:Ad:131:GLN:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:181:LYS:O	1:Ad:182:ALA:HB2	2.01	0.60
1:Af:163:MET:CE	1:Af:189:GLY:HA3	2.31	0.60
1:Ag:181:LYS:HE3	2:Bg:137:GLU:CB	2.31	0.60
1:Aj:159:PRO:HB2	3:Ck:29:VAL:HG21	1.84	0.60
1:Aj:181:LYS:O	1:Aj:182:ALA:HB2	2.02	0.60
1:Al:181:LYS:HE3	2:Bl:137:GLU:CB	2.31	0.60
1:Am:163:MET:CE	1:Am:189:GLY:HA3	2.31	0.60
2:Bl:137:GLU:C	2:Bl:139:ALA:N	2.54	0.60
1:DH:201:ALA:O	1:DH:203:ASP:N	2.35	0.60
1:DI:181:LYS:O	1:DI:182:ALA:HB2	2.01	0.60
1:AF:201:ALA:O	1:AF:203:ASP:N	2.35	0.60
1:AK:181:LYS:O	1:AK:182:ALA:HB2	2.01	0.60
1:AL:201:ALA:O	1:AL:203:ASP:N	2.35	0.60
1:AM:181:LYS:O	1:AM:182:ALA:HB2	2.01	0.60
1:AN:181:LYS:O	1:AN:182:ALA:HB2	2.02	0.60
1:AO:181:LYS:O	1:AO:182:ALA:HB2	2.01	0.60
1:AP:115:THR:HG22	1:AP:131:GLN:OE1	2.01	0.60
1:AP:163:MET:CE	1:AP:189:GLY:HA3	2.31	0.60
1:AX:115:THR:HG22	1:AX:131:GLN:OE1	2.01	0.60
1:AX:181:LYS:O	1:AX:182:ALA:HB2	2.02	0.60
1:A0:115:THR:HG22	1:A0:131:GLN:OE1	2.01	0.60
1:A1:181:LYS:HE3	2:B2:137:GLU:CB	2.31	0.60
1:A2:120:GLN:HG3	1:A2:129:ARG:HG2	1.82	0.60
1:A7:181:LYS:HE3	2:B7:137:GLU:CB	2.31	0.60
1:A8:159:PRO:HB2	3:C9:29:VAL:HG21	1.84	0.60
1:A8:163:MET:CE	1:A8:189:GLY:HA3	2.31	0.60
1:Aa:181:LYS:O	1:Aa:182:ALA:HB2	2.02	0.60
1:Ac:163:MET:CE	1:Ac:189:GLY:HA3	2.31	0.60
1:Ae:159:PRO:HB2	3:Cf:29:VAL:HG21	1.84	0.60
1:Ae:181:LYS:O	1:Ae:182:ALA:HB2	2.02	0.60
1:Aj:181:LYS:HE3	2:Bj:137:GLU:CB	2.31	0.60
1:Am:181:LYS:HE3	2:Bm:137:GLU:CB	2.31	0.60
1:An:163:MET:CE	1:An:189:GLY:HA3	2.31	0.60
1:DF:181:LYS:O	1:DF:182:ALA:HB2	2.02	0.60
1:DJ:181:LYS:O	1:DJ:182:ALA:HB2	2.01	0.60
1:AB:181:LYS:HE3	2:BB:137:GLU:CB	2.31	0.60
1:AD:201:ALA:O	1:AD:203:ASP:N	2.34	0.60
1:AF:181:LYS:O	1:AF:182:ALA:HB2	2.01	0.60
1:AH:115:THR:HG23	1:AH:132:GLN:HB3	1.82	0.60
1:AL:181:LYS:HE3	2:BM:137:GLU:CB	2.31	0.60
1:AM:115:THR:HG23	1:AM:132:GLN:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:181:LYS:HE3	2:BR:137:GLU:CB	2.31	0.60
1:AR:159:PRO:HB2	3:CS:29:VAL:HG21	1.84	0.60
1:AS:163:MET:CE	1:AS:189:GLY:HA3	2.31	0.60
1:AS:201:ALA:O	1:AS:203:ASP:N	2.34	0.60
1:AY:115:THR:HG22	1:AY:131:GLN:OE1	2.00	0.60
1:AY:181:LYS:O	1:AY:182:ALA:HB2	2.01	0.60
1:A6:159:PRO:HB2	3:C7:29:VAL:HG21	1.84	0.60
1:A9:181:LYS:O	1:A9:182:ALA:HB2	2.01	0.60
1:Aa:181:LYS:HE3	2:Ba:137:GLU:CB	2.31	0.60
1:Ab:115:THR:HG22	1:Ab:131:GLN:OE1	2.01	0.60
1:Ad:115:THR:HG23	1:Ad:132:GLN:HB3	1.82	0.60
1:Ai:163:MET:CE	1:Ai:189:GLY:HA3	2.31	0.60
1:DF:163:MET:CE	1:DF:189:GLY:HA3	2.31	0.60
1:DJ:115:THR:HG22	1:DJ:131:GLN:OE1	2.01	0.60
1:AC:74:THR:O	1:AC:74:THR:HG22	2.00	0.60
1:AE:163:MET:CE	1:AE:189:GLY:HA3	2.31	0.60
1:AJ:201:ALA:O	1:AJ:203:ASP:N	2.34	0.60
1:AN:201:ALA:O	1:AN:203:ASP:N	2.34	0.60
1:AP:115:THR:HG23	1:AP:132:GLN:HB3	1.82	0.60
1:AW:163:MET:CE	1:AW:189:GLY:HA3	2.31	0.60
1:A4:159:PRO:HB2	3:C5:29:VAL:HG21	1.84	0.60
1:Ah:159:PRO:HB2	3:Ci:29:VAL:HG21	1.84	0.60
1:Ak:201:ALA:O	1:Ak:203:ASP:N	2.34	0.60
2:B2:85:SER:HB2	2:B2:190:ASN:HD21	1.67	0.60
3:Cx:29:VAL:HG21	1:DJ:159:PRO:HB2	1.84	0.60
1:DC:115:THR:HG23	1:DC:132:GLN:HB3	1.82	0.60
1:DC:163:MET:CE	1:DC:189:GLY:HA3	2.31	0.60
1:DI:74:THR:HG22	1:DI:74:THR:O	2.00	0.60
1:AP:181:LYS:HE3	2:BS:137:GLU:CB	2.31	0.60
1:AQ:115:THR:HG23	1:AQ:132:GLN:HB3	1.82	0.60
1:AX:159:PRO:HB2	3:CY:29:VAL:HG21	1.84	0.60
1:A0:201:ALA:O	1:A0:203:ASP:N	2.34	0.60
1:A1:163:MET:CE	1:A1:189:GLY:HA3	2.31	0.60
1:A2:181:LYS:HE3	2:B3:137:GLU:CB	2.31	0.60
1:A3:115:THR:HG22	1:A3:131:GLN:OE1	2.01	0.60
1:A7:159:PRO:HB2	3:C8:29:VAL:HG21	1.84	0.60
1:Ab:181:LYS:O	1:Ab:182:ALA:HB2	2.01	0.60
1:Ac:159:PRO:HB2	3:Cd:29:VAL:HG21	1.84	0.60
1:Ae:115:THR:HG23	1:Ae:132:GLN:HB3	1.82	0.60
1:Ag:181:LYS:O	1:Ag:182:ALA:HB2	2.02	0.60
1:Ah:181:LYS:O	1:Ah:182:ALA:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:159:PRO:HB2	3:Cn:29:VAL:HG21	1.84	0.60
1:An:74:THR:HG22	1:An:74:THR:O	2.00	0.60
2:BS:85:SER:HB2	2:BS:190:ASN:HD21	1.67	0.60
3:Cs:29:VAL:HG21	1:DE:159:PRO:HB2	1.84	0.60
1:DD:181:LYS:O	1:DD:182:ALA:HB2	2.01	0.60
1:DE:201:ALA:O	1:DE:203:ASP:N	2.35	0.60
1:AA:163:MET:CE	1:AA:189:GLY:HA3	2.31	0.60
1:AB:201:ALA:O	1:AB:203:ASP:N	2.34	0.60
1:AF:163:MET:CE	1:AF:189:GLY:HA3	2.31	0.60
1:AH:181:LYS:HE3	2:BH:137:GLU:CB	2.31	0.60
1:AI:115:THR:HG23	1:AI:132:GLN:HB3	1.82	0.60
1:AI:201:ALA:O	1:AI:203:ASP:N	2.34	0.60
1:AP:159:PRO:HB2	3:CQ:29:VAL:HG21	1.84	0.60
1:AU:201:ALA:O	1:AU:203:ASP:N	2.35	0.60
1:AV:5:GLY:HA3	1:AV:15:PRO:HD3	1.84	0.60
1:AV:181:LYS:O	1:AV:182:ALA:HB2	2.02	0.60
1:AW:5:GLY:HA3	1:AW:15:PRO:HD3	1.84	0.60
1:AW:201:ALA:O	1:AW:203:ASP:N	2.34	0.60
1:AX:201:ALA:O	1:AX:203:ASP:N	2.35	0.60
1:AY:159:PRO:HB2	3:CZ:29:VAL:HG21	1.84	0.60
1:A2:201:ALA:O	1:A2:203:ASP:N	2.34	0.60
1:A6:115:THR:HG23	1:A6:132:GLN:HB3	1.82	0.60
1:A6:163:MET:CE	1:A6:189:GLY:HA3	2.31	0.60
1:Ae:115:THR:HG22	1:Ae:131:GLN:OE1	2.01	0.60
1:Ah:181:LYS:HE3	2:Bh:137:GLU:CB	2.31	0.60
1:Al:159:PRO:HB2	3:Cm:29:VAL:HG21	1.84	0.60
1:Al:181:LYS:O	1:Al:182:ALA:HB2	2.01	0.60
1:Al:201:ALA:O	1:Al:203:ASP:N	2.34	0.60
1:Ao:201:ALA:O	1:Ao:203:ASP:N	2.34	0.60
2:BM:85:SER:HB2	2:BM:190:ASN:HD21	1.67	0.60
2:B4:85:SER:HB2	2:B4:190:ASN:HD21	1.67	0.60
2:Bg:85:SER:HB2	2:Bg:190:ASN:HD21	1.67	0.60
2:Bo:85:SER:HB2	2:Bo:190:ASN:HD21	1.67	0.60
2:Bp:85:SER:HB2	2:Bp:190:ASN:HD21	1.67	0.60
2:Bq:137:GLU:CB	1:DD:181:LYS:HE3	2.31	0.60
2:Bt:137:GLU:CB	1:DG:181:LYS:HE3	2.31	0.60
3:CC:42:ASN:HD22	3:CC:44:ILE:H	1.50	0.60
3:DB:42:ASN:HD22	3:DB:44:ILE:H	1.50	0.60
1:AC:159:PRO:HB2	3:CC:29:VAL:HG21	1.84	0.59
1:AF:5:GLY:HA3	1:AF:15:PRO:HD3	1.84	0.59
1:AJ:5:GLY:HA3	1:AJ:15:PRO:HD3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:5:GLY:HA3	1:AK:15:PRO:HD3	1.84	0.59
1:AK:201:ALA:O	1:AK:203:ASP:N	2.34	0.59
1:AO:115:THR:HG22	1:AO:131:GLN:OE1	2.01	0.59
1:AO:181:LYS:HE3	2:BO:137:GLU:CB	2.31	0.59
1:AZ:181:LYS:HE3	2:B0:137:GLU:CB	2.31	0.59
1:A5:181:LYS:HE3	2:B5:137:GLU:CB	2.31	0.59
1:A8:115:THR:HG23	1:A8:132:GLN:HB3	1.82	0.59
1:A8:181:LYS:O	1:A8:182:ALA:HB2	2.01	0.59
1:A9:201:ALA:O	1:A9:203:ASP:N	2.34	0.59
1:Ab:201:ALA:O	1:Ab:203:ASP:N	2.34	0.59
1:Ad:163:MET:CE	1:Ad:189:GLY:HA3	2.31	0.59
1:Af:159:PRO:HB2	3:Cg:29:VAL:HG21	1.84	0.59
1:Ak:5:GLY:HA3	1:Ak:15:PRO:HD3	1.84	0.59
1:Am:201:ALA:O	1:Am:203:ASP:N	2.34	0.59
2:BR:137:GLU:C	2:BR:139:ALA:N	2.55	0.59
2:Bq:85:SER:HB2	2:Bq:190:ASN:HD21	1.67	0.59
3:CA:42:ASN:HD22	3:CA:44:ILE:H	1.50	0.59
3:CJ:29:VAL:HG21	1:DK:159:PRO:HB2	1.84	0.59
3:Ck:42:ASN:HD22	3:Ck:44:ILE:H	1.51	0.59
3:Cq:42:ASN:HD22	3:Cq:44:ILE:H	1.50	0.59
1:DK:163:MET:CE	1:DK:189:GLY:HA3	2.31	0.59
1:DK:201:ALA:O	1:DK:203:ASP:N	2.35	0.59
1:AB:5:GLY:HA3	1:AB:15:PRO:HD3	1.84	0.59
1:AB:181:LYS:O	1:AB:182:ALA:HB2	2.01	0.59
1:AG:181:LYS:O	1:AG:182:ALA:HB2	2.02	0.59
1:AH:163:MET:CE	1:AH:189:GLY:HA3	2.31	0.59
1:AH:201:ALA:O	1:AH:203:ASP:N	2.35	0.59
1:AK:163:MET:CE	1:AK:189:GLY:HA3	2.31	0.59
1:AM:159:PRO:CB	3:CN:29:VAL:HG21	2.33	0.59
1:AN:5:GLY:HA3	1:AN:15:PRO:HD3	1.85	0.59
1:AP:201:ALA:O	1:AP:203:ASP:N	2.34	0.59
1:A1:159:PRO:HB2	3:C2:29:VAL:HG21	1.84	0.59
1:A3:181:LYS:HE3	2:B4:137:GLU:CB	2.31	0.59
1:A4:181:LYS:HE3	2:Bx:137:GLU:CB	2.31	0.59
1:Aa:201:ALA:O	1:Aa:203:ASP:N	2.34	0.59
1:Ag:201:ALA:O	1:Ag:203:ASP:N	2.34	0.59
1:Am:181:LYS:O	1:Am:182:ALA:HB2	2.01	0.59
2:BE:85:SER:HB2	2:BE:190:ASN:HD21	1.67	0.59
2:Bj:85:SER:HB2	2:Bj:190:ASN:HD21	1.67	0.59
2:Bn:85:SER:HB2	2:Bn:190:ASN:HD21	1.67	0.59
3:CE:42:ASN:HD22	3:CE:44:ILE:H	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:42:ASN:HD22	3:CJ:44:ILE:H	1.50	0.59
3:CQ:42:ASN:HD22	3:CQ:44:ILE:H	1.50	0.59
3:C1:42:ASN:HD22	3:C1:44:ILE:H	1.50	0.59
3:C2:42:ASN:HD22	3:C2:44:ILE:H	1.51	0.59
3:C5:42:ASN:HD22	3:C5:44:ILE:H	1.51	0.59
3:Cd:42:ASN:HD22	3:Cd:44:ILE:H	1.50	0.59
3:Ce:42:ASN:HD22	3:Ce:44:ILE:H	1.50	0.59
1:AA:181:LYS:O	1:AA:182:ALA:HB2	2.01	0.59
1:AC:115:THR:HG23	1:AC:132:GLN:HB3	1.82	0.59
1:AD:181:LYS:O	1:AD:182:ALA:HB2	2.02	0.59
1:AE:5:GLY:HA3	1:AE:15:PRO:HD3	1.85	0.59
1:AM:5:GLY:HA3	1:AM:15:PRO:HD3	1.84	0.59
1:AQ:5:GLY:HA3	1:AQ:15:PRO:HD3	1.85	0.59
1:AR:159:PRO:CB	3:CS:29:VAL:HG21	2.33	0.59
1:AV:163:MET:CE	1:AV:189:GLY:HA3	2.31	0.59
1:AX:5:GLY:HA3	1:AX:15:PRO:HD3	1.85	0.59
1:AX:163:MET:CE	1:AX:189:GLY:HA3	2.31	0.59
1:AY:181:LYS:HE3	2:BZ:137:GLU:CB	2.31	0.59
1:A2:181:LYS:O	1:A2:182:ALA:HB2	2.01	0.59
1:A3:159:PRO:CB	3:C4:29:VAL:HG21	2.33	0.59
1:A3:163:MET:CE	1:A3:189:GLY:HA3	2.31	0.59
1:A8:159:PRO:CB	3:C9:29:VAL:HG21	2.33	0.59
1:A9:163:MET:CE	1:A9:189:GLY:HA3	2.31	0.59
1:Ab:5:GLY:HA3	1:Ab:15:PRO:HD3	1.85	0.59
1:Ad:5:GLY:HA3	1:Ad:15:PRO:HD3	1.85	0.59
1:Ae:5:GLY:HA3	1:Ae:15:PRO:HD3	1.84	0.59
1:Ae:201:ALA:O	1:Ae:203:ASP:N	2.34	0.59
1:Af:201:ALA:O	1:Af:203:ASP:N	2.35	0.59
1:Ai:159:PRO:CB	3:Cj:29:VAL:HG21	2.33	0.59
1:Ao:5:GLY:HA3	1:Ao:15:PRO:HD3	1.85	0.59
2:BB:85:SER:HB2	2:BB:190:ASN:HD21	1.67	0.59
2:BK:85:SER:HB2	2:BK:190:ASN:HD21	1.67	0.59
2:BY:85:SER:HB2	2:BY:190:ASN:HD21	1.67	0.59
2:Bd:85:SER:HB2	2:Bd:190:ASN:HD21	1.67	0.59
3:CD:42:ASN:HD22	3:CD:44:ILE:H	1.50	0.59
3:C9:42:ASN:HD22	3:C9:44:ILE:H	1.50	0.59
3:Cs:42:ASN:HD22	3:Cs:44:ILE:H	1.50	0.59
3:Cw:29:VAL:HG21	1:DI:159:PRO:CB	2.33	0.59
1:DE:181:LYS:O	1:DE:182:ALA:HB2	2.02	0.59
1:DF:201:ALA:O	1:DF:203:ASP:N	2.35	0.59
1:AA:201:ALA:O	1:AA:203:ASP:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:159:PRO:CB	3:CC:29:VAL:HG21	2.33	0.59
1:AF:159:PRO:HB2	3:CF:29:VAL:HG21	1.84	0.59
1:AH:159:PRO:CB	3:CH:29:VAL:HG21	2.33	0.59
1:AI:5:GLY:HA3	1:AI:15:PRO:HD3	1.84	0.59
1:AJ:159:PRO:HB2	3:CK:29:VAL:HG21	1.84	0.59
1:AM:201:ALA:O	1:AM:203:ASP:N	2.34	0.59
1:AO:201:ALA:O	1:AO:203:ASP:N	2.35	0.59
1:AQ:181:LYS:HE3	2:BP:137:GLU:CB	2.31	0.59
1:AQ:181:LYS:O	1:AQ:182:ALA:HB2	2.02	0.59
1:AR:5:GLY:HA3	1:AR:15:PRO:HD3	1.84	0.59
1:AR:163:MET:CE	1:AR:189:GLY:HA3	2.31	0.59
1:AU:159:PRO:CB	3:CV:29:VAL:HG21	2.33	0.59
1:AU:159:PRO:HB2	3:CV:29:VAL:HG21	1.84	0.59
1:AW:120:GLN:HG3	1:AW:129:ARG:HG2	1.82	0.59
1:A0:163:MET:CE	1:A0:189:GLY:HA3	2.31	0.59
1:A2:159:PRO:CB	3:C3:29:VAL:HG21	2.33	0.59
1:A6:201:ALA:O	1:A6:203:ASP:N	2.34	0.59
1:A7:159:PRO:CB	3:C8:29:VAL:HG21	2.33	0.59
1:A7:201:ALA:O	1:A7:203:ASP:N	2.34	0.59
1:Aa:5:GLY:HA3	1:Aa:15:PRO:HD3	1.85	0.59
1:Aa:159:PRO:CB	3:DB:29:VAL:HG21	2.33	0.59
1:Ai:201:ALA:O	1:Ai:203:ASP:N	2.35	0.59
1:An:5:GLY:HA3	1:An:15:PRO:HD3	1.84	0.59
2:BH:85:SER:HB2	2:BH:190:ASN:HD21	1.67	0.59
2:B1:85:SER:HB2	2:B1:190:ASN:HD21	1.67	0.59
2:Bb:85:SER:HB2	2:Bb:190:ASN:HD21	1.67	0.59
2:Bw:85:SER:HB2	2:Bw:190:ASN:HD21	1.67	0.59
3:CU:42:ASN:HD22	3:CU:44:ILE:H	1.50	0.59
3:Cr:42:ASN:HD22	3:Cr:44:ILE:H	1.50	0.59
1:DD:201:ALA:O	1:DD:203:ASP:N	2.34	0.59
1:DJ:5:GLY:HA3	1:DJ:15:PRO:HD3	1.85	0.59
1:AA:159:PRO:HB2	3:CA:29:VAL:HG21	1.84	0.59
1:AG:163:MET:CE	1:AG:189:GLY:HA3	2.31	0.59
1:AI:159:PRO:HB2	3:CI:29:VAL:HG21	1.84	0.59
1:AM:163:MET:CE	1:AM:189:GLY:HA3	2.31	0.59
1:AP:5:GLY:HA3	1:AP:15:PRO:HD3	1.85	0.59
1:AX:159:PRO:CB	3:CY:29:VAL:HG21	2.33	0.59
1:AZ:159:PRO:CB	3:C0:29:VAL:HG21	2.33	0.59
1:A3:201:ALA:O	1:A3:203:ASP:N	2.35	0.59
1:Ac:159:PRO:CB	3:Cd:29:VAL:HG21	2.33	0.59
1:Ac:201:ALA:O	1:Ac:203:ASP:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:5:GLY:HA3	1:Af:15:PRO:HD3	1.85	0.59
1:Ag:159:PRO:HB2	3:Ch:29:VAL:HG21	1.84	0.59
1:Ag:163:MET:CE	1:Ag:189:GLY:HA3	2.31	0.59
1:Ah:201:ALA:O	1:Ah:203:ASP:N	2.34	0.59
1:Ak:159:PRO:HB2	3:Cl:29:VAL:HG21	1.84	0.59
1:An:181:LYS:O	1:An:182:ALA:HB2	2.01	0.59
1:Ao:181:LYS:O	1:Ao:182:ALA:HB2	2.01	0.59
2:B3:85:SER:HB2	2:B3:190:ASN:HD21	1.67	0.59
2:Bf:85:SER:HB2	2:Bf:190:ASN:HD21	1.67	0.59
3:CP:42:ASN:HD22	3:CP:44:ILE:H	1.50	0.59
3:Ct:29:VAL:HG21	1:DF:159:PRO:CB	2.32	0.59
3:Cx:42:ASN:HD22	3:Cx:44:ILE:H	1.50	0.59
1:DI:5:GLY:HA3	1:DI:15:PRO:HD3	1.85	0.59
1:DI:201:ALA:O	1:DI:203:ASP:N	2.35	0.59
1:AE:159:PRO:CB	3:CE:29:VAL:HG21	2.33	0.59
1:AG:5:GLY:HA3	1:AG:15:PRO:HD3	1.85	0.59
1:AL:181:LYS:O	1:AL:182:ALA:HB2	2.02	0.59
1:AP:181:LYS:O	1:AP:182:ALA:HB2	2.02	0.59
1:AQ:159:PRO:CB	3:CR:29:VAL:HG21	2.33	0.59
1:AR:201:ALA:O	1:AR:203:ASP:N	2.34	0.59
1:AS:5:GLY:HA3	1:AS:15:PRO:HD3	1.85	0.59
1:AS:159:PRO:HB2	3:CT:29:VAL:HG21	1.84	0.59
1:AT:159:PRO:HB2	3:CU:29:VAL:HG21	1.84	0.59
1:AV:159:PRO:HB2	3:CW:29:VAL:HG21	1.84	0.59
1:A0:5:GLY:HA3	1:A0:15:PRO:HD3	1.85	0.59
1:A4:5:GLY:HA3	1:A4:15:PRO:HD3	1.84	0.59
1:A8:201:ALA:O	1:A8:203:ASP:N	2.35	0.59
1:A9:5:GLY:HA3	1:A9:15:PRO:HD3	1.85	0.59
1:A9:159:PRO:HB2	3:DA:29:VAL:HG21	1.84	0.59
1:Aa:159:PRO:HB2	3:DB:29:VAL:HG21	1.84	0.59
1:Ac:5:GLY:HA3	1:Ac:15:PRO:HD3	1.85	0.59
1:Ae:159:PRO:CB	3:Cf:29:VAL:HG21	2.33	0.59
1:Af:159:PRO:CB	3:Cg:29:VAL:HG21	2.33	0.59
1:Aj:5:GLY:HA3	1:Aj:15:PRO:HD3	1.84	0.59
1:An:159:PRO:CB	3:Co:29:VAL:HG21	2.33	0.59
1:An:159:PRO:HB2	3:Co:29:VAL:HG21	1.84	0.59
1:An:201:ALA:O	1:An:203:ASP:N	2.35	0.59
2:B6:85:SER:HB2	2:B6:190:ASN:HD21	1.67	0.59
2:B9:85:SER:HB2	2:B9:190:ASN:HD21	1.67	0.59
2:Ba:85:SER:HB2	2:Ba:190:ASN:HD21	1.67	0.59
3:CK:42:ASN:HD22	3:CK:44:ILE:H	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:42:ASN:HD22	3:CN:44:ILE:H	1.51	0.59
1:DE:5:GLY:HA3	1:DE:15:PRO:HD3	1.85	0.59
1:DF:5:GLY:HA3	1:DF:15:PRO:HD3	1.85	0.59
1:AA:159:PRO:CB	3:CA:29:VAL:HG21	2.33	0.59
1:AC:201:ALA:O	1:AC:203:ASP:N	2.34	0.59
1:AI:181:LYS:HE3	2:BI:137:GLU:CB	2.31	0.59
1:AK:159:PRO:HB2	3:CL:29:VAL:HG21	1.84	0.59
1:AL:5:GLY:HA3	1:AL:15:PRO:HD3	1.85	0.59
1:AU:5:GLY:HA3	1:AU:15:PRO:HD3	1.85	0.59
1:A0:181:LYS:O	1:A0:182:ALA:HB2	2.02	0.59
1:A8:181:LYS:HE3	2:B8:137:GLU:CB	2.31	0.59
1:A9:159:PRO:CB	3:DA:29:VAL:HG21	2.33	0.59
1:Ac:181:LYS:HE3	2:Bc:137:GLU:CB	2.31	0.59
1:Ac:181:LYS:O	1:Ac:182:ALA:HB2	2.01	0.59
1:Ah:5:GLY:HA3	1:Ah:15:PRO:HD3	1.85	0.59
1:Al:159:PRO:CB	3:Cm:29:VAL:HG21	2.33	0.59
2:BU:85:SER:HB2	2:BU:190:ASN:HD21	1.67	0.59
2:Bt:85:SER:HB2	2:Bt:190:ASN:HD21	1.67	0.59
3:C7:42:ASN:HD22	3:C7:44:ILE:H	1.50	0.59
1:DG:201:ALA:O	1:DG:203:ASP:N	2.35	0.59
1:AC:181:LYS:O	1:AC:182:ALA:HB2	2.01	0.59
1:AE:159:PRO:HB2	3:CE:29:VAL:HG21	1.84	0.59
1:AJ:163:MET:CE	1:AJ:189:GLY:HA3	2.31	0.59
1:AJ:181:LYS:O	1:AJ:182:ALA:HB2	2.01	0.59
1:AK:159:PRO:CB	3:CL:29:VAL:HG21	2.33	0.59
1:AL:159:PRO:CB	3:CM:29:VAL:HG21	2.33	0.59
1:AY:5:GLY:HA3	1:AY:15:PRO:HD3	1.85	0.59
1:A2:5:GLY:HA3	1:A2:15:PRO:HD3	1.85	0.59
1:A7:5:GLY:HA3	1:A7:15:PRO:HD3	1.85	0.59
1:Ad:159:PRO:CB	3:Ce:29:VAL:HG21	2.32	0.59
1:Af:181:LYS:O	1:Af:182:ALA:HB2	2.01	0.59
1:Ag:159:PRO:CB	3:Ch:29:VAL:HG21	2.33	0.59
1:Am:159:PRO:CB	3:Cn:29:VAL:HG21	2.33	0.59
2:BZ:85:SER:HB2	2:BZ:190:ASN:HD21	1.67	0.59
2:B7:85:SER:HB2	2:B7:190:ASN:HD21	1.67	0.59
2:Bm:85:SER:HB2	2:Bm:190:ASN:HD21	1.67	0.59
2:Br:85:SER:HB2	2:Br:190:ASN:HD21	1.67	0.59
2:Br:137:GLU:CB	1:DE:181:LYS:HE3	2.31	0.59
3:CB:42:ASN:HD22	3:CB:44:ILE:H	1.50	0.59
3:CV:42:ASN:HD22	3:CV:44:ILE:H	1.50	0.59
3:CX:42:ASN:HD22	3:CX:44:ILE:H	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:42:ASN:HD22	3:C8:44:ILE:H	1.50	0.59
3:Cu:29:VAL:HG21	1:DG:159:PRO:HB2	1.84	0.59
1:DG:181:LYS:O	1:DG:182:ALA:HB2	2.01	0.59
1:AE:181:LYS:HE3	2:BE:137:GLU:CB	2.31	0.59
1:AJ:159:PRO:CB	3:CK:29:VAL:HG21	2.33	0.59
1:AT:5:GLY:HA3	1:AT:15:PRO:HD3	1.85	0.59
1:AZ:159:PRO:HB2	3:C0:29:VAL:HG21	1.84	0.59
1:A1:159:PRO:CB	3:C2:29:VAL:HG21	2.33	0.59
1:A4:159:PRO:CB	3:C5:29:VAL:HG21	2.33	0.59
1:A5:5:GLY:HA3	1:A5:15:PRO:HD3	1.85	0.59
1:Ad:201:ALA:O	1:Ad:203:ASP:N	2.34	0.59
1:Ah:159:PRO:CB	3:Ci:29:VAL:HG21	2.33	0.59
2:BD:85:SER:HB2	2:BD:190:ASN:HD21	1.67	0.59
2:BQ:85:SER:HB2	2:BQ:190:ASN:HD21	1.67	0.59
2:BT:85:SER:HB2	2:BT:190:ASN:HD21	1.67	0.59
2:BX:85:SER:HB2	2:BX:190:ASN:HD21	1.67	0.59
2:Bk:85:SER:HB2	2:Bk:190:ASN:HD21	1.67	0.59
2:Bl:85:SER:HB2	2:Bl:190:ASN:HD21	1.67	0.59
2:Bx:85:SER:HB2	2:Bx:190:ASN:HD21	1.67	0.59
3:Co:42:ASN:HD22	3:Co:44:ILE:H	1.50	0.59
3:Cv:29:VAL:HG21	1:DH:159:PRO:CB	2.33	0.59
1:DK:5:GLY:HA3	1:DK:15:PRO:HD3	1.85	0.59
1:AA:5:GLY:HA3	1:AA:15:PRO:HD3	1.84	0.59
1:AB:159:PRO:HB2	3:CB:29:VAL:HG21	1.84	0.59
1:AE:201:ALA:O	1:AE:203:ASP:N	2.34	0.59
1:AF:159:PRO:CB	3:CF:29:VAL:HG21	2.33	0.59
1:AG:201:ALA:O	1:AG:203:ASP:N	2.35	0.59
1:AH:181:LYS:O	1:AH:182:ALA:HB2	2.02	0.59
1:AJ:181:LYS:HE3	2:BK:137:GLU:CB	2.31	0.59
1:AP:159:PRO:CB	3:CQ:29:VAL:HG21	2.33	0.59
1:Ab:159:PRO:CB	3:Cc:29:VAL:HG21	2.33	0.59
1:Ai:5:GLY:HA3	1:Ai:15:PRO:HD3	1.84	0.59
1:Ai:159:PRO:HB2	3:Cj:29:VAL:HG21	1.84	0.59
2:BA:85:SER:HB2	2:BA:190:ASN:HD21	1.67	0.59
2:BF:85:SER:HB2	2:BF:190:ASN:HD21	1.67	0.59
3:Cw:29:VAL:HG21	1:DI:159:PRO:HB2	1.84	0.59
3:Cx:29:VAL:HG21	1:DJ:159:PRO:CB	2.33	0.59
1:DG:163:MET:CE	1:DG:189:GLY:HA3	2.31	0.59
1:AG:159:PRO:CB	3:CG:29:VAL:HG21	2.33	0.58
1:AQ:159:PRO:HB2	3:CR:29:VAL:HG21	1.84	0.58
1:A5:159:PRO:CB	3:C6:29:VAL:HG21	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:5:GLY:HA3	1:A8:15:PRO:HD3	1.84	0.58
2:BP:85:SER:HB2	2:BP:190:ASN:HD21	1.67	0.58
2:B6:126:VAL:HG13	2:B6:171:VAL:HG21	1.85	0.58
2:Bd:126:VAL:HG13	2:Bd:171:VAL:HG21	1.85	0.58
2:Bi:85:SER:HB2	2:Bi:190:ASN:HD21	1.67	0.58
3:CL:42:ASN:HD22	3:CL:44:ILE:H	1.50	0.58
3:CM:42:ASN:HD22	3:CM:44:ILE:H	1.50	0.58
3:CZ:42:ASN:HD22	3:CZ:44:ILE:H	1.50	0.58
3:Cg:42:ASN:HD22	3:Cg:44:ILE:H	1.50	0.58
3:Cs:29:VAL:HG21	1:DE:159:PRO:CB	2.33	0.58
3:Ct:42:ASN:HD22	3:Ct:44:ILE:H	1.50	0.58
3:DA:42:ASN:HD22	3:DA:44:ILE:H	1.50	0.58
1:AC:5:GLY:HA3	1:AC:15:PRO:HD3	1.85	0.58
1:AG:159:PRO:HB2	3:CG:29:VAL:HG21	1.84	0.58
1:AM:159:PRO:HB2	3:CN:29:VAL:HG21	1.84	0.58
1:AS:159:PRO:CB	3:CT:29:VAL:HG21	2.33	0.58
1:AT:159:PRO:CB	3:CU:29:VAL:HG21	2.33	0.58
1:AV:159:PRO:CB	3:CW:29:VAL:HG21	2.33	0.58
1:AW:159:PRO:CB	3:CX:29:VAL:HG21	2.33	0.58
1:A3:5:GLY:HA3	1:A3:15:PRO:HD3	1.84	0.58
1:A5:159:PRO:HB2	3:C6:29:VAL:HG21	1.84	0.58
1:Ag:5:GLY:HA3	1:Ag:15:PRO:HD3	1.85	0.58
1:Ak:181:LYS:O	1:Ak:182:ALA:HB2	2.01	0.58
1:Am:5:GLY:HA3	1:Am:15:PRO:HD3	1.85	0.58
2:BI:85:SER:HB2	2:BI:190:ASN:HD21	1.67	0.58
2:BN:85:SER:HB2	2:BN:190:ASN:HD21	1.67	0.58
2:BO:85:SER:HB2	2:BO:190:ASN:HD21	1.67	0.58
2:B5:85:SER:HB2	2:B5:190:ASN:HD21	1.67	0.58
2:B8:85:SER:HB2	2:B8:190:ASN:HD21	1.67	0.58
2:B8:126:VAL:HG13	2:B8:171:VAL:HG21	1.85	0.58
3:CF:42:ASN:HD22	3:CF:44:ILE:H	1.50	0.58
3:C4:42:ASN:HD22	3:C4:44:ILE:H	1.50	0.58
3:Ch:42:ASN:HD22	3:Ch:44:ILE:H	1.50	0.58
3:Cp:42:ASN:HD22	3:Cp:44:ILE:H	1.50	0.58
1:AD:159:PRO:CB	3:CD:29:VAL:HG21	2.33	0.58
1:AE:181:LYS:O	1:AE:182:ALA:HB2	2.01	0.58
1:AN:159:PRO:HB2	3:CO:29:VAL:HG21	1.84	0.58
1:A2:159:PRO:HB2	3:C3:29:VAL:HG21	1.84	0.58
1:Ad:87:GLN:NE2	1:Ad:210:ARG:HH12	2.02	0.58
1:Ao:181:LYS:HE3	2:Bo:137:GLU:CB	2.31	0.58
2:BC:126:VAL:HG13	2:BC:171:VAL:HG21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:126:VAL:HG13	2:BQ:171:VAL:HG21	1.85	0.58
2:BY:126:VAL:HG13	2:BY:171:VAL:HG21	1.86	0.58
2:BZ:126:VAL:HG13	2:BZ:171:VAL:HG21	1.85	0.58
2:B3:126:VAL:HG13	2:B3:171:VAL:HG21	1.86	0.58
2:Bl:126:VAL:HG13	2:Bl:171:VAL:HG21	1.85	0.58
2:Bq:126:VAL:HG13	2:Bq:171:VAL:HG21	1.85	0.58
3:CY:42:ASN:HD22	3:CY:44:ILE:H	1.50	0.58
3:Cn:42:ASN:HD22	3:Cn:44:ILE:H	1.50	0.58
3:Cr:29:VAL:HG21	1:DD:159:PRO:HB2	1.84	0.58
1:AN:159:PRO:CB	3:CO:29:VAL:HG21	2.33	0.58
1:AO:5:GLY:HA3	1:AO:15:PRO:HD3	1.84	0.58
1:A1:5:GLY:HA3	1:A1:15:PRO:HD3	1.85	0.58
1:Ab:34:LEU:HD11	1:Ab:218:MET:HE3	1.86	0.58
1:An:87:GLN:NE2	1:An:210:ARG:HH12	2.02	0.58
2:BN:49:ASP:OD2	3:CM:161:SER:OG	2.22	0.58
2:BO:126:VAL:HG13	2:BO:171:VAL:HG21	1.86	0.58
2:Bh:85:SER:HB2	2:Bh:190:ASN:HD21	1.67	0.58
2:Bl:49:ASP:OD2	3:Cl:161:SER:OG	2.22	0.58
2:Bt:126:VAL:HG13	2:Bt:171:VAL:HG21	1.86	0.58
2:Bv:126:VAL:HG13	2:Bv:171:VAL:HG21	1.86	0.58
3:Cr:29:VAL:HG21	1:DD:159:PRO:CB	2.33	0.58
3:Cu:42:ASN:HD22	3:Cu:44:ILE:H	1.50	0.58
1:AC:87:GLN:NE2	1:AC:210:ARG:HH12	2.02	0.58
1:AD:159:PRO:HB2	3:CD:29:VAL:HG21	1.84	0.58
1:AL:159:PRO:HB2	3:CM:29:VAL:HG21	1.84	0.58
1:AO:159:PRO:HB2	3:CP:29:VAL:HG21	1.84	0.58
1:AO:163:MET:CE	1:AO:189:GLY:HA3	2.31	0.58
1:AQ:201:ALA:O	1:AQ:203:ASP:N	2.35	0.58
1:A5:87:GLN:NE2	1:A5:210:ARG:HH12	2.02	0.58
1:A6:159:PRO:CB	3:C7:29:VAL:HG21	2.33	0.58
1:Ab:159:PRO:HB2	3:Cc:29:VAL:HG21	1.84	0.58
1:Ak:159:PRO:CB	3:Cl:29:VAL:HG21	2.33	0.58
1:Ao:159:PRO:CB	3:Cp:29:VAL:HG21	2.33	0.58
2:BK:126:VAL:HG13	2:BK:171:VAL:HG21	1.86	0.58
2:BN:126:VAL:HG13	2:BN:171:VAL:HG21	1.85	0.58
2:Bg:126:VAL:HG13	2:Bg:171:VAL:HG21	1.86	0.58
2:Bk:126:VAL:HG13	2:Bk:171:VAL:HG21	1.85	0.58
2:Bn:49:ASP:OD2	3:Cr:161:SER:OG	2.22	0.58
2:Bq:134:HIS:O	2:Bq:136:HIS:N	2.36	0.58
3:Cm:42:ASN:HD22	3:Cm:44:ILE:H	1.51	0.58
1:DD:5:GLY:HA3	1:DD:15:PRO:HD3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:159:PRO:CB	3:CB:29:VAL:HG21	2.33	0.58
1:AG:34:LEU:HD11	1:AG:218:MET:HE3	1.86	0.58
1:AH:87:GLN:NE2	1:AH:210:ARG:HH12	2.02	0.58
1:AL:34:LEU:HD11	1:AL:218:MET:HE3	1.86	0.58
1:AT:87:GLN:NE2	1:AT:210:ARG:HH12	2.02	0.58
1:AU:87:GLN:NE2	1:AU:210:ARG:HH12	2.02	0.58
1:AY:87:GLN:NE2	1:AY:210:ARG:HH12	2.02	0.58
1:A3:159:PRO:HB2	3:C4:29:VAL:HG21	1.84	0.58
1:A7:87:GLN:NE2	1:A7:210:ARG:HH12	2.02	0.58
1:Ao:87:GLN:NE2	1:Ao:210:ARG:HH12	2.02	0.58
2:BC:85:SER:HB2	2:BC:190:ASN:HD21	1.67	0.58
2:BJ:126:VAL:HG13	2:BJ:171:VAL:HG21	1.86	0.58
2:BW:85:SER:HB2	2:BW:190:ASN:HD21	1.67	0.58
2:B2:126:VAL:HG13	2:B2:171:VAL:HG21	1.86	0.58
2:Br:126:VAL:HG13	2:Br:171:VAL:HG21	1.86	0.58
2:Bw:134:HIS:O	2:Bw:136:HIS:N	2.36	0.58
3:CH:42:ASN:HD22	3:CH:44:ILE:H	1.50	0.58
3:Cq:29:VAL:HG21	1:DC:159:PRO:CB	2.33	0.58
1:DC:5:GLY:HA3	1:DC:15:PRO:HD3	1.84	0.58
1:DG:5:GLY:HA3	1:DG:15:PRO:HD3	1.84	0.58
1:DH:87:GLN:NE2	1:DH:210:ARG:HH12	2.02	0.58
1:DJ:34:LEU:HD11	1:DJ:218:MET:HE3	1.86	0.58
1:AD:87:GLN:NE2	1:AD:210:ARG:HH12	2.02	0.58
1:AI:159:PRO:CB	3:CI:29:VAL:HG21	2.33	0.58
1:AW:34:LEU:HD11	1:AW:218:MET:HE3	1.86	0.58
1:A0:159:PRO:CB	3:C1:29:VAL:HG21	2.33	0.58
1:Aj:159:PRO:CB	3:Ck:29:VAL:HG21	2.33	0.58
1:Al:87:GLN:NE2	1:Al:210:ARG:HH12	2.02	0.58
1:Am:34:LEU:HD11	1:Am:218:MET:HE3	1.86	0.58
2:BR:49:ASP:OD2	3:CL:161:SER:OG	2.22	0.58
2:B0:49:ASP:OD2	3:CZ:161:SER:OG	2.22	0.58
2:B0:126:VAL:HG13	2:B0:171:VAL:HG21	1.86	0.58
2:B7:49:ASP:OD2	3:C5:161:SER:OG	2.22	0.58
2:Bf:126:VAL:HG13	2:Bf:171:VAL:HG21	1.86	0.58
3:CJ:29:VAL:HG21	1:DK:159:PRO:CB	2.33	0.58
3:Cq:29:VAL:HG21	1:DC:159:PRO:HB2	1.84	0.58
1:DH:5:GLY:HA3	1:DH:15:PRO:HD3	1.84	0.58
1:AE:87:GLN:NE2	1:AE:210:ARG:HH12	2.02	0.58
1:AM:87:GLN:NE2	1:AM:210:ARG:HH12	2.02	0.58
1:AO:87:GLN:NE2	1:AO:210:ARG:HH12	2.02	0.58
1:AO:159:PRO:CB	3:CP:29:VAL:HG21	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:87:GLN:NE2	1:AP:210:ARG:HH12	2.02	0.58
1:AY:159:PRO:CB	3:CZ:29:VAL:HG21	2.33	0.58
1:A1:181:LYS:O	1:A1:182:ALA:HB2	2.01	0.58
1:A8:87:GLN:NE2	1:A8:210:ARG:HH12	2.02	0.58
1:Af:34:LEU:HD11	1:Af:218:MET:HE3	1.86	0.58
2:BD:126:VAL:HG13	2:BD:171:VAL:HG21	1.85	0.58
2:B6:134:HIS:O	2:B6:136:HIS:N	2.36	0.58
2:Bc:49:ASP:OD2	3:DA:161:SER:OG	2.22	0.58
2:Be:114:VAL:HG22	2:Be:209:VAL:HG12	1.86	0.58
2:Bk:132:TYR:HB3	2:Bk:193:THR:CG2	2.34	0.58
2:Bo:114:VAL:HG22	2:Bo:209:VAL:HG12	1.86	0.58
2:Br:49:ASP:OD2	3:Cp:161:SER:OG	2.22	0.58
3:Cl:42:ASN:HD22	3:Cl:44:ILE:H	1.50	0.58
3:Cu:29:VAL:HG21	1:DG:159:PRO:CB	2.33	0.58
1:AD:5:GLY:HA3	1:AD:15:PRO:HD3	1.85	0.58
1:AH:5:GLY:HA3	1:AH:15:PRO:HD3	1.85	0.58
1:AH:34:LEU:HD11	1:AH:218:MET:HE3	1.86	0.58
1:AZ:87:GLN:NE2	1:AZ:210:ARG:HH12	2.02	0.58
1:A5:34:LEU:HD11	1:A5:218:MET:HE3	1.86	0.58
1:Ag:87:GLN:NE2	1:Ag:210:ARG:HH12	2.02	0.58
1:Ah:87:GLN:NE2	1:Ah:210:ARG:HH12	2.02	0.58
1:Ao:159:PRO:HB2	3:Cp:29:VAL:HG21	1.84	0.58
2:BA:49:ASP:OD2	3:CD:161:SER:OG	2.22	0.58
2:BB:49:ASP:OD2	3:CA:161:SER:OG	2.22	0.58
2:BC:49:ASP:OD2	3:CE:161:SER:OG	2.22	0.58
2:BF:134:HIS:O	2:BF:136:HIS:N	2.36	0.58
2:BG:126:VAL:HG13	2:BG:171:VAL:HG21	1.86	0.58
2:BI:49:ASP:OD2	3:CH:161:SER:OG	2.22	0.58
2:BL:85:SER:HB2	2:BL:190:ASN:HD21	1.67	0.58
2:BM:49:ASP:OD2	3:CO:161:SER:OG	2.22	0.58
2:BR:85:SER:HB2	2:BR:190:ASN:HD21	1.67	0.58
2:BP:126:VAL:HG13	2:BP:171:VAL:HG21	1.86	0.58
2:BV:85:SER:HB2	2:BV:190:ASN:HD21	1.67	0.58
2:BX:132:TYR:HB3	2:BX:193:THR:CG2	2.34	0.58
2:B2:132:TYR:HB3	2:B2:193:THR:CG2	2.34	0.58
2:B2:134:HIS:O	2:B2:136:HIS:N	2.36	0.58
2:B5:132:TYR:HB3	2:B5:193:THR:CG2	2.34	0.58
2:Bb:49:ASP:OD2	3:DB:161:SER:OG	2.22	0.58
2:Be:132:TYR:HB3	2:Be:193:THR:CG2	2.34	0.58
2:Bl:132:TYR:HB3	2:Bl:193:THR:CG2	2.34	0.58
2:Bs:126:VAL:HG13	2:Bs:171:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bv:85:SER:HB2	2:Bv:190:ASN:HD21	1.67	0.58
2:Bv:132:TYR:HB3	2:Bv:193:THR:CG2	2.34	0.58
3:CG:42:ASN:HD22	3:CG:44:ILE:H	1.50	0.58
3:Cj:42:ASN:HD22	3:Cj:44:ILE:H	1.50	0.58
3:Cv:29:VAL:HG21	1:DH:159:PRO:HB2	1.84	0.58
1:DC:34:LEU:HD11	1:DC:218:MET:HE3	1.86	0.58
1:DD:87:GLN:NE2	1:DD:210:ARG:HH12	2.02	0.58
1:DJ:87:GLN:NE2	1:DJ:210:ARG:HH12	2.02	0.58
1:AA:87:GLN:NE2	1:AA:210:ARG:HH12	2.02	0.58
1:AD:34:LEU:HD11	1:AD:218:MET:HE3	1.86	0.58
1:AF:34:LEU:HD11	1:AF:218:MET:HE3	1.86	0.58
1:AF:87:GLN:NE2	1:AF:210:ARG:HH12	2.02	0.58
1:AL:87:GLN:NE2	1:AL:210:ARG:HH12	2.02	0.58
1:AS:87:GLN:NE2	1:AS:210:ARG:HH12	2.02	0.58
1:AT:34:LEU:HD11	1:AT:218:MET:HE3	1.86	0.58
1:A1:87:GLN:NE2	1:A1:210:ARG:HH12	2.02	0.58
1:A2:34:LEU:HD11	1:A2:218:MET:HE3	1.86	0.58
1:A2:87:GLN:NE2	1:A2:210:ARG:HH12	2.02	0.58
2:BG:85:SER:HB2	2:BG:190:ASN:HD21	1.67	0.58
2:BI:97:VAL:O	2:BI:101:HIS:HD2	1.87	0.58
2:BN:132:TYR:HB3	2:BN:193:THR:CG2	2.34	0.58
2:BS:126:VAL:HG13	2:BS:171:VAL:HG21	1.86	0.58
2:BP:97:VAL:O	2:BP:101:HIS:HD2	1.87	0.58
2:BQ:97:VAL:O	2:BQ:101:HIS:HD2	1.87	0.58
2:BU:97:VAL:O	2:BU:101:HIS:HD2	1.87	0.58
2:BV:49:ASP:OD2	3:CU:161:SER:OG	2.22	0.58
2:BW:134:HIS:O	2:BW:136:HIS:N	2.36	0.58
2:BY:97:VAL:O	2:BY:101:HIS:HD2	1.87	0.58
2:B0:85:SER:HB2	2:B0:190:ASN:HD21	1.68	0.58
2:B1:132:TYR:HB3	2:B1:193:THR:CG2	2.34	0.58
2:B2:97:VAL:O	2:B2:101:HIS:HD2	1.87	0.58
2:B5:49:ASP:OD2	3:C8:161:SER:OG	2.22	0.58
2:B8:49:ASP:OD2	3:Cc:161:SER:OG	2.22	0.58
2:Ba:132:TYR:HB3	2:Ba:193:THR:CG2	2.34	0.58
2:Bc:97:VAL:O	2:Bc:101:HIS:HD2	1.87	0.58
2:Bf:97:VAL:O	2:Bf:101:HIS:HD2	1.87	0.58
2:Bj:132:TYR:HB3	2:Bj:193:THR:CG2	2.34	0.58
2:Bk:97:VAL:O	2:Bk:101:HIS:HD2	1.87	0.58
2:Bm:97:VAL:O	2:Bm:101:HIS:HD2	1.87	0.58
2:Bo:126:VAL:HG13	2:Bo:171:VAL:HG21	1.85	0.58
2:Bs:114:VAL:HG22	2:Bs:209:VAL:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:42:ASN:HD22	3:CI:44:ILE:H	1.51	0.58
3:CS:42:ASN:HD22	3:CS:44:ILE:H	1.50	0.58
1:AI:87:GLN:NE2	1:AI:210:ARG:HH12	2.02	0.57
1:AM:34:LEU:HD11	1:AM:218:MET:HE3	1.86	0.57
1:AR:34:LEU:HD11	1:AR:218:MET:HE3	1.86	0.57
1:AR:87:GLN:NE2	1:AR:210:ARG:HH12	2.02	0.57
1:AX:87:GLN:NE2	1:AX:210:ARG:HH12	2.02	0.57
1:AY:34:LEU:HD11	1:AY:218:MET:HE3	1.86	0.57
1:AZ:181:LYS:O	1:AZ:182:ALA:HB2	2.02	0.57
1:A3:87:GLN:NE2	1:A3:210:ARG:HH12	2.02	0.57
1:Ag:34:LEU:HD11	1:Ag:218:MET:HE3	1.86	0.57
1:Ak:87:GLN:NE2	1:Ak:210:ARG:HH12	2.02	0.57
2:BI:126:VAL:HG13	2:BI:171:VAL:HG21	1.85	0.57
2:BP:49:ASP:OD2	3:CT:161:SER:OG	2.22	0.57
2:BU:49:ASP:OD2	3:CX:161:SER:OG	2.22	0.57
2:BZ:97:VAL:O	2:BZ:101:HIS:HD2	1.87	0.57
2:BZ:132:TYR:HB3	2:BZ:193:THR:CG2	2.34	0.57
2:B0:132:TYR:HB3	2:B0:193:THR:CG2	2.34	0.57
2:B4:97:VAL:O	2:B4:101:HIS:HD2	1.87	0.57
2:B4:132:TYR:HB3	2:B4:193:THR:CG2	2.34	0.57
2:B5:126:VAL:HG13	2:B5:171:VAL:HG21	1.85	0.57
2:B6:132:TYR:HB3	2:B6:193:THR:CG2	2.34	0.57
2:B7:97:VAL:O	2:B7:101:HIS:HD2	1.87	0.57
2:B7:132:TYR:HB3	2:B7:193:THR:CG2	2.34	0.57
2:Bh:49:ASP:OD2	3:Cf:161:SER:OG	2.22	0.57
2:Bi:49:ASP:OD2	3:Cm:161:SER:OG	2.22	0.57
2:Bi:126:VAL:HG13	2:Bi:171:VAL:HG21	1.86	0.57
2:Bj:97:VAL:O	2:Bj:101:HIS:HD2	1.87	0.57
2:Bn:126:VAL:HG13	2:Bn:171:VAL:HG21	1.85	0.57
2:Bn:132:TYR:HB3	2:Bn:193:THR:CG2	2.34	0.57
2:Bq:97:VAL:O	2:Bq:101:HIS:HD2	1.87	0.57
2:Bs:85:SER:HB2	2:Bs:190:ASN:HD21	1.67	0.57
2:Bs:132:TYR:HB3	2:Bs:193:THR:CG2	2.34	0.57
2:Bw:126:VAL:HG13	2:Bw:171:VAL:HG21	1.86	0.57
3:CO:42:ASN:HD22	3:CO:44:ILE:H	1.50	0.57
3:CT:42:ASN:HD22	3:CT:44:ILE:H	1.50	0.57
3:C3:42:ASN:HD22	3:C3:44:ILE:H	1.50	0.57
3:Cc:42:ASN:HD22	3:Cc:44:ILE:H	1.50	0.57
1:DK:34:LEU:HD11	1:DK:218:MET:HE3	1.86	0.57
1:AA:34:LEU:HD11	1:AA:218:MET:HE3	1.86	0.57
1:AL:87:GLN:NE2	1:AL:210:ARG:HH22	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:87:GLN:NE2	1:AN:210:ARG:HH12	2.02	0.57
1:AU:87:GLN:NE2	1:AU:210:ARG:HH22	2.02	0.57
1:AV:34:LEU:HD11	1:AV:218:MET:HE3	1.86	0.57
1:AW:87:GLN:NE2	1:AW:210:ARG:HH12	2.02	0.57
1:A2:87:GLN:NE2	1:A2:210:ARG:HH22	2.03	0.57
1:A3:87:GLN:NE2	1:A3:210:ARG:HH22	2.03	0.57
1:A7:34:LEU:HD11	1:A7:218:MET:HE3	1.86	0.57
1:Ad:87:GLN:NE2	1:Ad:210:ARG:HH22	2.02	0.57
2:BF:97:VAL:O	2:BF:101:HIS:HD2	1.87	0.57
2:BG:114:VAL:HG22	2:BG:209:VAL:HG12	1.86	0.57
2:BG:132:TYR:HB3	2:BG:193:THR:CG2	2.34	0.57
2:BJ:97:VAL:O	2:BJ:101:HIS:HD2	1.87	0.57
2:BK:114:VAL:HG22	2:BK:209:VAL:HG12	1.86	0.57
2:BM:134:HIS:O	2:BM:136:HIS:N	2.36	0.57
2:BQ:114:VAL:HG22	2:BQ:209:VAL:HG12	1.86	0.57
2:BT:114:VAL:HG22	2:BT:209:VAL:HG12	1.86	0.57
2:BV:97:VAL:O	2:BV:101:HIS:HD2	1.87	0.57
2:BV:126:VAL:HG13	2:BV:171:VAL:HG21	1.86	0.57
2:B1:97:VAL:O	2:B1:101:HIS:HD2	1.87	0.57
2:B3:132:TYR:HB3	2:B3:193:THR:CG2	2.34	0.57
2:B4:49:ASP:OD2	3:C7:161:SER:OG	2.22	0.57
2:B9:114:VAL:HG22	2:B9:209:VAL:HG12	1.86	0.57
2:Ba:97:VAL:O	2:Ba:101:HIS:HD2	1.87	0.57
2:Bb:97:VAL:O	2:Bb:101:HIS:HD2	1.87	0.57
2:Bb:132:TYR:HB3	2:Bb:193:THR:CG2	2.34	0.57
2:Bd:114:VAL:HG22	2:Bd:209:VAL:HG12	1.86	0.57
2:Bg:114:VAL:HG22	2:Bg:209:VAL:HG12	1.86	0.57
2:Bj:49:ASP:OD2	3:Cj:161:SER:OG	2.22	0.57
2:Bm:126:VAL:HG13	2:Bm:171:VAL:HG21	1.86	0.57
2:Bm:132:TYR:HB3	2:Bm:193:THR:CG2	2.34	0.57
2:Bo:132:TYR:HB3	2:Bo:193:THR:CG2	2.34	0.57
2:Bw:49:ASP:OD2	3:Cu:161:SER:OG	2.22	0.57
3:CC:44:ILE:O	3:CC:48:LYS:HG3	2.05	0.57
3:CO:44:ILE:O	3:CO:48:LYS:HG3	2.05	0.57
3:CR:42:ASN:HD22	3:CR:44:ILE:H	1.50	0.57
3:CW:42:ASN:HD22	3:CW:44:ILE:H	1.50	0.57
3:Ce:44:ILE:O	3:Ce:48:LYS:HG3	2.05	0.57
3:Ci:42:ASN:HD22	3:Ci:44:ILE:H	1.50	0.57
3:Cv:42:ASN:HD22	3:Cv:44:ILE:H	1.50	0.57
3:Cw:42:ASN:HD22	3:Cw:44:ILE:H	1.50	0.57
3:DB:44:ILE:O	3:DB:48:LYS:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:34:LEU:HD11	1:DD:218:MET:HE3	1.86	0.57
1:DE:87:GLN:NE2	1:DE:210:ARG:HH12	2.02	0.57
1:AC:34:LEU:HD11	1:AC:218:MET:HE3	1.86	0.57
1:AD:87:GLN:NE2	1:AD:210:ARG:HH22	2.02	0.57
1:AG:87:GLN:NE2	1:AG:210:ARG:HH12	2.02	0.57
1:AP:34:LEU:HD11	1:AP:218:MET:HE3	1.86	0.57
1:AV:87:GLN:NE2	1:AV:210:ARG:HH12	2.02	0.57
1:AW:159:PRO:HB2	3:CX:29:VAL:HG21	1.84	0.57
1:A1:34:LEU:HD11	1:A1:218:MET:HE3	1.86	0.57
1:A3:34:LEU:HD11	1:A3:218:MET:HE3	1.86	0.57
1:A4:87:GLN:NE2	1:A4:210:ARG:HH22	2.03	0.57
1:A9:87:GLN:NE2	1:A9:210:ARG:HH12	2.02	0.57
1:Ai:34:LEU:HD11	1:Ai:218:MET:HE3	1.86	0.57
2:BH:132:TYR:HB3	2:BH:193:THR:CG2	2.34	0.57
2:BL:97:VAL:O	2:BL:101:HIS:HD2	1.87	0.57
2:BS:97:VAL:O	2:BS:101:HIS:HD2	1.87	0.57
2:BT:132:TYR:HB3	2:BT:193:THR:CG2	2.34	0.57
2:B5:97:VAL:O	2:B5:101:HIS:HD2	1.87	0.57
2:B6:97:VAL:O	2:B6:101:HIS:HD2	1.87	0.57
2:B9:126:VAL:HG13	2:B9:171:VAL:HG21	1.86	0.57
2:Be:85:SER:HB2	2:Be:190:ASN:HD21	1.67	0.57
2:Bh:97:VAL:O	2:Bh:101:HIS:HD2	1.87	0.57
2:Bt:132:TYR:HB3	2:Bt:193:THR:CG2	2.34	0.57
2:Bu:126:VAL:HG13	2:Bu:171:VAL:HG21	1.86	0.57
2:Bx:132:TYR:HB3	2:Bx:193:THR:CG2	2.34	0.57
3:CR:44:ILE:O	3:CR:48:LYS:HG3	2.05	0.57
3:C0:42:ASN:HD22	3:C0:44:ILE:H	1.51	0.57
3:C6:42:ASN:HD22	3:C6:44:ILE:H	1.50	0.57
3:Cf:42:ASN:HD22	3:Cf:44:ILE:H	1.50	0.57
1:DC:87:GLN:NE2	1:DC:210:ARG:HH12	2.02	0.57
1:DG:87:GLN:NE2	1:DG:210:ARG:HH12	2.02	0.57
1:DI:87:GLN:NE2	1:DI:210:ARG:HH12	2.02	0.57
1:AC:87:GLN:NE2	1:AC:210:ARG:HH22	2.02	0.57
1:AM:87:GLN:NE2	1:AM:210:ARG:HH22	2.02	0.57
1:AN:34:LEU:HD11	1:AN:218:MET:HE3	1.86	0.57
1:AV:87:GLN:NE2	1:AV:210:ARG:HH22	2.02	0.57
1:A6:87:GLN:NE2	1:A6:210:ARG:HH12	2.02	0.57
1:A8:34:LEU:HD11	1:A8:218:MET:HE3	1.86	0.57
1:Ae:34:LEU:HD11	1:Ae:218:MET:HE3	1.86	0.57
1:Ae:87:GLN:NE2	1:Ae:210:ARG:HH12	2.02	0.57
2:BA:97:VAL:O	2:BA:101:HIS:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:134:HIS:O	2:BA:136:HIS:N	2.36	0.57
2:BB:97:VAL:O	2:BB:101:HIS:HD2	1.87	0.57
2:BB:132:TYR:HB3	2:BB:193:THR:CG2	2.34	0.57
2:BH:134:HIS:O	2:BH:136:HIS:N	2.36	0.57
2:BJ:85:SER:HB2	2:BJ:190:ASN:HD21	1.67	0.57
2:BJ:132:TYR:HB3	2:BJ:193:THR:CG2	2.34	0.57
2:BR:132:TYR:HB3	2:BR:193:THR:CG2	2.34	0.57
2:BQ:49:ASP:OD2	3:CR:161:SER:OG	2.22	0.57
2:BQ:132:TYR:HB3	2:BQ:193:THR:CG2	2.34	0.57
2:Bc:85:SER:HB2	2:Bc:190:ASN:HD21	1.68	0.57
2:Bk:134:HIS:O	2:Bk:136:HIS:N	2.36	0.57
2:Bo:97:VAL:O	2:Bo:101:HIS:HD2	1.87	0.57
2:Bu:49:ASP:OD2	3:Cx:161:SER:OG	2.22	0.57
3:CH:44:ILE:O	3:CH:48:LYS:HG3	2.04	0.57
3:CW:44:ILE:O	3:CW:48:LYS:HG3	2.04	0.57
1:DG:87:GLN:NE2	1:DG:210:ARG:HH22	2.03	0.57
1:DI:34:LEU:HD11	1:DI:218:MET:HE3	1.86	0.57
1:AF:87:GLN:NE2	1:AF:210:ARG:HH22	2.03	0.57
1:AQ:87:GLN:NE2	1:AQ:210:ARG:HH22	2.03	0.57
1:A4:87:GLN:NE2	1:A4:210:ARG:HH12	2.02	0.57
1:Ah:87:GLN:NE2	1:Ah:210:ARG:HH22	2.03	0.57
1:Aj:87:GLN:NE2	1:Aj:210:ARG:HH22	2.02	0.57
1:Al:5:GLY:HA3	1:Al:15:PRO:HD3	1.85	0.57
2:BC:97:VAL:O	2:BC:101:HIS:HD2	1.87	0.57
2:BE:114:VAL:HG22	2:BE:209:VAL:HG12	1.86	0.57
2:BF:49:ASP:OD2	3:CI:161:SER:OG	2.22	0.57
2:BG:134:HIS:O	2:BG:136:HIS:N	2.36	0.57
2:BH:114:VAL:HG22	2:BH:209:VAL:HG12	1.86	0.57
2:BK:49:ASP:OD2	3:CN:161:SER:OG	2.22	0.57
2:BN:97:VAL:O	2:BN:101:HIS:HD2	1.87	0.57
2:BO:97:VAL:O	2:BO:101:HIS:HD2	1.87	0.57
2:BS:114:VAL:HG22	2:BS:209:VAL:HG12	1.86	0.57
2:BU:126:VAL:HG13	2:BU:171:VAL:HG21	1.86	0.57
2:BX:126:VAL:HG13	2:BX:171:VAL:HG21	1.86	0.57
2:BY:49:ASP:OD2	3:CV:161:SER:OG	2.22	0.57
2:B1:49:ASP:OD2	3:C3:161:SER:OG	2.22	0.57
2:Bb:126:VAL:HG13	2:Bb:171:VAL:HG21	1.85	0.57
2:Bg:132:TYR:HB3	2:Bg:193:THR:CG2	2.34	0.57
2:Bi:97:VAL:O	2:Bi:101:HIS:HD2	1.87	0.57
2:Bl:114:VAL:HG22	2:Bl:209:VAL:HG12	1.86	0.57
2:Bm:49:ASP:OD2	3:Ck:161:SER:OG	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bo:54:LEU:HD21	2:Bo:97:VAL:HG11	1.87	0.57
2:Bp:126:VAL:HG13	2:Bp:171:VAL:HG21	1.85	0.57
2:Bq:49:ASP:OD2	3:Cq:161:SER:OG	2.22	0.57
2:Bu:97:VAL:O	2:Bu:101:HIS:HD2	1.87	0.57
2:Bx:126:VAL:HG13	2:Bx:171:VAL:HG21	1.86	0.57
3:CB:44:ILE:O	3:CB:48:LYS:HG3	2.05	0.57
3:CJ:44:ILE:O	3:CJ:48:LYS:HG3	2.05	0.57
3:Cc:44:ILE:O	3:Cc:48:LYS:HG3	2.04	0.57
1:AI:34:LEU:HD11	1:AI:218:MET:HE3	1.86	0.57
1:AQ:87:GLN:NE2	1:AQ:210:ARG:HH12	2.02	0.57
1:AT:87:GLN:NE2	1:AT:210:ARG:HH22	2.03	0.57
1:AX:34:LEU:HD11	1:AX:218:MET:HE3	1.86	0.57
1:A1:87:GLN:NE2	1:A1:210:ARG:HH22	2.02	0.57
1:Aa:87:GLN:NE2	1:Aa:210:ARG:HH12	2.02	0.57
1:Am:87:GLN:NE2	1:Am:210:ARG:HH22	2.03	0.57
2:BA:132:TYR:HB3	2:BA:193:THR:CG2	2.34	0.57
2:BB:114:VAL:HG22	2:BB:209:VAL:HG12	1.86	0.57
2:BD:132:TYR:HB3	2:BD:193:THR:CG2	2.34	0.57
2:BE:132:TYR:HB3	2:BE:193:THR:CG2	2.34	0.57
2:BF:126:VAL:HG13	2:BF:171:VAL:HG21	1.86	0.57
2:BJ:114:VAL:HG22	2:BJ:209:VAL:HG12	1.86	0.57
2:BL:54:LEU:HD21	2:BL:97:VAL:HG11	1.87	0.57
2:BM:54:LEU:HD21	2:BM:97:VAL:HG11	1.87	0.57
2:BM:97:VAL:O	2:BM:101:HIS:HD2	1.87	0.57
2:BM:132:TYR:HB3	2:BM:193:THR:CG2	2.34	0.57
2:BS:49:ASP:OD2	3:CP:161:SER:OG	2.22	0.57
2:BQ:54:LEU:HD21	2:BQ:97:VAL:HG11	1.87	0.57
2:BY:134:HIS:O	2:BY:136:HIS:N	2.36	0.57
2:BZ:54:LEU:HD21	2:BZ:97:VAL:HG11	1.87	0.57
2:B9:49:ASP:OD2	3:C9:161:SER:OG	2.22	0.57
2:Bc:126:VAL:HG13	2:Bc:171:VAL:HG21	1.85	0.57
2:Bd:49:ASP:OD2	3:Ch:161:SER:OG	2.22	0.57
2:Bf:54:LEU:HD21	2:Bf:97:VAL:HG11	1.87	0.57
2:Bf:132:TYR:HB3	2:Bf:193:THR:CG2	2.34	0.57
2:Bf:134:HIS:O	2:Bf:136:HIS:N	2.36	0.57
2:Bg:134:HIS:O	2:Bg:136:HIS:N	2.36	0.57
2:Bj:54:LEU:HD21	2:Bj:97:VAL:HG11	1.87	0.57
2:Bk:54:LEU:HD21	2:Bk:97:VAL:HG11	1.87	0.57
2:Bq:132:TYR:HB3	2:Bq:193:THR:CG2	2.34	0.57
2:Br:97:VAL:O	2:Br:101:HIS:HD2	1.87	0.57
2:Bw:132:TYR:HB3	2:Bw:193:THR:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bx:97:VAL:O	2:Bx:101:HIS:HD2	1.87	0.57
3:CM:44:ILE:O	3:CM:48:LYS:HG3	2.05	0.57
3:Co:44:ILE:O	3:Co:48:LYS:HG3	2.04	0.57
3:Cs:44:ILE:O	3:Cs:48:LYS:HG3	2.04	0.57
1:AZ:5:GLY:HA3	1:AZ:15:PRO:HD3	1.85	0.57
1:Ag:87:GLN:NE2	1:Ag:210:ARG:HH22	2.03	0.57
2:BE:49:ASP:OD2	3:CB:161:SER:OG	2.22	0.57
2:BF:114:VAL:HG22	2:BF:209:VAL:HG12	1.86	0.57
2:BF:132:TYR:HB3	2:BF:193:THR:CG2	2.34	0.57
2:BK:97:VAL:O	2:BK:101:HIS:HD2	1.87	0.57
2:BL:134:HIS:O	2:BL:136:HIS:N	2.36	0.57
2:BS:132:TYR:HB3	2:BS:193:THR:CG2	2.34	0.57
2:BU:132:TYR:HB3	2:BU:193:THR:CG2	2.34	0.57
2:BX:49:ASP:OD2	3:CW:161:SER:OG	2.22	0.57
2:B0:114:VAL:HG22	2:B0:209:VAL:HG12	1.86	0.57
2:B3:49:ASP:OD2	3:C0:161:SER:OG	2.22	0.57
2:B6:49:ASP:OD2	3:C6:161:SER:OG	2.22	0.57
2:B9:97:VAL:O	2:B9:101:HIS:HD2	1.87	0.57
2:Bb:54:LEU:HD21	2:Bb:97:VAL:HG11	1.87	0.57
2:Bc:132:TYR:HB3	2:Bc:193:THR:CG2	2.34	0.57
2:Bd:132:TYR:HB3	2:Bd:193:THR:CG2	2.34	0.57
2:Bg:49:ASP:OD2	3:Cg:161:SER:OG	2.22	0.57
2:Bk:49:ASP:OD2	3:Cn:161:SER:OG	2.22	0.57
2:Bp:49:ASP:OD2	3:Cs:161:SER:OG	2.22	0.57
2:Bx:49:ASP:OD2	3:C4:161:SER:OG	2.22	0.57
2:Bx:54:LEU:HD21	2:Bx:97:VAL:HG11	1.87	0.57
3:CA:44:ILE:O	3:CA:48:LYS:HG3	2.05	0.57
3:CP:44:ILE:O	3:CP:48:LYS:HG3	2.05	0.57
3:CX:44:ILE:O	3:CX:48:LYS:HG3	2.04	0.57
3:C5:44:ILE:O	3:C5:48:LYS:HG3	2.04	0.57
3:C6:44:ILE:O	3:C6:48:LYS:HG3	2.04	0.57
3:Cf:44:ILE:O	3:Cf:48:LYS:HG3	2.05	0.57
3:Ci:44:ILE:O	3:Ci:48:LYS:HG3	2.04	0.57
3:Cm:44:ILE:O	3:Cm:48:LYS:HG3	2.05	0.57
3:Cp:44:ILE:O	3:Cp:48:LYS:HG3	2.05	0.57
3:Cq:44:ILE:O	3:Cq:48:LYS:HG3	2.05	0.57
3:Cr:44:ILE:O	3:Cr:48:LYS:HG3	2.05	0.57
3:Cw:44:ILE:O	3:Cw:48:LYS:HG3	2.04	0.57
1:AK:87:GLN:NE2	1:AK:210:ARG:HH12	2.02	0.57
1:AX:87:GLN:NE2	1:AX:210:ARG:HH22	2.03	0.57
1:AZ:34:LEU:HD11	1:AZ:218:MET:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:5:GLY:HA3	1:A6:15:PRO:HD3	1.84	0.57
1:A9:34:LEU:HD11	1:A9:218:MET:HE3	1.86	0.57
1:Ab:87:GLN:NE2	1:Ab:210:ARG:HH12	2.02	0.57
1:Ac:87:GLN:NE2	1:Ac:210:ARG:HH22	2.03	0.57
1:Af:87:GLN:NE2	1:Af:210:ARG:HH22	2.02	0.57
2:BF:54:LEU:HD21	2:BF:97:VAL:HG11	1.87	0.57
2:BK:132:TYR:HB3	2:BK:193:THR:CG2	2.34	0.57
2:BM:126:VAL:HG13	2:BM:171:VAL:HG21	1.85	0.57
2:BR:97:VAL:O	2:BR:101:HIS:HD2	1.87	0.57
2:BU:54:LEU:HD21	2:BU:97:VAL:HG11	1.87	0.57
2:BU:134:HIS:O	2:BU:136:HIS:N	2.37	0.57
2:BW:54:LEU:HD21	2:BW:97:VAL:HG11	1.87	0.57
2:B0:134:HIS:O	2:B0:136:HIS:N	2.36	0.57
2:B9:132:TYR:HB3	2:B9:193:THR:CG2	2.34	0.57
2:Bi:132:TYR:HB3	2:Bi:193:THR:CG2	2.34	0.57
2:Bp:132:TYR:HB3	2:Bp:193:THR:CG2	2.34	0.57
2:Br:132:TYR:HB3	2:Br:193:THR:CG2	2.34	0.57
2:Bt:49:ASP:OD2	3:Ct:161:SER:OG	2.22	0.57
2:Bt:97:VAL:O	2:Bt:101:HIS:HD2	1.87	0.57
2:Bw:54:LEU:HD21	2:Bw:97:VAL:HG11	1.87	0.57
3:CL:44:ILE:O	3:CL:48:LYS:HG3	2.05	0.57
3:C0:44:ILE:O	3:C0:48:LYS:HG3	2.05	0.57
3:Cd:44:ILE:O	3:Cd:48:LYS:HG3	2.04	0.57
3:Ch:44:ILE:O	3:Ch:48:LYS:HG3	2.05	0.57
1:DI:87:GLN:NE2	1:DI:210:ARG:HH22	2.02	0.57
1:AJ:87:GLN:NE2	1:AJ:210:ARG:HH22	2.02	0.57
1:AJ:87:GLN:NE2	1:AJ:210:ARG:HH12	2.02	0.57
1:Af:87:GLN:NE2	1:Af:210:ARG:HH12	2.02	0.57
1:Ak:34:LEU:HD11	1:Ak:218:MET:HE3	1.86	0.57
1:Am:87:GLN:NE2	1:Am:210:ARG:HH12	2.02	0.57
1:Ao:34:LEU:HD11	1:Ao:218:MET:HE3	1.86	0.57
2:BB:54:LEU:HD21	2:BB:97:VAL:HG11	1.87	0.57
2:BD:49:ASP:OD2	3:CC:161:SER:OG	2.22	0.57
2:BG:54:LEU:HD21	2:BG:97:VAL:HG11	1.87	0.57
2:BH:126:VAL:HG13	2:BH:171:VAL:HG21	1.86	0.57
2:BJ:49:ASP:OD2	3:CG:161:SER:OG	2.22	0.57
2:BN:134:HIS:O	2:BN:136:HIS:N	2.36	0.57
2:BS:54:LEU:HD21	2:BS:97:VAL:HG11	1.87	0.57
2:BT:126:VAL:HG13	2:BT:171:VAL:HG21	1.86	0.57
2:BV:132:TYR:HB3	2:BV:193:THR:CG2	2.34	0.57
2:BV:134:HIS:O	2:BV:136:HIS:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BY:132:TYR:HB3	2:BY:193:THR:CG2	2.34	0.57
2:B5:54:LEU:HD21	2:B5:97:VAL:HG11	1.87	0.57
2:B6:114:VAL:HG22	2:B6:209:VAL:HG12	1.86	0.57
2:B7:126:VAL:HG13	2:B7:171:VAL:HG21	1.86	0.57
2:B8:132:TYR:HB3	2:B8:193:THR:CG2	2.34	0.57
2:Ba:49:ASP:OD2	3:Cd:161:SER:OG	2.22	0.57
2:Bc:54:LEU:HD21	2:Bc:97:VAL:HG11	1.87	0.57
2:Bj:126:VAL:HG13	2:Bj:171:VAL:HG21	1.85	0.57
2:Bl:97:VAL:O	2:Bl:101:HIS:HD2	1.87	0.57
2:Bn:97:VAL:O	2:Bn:101:HIS:HD2	1.87	0.57
2:Bv:97:VAL:O	2:Bv:101:HIS:HD2	1.87	0.57
3:Cn:44:ILE:O	3:Cn:48:LYS:HG3	2.04	0.57
1:DF:87:GLN:NE2	1:DF:210:ARG:HH12	2.02	0.57
1:AA:87:GLN:NE2	1:AA:210:ARG:HH22	2.03	0.57
1:AQ:34:LEU:HD11	1:AQ:218:MET:HE3	1.86	0.57
1:A7:87:GLN:NE2	1:A7:210:ARG:HH22	2.03	0.57
1:Aa:34:LEU:HD11	1:Aa:218:MET:HE3	1.86	0.57
1:Ac:34:LEU:HD11	1:Ac:218:MET:HE3	1.86	0.57
1:Ai:87:GLN:NE2	1:Ai:210:ARG:HH12	2.02	0.57
2:BA:114:VAL:HG22	2:BA:209:VAL:HG12	1.86	0.57
2:BC:134:HIS:O	2:BC:136:HIS:N	2.36	0.57
2:BE:126:VAL:HG13	2:BE:171:VAL:HG21	1.86	0.57
2:BH:49:ASP:OD2	3:CJ:161:SER:OG	2.22	0.57
2:BJ:54:LEU:HD21	2:BJ:97:VAL:HG11	1.87	0.57
2:BR:114:VAL:HG22	2:BR:209:VAL:HG12	1.86	0.57
2:BP:54:LEU:HD21	2:BP:97:VAL:HG11	1.87	0.57
2:BT:49:ASP:OD2	3:CQ:161:SER:OG	2.22	0.57
2:BW:132:TYR:HB3	2:BW:193:THR:CG2	2.34	0.57
2:BX:54:LEU:HD21	2:BX:97:VAL:HG11	1.87	0.57
2:BZ:49:ASP:OD2	3:C2:161:SER:OG	2.22	0.57
2:B4:114:VAL:HG22	2:B4:209:VAL:HG12	1.86	0.57
2:B6:54:LEU:HD21	2:B6:97:VAL:HG11	1.87	0.57
2:Ba:114:VAL:HG22	2:Ba:209:VAL:HG12	1.86	0.57
2:Bd:54:LEU:HD21	2:Bd:97:VAL:HG11	1.87	0.57
2:Bd:97:VAL:O	2:Bd:101:HIS:HD2	1.87	0.57
2:Be:126:VAL:HG13	2:Be:171:VAL:HG21	1.85	0.57
2:Bf:49:ASP:OD2	3:Ci:161:SER:OG	2.22	0.57
2:Bs:54:LEU:HD21	2:Bs:97:VAL:HG11	1.87	0.57
2:Bv:54:LEU:HD21	2:Bv:97:VAL:HG11	1.87	0.57
3:CF:44:ILE:O	3:CF:48:LYS:HG3	2.05	0.57
3:CY:44:ILE:O	3:CY:48:LYS:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:44:ILE:O	3:C7:48:LYS:HG3	2.04	0.57
1:DC:87:GLN:NE2	1:DC:210:ARG:HH22	2.02	0.57
1:DE:34:LEU:HD11	1:DE:218:MET:HE3	1.86	0.57
1:DF:34:LEU:HD11	1:DF:218:MET:HE3	1.86	0.57
1:DK:87:GLN:NE2	1:DK:210:ARG:HH12	2.02	0.57
1:DK:87:GLN:NE2	1:DK:210:ARG:HH22	2.03	0.57
1:AB:87:GLN:NE2	1:AB:210:ARG:HH12	2.02	0.56
1:AK:34:LEU:HD11	1:AK:218:MET:HE3	1.86	0.56
1:AR:87:GLN:NE2	1:AR:210:ARG:HH22	2.02	0.56
1:A0:87:GLN:NE2	1:A0:210:ARG:HH12	2.02	0.56
1:Ah:34:LEU:HD11	1:Ah:218:MET:HE3	1.86	0.56
2:BC:132:TYR:HB3	2:BC:193:THR:CG2	2.34	0.56
2:BI:114:VAL:HG22	2:BI:209:VAL:HG12	1.86	0.56
2:BI:132:TYR:HB3	2:BI:193:THR:CG2	2.34	0.56
2:BL:126:VAL:HG13	2:BL:171:VAL:HG21	1.86	0.56
2:BR:126:VAL:HG13	2:BR:171:VAL:HG21	1.86	0.56
2:BW:49:ASP:OD2	3:CY:161:SER:OG	2.22	0.56
2:BW:97:VAL:O	2:BW:101:HIS:HD2	1.87	0.56
2:BX:134:HIS:O	2:BX:136:HIS:N	2.36	0.56
2:B2:49:ASP:OD2	3:C1:161:SER:OG	2.22	0.56
2:B8:97:VAL:O	2:B8:101:HIS:HD2	1.87	0.56
2:Bc:134:HIS:O	2:Bc:136:HIS:N	2.36	0.56
2:Bd:134:HIS:O	2:Bd:136:HIS:N	2.36	0.56
2:Be:97:VAL:O	2:Be:101:HIS:HD2	1.87	0.56
2:Bh:114:VAL:HG22	2:Bh:209:VAL:HG12	1.86	0.56
2:Bh:126:VAL:HG13	2:Bh:171:VAL:HG21	1.86	0.56
2:Bj:114:VAL:HG22	2:Bj:209:VAL:HG12	1.86	0.56
2:Bq:114:VAL:HG22	2:Bq:209:VAL:HG12	1.86	0.56
2:Bu:114:VAL:HG22	2:Bu:209:VAL:HG12	1.86	0.56
2:Bu:134:HIS:O	2:Bu:136:HIS:N	2.36	0.56
2:Bw:97:VAL:O	2:Bw:101:HIS:HD2	1.87	0.56
3:Cj:44:ILE:O	3:Cj:48:LYS:HG3	2.04	0.56
3:Cl:44:ILE:O	3:Cl:48:LYS:HG3	2.04	0.56
1:AH:87:GLN:NE2	1:AH:210:ARG:HH22	2.03	0.56
1:AO:87:GLN:NE2	1:AO:210:ARG:HH22	2.03	0.56
1:AY:87:GLN:NE2	1:AY:210:ARG:HH22	2.03	0.56
1:Ad:34:LEU:HD11	1:Ad:218:MET:HE3	1.86	0.56
1:Aj:87:GLN:NE2	1:Aj:210:ARG:HH12	2.02	0.56
1:Al:34:LEU:HD11	1:Al:218:MET:HE3	1.86	0.56
1:Al:87:GLN:NE2	1:Al:210:ARG:HH22	2.03	0.56
1:An:34:LEU:HD11	1:An:218:MET:HE3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:113:GLN:HB2	2:BC:212:THR:HG22	1.88	0.56
2:BL:49:ASP:OD2	3:CK:161:SER:OG	2.22	0.56
2:BX:114:VAL:HG22	2:BX:209:VAL:HG12	1.86	0.56
2:BY:114:VAL:HG22	2:BY:209:VAL:HG12	1.86	0.56
2:B9:134:HIS:O	2:B9:136:HIS:N	2.36	0.56
2:Ba:126:VAL:HG13	2:Ba:171:VAL:HG21	1.86	0.56
2:Bv:49:ASP:OD2	3:Cv:161:SER:OG	2.22	0.56
2:Bw:50:PRO:HD3	1:DG:15:PRO:O	2.06	0.56
2:Bw:114:VAL:HG22	2:Bw:209:VAL:HG12	1.86	0.56
3:CQ:44:ILE:O	3:CQ:48:LYS:HG3	2.05	0.56
3:C2:44:ILE:O	3:C2:48:LYS:HG3	2.05	0.56
1:DD:87:GLN:NE2	1:DD:210:ARG:HH22	2.02	0.56
1:DH:34:LEU:HD11	1:DH:218:MET:HE3	1.86	0.56
1:AE:15:PRO:O	2:BC:50:PRO:HD3	2.06	0.56
1:AM:15:PRO:O	2:BK:50:PRO:HD3	2.06	0.56
1:AP:87:GLN:NE2	1:AP:210:ARG:HH22	2.03	0.56
1:AS:87:GLN:NE2	1:AS:210:ARG:HH22	2.02	0.56
1:A0:34:LEU:HD11	1:A0:218:MET:HE3	1.86	0.56
1:A3:15:PRO:O	2:Bx:50:PRO:HD3	2.06	0.56
1:Ac:87:GLN:NE2	1:Ac:210:ARG:HH12	2.02	0.56
1:Ae:15:PRO:O	2:Bh:50:PRO:HD3	2.06	0.56
1:Ak:87:GLN:NE2	1:Ak:210:ARG:HH22	2.03	0.56
1:Am:15:PRO:O	2:Bk:50:PRO:HD3	2.06	0.56
2:BC:54:LEU:HD21	2:BC:97:VAL:HG11	1.87	0.56
2:BG:49:ASP:OD2	3:CF:161:SER:OG	2.22	0.56
2:BG:97:VAL:O	2:BG:101:HIS:HD2	1.87	0.56
2:BH:97:VAL:O	2:BH:101:HIS:HD2	1.87	0.56
2:BN:54:LEU:HD21	2:BN:97:VAL:HG11	1.87	0.56
2:BR:113:GLN:HB2	2:BR:212:THR:HG22	1.88	0.56
2:BO:114:VAL:HG22	2:BO:209:VAL:HG12	1.86	0.56
2:BO:132:TYR:HB3	2:BO:193:THR:CG2	2.34	0.56
2:BT:97:VAL:O	2:BT:101:HIS:HD2	1.87	0.56
2:B1:54:LEU:HD21	2:B1:97:VAL:HG11	1.87	0.56
2:B1:126:VAL:HG13	2:B1:171:VAL:HG21	1.85	0.56
2:B3:97:VAL:O	2:B3:101:HIS:HD2	1.87	0.56
2:B8:54:LEU:HD21	2:B8:97:VAL:HG11	1.87	0.56
2:B8:114:VAL:HG22	2:B8:209:VAL:HG12	1.86	0.56
2:Be:49:ASP:OD2	3:Ce:161:SER:OG	2.22	0.56
2:Bl:134:HIS:O	2:Bl:136:HIS:N	2.36	0.56
2:Bn:114:VAL:HG22	2:Bn:209:VAL:HG12	1.86	0.56
2:Bo:49:ASP:OD2	3:Co:161:SER:OG	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:97:VAL:O	2:Bp:101:HIS:HD2	1.87	0.56
2:Bp:113:GLN:HB2	2:Bp:212:THR:HG22	1.88	0.56
2:Bp:134:HIS:O	2:Bp:136:HIS:N	2.36	0.56
2:Br:113:GLN:HB2	2:Br:212:THR:HG22	1.88	0.56
2:Bs:50:PRO:HD3	1:DI:15:PRO:O	2.06	0.56
2:Bu:85:SER:HB2	2:Bu:190:ASN:HD21	1.67	0.56
2:Bu:132:TYR:HB3	2:Bu:193:THR:CG2	2.34	0.56
2:Bx:134:HIS:O	2:Bx:136:HIS:N	2.36	0.56
3:CI:44:ILE:O	3:CI:48:LYS:HG3	2.04	0.56
3:CK:44:ILE:O	3:CK:48:LYS:HG3	2.05	0.56
3:CN:44:ILE:O	3:CN:48:LYS:HG3	2.05	0.56
3:CS:44:ILE:O	3:CS:48:LYS:HG3	2.04	0.56
3:CV:44:ILE:O	3:CV:48:LYS:HG3	2.05	0.56
3:CZ:44:ILE:O	3:CZ:48:LYS:HG3	2.05	0.56
3:C3:44:ILE:O	3:C3:48:LYS:HG3	2.04	0.56
3:C4:44:ILE:O	3:C4:48:LYS:HG3	2.04	0.56
3:C8:44:ILE:O	3:C8:48:LYS:HG3	2.05	0.56
3:Cu:44:ILE:O	3:Cu:48:LYS:HG3	2.05	0.56
3:Cv:44:ILE:O	3:Cv:48:LYS:HG3	2.04	0.56
1:DG:34:LEU:HD11	1:DG:218:MET:HE3	1.86	0.56
1:DJ:87:GLN:NE2	1:DJ:210:ARG:HH22	2.03	0.56
1:AC:15:PRO:O	2:BD:50:PRO:HD3	2.06	0.56
1:AE:34:LEU:HD11	1:AE:218:MET:HE3	1.86	0.56
1:AK:87:GLN:NE2	1:AK:210:ARG:HH22	2.03	0.56
1:AQ:15:PRO:O	2:BQ:50:PRO:HD3	2.06	0.56
1:AW:15:PRO:O	2:BU:50:PRO:HD3	2.06	0.56
1:A6:87:GLN:NE2	1:A6:210:ARG:HH22	2.03	0.56
1:Ag:15:PRO:O	2:Bd:50:PRO:HD3	2.06	0.56
1:Ai:87:GLN:NE2	1:Ai:210:ARG:HH22	2.02	0.56
2:BB:134:HIS:O	2:BB:136:HIS:N	2.36	0.56
2:BC:114:VAL:HG22	2:BC:209:VAL:HG12	1.86	0.56
2:BD:114:VAL:HG22	2:BD:209:VAL:HG12	1.86	0.56
2:BE:113:GLN:HB2	2:BE:212:THR:HG22	1.88	0.56
2:BI:134:HIS:O	2:BI:136:HIS:N	2.36	0.56
2:BK:134:HIS:O	2:BK:136:HIS:N	2.36	0.56
2:BL:113:GLN:HB2	2:BL:212:THR:HG22	1.88	0.56
2:BP:113:GLN:HB2	2:BP:212:THR:HG22	1.88	0.56
2:BP:114:VAL:HG22	2:BP:209:VAL:HG12	1.86	0.56
2:BP:132:TYR:HB3	2:BP:193:THR:CG2	2.34	0.56
2:BW:113:GLN:HB2	2:BW:212:THR:HG22	1.88	0.56
2:B9:54:LEU:HD21	2:B9:97:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:113:GLN:HB2	2:Bc:212:THR:HG22	1.88	0.56
2:Bh:54:LEU:HD21	2:Bh:97:VAL:HG11	1.87	0.56
2:Bh:132:TYR:HB3	2:Bh:193:THR:CG2	2.34	0.56
2:Bm:134:HIS:O	2:Bm:136:HIS:N	2.36	0.56
3:CD:44:ILE:O	3:CD:48:LYS:HG3	2.04	0.56
3:Cg:44:ILE:O	3:Cg:48:LYS:HG3	2.04	0.56
1:DE:87:GLN:NE2	1:DE:210:ARG:HH22	2.03	0.56
1:AB:15:PRO:O	2:BE:50:PRO:HD3	2.06	0.56
1:AJ:34:LEU:HD11	1:AJ:218:MET:HE3	1.86	0.56
1:AU:34:LEU:HD11	1:AU:218:MET:HE3	1.86	0.56
1:A8:15:PRO:O	2:B9:50:PRO:HD3	2.06	0.56
2:BD:113:GLN:HB2	2:BD:212:THR:HG22	1.88	0.56
2:BF:113:GLN:HB2	2:BF:212:THR:HG22	1.88	0.56
2:BH:113:GLN:HB2	2:BH:212:THR:HG22	1.88	0.56
2:BL:132:TYR:HB3	2:BL:193:THR:CG2	2.34	0.56
2:BU:114:VAL:HG22	2:BU:209:VAL:HG12	1.86	0.56
2:BW:126:VAL:HG13	2:BW:171:VAL:HG21	1.85	0.56
2:B4:126:VAL:HG13	2:B4:171:VAL:HG21	1.85	0.56
2:B5:114:VAL:HG22	2:B5:209:VAL:HG12	1.86	0.56
2:B7:114:VAL:HG22	2:B7:209:VAL:HG12	1.86	0.56
2:Ba:113:GLN:HB2	2:Ba:212:THR:HG22	1.88	0.56
2:Bl:54:LEU:HD21	2:Bl:97:VAL:HG11	1.87	0.56
2:Bp:114:VAL:HG22	2:Bp:209:VAL:HG12	1.86	0.56
2:Bv:113:GLN:HB2	2:Bv:212:THR:HG22	1.88	0.56
3:Cx:44:ILE:O	3:Cx:48:LYS:HG3	2.05	0.56
1:AA:15:PRO:O	2:BB:50:PRO:HD3	2.06	0.56
1:AB:34:LEU:HD11	1:AB:218:MET:HE3	1.86	0.56
1:AF:15:PRO:O	2:BG:50:PRO:HD3	2.06	0.56
1:AH:15:PRO:O	2:BI:50:PRO:HD3	2.06	0.56
1:AO:15:PRO:O	2:BS:50:PRO:HD3	2.06	0.56
1:AO:34:LEU:HD11	1:AO:218:MET:HE3	1.86	0.56
1:AV:15:PRO:O	2:BX:50:PRO:HD3	2.06	0.56
1:AW:191:HIS:CD2	1:AW:193:GLY:H	2.21	0.56
1:A2:15:PRO:O	2:B1:50:PRO:HD3	2.06	0.56
1:A5:87:GLN:NE2	1:A5:210:ARG:HH22	2.02	0.56
1:A8:87:GLN:NE2	1:A8:210:ARG:HH22	2.03	0.56
1:Ab:87:GLN:NE2	1:Ab:210:ARG:HH22	2.02	0.56
1:Af:15:PRO:O	2:Bg:50:PRO:HD3	2.06	0.56
1:Aj:34:LEU:HD11	1:Aj:218:MET:HE3	1.86	0.56
2:BD:97:VAL:O	2:BD:101:HIS:HD2	1.87	0.56
2:BE:54:LEU:HD21	2:BE:97:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:54:LEU:HD21	2:BK:97:VAL:HG11	1.87	0.56
2:B0:54:LEU:HD21	2:B0:97:VAL:HG11	1.87	0.56
2:B3:54:LEU:HD21	2:B3:97:VAL:HG11	1.87	0.56
2:B7:54:LEU:HD21	2:B7:97:VAL:HG11	1.87	0.56
2:Bb:134:HIS:O	2:Bb:136:HIS:N	2.36	0.56
2:Bm:54:LEU:HD21	2:Bm:97:VAL:HG11	1.87	0.56
2:Br:134:HIS:O	2:Br:136:HIS:N	2.36	0.56
3:CE:44:ILE:O	3:CE:48:LYS:HG3	2.04	0.56
3:CU:44:ILE:O	3:CU:48:LYS:HG3	2.05	0.56
3:C9:44:ILE:O	3:C9:48:LYS:HG3	2.04	0.56
3:Ct:44:ILE:O	3:Ct:48:LYS:HG3	2.05	0.56
1:DF:87:GLN:NE2	1:DF:210:ARG:HH22	2.03	0.56
1:AL:15:PRO:O	2:BN:50:PRO:HD3	2.06	0.56
1:AS:15:PRO:O	2:BP:50:PRO:HD3	2.06	0.56
1:A4:34:LEU:HD11	1:A4:218:MET:HE3	1.86	0.56
1:A9:15:PRO:O	2:Bc:50:PRO:HD3	2.06	0.56
1:Aa:15:PRO:O	2:Bb:50:PRO:HD3	2.06	0.56
1:Ab:15:PRO:O	2:B8:50:PRO:HD3	2.06	0.56
2:BE:97:VAL:O	2:BE:101:HIS:HD2	1.87	0.56
2:BN:114:VAL:HG22	2:BN:209:VAL:HG12	1.86	0.56
2:BR:134:HIS:O	2:BR:136:HIS:N	2.36	0.56
2:BO:49:ASP:OD2	3:CS:161:SER:OG	2.22	0.56
2:BX:113:GLN:HB2	2:BX:212:THR:HG22	1.88	0.56
2:B4:134:HIS:O	2:B4:136:HIS:N	2.36	0.56
2:Bb:114:VAL:HG22	2:Bb:209:VAL:HG12	1.86	0.56
2:Bh:113:GLN:HB2	2:Bh:212:THR:HG22	1.88	0.56
2:Bj:113:GLN:HB2	2:Bj:212:THR:HG22	1.88	0.56
2:Bm:114:VAL:HG22	2:Bm:209:VAL:HG12	1.86	0.56
2:Bs:97:VAL:O	2:Bs:101:HIS:HD2	1.87	0.56
2:Bx:113:GLN:HB2	2:Bx:212:THR:HG22	1.88	0.56
3:C1:44:ILE:O	3:C1:48:LYS:HG3	2.04	0.56
1:AR:15:PRO:O	2:BO:50:PRO:HD3	2.06	0.56
1:A6:15:PRO:O	2:B4:50:PRO:HD3	2.06	0.56
2:BB:126:VAL:HG13	2:BB:171:VAL:HG21	1.86	0.56
2:BQ:113:GLN:HB2	2:BQ:212:THR:HG22	1.88	0.56
2:BV:113:GLN:HB2	2:BV:212:THR:HG22	1.88	0.56
2:BV:114:VAL:HG22	2:BV:209:VAL:HG12	1.86	0.56
2:B1:114:VAL:HG22	2:B1:209:VAL:HG12	1.86	0.56
2:B2:54:LEU:HD21	2:B2:97:VAL:HG11	1.87	0.56
2:Be:54:LEU:HD21	2:Be:97:VAL:HG11	1.87	0.56
2:Be:113:GLN:HB2	2:Be:212:THR:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bf:114:VAL:HG22	2:Bf:209:VAL:HG12	1.86	0.56
2:Bk:113:GLN:HB2	2:Bk:212:THR:HG22	1.88	0.56
2:Br:54:LEU:HD21	2:Br:97:VAL:HG11	1.87	0.56
2:Br:114:VAL:HG22	2:Br:209:VAL:HG12	1.86	0.56
2:Bv:114:VAL:HG22	2:Bv:209:VAL:HG12	1.86	0.56
3:CG:44:ILE:O	3:CG:48:LYS:HG3	2.04	0.56
3:CT:44:ILE:O	3:CT:48:LYS:HG3	2.04	0.56
3:DA:44:ILE:O	3:DA:48:LYS:HG3	2.05	0.56
1:AB:87:GLN:NE2	1:AB:210:ARG:HH22	2.03	0.56
1:AG:15:PRO:O	2:BJ:50:PRO:HD3	2.06	0.56
1:AR:191:HIS:CD2	1:AR:193:GLY:H	2.21	0.56
1:AT:15:PRO:O	2:BV:50:PRO:HD3	2.06	0.56
1:A0:87:GLN:NE2	1:A0:210:ARG:HH22	2.03	0.56
1:A6:34:LEU:HD11	1:A6:218:MET:HE3	1.86	0.56
2:BG:113:GLN:HB2	2:BG:212:THR:HG22	1.88	0.56
2:BI:113:GLN:HB2	2:BI:212:THR:HG22	1.88	0.56
2:BJ:134:HIS:O	2:BJ:136:HIS:N	2.36	0.56
2:B1:113:GLN:HB2	2:B1:212:THR:HG22	1.88	0.56
2:B7:113:GLN:HB2	2:B7:212:THR:HG22	1.88	0.56
2:Bn:50:PRO:HD3	1:DD:15:PRO:O	2.06	0.56
2:Bp:54:LEU:HD21	2:Bp:97:VAL:HG11	1.87	0.56
1:AD:15:PRO:O	2:BA:50:PRO:HD3	2.06	0.56
1:AS:34:LEU:HD11	1:AS:218:MET:HE3	1.86	0.56
1:AY:15:PRO:O	2:B0:50:PRO:HD3	2.06	0.56
1:Ai:15:PRO:O	2:Bj:50:PRO:HD3	2.06	0.56
1:An:15:PRO:O	2:Bo:50:PRO:HD3	2.06	0.56
1:An:87:GLN:NE2	1:An:210:ARG:HH22	2.02	0.56
2:BA:126:VAL:HG13	2:BA:171:VAL:HG21	1.86	0.56
2:BL:114:VAL:HG22	2:BL:209:VAL:HG12	1.86	0.56
2:BV:54:LEU:HD21	2:BV:97:VAL:HG11	1.87	0.56
2:Bf:113:GLN:HB2	2:Bf:212:THR:HG22	1.88	0.56
2:Bn:134:HIS:O	2:Bn:136:HIS:N	2.36	0.56
2:Bo:113:GLN:HB2	2:Bo:212:THR:HG22	1.88	0.56
2:Bs:49:ASP:OD2	3:Cw:161:SER:OG	2.22	0.56
1:DH:87:GLN:NE2	1:DH:210:ARG:HH22	2.02	0.56
1:Ah:15:PRO:O	2:Bf:50:PRO:HD3	2.06	0.55
1:Aj:191:HIS:CD2	1:Aj:193:GLY:H	2.21	0.55
1:Al:15:PRO:O	2:Bi:50:PRO:HD3	2.06	0.55
2:BB:113:GLN:HB2	2:BB:212:THR:HG22	1.88	0.55
2:BH:54:LEU:HD21	2:BH:97:VAL:HG11	1.87	0.55
2:BX:97:VAL:O	2:BX:101:HIS:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BZ:113:GLN:HB2	2:BZ:212:THR:HG22	1.88	0.55
2:B2:114:VAL:HG22	2:B2:209:VAL:HG12	1.86	0.55
2:B3:113:GLN:HB2	2:B3:212:THR:HG22	1.88	0.55
2:B3:114:VAL:HG22	2:B3:209:VAL:HG12	1.86	0.55
2:B4:54:LEU:HD21	2:B4:97:VAL:HG11	1.87	0.55
2:B5:113:GLN:HB2	2:B5:212:THR:HG22	1.88	0.55
2:Bi:54:LEU:HD21	2:Bi:97:VAL:HG11	1.87	0.55
2:Bs:113:GLN:HB2	2:Bs:212:THR:HG22	1.88	0.55
2:Bv:50:PRO:HD3	1:DH:15:PRO:O	2.06	0.55
2:Bx:114:VAL:HG22	2:Bx:209:VAL:HG12	1.86	0.55
1:AN:15:PRO:O	2:BM:50:PRO:HD3	2.06	0.55
1:AN:87:GLN:NE2	1:AN:210:ARG:HH22	2.02	0.55
1:AP:15:PRO:O	2:BT:50:PRO:HD3	2.06	0.55
1:AU:15:PRO:O	2:BY:50:PRO:HD3	2.06	0.55
1:A5:15:PRO:O	2:B6:50:PRO:HD3	2.06	0.55
2:BY:54:LEU:HD21	2:BY:97:VAL:HG11	1.87	0.55
2:BZ:114:VAL:HG22	2:BZ:209:VAL:HG12	1.86	0.55
2:B0:97:VAL:O	2:B0:101:HIS:HD2	1.87	0.55
2:Be:134:HIS:O	2:Be:136:HIS:N	2.36	0.55
2:Bg:97:VAL:O	2:Bg:101:HIS:HD2	1.87	0.55
2:Bl:113:GLN:HB2	2:Bl:212:THR:HG22	1.87	0.55
2:Bp:50:PRO:HD3	1:DE:15:PRO:O	2.06	0.55
1:AM:191:HIS:CD2	1:AM:193:GLY:H	2.21	0.55
1:Ae:87:GLN:NE2	1:Ae:210:ARG:HH22	2.03	0.55
1:Am:191:HIS:CD2	1:Am:193:GLY:H	2.21	0.55
2:BI:54:LEU:HD21	2:BI:97:VAL:HG11	1.87	0.55
2:BJ:113:GLN:HB2	2:BJ:212:THR:HG22	1.88	0.55
2:BM:114:VAL:HG22	2:BM:209:VAL:HG12	1.86	0.55
2:BO:134:HIS:O	2:BO:136:HIS:N	2.36	0.55
2:BQ:134:HIS:O	2:BQ:136:HIS:N	2.37	0.55
2:Bo:134:HIS:O	2:Bo:136:HIS:N	2.36	0.55
2:Bq:50:PRO:HD3	1:DC:15:PRO:O	2.06	0.55
2:Bq:113:GLN:HB2	2:Bq:212:THR:HG22	1.88	0.55
2:Bs:134:HIS:O	2:Bs:136:HIS:N	2.36	0.55
2:Bt:54:LEU:HD21	2:Bt:97:VAL:HG11	1.87	0.55
3:CL:139:MET:O	3:CL:139:MET:HG2	2.07	0.55
1:AE:87:GLN:NE2	1:AE:210:ARG:HH22	2.02	0.55
1:AI:87:GLN:NE2	1:AI:210:ARG:HH22	2.03	0.55
1:AY:191:HIS:CD2	1:AY:193:GLY:H	2.21	0.55
1:A0:15:PRO:O	2:B2:50:PRO:HD3	2.06	0.55
1:A1:15:PRO:O	2:BZ:50:PRO:HD3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:54:LEU:HD21	2:BO:97:VAL:HG11	1.87	0.55
2:BS:134:HIS:O	2:BS:136:HIS:N	2.36	0.55
2:BU:113:GLN:HB2	2:BU:212:THR:HG22	1.88	0.55
2:BW:114:VAL:HG22	2:BW:209:VAL:HG12	1.86	0.55
2:Bj:134:HIS:O	2:Bj:136:HIS:N	2.36	0.55
2:Bk:114:VAL:HG22	2:Bk:209:VAL:HG12	1.86	0.55
2:Bq:54:LEU:HD21	2:Bq:97:VAL:HG11	1.87	0.55
1:AJ:15:PRO:O	2:BL:50:PRO:HD3	2.06	0.55
1:AZ:87:GLN:NE2	1:AZ:210:ARG:HH22	2.03	0.55
1:A4:15:PRO:O	2:B7:50:PRO:HD3	2.06	0.55
1:Aj:15:PRO:O	2:Bm:50:PRO:HD3	2.06	0.55
1:Ao:87:GLN:NE2	1:Ao:210:ARG:HH22	2.03	0.55
2:BA:113:GLN:HB2	2:BA:212:THR:HG22	1.88	0.55
2:BD:54:LEU:HD21	2:BD:97:VAL:HG11	1.87	0.55
2:BT:54:LEU:HD21	2:BT:97:VAL:HG11	1.87	0.55
2:BT:113:GLN:HB2	2:BT:212:THR:HG22	1.88	0.55
2:B0:113:GLN:HB2	2:B0:212:THR:HG22	1.88	0.55
2:Bi:114:VAL:HG22	2:Bi:209:VAL:HG12	1.86	0.55
2:Bn:54:LEU:HD21	2:Bn:97:VAL:HG11	1.87	0.55
3:CE:139:MET:HG2	3:CE:139:MET:O	2.07	0.55
3:CH:139:MET:HG2	3:CH:139:MET:O	2.07	0.55
3:CI:139:MET:O	3:CI:139:MET:HG2	2.07	0.55
3:CW:139:MET:O	3:CW:139:MET:HG2	2.07	0.55
3:Cl:139:MET:O	3:Cl:139:MET:HG2	2.07	0.55
3:Cs:139:MET:O	3:Cs:139:MET:HG2	2.07	0.55
1:AI:15:PRO:O	2:BF:50:PRO:HD3	2.06	0.55
1:Ak:15:PRO:O	2:Bl:50:PRO:HD3	2.06	0.55
2:B4:126:VAL:HG22	2:B4:171:VAL:HG11	1.89	0.55
2:Ba:54:LEU:HD21	2:Ba:97:VAL:HG11	1.87	0.55
2:Bg:54:LEU:HD21	2:Bg:97:VAL:HG11	1.87	0.55
2:Bi:113:GLN:HB2	2:Bi:212:THR:HG22	1.88	0.55
2:Bn:113:GLN:HB2	2:Bn:212:THR:HG22	1.88	0.55
2:Bt:50:PRO:HD3	1:DF:15:PRO:O	2.06	0.55
2:Bw:113:GLN:HB2	2:Bw:212:THR:HG22	1.88	0.55
3:CB:139:MET:O	3:CB:139:MET:HG2	2.07	0.55
3:CK:139:MET:HG2	3:CK:139:MET:O	2.07	0.55
3:Cd:139:MET:HG2	3:Cd:139:MET:O	2.07	0.55
3:Ck:44:ILE:O	3:Ck:48:LYS:HG3	2.05	0.55
3:DA:139:MET:O	3:DA:139:MET:HG2	2.07	0.55
1:AG:87:GLN:NE2	1:AG:210:ARG:HH22	2.03	0.55
1:AX:15:PRO:O	2:BW:50:PRO:HD3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:87:GLN:NE2	1:A9:210:ARG:HH22	2.03	0.55
2:BA:54:LEU:HD21	2:BA:97:VAL:HG11	1.87	0.55
2:BR:54:LEU:HD21	2:BR:97:VAL:HG11	1.87	0.55
2:B8:134:HIS:O	2:B8:136:HIS:N	2.36	0.55
2:Bc:114:VAL:HG22	2:Bc:209:VAL:HG12	1.86	0.55
2:Be:126:VAL:HG22	2:Be:171:VAL:HG11	1.89	0.55
2:Bt:113:GLN:HB2	2:Bt:212:THR:HG22	1.88	0.55
2:Bu:50:PRO:HD3	1:DJ:15:PRO:O	2.06	0.55
3:Cr:139:MET:HG2	3:Cr:139:MET:O	2.07	0.55
1:DE:191:HIS:CD2	1:DE:193:GLY:H	2.21	0.55
1:AZ:15:PRO:O	2:B3:50:PRO:HD3	2.06	0.55
1:Ad:15:PRO:O	2:Be:50:PRO:HD3	2.06	0.55
1:Ao:15:PRO:O	2:Br:50:PRO:HD3	2.06	0.55
2:BB:126:VAL:HG22	2:BB:171:VAL:HG11	1.89	0.55
2:BT:126:VAL:HG22	2:BT:171:VAL:HG11	1.89	0.55
2:BY:113:GLN:HB2	2:BY:212:THR:HG22	1.88	0.55
2:B1:134:HIS:O	2:B1:136:HIS:N	2.36	0.55
2:B9:113:GLN:HB2	2:B9:212:THR:HG22	1.88	0.55
2:Bb:126:VAL:HG22	2:Bb:171:VAL:HG11	1.89	0.55
2:Bi:126:VAL:HG22	2:Bi:171:VAL:HG11	1.89	0.55
3:CV:139:MET:HG2	3:CV:139:MET:O	2.07	0.55
3:Cn:139:MET:O	3:Cn:139:MET:HG2	2.07	0.55
3:Cq:139:MET:O	3:Cq:139:MET:HG2	2.07	0.55
2:BH:126:VAL:HG22	2:BH:171:VAL:HG11	1.89	0.55
2:BN:113:GLN:HB2	2:BN:212:THR:HG22	1.88	0.55
2:BO:113:GLN:HB2	2:BO:212:THR:HG22	1.88	0.55
2:B3:126:VAL:HG22	2:B3:171:VAL:HG11	1.89	0.55
2:Bb:113:GLN:HB2	2:Bb:212:THR:HG22	1.88	0.55
2:Bt:114:VAL:HG22	2:Bt:209:VAL:HG12	1.86	0.55
2:Bu:54:LEU:HD21	2:Bu:97:VAL:HG11	1.87	0.55
3:CN:139:MET:HG2	3:CN:139:MET:O	2.07	0.55
3:CS:139:MET:HG2	3:CS:139:MET:O	2.07	0.55
3:C2:139:MET:HG2	3:C2:139:MET:O	2.07	0.55
3:C5:139:MET:HG2	3:C5:139:MET:O	2.07	0.55
3:Ct:139:MET:O	3:Ct:139:MET:HG2	2.07	0.55
3:Cx:139:MET:HG2	3:Cx:139:MET:O	2.07	0.55
1:AK:15:PRO:O	2:BR:50:PRO:HD3	2.06	0.55
1:AO:191:HIS:CD2	1:AO:193:GLY:H	2.21	0.55
2:BD:134:HIS:O	2:BD:136:HIS:N	2.36	0.55
2:BE:134:HIS:O	2:BE:136:HIS:N	2.36	0.55
2:BK:113:GLN:HB2	2:BK:212:THR:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:126:VAL:HG22	2:BK:171:VAL:HG11	1.89	0.55
2:BM:113:GLN:HB2	2:BM:212:THR:HG22	1.88	0.55
2:BM:126:VAL:HG22	2:BM:171:VAL:HG11	1.89	0.55
2:B5:126:VAL:HG22	2:B5:171:VAL:HG11	1.89	0.55
2:B9:126:VAL:HG22	2:B9:171:VAL:HG11	1.89	0.55
2:Bd:113:GLN:HB2	2:Bd:212:THR:HG22	1.88	0.55
2:Bg:113:GLN:HB2	2:Bg:212:THR:HG22	1.88	0.55
2:Bm:113:GLN:HB2	2:Bm:212:THR:HG22	1.88	0.55
2:Bn:126:VAL:HG22	2:Bn:171:VAL:HG11	1.89	0.55
3:CA:139:MET:O	3:CA:139:MET:HG2	2.07	0.55
3:Cf:139:MET:O	3:Cf:139:MET:HG2	2.07	0.55
1:AB:191:HIS:CD2	1:AB:193:GLY:H	2.21	0.54
1:A7:15:PRO:O	2:B5:50:PRO:HD3	2.06	0.54
2:BT:134:HIS:O	2:BT:136:HIS:N	2.36	0.54
2:BV:126:VAL:HG22	2:BV:171:VAL:HG11	1.89	0.54
2:Ba:126:VAL:HG22	2:Ba:171:VAL:HG11	1.89	0.54
3:CR:139:MET:O	3:CR:139:MET:HG2	2.07	0.54
3:Cj:139:MET:HG2	3:Cj:139:MET:O	2.07	0.54
1:AN:191:HIS:CD2	1:AN:193:GLY:H	2.21	0.54
1:Ac:15:PRO:O	2:Ba:50:PRO:HD3	2.06	0.54
2:BH:50:PRO:HD3	1:DK:15:PRO:O	2.06	0.54
2:BR:126:VAL:HG22	2:BR:171:VAL:HG11	1.89	0.54
2:BY:126:VAL:HG22	2:BY:171:VAL:HG11	1.89	0.54
2:B7:126:VAL:HG22	2:B7:171:VAL:HG11	1.89	0.54
2:Bo:126:VAL:HG22	2:Bo:171:VAL:HG11	1.89	0.54
2:Bu:113:GLN:HB2	2:Bu:212:THR:HG22	1.88	0.54
2:Bv:134:HIS:O	2:Bv:136:HIS:N	2.36	0.54
3:CN:56:ILE:HD12	3:CN:74:PHE:CE1	2.43	0.54
3:CP:139:MET:O	3:CP:139:MET:HG2	2.07	0.54
3:Ci:139:MET:O	3:Ci:139:MET:HG2	2.07	0.54
3:Cw:139:MET:O	3:Cw:139:MET:HG2	2.07	0.54
1:AN:33:LEU:O	1:AN:36:ARG:HD2	2.08	0.54
1:AS:159:PRO:CG	3:CT:29:VAL:HG21	2.38	0.54
1:AW:87:GLN:NE2	1:AW:210:ARG:HH22	2.02	0.54
1:Aa:87:GLN:NE2	1:Aa:210:ARG:HH22	2.02	0.54
1:An:33:LEU:O	1:An:36:ARG:HD2	2.08	0.54
2:BA:126:VAL:HG22	2:BA:171:VAL:HG11	1.89	0.54
2:B2:113:GLN:HB2	2:B2:212:THR:HG22	1.88	0.54
2:B8:113:GLN:HB2	2:B8:212:THR:HG22	1.88	0.54
2:Bk:126:VAL:HG22	2:Bk:171:VAL:HG11	1.89	0.54
2:Bs:126:VAL:HG22	2:Bs:171:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:139:MET:HG2	3:CC:139:MET:O	2.07	0.54
3:CX:56:ILE:HD12	3:CX:74:PHE:CE1	2.43	0.54
3:C6:139:MET:O	3:C6:139:MET:HG2	2.07	0.54
3:Ck:139:MET:O	3:Ck:139:MET:HG2	2.07	0.54
3:Cm:56:ILE:HD12	3:Cm:74:PHE:CE1	2.43	0.54
3:Co:56:ILE:HD12	3:Co:74:PHE:CE1	2.43	0.54
3:Co:139:MET:HG2	3:Co:139:MET:O	2.07	0.54
1:AA:33:LEU:O	1:AA:36:ARG:HD2	2.08	0.54
1:AO:45:LEU:HB2	1:AO:202:HIS:HA	1.90	0.54
1:Ab:159:PRO:CG	3:Cc:29:VAL:HG21	2.38	0.54
1:Af:191:HIS:CD2	1:Af:193:GLY:H	2.21	0.54
2:BI:126:VAL:HG22	2:BI:171:VAL:HG11	1.89	0.54
2:BQ:126:VAL:HG22	2:BQ:171:VAL:HG11	1.89	0.54
2:Bv:126:VAL:HG22	2:Bv:171:VAL:HG11	1.89	0.54
3:CD:56:ILE:HD12	3:CD:74:PHE:CE1	2.43	0.54
3:CU:139:MET:O	3:CU:139:MET:HG2	2.07	0.54
3:C7:56:ILE:HD12	3:C7:74:PHE:CE1	2.43	0.54
3:C8:56:ILE:HD12	3:C8:74:PHE:CE1	2.43	0.54
3:Cm:139:MET:HG2	3:Cm:139:MET:O	2.07	0.54
3:Cq:56:ILE:HD12	3:Cq:74:PHE:CE1	2.43	0.54
3:Ct:56:ILE:HD12	3:Ct:74:PHE:CE1	2.43	0.54
1:DD:45:LEU:HB2	1:DD:202:HIS:HA	1.90	0.54
1:AR:45:LEU:HB2	1:AR:202:HIS:HA	1.90	0.54
1:AU:33:LEU:O	1:AU:36:ARG:HD2	2.08	0.54
1:A9:159:PRO:CG	3:DA:29:VAL:HG21	2.38	0.54
1:Aa:33:LEU:O	1:Aa:36:ARG:HD2	2.08	0.54
1:An:191:HIS:CD2	1:An:193:GLY:H	2.21	0.54
2:BN:126:VAL:HG22	2:BN:171:VAL:HG11	1.89	0.54
2:BX:126:VAL:HG22	2:BX:171:VAL:HG11	1.89	0.54
2:B4:113:GLN:HB2	2:B4:212:THR:HG22	1.88	0.54
2:Bi:134:HIS:O	2:Bi:136:HIS:N	2.36	0.54
2:Bu:126:VAL:HG22	2:Bu:171:VAL:HG11	1.89	0.54
3:CM:56:ILE:HD12	3:CM:74:PHE:CE1	2.43	0.54
3:Cr:29:VAL:HG21	1:DD:159:PRO:CG	2.38	0.54
1:DI:45:LEU:HB2	1:DI:202:HIS:HA	1.90	0.54
1:AD:33:LEU:O	1:AD:36:ARG:HD2	2.08	0.54
1:AE:191:HIS:CD2	1:AE:193:GLY:H	2.21	0.54
1:AI:159:PRO:CG	3:CI:29:VAL:HG21	2.38	0.54
1:AJ:45:LEU:HB2	1:AJ:202:HIS:HA	1.90	0.54
1:AL:33:LEU:O	1:AL:36:ARG:HD2	2.08	0.54
1:AL:159:PRO:CG	3:CM:29:VAL:HG21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:33:LEU:O	1:AM:36:ARG:HD2	2.08	0.54
1:AT:33:LEU:O	1:AT:36:ARG:HD2	2.08	0.54
1:A3:33:LEU:O	1:A3:36:ARG:HD2	2.08	0.54
1:A3:159:PRO:CG	3:C4:29:VAL:HG21	2.38	0.54
1:A5:159:PRO:CG	3:C6:29:VAL:HG21	2.38	0.54
1:Ab:33:LEU:O	1:Ab:36:ARG:HD2	2.08	0.54
1:Ai:159:PRO:CG	3:Cj:29:VAL:HG21	2.38	0.54
1:Ak:33:LEU:O	1:Ak:36:ARG:HD2	2.08	0.54
1:Al:45:LEU:HB2	1:Al:202:HIS:HA	1.90	0.54
2:BU:126:VAL:HG22	2:BU:171:VAL:HG11	1.89	0.54
2:B0:126:VAL:HG22	2:B0:171:VAL:HG11	1.89	0.54
2:Bh:134:HIS:O	2:Bh:136:HIS:N	2.36	0.54
3:CQ:139:MET:HG2	3:CQ:139:MET:O	2.07	0.54
3:CY:139:MET:HG2	3:CY:139:MET:O	2.07	0.54
3:C0:139:MET:O	3:C0:139:MET:HG2	2.07	0.54
3:C2:56:ILE:HD12	3:C2:74:PHE:CE1	2.43	0.54
3:Ch:139:MET:O	3:Ch:139:MET:HG2	2.07	0.54
3:Cu:139:MET:HG2	3:Cu:139:MET:O	2.07	0.54
1:DF:33:LEU:O	1:DF:36:ARG:HD2	2.08	0.54
1:DG:45:LEU:HB2	1:DG:202:HIS:HA	1.90	0.54
1:AB:33:LEU:O	1:AB:36:ARG:HD2	2.08	0.54
1:AC:45:LEU:HB2	1:AC:202:HIS:HA	1.90	0.54
1:AK:33:LEU:O	1:AK:36:ARG:HD2	2.08	0.54
1:AW:33:LEU:O	1:AW:36:ARG:HD2	2.08	0.54
1:A2:45:LEU:HB2	1:A2:202:HIS:HA	1.90	0.54
1:A8:45:LEU:HB2	1:A8:202:HIS:HA	1.90	0.54
1:Ad:33:LEU:O	1:Ad:36:ARG:HD2	2.08	0.54
1:Ad:45:LEU:HB2	1:Ad:202:HIS:HA	1.90	0.54
1:Ae:159:PRO:CG	3:Cf:29:VAL:HG21	2.38	0.54
1:Ag:45:LEU:HB2	1:Ag:202:HIS:HA	1.90	0.54
1:Ah:159:PRO:CG	3:Ci:29:VAL:HG21	2.38	0.54
2:B5:134:HIS:O	2:B5:136:HIS:N	2.36	0.54
2:B6:113:GLN:HB2	2:B6:212:THR:HG22	1.88	0.54
2:Bc:126:VAL:HG22	2:Bc:171:VAL:HG11	1.89	0.54
3:CA:56:ILE:HD12	3:CA:74:PHE:CE1	2.43	0.54
3:CU:56:ILE:HD12	3:CU:74:PHE:CE1	2.43	0.54
3:CW:56:ILE:HD12	3:CW:74:PHE:CE1	2.43	0.54
3:C9:139:MET:O	3:C9:139:MET:HG2	2.07	0.54
3:Cv:56:ILE:HD12	3:Cv:74:PHE:CE1	2.43	0.54
1:DE:45:LEU:HB2	1:DE:202:HIS:HA	1.90	0.54
1:AG:45:LEU:HB2	1:AG:202:HIS:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:33:LEU:O	1:AH:36:ARG:HD2	2.08	0.54
1:AJ:159:PRO:CG	3:CK:29:VAL:HG21	2.38	0.54
1:AJ:183:THR:HA	1:AM:246:GLN:HE22	1.73	0.54
1:A0:159:PRO:CG	3:C1:29:VAL:HG21	2.38	0.54
1:A1:45:LEU:HB2	1:A1:202:HIS:HA	1.90	0.54
1:A6:45:LEU:HB2	1:A6:202:HIS:HA	1.90	0.54
1:Aa:159:PRO:CG	3:DB:29:VAL:HG21	2.38	0.54
1:Aa:183:THR:HA	1:Ac:246:GLN:HE22	1.73	0.54
1:Ai:246:GLN:HE22	1:Aj:183:THR:HA	1.73	0.54
1:Aj:33:LEU:O	1:Aj:36:ARG:HD2	2.08	0.54
2:BZ:134:HIS:O	2:BZ:136:HIS:N	2.37	0.54
2:Ba:134:HIS:O	2:Ba:136:HIS:N	2.36	0.54
2:Bg:126:VAL:HG22	2:Bg:171:VAL:HG11	1.89	0.54
2:Bh:126:VAL:HG22	2:Bh:171:VAL:HG11	1.89	0.54
3:CB:56:ILE:HD12	3:CB:74:PHE:CE1	2.43	0.54
3:CK:56:ILE:HD12	3:CK:74:PHE:CE1	2.43	0.54
3:CO:56:ILE:HD12	3:CO:74:PHE:CE1	2.43	0.54
3:CP:56:ILE:HD12	3:CP:74:PHE:CE1	2.43	0.54
3:C4:139:MET:O	3:C4:139:MET:HG2	2.07	0.54
3:Ch:56:ILE:HD12	3:Ch:74:PHE:CE1	2.43	0.54
3:Ck:56:ILE:HD12	3:Ck:74:PHE:CE1	2.43	0.54
3:Cp:56:ILE:HD12	3:Cp:74:PHE:CE1	2.43	0.54
3:Cv:29:VAL:HG21	1:DH:159:PRO:CG	2.38	0.54
1:DE:33:LEU:O	1:DE:36:ARG:HD2	2.08	0.54
1:AA:159:PRO:CG	3:CA:29:VAL:HG21	2.38	0.54
1:AA:246:GLN:HE22	1:AB:183:THR:HA	1.73	0.54
1:AM:45:LEU:HB2	1:AM:202:HIS:HA	1.90	0.54
1:AO:246:GLN:HE22	1:AP:183:THR:HA	1.73	0.54
1:AX:45:LEU:HB2	1:AX:202:HIS:HA	1.90	0.54
1:AY:45:LEU:HB2	1:AY:202:HIS:HA	1.90	0.54
1:AY:246:GLN:HE22	1:AZ:183:THR:HA	1.73	0.54
1:AZ:45:LEU:HB2	1:AZ:202:HIS:HA	1.90	0.54
1:Aj:159:PRO:CG	3:Ck:29:VAL:HG21	2.38	0.54
2:BS:113:GLN:HB2	2:BS:212:THR:HG22	1.88	0.54
2:BP:134:HIS:O	2:BP:136:HIS:N	2.37	0.54
2:B1:126:VAL:HG22	2:B1:171:VAL:HG11	1.89	0.54
2:Ba:137:GLU:O	2:Ba:139:ALA:N	2.41	0.54
2:Bx:126:VAL:HG22	2:Bx:171:VAL:HG11	1.89	0.54
3:CG:56:ILE:HD12	3:CG:74:PHE:CE1	2.43	0.54
3:CQ:56:ILE:HD12	3:CQ:74:PHE:CE1	2.43	0.54
3:CX:139:MET:O	3:CX:139:MET:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:56:ILE:HD12	3:C1:74:PHE:CE1	2.43	0.54
3:C9:193:SER:HB3	3:C9:196:ILE:HD12	1.90	0.54
3:Cc:56:ILE:HD12	3:Cc:74:PHE:CE1	2.43	0.54
3:Cp:139:MET:HG2	3:Cp:139:MET:O	2.07	0.54
3:Ct:29:VAL:HG21	1:DF:159:PRO:CG	2.38	0.54
1:DK:45:LEU:HB2	1:DK:202:HIS:HA	1.90	0.54
1:AA:183:THR:HA	1:AD:246:GLN:HE22	1.73	0.54
1:AB:159:PRO:CG	3:CB:29:VAL:HG21	2.38	0.54
1:AK:246:GLN:HE22	1:AN:183:THR:HA	1.73	0.54
1:AM:159:PRO:CG	3:CN:29:VAL:HG21	2.38	0.54
1:A2:159:PRO:CG	3:C3:29:VAL:HG21	2.38	0.54
1:A4:33:LEU:O	1:A4:36:ARG:HD2	2.08	0.54
1:A5:246:GLN:HE22	1:A6:183:THR:HA	1.73	0.54
1:A9:45:LEU:HB2	1:A9:202:HIS:HA	1.90	0.54
1:A9:246:GLN:HE22	1:Ac:183:THR:HA	1.73	0.54
1:Ae:246:GLN:HE22	1:Ah:183:THR:HA	1.73	0.54
1:Ah:33:LEU:O	1:Ah:36:ARG:HD2	2.08	0.54
1:Ak:183:THR:HA	1:Am:246:GLN:HE22	1.73	0.54
1:Al:159:PRO:CG	3:Cm:29:VAL:HG21	2.38	0.54
1:An:159:PRO:CG	3:Co:29:VAL:HG21	2.38	0.54
1:Ao:33:LEU:O	1:Ao:36:ARG:HD2	2.08	0.54
2:BP:126:VAL:HG22	2:BP:171:VAL:HG11	1.89	0.54
2:B7:134:HIS:O	2:B7:136:HIS:N	2.36	0.54
2:Bm:126:VAL:HG22	2:Bm:171:VAL:HG11	1.89	0.54
3:CC:56:ILE:HD12	3:CC:74:PHE:CE1	2.43	0.54
3:CG:139:MET:O	3:CG:139:MET:HG2	2.07	0.54
3:CK:220:VAL:HG12	3:CK:221:ASP:N	2.24	0.54
3:CL:56:ILE:HD12	3:CL:74:PHE:CE1	2.43	0.54
3:C1:139:MET:O	3:C1:139:MET:HG2	2.07	0.54
3:C3:56:ILE:HD12	3:C3:74:PHE:CE1	2.43	0.54
3:C5:193:SER:HB3	3:C5:196:ILE:HD12	1.90	0.54
3:C9:56:ILE:HD12	3:C9:74:PHE:CE1	2.43	0.54
3:Ce:139:MET:O	3:Ce:139:MET:HG2	2.07	0.54
3:Ck:193:SER:HB3	3:Ck:196:ILE:HD12	1.90	0.54
1:DF:45:LEU:HB2	1:DF:202:HIS:HA	1.90	0.54
1:DJ:33:LEU:O	1:DJ:36:ARG:HD2	2.08	0.54
1:AC:33:LEU:O	1:AC:36:ARG:HD2	2.08	0.53
1:AC:159:PRO:CG	3:CC:29:VAL:HG21	2.38	0.53
1:AD:159:PRO:CG	3:CD:29:VAL:HG21	2.38	0.53
1:AE:33:LEU:O	1:AE:36:ARG:HD2	2.08	0.53
1:AL:183:THR:HA	1:AN:246:GLN:HE22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:159:PRO:CG	3:CO:29:VAL:HG21	2.38	0.53
1:AP:33:LEU:O	1:AP:36:ARG:HD2	2.08	0.53
1:AP:246:GLN:HE22	1:AS:183:THR:HA	1.74	0.53
1:AT:183:THR:HA	1:AW:246:GLN:HE22	1.73	0.53
1:AT:246:GLN:HE22	1:AU:183:THR:HA	1.73	0.53
1:AU:246:GLN:HE22	1:AX:183:THR:HA	1.73	0.53
1:A7:33:LEU:O	1:A7:36:ARG:HD2	2.08	0.53
1:A7:159:PRO:CG	3:C8:29:VAL:HG21	2.38	0.53
1:Ac:33:LEU:O	1:Ac:36:ARG:HD2	2.08	0.53
1:Af:45:LEU:HB2	1:Af:202:HIS:HA	1.90	0.53
1:Ai:33:LEU:O	1:Ai:36:ARG:HD2	2.08	0.53
1:An:45:LEU:HB2	1:An:202:HIS:HA	1.90	0.53
1:Ao:45:LEU:HB2	1:Ao:202:HIS:HA	1.90	0.53
2:BE:126:VAL:HG22	2:BE:171:VAL:HG11	1.89	0.53
2:BJ:137:GLU:O	2:BJ:139:ALA:N	2.41	0.53
2:BM:83:LEU:HD11	2:BM:194:ILE:HD12	1.91	0.53
2:BR:137:GLU:O	2:BR:139:ALA:N	2.42	0.53
2:B8:126:VAL:HG22	2:B8:171:VAL:HG11	1.89	0.53
2:Bm:83:LEU:HD11	2:Bm:194:ILE:HD12	1.91	0.53
3:CA:193:SER:HB3	3:CA:196:ILE:HD12	1.90	0.53
3:CB:193:SER:HB3	3:CB:196:ILE:HD12	1.90	0.53
3:CT:56:ILE:HD12	3:CT:74:PHE:CE1	2.43	0.53
3:C5:135:ARG:HB3	3:C5:186:TYR:CG	2.44	0.53
3:Cg:139:MET:HG2	3:Cg:139:MET:O	2.07	0.53
3:Cg:220:VAL:HG12	3:Cg:221:ASP:N	2.23	0.53
3:Ct:135:ARG:HB3	3:Ct:186:TYR:CG	2.44	0.53
3:Cu:56:ILE:HD12	3:Cu:74:PHE:CE1	2.43	0.53
3:Cw:56:ILE:HD12	3:Cw:74:PHE:CE1	2.43	0.53
3:Cw:193:SER:HB3	3:Cw:196:ILE:HD12	1.90	0.53
3:DB:56:ILE:HD12	3:DB:74:PHE:CE1	2.43	0.53
1:DC:33:LEU:O	1:DC:36:ARG:HD2	2.08	0.53
1:DD:33:LEU:O	1:DD:36:ARG:HD2	2.08	0.53
1:DI:33:LEU:O	1:DI:36:ARG:HD2	2.08	0.53
1:DK:33:LEU:O	1:DK:36:ARG:HD2	2.08	0.53
1:AB:246:GLN:HE22	1:AE:183:THR:HA	1.74	0.53
1:AC:183:THR:HA	1:AE:246:GLN:HE22	1.73	0.53
1:AF:33:LEU:O	1:AF:36:ARG:HD2	2.08	0.53
1:AQ:33:LEU:O	1:AQ:36:ARG:HD2	2.08	0.53
1:AQ:45:LEU:HB2	1:AQ:202:HIS:HA	1.90	0.53
1:AT:159:PRO:CG	3:CU:29:VAL:HG21	2.38	0.53
1:AV:183:THR:HA	1:AX:246:GLN:HE22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:159:PRO:CG	3:CY:29:VAL:HG21	2.38	0.53
1:A4:159:PRO:CG	3:C5:29:VAL:HG21	2.38	0.53
1:A8:191:HIS:CD2	1:A8:193:GLY:H	2.21	0.53
1:Ae:33:LEU:O	1:Ae:36:ARG:HD2	2.08	0.53
2:BL:126:VAL:HG22	2:BL:171:VAL:HG11	1.89	0.53
2:BU:83:LEU:HD11	2:BU:194:ILE:HD12	1.91	0.53
2:B9:83:LEU:HD11	2:B9:194:ILE:HD12	1.91	0.53
2:Ba:83:LEU:HD11	2:Ba:194:ILE:HD12	1.90	0.53
2:Bb:83:LEU:HD11	2:Bb:194:ILE:HD12	1.91	0.53
2:Bq:126:VAL:HG22	2:Bq:171:VAL:HG11	1.89	0.53
3:CG:135:ARG:HB3	3:CG:186:TYR:CG	2.44	0.53
3:CN:193:SER:HB3	3:CN:196:ILE:HD12	1.90	0.53
3:CO:135:ARG:HB3	3:CO:186:TYR:CG	2.44	0.53
3:C1:135:ARG:HB3	3:C1:186:TYR:CG	2.44	0.53
3:C1:193:SER:HB3	3:C1:196:ILE:HD12	1.90	0.53
3:C4:56:ILE:HD12	3:C4:74:PHE:CE1	2.43	0.53
3:C5:56:ILE:HD12	3:C5:74:PHE:CE1	2.43	0.53
3:C8:139:MET:HG2	3:C8:139:MET:O	2.07	0.53
3:Cd:193:SER:HB3	3:Cd:196:ILE:HD12	1.90	0.53
3:Cf:56:ILE:HD12	3:Cf:74:PHE:CE1	2.43	0.53
3:Cg:56:ILE:HD12	3:Cg:74:PHE:CE1	2.43	0.53
3:Ci:56:ILE:HD12	3:Ci:74:PHE:CE1	2.43	0.53
3:Cj:220:VAL:HG12	3:Cj:221:ASP:N	2.24	0.53
3:Co:193:SER:HB3	3:Co:196:ILE:HD12	1.90	0.53
3:Cq:220:VAL:HG12	3:Cq:221:ASP:N	2.23	0.53
3:Cv:220:VAL:HG12	3:Cv:221:ASP:N	2.23	0.53
3:DA:135:ARG:HB3	3:DA:186:TYR:CG	2.44	0.53
3:DB:220:VAL:HG12	3:DB:221:ASP:N	2.24	0.53
1:AD:45:LEU:HB2	1:AD:202:HIS:HA	1.90	0.53
1:AG:33:LEU:O	1:AG:36:ARG:HD2	2.08	0.53
1:AG:246:GLN:HE22	1:DK:183:THR:HA	1.73	0.53
1:AI:33:LEU:O	1:AI:36:ARG:HD2	2.08	0.53
1:AP:159:PRO:CG	3:CQ:29:VAL:HG21	2.38	0.53
1:AQ:159:PRO:CG	3:CR:29:VAL:HG21	2.38	0.53
1:AR:159:PRO:CG	3:CS:29:VAL:HG21	2.38	0.53
1:AU:159:PRO:CG	3:CV:29:VAL:HG21	2.38	0.53
1:AV:246:GLN:HE22	1:AW:183:THR:HA	1.73	0.53
1:AW:45:LEU:HB2	1:AW:202:HIS:HA	1.90	0.53
1:A3:246:GLN:HE22	1:A4:183:THR:HA	1.73	0.53
1:A6:159:PRO:CG	3:C7:29:VAL:HG21	2.38	0.53
1:A8:33:LEU:O	1:A8:36:ARG:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:159:PRO:CG	3:C9:29:VAL:HG21	2.38	0.53
1:Aa:246:GLN:HE22	1:Ab:183:THR:HA	1.73	0.53
1:Ad:183:THR:HA	1:Ag:246:GLN:HE22	1.73	0.53
1:Ag:159:PRO:CG	3:Ch:29:VAL:HG21	2.38	0.53
1:Ak:159:PRO:CG	3:Cl:29:VAL:HG21	2.38	0.53
2:BC:83:LEU:HD11	2:BC:194:ILE:HD12	1.91	0.53
2:BE:83:LEU:HD11	2:BE:194:ILE:HD12	1.91	0.53
2:BF:83:LEU:HD11	2:BF:194:ILE:HD12	1.91	0.53
2:BJ:83:LEU:HD11	2:BJ:194:ILE:HD12	1.91	0.53
2:BO:126:VAL:HG22	2:BO:171:VAL:HG11	1.89	0.53
2:Bf:83:LEU:HD11	2:Bf:194:ILE:HD12	1.91	0.53
2:Bf:126:VAL:HG22	2:Bf:171:VAL:HG11	1.89	0.53
2:Bl:126:VAL:HG22	2:Bl:171:VAL:HG11	1.89	0.53
2:Bo:83:LEU:HD11	2:Bo:194:ILE:HD12	1.91	0.53
2:Bp:83:LEU:HD11	2:Bp:194:ILE:HD12	1.91	0.53
2:Bp:126:VAL:HG22	2:Bp:171:VAL:HG11	1.89	0.53
2:Bq:137:GLU:O	2:Bq:139:ALA:N	2.41	0.53
2:Bx:137:GLU:O	2:Bx:139:ALA:N	2.41	0.53
3:CE:56:ILE:HD12	3:CE:74:PHE:CE1	2.43	0.53
3:CE:220:VAL:HG12	3:CE:221:ASP:N	2.24	0.53
3:CF:139:MET:HG2	3:CF:139:MET:O	2.07	0.53
3:CG:148:VAL:HG12	3:CG:149:GLY:N	2.24	0.53
3:CG:193:SER:HB3	3:CG:196:ILE:HD12	1.90	0.53
3:CK:135:ARG:HB3	3:CK:186:TYR:CG	2.44	0.53
3:CQ:148:VAL:HG12	3:CQ:149:GLY:N	2.24	0.53
3:CR:135:ARG:HB3	3:CR:186:TYR:CG	2.44	0.53
3:C3:135:ARG:HB3	3:C3:186:TYR:CG	2.44	0.53
3:Cd:135:ARG:HB3	3:Cd:186:TYR:CG	2.44	0.53
3:Ce:56:ILE:HD12	3:Ce:74:PHE:CE1	2.43	0.53
3:Ce:193:SER:HB3	3:Ce:196:ILE:HD12	1.90	0.53
3:Ch:135:ARG:HB3	3:Ch:186:TYR:CG	2.44	0.53
3:Ci:135:ARG:HB3	3:Ci:186:TYR:CG	2.44	0.53
3:Cj:56:ILE:HD12	3:Cj:74:PHE:CE1	2.43	0.53
3:Ck:135:ARG:HB3	3:Ck:186:TYR:CG	2.44	0.53
3:Cn:135:ARG:HB3	3:Cn:186:TYR:CG	2.44	0.53
3:Cs:220:VAL:HG12	3:Cs:221:ASP:N	2.24	0.53
3:Cu:220:VAL:HG12	3:Cu:221:ASP:N	2.24	0.53
3:Cv:135:ARG:HB3	3:Cv:186:TYR:CG	2.44	0.53
3:Cv:139:MET:O	3:Cv:139:MET:HG2	2.07	0.53
3:Cw:29:VAL:HG21	1:DI:159:PRO:CG	2.38	0.53
1:DF:183:THR:HA	1:DI:246:GLN:HE22	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:33:LEU:O	1:DG:36:ARG:HD2	2.08	0.53
1:DH:246:GLN:HE22	1:DI:183:THR:HA	1.73	0.53
1:DI:191:HIS:CD2	1:DI:193:GLY:H	2.21	0.53
1:DJ:45:LEU:HB2	1:DJ:202:HIS:HA	1.90	0.53
1:AC:246:GLN:HE22	1:AD:183:THR:HA	1.73	0.53
1:AH:159:PRO:CG	3:CH:29:VAL:HG21	2.38	0.53
1:AL:246:GLN:HE22	1:AM:183:THR:HA	1.73	0.53
1:AU:45:LEU:HB2	1:AU:202:HIS:HA	1.90	0.53
1:A0:33:LEU:O	1:A0:36:ARG:HD2	2.08	0.53
1:Af:33:LEU:O	1:Af:36:ARG:HD2	2.08	0.53
1:Al:33:LEU:O	1:Al:36:ARG:HD2	2.08	0.53
2:BG:126:VAL:HG22	2:BG:171:VAL:HG11	1.89	0.53
2:BS:137:GLU:O	2:BS:139:ALA:N	2.41	0.53
2:BW:126:VAL:HG22	2:BW:171:VAL:HG11	1.89	0.53
2:B6:126:VAL:HG22	2:B6:171:VAL:HG11	1.89	0.53
3:CB:220:VAL:HG12	3:CB:221:ASP:N	2.24	0.53
3:CD:220:VAL:HG12	3:CD:221:ASP:N	2.24	0.53
3:CJ:56:ILE:HD12	3:CJ:74:PHE:CE1	2.43	0.53
3:CJ:148:VAL:HG12	3:CJ:149:GLY:N	2.24	0.53
3:CM:220:VAL:HG12	3:CM:221:ASP:N	2.23	0.53
3:CT:220:VAL:HG12	3:CT:221:ASP:N	2.24	0.53
3:CZ:135:ARG:HB3	3:CZ:186:TYR:CG	2.43	0.53
3:CZ:139:MET:O	3:CZ:139:MET:HG2	2.07	0.53
3:C0:135:ARG:HB3	3:C0:186:TYR:CG	2.44	0.53
3:C2:220:VAL:HG12	3:C2:221:ASP:N	2.23	0.53
3:C7:139:MET:O	3:C7:139:MET:HG2	2.07	0.53
3:Cc:220:VAL:HG12	3:Cc:221:ASP:N	2.24	0.53
3:Cm:135:ARG:HB3	3:Cm:186:TYR:CG	2.44	0.53
3:Cn:56:ILE:HD12	3:Cn:74:PHE:CE1	2.43	0.53
3:Cr:56:ILE:HD12	3:Cr:74:PHE:CE1	2.43	0.53
3:Cx:56:ILE:HD12	3:Cx:74:PHE:CE1	2.43	0.53
3:DB:135:ARG:HB3	3:DB:186:TYR:CG	2.44	0.53
1:DH:45:LEU:HB2	1:DH:202:HIS:HA	1.90	0.53
1:AG:159:PRO:CG	3:CG:29:VAL:HG21	2.38	0.53
1:AH:183:THR:HA	1:DK:246:GLN:HE22	1.73	0.53
1:AK:159:PRO:CG	3:CL:29:VAL:HG21	2.38	0.53
1:AR:33:LEU:O	1:AR:36:ARG:HD2	2.08	0.53
1:AV:33:LEU:O	1:AV:36:ARG:HD2	2.08	0.53
1:AY:183:THR:HA	1:A1:246:GLN:HE22	1.73	0.53
1:A2:191:HIS:CD2	1:A2:193:GLY:H	2.21	0.53
1:A5:33:LEU:O	1:A5:36:ARG:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:183:THR:HA	1:A7:246:GLN:HE22	1.73	0.53
1:A8:183:THR:HA	1:Ab:246:GLN:HE22	1.73	0.53
1:A9:33:LEU:O	1:A9:36:ARG:HD2	2.08	0.53
2:BW:83:LEU:HD11	2:BW:194:ILE:HD12	1.91	0.53
2:B3:134:HIS:O	2:B3:136:HIS:N	2.36	0.53
2:B5:83:LEU:HD11	2:B5:194:ILE:HD12	1.91	0.53
2:B7:83:LEU:HD11	2:B7:194:ILE:HD12	1.91	0.53
2:Bc:83:LEU:HD11	2:Bc:194:ILE:HD12	1.91	0.53
2:Bh:83:LEU:HD11	2:Bh:194:ILE:HD12	1.91	0.53
3:CF:56:ILE:HD12	3:CF:74:PHE:CE1	2.43	0.53
3:CI:56:ILE:HD12	3:CI:74:PHE:CE1	2.43	0.53
3:CM:139:MET:O	3:CM:139:MET:HG2	2.07	0.53
3:CO:220:VAL:HG12	3:CO:221:ASP:N	2.24	0.53
3:CP:135:ARG:HB3	3:CP:186:TYR:CG	2.44	0.53
3:CU:135:ARG:HB3	3:CU:186:TYR:CG	2.43	0.53
3:CV:56:ILE:HD12	3:CV:74:PHE:CE1	2.43	0.53
3:CZ:220:VAL:HG12	3:CZ:221:ASP:N	2.24	0.53
3:Cg:148:VAL:HG12	3:Cg:149:GLY:N	2.24	0.53
3:Ch:193:SER:HB3	3:Ch:196:ILE:HD12	1.90	0.53
3:Cj:135:ARG:HB3	3:Cj:186:TYR:CG	2.43	0.53
3:Co:220:VAL:HG12	3:Co:221:ASP:N	2.24	0.53
3:Cs:56:ILE:HD12	3:Cs:74:PHE:CE1	2.43	0.53
3:Cw:148:VAL:HG12	3:Cw:149:GLY:N	2.24	0.53
1:DC:183:THR:HA	1:DE:246:GLN:HE22	1.73	0.53
1:AA:191:HIS:CD2	1:AA:193:GLY:H	2.21	0.53
1:AH:191:HIS:CD2	1:AH:193:GLY:H	2.21	0.53
1:AH:246:GLN:HE22	1:AI:183:THR:HA	1.73	0.53
1:AO:33:LEU:O	1:AO:36:ARG:HD2	2.08	0.53
1:AS:33:LEU:O	1:AS:36:ARG:HD2	2.08	0.53
1:AV:159:PRO:CG	3:CW:29:VAL:HG21	2.38	0.53
1:A1:33:LEU:O	1:A1:36:ARG:HD2	2.08	0.53
1:A4:246:GLN:HE22	1:A7:183:THR:HA	1.73	0.53
1:A8:246:GLN:HE22	1:A9:183:THR:HA	1.73	0.53
1:Ai:45:LEU:HB2	1:Ai:202:HIS:HA	1.90	0.53
1:Ai:191:HIS:CD2	1:Ai:193:GLY:H	2.21	0.53
1:Ak:45:LEU:HB2	1:Ak:202:HIS:HA	1.90	0.53
2:BB:83:LEU:HD11	2:BB:194:ILE:HD12	1.91	0.53
2:BD:83:LEU:HD11	2:BD:194:ILE:HD12	1.91	0.53
2:BI:83:LEU:HD11	2:BI:194:ILE:HD12	1.91	0.53
2:BS:126:VAL:HG22	2:BS:171:VAL:HG11	1.89	0.53
2:Bd:83:LEU:HD11	2:Bd:194:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bw:126:VAL:HG22	2:Bw:171:VAL:HG11	1.89	0.53
3:CA:135:ARG:HB3	3:CA:186:TYR:CG	2.44	0.53
3:CD:139:MET:O	3:CD:139:MET:HG2	2.07	0.53
3:CF:220:VAL:HG12	3:CF:221:ASP:N	2.23	0.53
3:CL:135:ARG:HB3	3:CL:186:TYR:CG	2.44	0.53
3:CQ:193:SER:HB3	3:CQ:196:ILE:HD12	1.90	0.53
3:CU:220:VAL:HG12	3:CU:221:ASP:N	2.24	0.53
3:CV:220:VAL:HG12	3:CV:221:ASP:N	2.24	0.53
3:CZ:56:ILE:HD12	3:CZ:74:PHE:CE1	2.43	0.53
3:C0:56:ILE:HD12	3:C0:74:PHE:CE1	2.43	0.53
3:C0:220:VAL:HG12	3:C0:221:ASP:N	2.24	0.53
3:C2:135:ARG:HB3	3:C2:186:TYR:CG	2.44	0.53
3:C3:220:VAL:HG12	3:C3:221:ASP:N	2.24	0.53
3:C5:220:VAL:HG12	3:C5:221:ASP:N	2.24	0.53
3:C6:56:ILE:HD12	3:C6:74:PHE:CE1	2.43	0.53
3:C7:135:ARG:HB3	3:C7:186:TYR:CG	2.44	0.53
3:C9:135:ARG:HB3	3:C9:186:TYR:CG	2.44	0.53
3:Cc:139:MET:O	3:Cc:139:MET:HG2	2.07	0.53
3:Ce:220:VAL:HG12	3:Ce:221:ASP:N	2.24	0.53
3:Ch:148:VAL:HG12	3:Ch:149:GLY:N	2.24	0.53
3:Cl:135:ARG:HB3	3:Cl:186:TYR:CG	2.44	0.53
3:Cq:29:VAL:HG21	1:DC:159:PRO:CG	2.38	0.53
3:Cr:135:ARG:HB3	3:Cr:186:TYR:CG	2.44	0.53
3:Cs:29:VAL:HG21	1:DE:159:PRO:CG	2.38	0.53
3:Ct:193:SER:HB3	3:Ct:196:ILE:HD12	1.90	0.53
3:Cu:135:ARG:HB3	3:Cu:186:TYR:CG	2.44	0.53
1:DG:115:THR:HG22	1:DG:116:THR:N	2.24	0.53
1:DH:33:LEU:O	1:DH:36:ARG:HD2	2.08	0.53
1:AE:159:PRO:CG	3:CE:29:VAL:HG21	2.38	0.53
1:AF:45:LEU:HB2	1:AF:202:HIS:HA	1.90	0.53
1:AF:115:THR:HG22	1:AF:116:THR:N	2.24	0.53
1:AF:159:PRO:CG	3:CF:29:VAL:HG21	2.38	0.53
1:AJ:115:THR:HG22	1:AJ:116:THR:N	2.24	0.53
1:AP:45:LEU:HB2	1:AP:202:HIS:HA	1.90	0.53
1:AR:115:THR:HG22	1:AR:116:THR:N	2.24	0.53
1:AT:191:HIS:CD2	1:AT:193:GLY:H	2.21	0.53
1:AY:33:LEU:O	1:AY:36:ARG:HD2	2.08	0.53
1:AZ:159:PRO:CG	3:C0:29:VAL:HG21	2.38	0.53
1:AZ:246:GLN:HE22	1:A2:183:THR:HA	1.73	0.53
1:A3:115:THR:HG22	1:A3:116:THR:N	2.24	0.53
1:A7:115:THR:HG22	1:A7:116:THR:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:115:THR:HG22	1:Af:116:THR:N	2.24	0.53
1:Ak:246:GLN:HE22	1:Al:183:THR:HA	1.73	0.53
1:Am:45:LEU:HB2	1:Am:202:HIS:HA	1.90	0.53
1:Ao:246:GLN:HE22	1:DE:183:THR:HA	1.73	0.53
2:BH:83:LEU:HD11	2:BH:194:ILE:HD12	1.91	0.53
2:BK:83:LEU:HD11	2:BK:194:ILE:HD12	1.91	0.53
2:BR:83:LEU:HD11	2:BR:194:ILE:HD12	1.91	0.53
2:BQ:83:LEU:HD11	2:BQ:194:ILE:HD12	1.91	0.53
2:BZ:126:VAL:HG22	2:BZ:171:VAL:HG11	1.89	0.53
2:B2:126:VAL:HG22	2:B2:171:VAL:HG11	1.89	0.53
2:Br:83:LEU:HD11	2:Br:194:ILE:HD12	1.91	0.53
2:Bt:134:HIS:O	2:Bt:136:HIS:N	2.36	0.53
3:CI:135:ARG:HB3	3:CI:186:TYR:CG	2.44	0.53
3:CN:220:VAL:HG12	3:CN:221:ASP:N	2.23	0.53
3:CO:139:MET:O	3:CO:139:MET:HG2	2.07	0.53
3:CR:56:ILE:HD12	3:CR:74:PHE:CE1	2.43	0.53
3:CS:56:ILE:HD12	3:CS:74:PHE:CE1	2.43	0.53
3:CT:148:VAL:HG12	3:CT:149:GLY:N	2.24	0.53
3:CV:193:SER:HB3	3:CV:196:ILE:HD12	1.90	0.53
3:CX:193:SER:HB3	3:CX:196:ILE:HD12	1.90	0.53
3:CY:56:ILE:HD12	3:CY:74:PHE:CE1	2.43	0.53
3:C3:139:MET:O	3:C3:139:MET:HG2	2.07	0.53
3:C7:193:SER:HB3	3:C7:196:ILE:HD12	1.90	0.53
3:C9:220:VAL:HG12	3:C9:221:ASP:N	2.24	0.53
3:Cd:56:ILE:HD12	3:Cd:74:PHE:CE1	2.43	0.53
3:Cf:193:SER:HB3	3:Cf:196:ILE:HD12	1.90	0.53
3:Co:135:ARG:HB3	3:Co:186:TYR:CG	2.44	0.53
3:Cr:193:SER:HB3	3:Cr:196:ILE:HD12	1.90	0.53
3:Cw:135:ARG:HB3	3:Cw:186:TYR:CG	2.44	0.53
3:DA:220:VAL:HG12	3:DA:221:ASP:N	2.24	0.53
1:AJ:33:LEU:O	1:AJ:36:ARG:HD2	2.08	0.53
1:AL:115:THR:HG22	1:AL:116:THR:N	2.24	0.53
1:AP:191:HIS:CD2	1:AP:193:GLY:H	2.21	0.53
1:AX:33:LEU:O	1:AX:36:ARG:HD2	2.08	0.53
1:AY:159:PRO:CG	3:CZ:29:VAL:HG21	2.38	0.53
1:A6:33:LEU:O	1:A6:36:ARG:HD2	2.08	0.53
1:Af:159:PRO:CG	3:Cg:29:VAL:HG21	2.38	0.53
1:Am:159:PRO:CG	3:Cn:29:VAL:HG21	2.38	0.53
1:An:183:THR:HA	1:DD:246:GLN:HE22	1.73	0.53
1:Ao:159:PRO:CG	3:Cp:29:VAL:HG21	2.38	0.53
2:BL:83:LEU:HD11	2:BL:194:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:83:LEU:HD11	2:B2:194:ILE:HD12	1.91	0.53
2:B4:83:LEU:HD11	2:B4:194:ILE:HD12	1.91	0.53
2:Bt:83:LEU:HD11	2:Bt:194:ILE:HD12	1.91	0.53
2:Bx:83:LEU:HD11	2:Bx:194:ILE:HD12	1.91	0.53
3:CB:135:ARG:HB3	3:CB:186:TYR:CG	2.44	0.53
3:CF:193:SER:HB3	3:CF:196:ILE:HD12	1.90	0.53
3:CI:193:SER:HB3	3:CI:196:ILE:HD12	1.90	0.53
3:CP:193:SER:HB3	3:CP:196:ILE:HD12	1.90	0.53
3:CR:193:SER:HB3	3:CR:196:ILE:HD12	1.90	0.53
3:CS:135:ARG:HB3	3:CS:186:TYR:CG	2.44	0.53
3:CS:220:VAL:HG12	3:CS:221:ASP:N	2.24	0.53
3:CT:193:SER:HB3	3:CT:196:ILE:HD12	1.90	0.53
3:CW:135:ARG:HB3	3:CW:186:TYR:CG	2.44	0.53
3:CW:220:VAL:HG12	3:CW:221:ASP:N	2.24	0.53
3:Cf:148:VAL:HG12	3:Cf:149:GLY:N	2.24	0.53
3:Ci:148:VAL:HG12	3:Ci:149:GLY:N	2.24	0.53
3:Cl:220:VAL:HG12	3:Cl:221:ASP:N	2.23	0.53
3:Cr:220:VAL:HG12	3:Cr:221:ASP:N	2.23	0.53
3:Cv:193:SER:HB3	3:Cv:196:ILE:HD12	1.90	0.53
3:Cw:220:VAL:HG12	3:Cw:221:ASP:N	2.24	0.53
3:Cx:220:VAL:HG12	3:Cx:221:ASP:N	2.23	0.53
3:DB:139:MET:O	3:DB:139:MET:HG2	2.07	0.53
1:AO:159:PRO:CG	3:CP:29:VAL:HG21	2.38	0.53
1:AS:45:LEU:HB2	1:AS:202:HIS:HA	1.90	0.53
1:AT:45:LEU:HB2	1:AT:202:HIS:HA	1.90	0.53
1:AW:159:PRO:CG	3:CX:29:VAL:HG21	2.38	0.53
1:Ac:159:PRO:CG	3:Cd:29:VAL:HG21	2.38	0.53
1:Ae:45:LEU:HB2	1:Ae:202:HIS:HA	1.90	0.53
1:Af:183:THR:HA	1:Ah:246:GLN:HE22	1.73	0.53
1:Ah:45:LEU:HB2	1:Ah:202:HIS:HA	1.90	0.53
1:Al:115:THR:HG22	1:Al:116:THR:N	2.24	0.53
1:Am:33:LEU:O	1:Am:36:ARG:HD2	2.08	0.53
2:BF:126:VAL:HG22	2:BF:171:VAL:HG11	1.89	0.53
2:BT:137:GLU:O	2:BT:139:ALA:N	2.41	0.53
2:BV:83:LEU:HD11	2:BV:194:ILE:HD12	1.91	0.53
2:Bd:126:VAL:HG22	2:Bd:171:VAL:HG11	1.89	0.53
2:Bj:126:VAL:HG22	2:Bj:171:VAL:HG11	1.89	0.53
3:CA:220:VAL:HG12	3:CA:221:ASP:N	2.23	0.53
3:CE:193:SER:HB3	3:CE:196:ILE:HD12	1.90	0.53
3:CF:135:ARG:HB3	3:CF:186:TYR:CG	2.44	0.53
3:CH:56:ILE:HD12	3:CH:74:PHE:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:148:VAL:HG12	3:CI:149:GLY:N	2.24	0.53
3:CJ:135:ARG:HB3	3:CJ:186:TYR:CG	2.44	0.53
3:CJ:139:MET:O	3:CJ:139:MET:HG2	2.07	0.53
3:CJ:193:SER:HB3	3:CJ:196:ILE:HD12	1.90	0.53
3:CL:193:SER:HB3	3:CL:196:ILE:HD12	1.90	0.53
3:CP:220:VAL:HG12	3:CP:221:ASP:N	2.23	0.53
3:CQ:220:VAL:HG12	3:CQ:221:ASP:N	2.24	0.53
3:CT:139:MET:HG2	3:CT:139:MET:O	2.07	0.53
3:CY:220:VAL:HG12	3:CY:221:ASP:N	2.24	0.53
3:C1:220:VAL:HG12	3:C1:221:ASP:N	2.24	0.53
3:C3:193:SER:HB3	3:C3:196:ILE:HD12	1.90	0.53
3:C4:220:VAL:HG12	3:C4:221:ASP:N	2.24	0.53
3:C6:220:VAL:HG12	3:C6:221:ASP:N	2.23	0.53
3:C8:135:ARG:HB3	3:C8:186:TYR:CG	2.44	0.53
3:C8:220:VAL:HG12	3:C8:221:ASP:N	2.23	0.53
3:Cg:193:SER:HB3	3:Cg:196:ILE:HD12	1.90	0.53
3:Cp:193:SER:HB3	3:Cp:196:ILE:HD12	1.90	0.53
3:Cs:135:ARG:HB3	3:Cs:186:TYR:CG	2.44	0.53
3:Cx:193:SER:HB3	3:Cx:196:ILE:HD12	1.90	0.53
3:DA:56:ILE:HD12	3:DA:74:PHE:CE1	2.43	0.53
1:DC:45:LEU:HB2	1:DC:202:HIS:HA	1.90	0.53
1:DH:183:THR:HA	1:DJ:246:GLN:HE22	1.73	0.53
1:DK:115:THR:HG22	1:DK:116:THR:N	2.24	0.53
1:AA:115:THR:HG22	1:AA:116:THR:N	2.24	0.53
1:AE:45:LEU:HB2	1:AE:202:HIS:HA	1.90	0.53
1:AQ:183:THR:HA	1:AS:246:GLN:HE22	1.73	0.53
1:A1:115:THR:HG22	1:A1:116:THR:N	2.24	0.53
1:A3:183:THR:HA	1:A6:246:GLN:HE22	1.73	0.53
1:A4:115:THR:HG22	1:A4:116:THR:N	2.24	0.53
1:A6:115:THR:HG22	1:A6:116:THR:N	2.24	0.53
1:A7:45:LEU:HB2	1:A7:202:HIS:HA	1.90	0.53
2:BP:83:LEU:HD11	2:BP:194:ILE:HD12	1.91	0.53
2:BW:137:GLU:O	2:BW:139:ALA:N	2.41	0.53
2:Bk:83:LEU:HD11	2:Bk:194:ILE:HD12	1.91	0.53
2:Bn:83:LEU:HD11	2:Bn:194:ILE:HD12	1.91	0.53
3:CD:135:ARG:HB3	3:CD:186:TYR:CG	2.44	0.53
3:CD:193:SER:HB3	3:CD:196:ILE:HD12	1.90	0.53
3:CF:148:VAL:HG12	3:CF:149:GLY:N	2.24	0.53
3:CL:220:VAL:HG12	3:CL:221:ASP:N	2.24	0.53
3:CR:148:VAL:HG12	3:CR:149:GLY:N	2.24	0.53
3:CT:135:ARG:HB3	3:CT:186:TYR:CG	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CY:135:ARG:HB3	3:CY:186:TYR:CG	2.44	0.53
3:C0:193:SER:HB3	3:C0:196:ILE:HD12	1.90	0.53
3:Cd:220:VAL:HG12	3:Cd:221:ASP:N	2.24	0.53
3:Cf:220:VAL:HG12	3:Cf:221:ASP:N	2.24	0.53
3:Cl:56:ILE:HD12	3:Cl:74:PHE:CE1	2.43	0.53
3:Cm:220:VAL:HG12	3:Cm:221:ASP:N	2.24	0.53
3:Cn:193:SER:HB3	3:Cn:196:ILE:HD12	1.90	0.53
3:Cq:135:ARG:HB3	3:Cq:186:TYR:CG	2.44	0.53
1:AH:45:LEU:HB2	1:AH:202:HIS:HA	1.90	0.52
1:AI:45:LEU:HB2	1:AI:202:HIS:HA	1.90	0.52
1:AN:45:LEU:HB2	1:AN:202:HIS:HA	1.90	0.52
1:AQ:191:HIS:CD2	1:AQ:193:GLY:H	2.21	0.52
1:AW:115:THR:HG22	1:AW:116:THR:N	2.24	0.52
1:A0:45:LEU:HB2	1:A0:202:HIS:HA	1.90	0.52
1:A3:45:LEU:HB2	1:A3:202:HIS:HA	1.90	0.52
1:Am:115:THR:HG22	1:Am:116:THR:N	2.24	0.52
2:BC:126:VAL:HG22	2:BC:171:VAL:HG11	1.89	0.52
2:BC:137:GLU:O	2:BC:139:ALA:N	2.41	0.52
2:BN:83:LEU:HD11	2:BN:194:ILE:HD12	1.91	0.52
2:BX:83:LEU:HD11	2:BX:194:ILE:HD12	1.91	0.52
2:BY:83:LEU:HD11	2:BY:194:ILE:HD12	1.91	0.52
2:B0:83:LEU:HD11	2:B0:194:ILE:HD12	1.91	0.52
2:BI:73:GLN:HA	2:BI:73:GLN:NE2	2.25	0.52
3:CH:193:SER:HB3	3:CH:196:ILE:HD12	1.90	0.52
3:CJ:29:VAL:HG21	1:DK:159:PRO:CG	2.38	0.52
3:CM:148:VAL:HG12	3:CM:149:GLY:N	2.24	0.52
3:CQ:135:ARG:HB3	3:CQ:186:TYR:CG	2.44	0.52
3:CR:220:VAL:HG12	3:CR:221:ASP:N	2.23	0.52
3:CS:148:VAL:HG12	3:CS:149:GLY:N	2.24	0.52
3:C8:193:SER:HB3	3:C8:196:ILE:HD12	1.90	0.52
1:DC:246:GLN:HE22	1:DD:183:THR:HA	1.73	0.52
1:DF:246:GLN:HE22	1:DG:183:THR:HA	1.73	0.52
1:AF:183:THR:HA	1:AI:246:GLN:HE22	1.73	0.52
1:AX:115:THR:HG22	1:AX:116:THR:N	2.24	0.52
1:A1:207:CYS:O	1:A1:208:TYR:CB	2.58	0.52
1:Ac:45:LEU:HB2	1:Ac:202:HIS:HA	1.90	0.52
1:Ao:207:CYS:O	1:Ao:208:TYR:CB	2.57	0.52
2:BD:126:VAL:HG22	2:BD:171:VAL:HG11	1.89	0.52
2:BI:73:GLN:HA	2:BI:73:GLN:NE2	2.25	0.52
2:BJ:73:GLN:HA	2:BJ:73:GLN:NE2	2.25	0.52
2:BJ:126:VAL:HG22	2:BJ:171:VAL:HG11	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:83:LEU:HD11	2:BO:194:ILE:HD12	1.91	0.52
2:B5:73:GLN:NE2	2:B5:73:GLN:HA	2.25	0.52
2:B5:137:GLU:O	2:B5:139:ALA:N	2.41	0.52
2:B7:73:GLN:NE2	2:B7:73:GLN:HA	2.25	0.52
2:Be:83:LEU:HD11	2:Be:194:ILE:HD12	1.91	0.52
2:Bj:83:LEU:HD11	2:Bj:194:ILE:HD12	1.91	0.52
2:Br:126:VAL:HG22	2:Br:171:VAL:HG11	1.89	0.52
2:Bt:126:VAL:HG22	2:Bt:171:VAL:HG11	1.89	0.52
3:CG:220:VAL:HG12	3:CG:221:ASP:N	2.24	0.52
3:CH:220:VAL:HG12	3:CH:221:ASP:N	2.24	0.52
3:CV:148:VAL:HG12	3:CV:149:GLY:N	2.24	0.52
3:C0:148:VAL:HG12	3:C0:149:GLY:N	2.24	0.52
3:C4:135:ARG:HB3	3:C4:186:TYR:CG	2.44	0.52
3:Ck:220:VAL:HG12	3:Ck:221:ASP:N	2.24	0.52
3:Cx:148:VAL:HG12	3:Cx:149:GLY:N	2.24	0.52
1:DG:104:VAL:HG22	1:DG:197:LEU:HD23	1.92	0.52
1:AA:182:ALA:O	1:AD:246:GLN:NE2	2.43	0.52
1:AA:246:GLN:NE2	1:AB:182:ALA:O	2.43	0.52
1:AG:115:THR:HG22	1:AG:116:THR:N	2.24	0.52
1:AI:115:THR:HG22	1:AI:116:THR:N	2.24	0.52
1:AJ:246:GLN:HE22	1:AK:183:THR:HA	1.73	0.52
1:AK:115:THR:HG22	1:AK:116:THR:N	2.24	0.52
1:AO:104:VAL:HG22	1:AO:197:LEU:HD23	1.92	0.52
1:AO:183:THR:HA	1:AR:246:GLN:HE22	1.73	0.52
1:AV:115:THR:HG22	1:AV:116:THR:N	2.24	0.52
1:A0:183:THR:HA	1:A2:246:GLN:HE22	1.73	0.52
1:A0:191:HIS:CD2	1:A0:193:GLY:H	2.21	0.52
1:A2:33:LEU:O	1:A2:36:ARG:HD2	2.08	0.52
1:A5:45:LEU:HB2	1:A5:202:HIS:HA	1.90	0.52
1:A5:246:GLN:NE2	1:A6:182:ALA:O	2.43	0.52
1:Aa:45:LEU:HB2	1:Aa:202:HIS:HA	1.90	0.52
1:Aa:182:ALA:O	1:Ac:246:GLN:NE2	2.43	0.52
1:Aa:246:GLN:NE2	1:Ab:182:ALA:O	2.43	0.52
1:Ac:115:THR:HG22	1:Ac:116:THR:N	2.24	0.52
1:Ad:115:THR:HG22	1:Ad:116:THR:N	2.24	0.52
1:An:246:GLN:HE22	1:Ao:183:THR:HA	1.73	0.52
2:BH:157:VAL:HG23	3:CH:50:THR:CG2	2.39	0.52
2:BS:83:LEU:HD11	2:BS:194:ILE:HD12	1.91	0.52
2:Bb:137:GLU:O	2:Bb:139:ALA:N	2.41	0.52
2:Bh:73:GLN:HA	2:Bh:73:GLN:NE2	2.25	0.52
2:Bl:83:LEU:HD11	2:Bl:194:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:73:GLN:HA	2:Bp:73:GLN:NE2	2.25	0.52
2:Br:73:GLN:NE2	2:Br:73:GLN:HA	2.25	0.52
2:Bs:83:LEU:HD11	2:Bs:194:ILE:HD12	1.91	0.52
2:Bw:83:LEU:HD11	2:Bw:194:ILE:HD12	1.91	0.52
3:CC:135:ARG:HB3	3:CC:186:TYR:CG	2.44	0.52
3:CC:148:VAL:HG12	3:CC:149:GLY:N	2.24	0.52
3:CE:135:ARG:HB3	3:CE:186:TYR:CG	2.44	0.52
3:CN:135:ARG:HB3	3:CN:186:TYR:CG	2.44	0.52
3:CW:193:SER:HB3	3:CW:196:ILE:HD12	1.90	0.52
3:CY:193:SER:HB3	3:CY:196:ILE:HD12	1.91	0.52
3:CZ:193:SER:HB3	3:CZ:196:ILE:HD12	1.90	0.52
3:C1:148:VAL:HG12	3:C1:149:GLY:N	2.24	0.52
3:C2:148:VAL:HG12	3:C2:149:GLY:N	2.24	0.52
3:Cd:148:VAL:HG12	3:Cd:149:GLY:N	2.24	0.52
3:Ce:148:VAL:HG12	3:Ce:149:GLY:N	2.24	0.52
3:Ch:220:VAL:HG12	3:Ch:221:ASP:N	2.23	0.52
3:Co:148:VAL:HG12	3:Co:149:GLY:N	2.24	0.52
3:Cu:29:VAL:HG21	1:DG:159:PRO:CG	2.38	0.52
3:Cu:193:SER:HB3	3:Cu:196:ILE:HD12	1.90	0.52
1:DC:191:HIS:CD2	1:DC:193:GLY:H	2.21	0.52
1:DF:115:THR:HG22	1:DF:116:THR:N	2.24	0.52
1:AA:45:LEU:HB2	1:AA:202:HIS:HA	1.90	0.52
1:AD:115:THR:HG22	1:AD:116:THR:N	2.24	0.52
1:AD:191:HIS:CD2	1:AD:193:GLY:H	2.21	0.52
1:AF:191:HIS:CD2	1:AF:193:GLY:H	2.21	0.52
1:AH:115:THR:HG22	1:AH:116:THR:N	2.24	0.52
1:AK:45:LEU:HB2	1:AK:202:HIS:HA	1.90	0.52
1:AM:104:VAL:HG22	1:AM:197:LEU:HD23	1.92	0.52
1:AU:104:VAL:HG22	1:AU:197:LEU:HD23	1.92	0.52
1:AU:246:GLN:NE2	1:AX:182:ALA:O	2.43	0.52
1:AZ:246:GLN:NE2	1:A2:182:ALA:O	2.43	0.52
1:A0:104:VAL:HG22	1:A0:197:LEU:HD23	1.92	0.52
1:A1:104:VAL:HG22	1:A1:197:LEU:HD23	1.92	0.52
1:A1:159:PRO:CG	3:C2:29:VAL:HG21	2.38	0.52
1:A8:104:VAL:HG22	1:A8:197:LEU:HD23	1.92	0.52
1:Aa:115:THR:HG22	1:Aa:116:THR:N	2.24	0.52
1:Ad:159:PRO:CG	3:Ce:29:VAL:HG21	2.38	0.52
1:Af:246:GLN:HE22	1:Ag:183:THR:HA	1.73	0.52
1:Af:246:GLN:NE2	1:Ag:182:ALA:O	2.43	0.52
1:Ag:33:LEU:O	1:Ag:36:ARG:HD2	2.08	0.52
1:Ah:104:VAL:HG22	1:Ah:197:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:115:THR:HG22	1:Ao:116:THR:N	2.24	0.52
2:BA:83:LEU:HD11	2:BA:194:ILE:HD12	1.91	0.52
2:BO:73:GLN:HA	2:BO:73:GLN:NE2	2.25	0.52
2:BP:73:GLN:HA	2:BP:73:GLN:NE2	2.25	0.52
2:BQ:73:GLN:NE2	2:BQ:73:GLN:HA	2.25	0.52
2:BY:73:GLN:NE2	2:BY:73:GLN:HA	2.25	0.52
2:B1:137:GLU:O	2:B1:139:ALA:N	2.41	0.52
2:Bj:73:GLN:NE2	2:Bj:73:GLN:HA	2.25	0.52
2:Bn:157:VAL:HG23	3:Co:50:THR:CG2	2.40	0.52
2:Bq:83:LEU:HD11	2:Bq:194:ILE:HD12	1.91	0.52
2:Bv:83:LEU:HD11	2:Bv:194:ILE:HD12	1.91	0.52
3:CB:148:VAL:HG12	3:CB:149:GLY:N	2.24	0.52
3:CL:148:VAL:HG12	3:CL:149:GLY:N	2.24	0.52
3:CX:148:VAL:HG12	3:CX:149:GLY:N	2.24	0.52
3:C5:148:VAL:HG12	3:C5:149:GLY:N	2.24	0.52
3:C9:148:VAL:HG12	3:C9:149:GLY:N	2.24	0.52
3:Cg:135:ARG:HB3	3:Cg:186:TYR:CG	2.44	0.52
3:Ci:220:VAL:HG12	3:Ci:221:ASP:N	2.24	0.52
3:Cm:193:SER:HB3	3:Cm:196:ILE:HD12	1.90	0.52
3:Cq:148:VAL:HG12	3:Cq:149:GLY:N	2.24	0.52
3:Cx:29:VAL:HG21	1:DJ:159:PRO:CG	2.38	0.52
3:Cx:135:ARG:HB3	3:Cx:186:TYR:CG	2.44	0.52
3:DA:148:VAL:HG12	3:DA:149:GLY:N	2.24	0.52
1:DJ:207:CYS:O	1:DJ:208:TYR:CB	2.57	0.52
1:AC:104:VAL:HG22	1:AC:197:LEU:HD23	1.91	0.52
1:AK:246:GLN:NE2	1:AN:182:ALA:O	2.43	0.52
1:AL:246:GLN:NE2	1:AM:182:ALA:O	2.43	0.52
1:AZ:115:THR:HG22	1:AZ:116:THR:N	2.24	0.52
1:A0:237:HIS:HB3	1:A0:239:PHE:CE1	2.45	0.52
1:A4:45:LEU:HB2	1:A4:202:HIS:HA	1.90	0.52
1:A6:104:VAL:HG22	1:A6:197:LEU:HD23	1.91	0.52
1:A6:191:HIS:CD2	1:A6:193:GLY:H	2.21	0.52
1:Ad:246:GLN:HE22	1:Ae:183:THR:HA	1.73	0.52
1:Ag:115:THR:HG22	1:Ag:116:THR:N	2.24	0.52
1:Ai:183:THR:HA	1:Al:246:GLN:HE22	1.73	0.52
1:Ak:207:CYS:O	1:Ak:208:TYR:CB	2.57	0.52
1:Ao:246:GLN:NE2	1:DE:182:ALA:O	2.43	0.52
2:BJ:157:VAL:HG23	3:CJ:50:THR:CG2	2.39	0.52
2:BZ:83:LEU:HD11	2:BZ:194:ILE:HD12	1.91	0.52
2:B1:83:LEU:HD11	2:B1:194:ILE:HD12	1.91	0.52
2:B3:83:LEU:HD11	2:B3:194:ILE:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:157:VAL:HG23	3:DA:50:THR:CG2	2.40	0.52
2:Bg:73:GLN:NE2	2:Bg:73:GLN:HA	2.25	0.52
2:Bs:73:GLN:HA	2:Bs:73:GLN:NE2	2.25	0.52
2:Bu:73:GLN:NE2	2:Bu:73:GLN:HA	2.25	0.52
3:CA:148:VAL:HG12	3:CA:149:GLY:N	2.24	0.52
3:CO:193:SER:HB3	3:CO:196:ILE:HD12	1.90	0.52
3:C2:193:SER:HB3	3:C2:196:ILE:HD12	1.90	0.52
3:C6:135:ARG:HB3	3:C6:186:TYR:CG	2.44	0.52
3:C6:193:SER:HB3	3:C6:196:ILE:HD12	1.90	0.52
3:Cc:135:ARG:HB3	3:Cc:186:TYR:CG	2.43	0.52
3:Cn:220:VAL:HG12	3:Cn:221:ASP:N	2.24	0.52
3:Cu:148:VAL:HG12	3:Cu:149:GLY:N	2.24	0.52
1:DC:104:VAL:HG22	1:DC:197:LEU:HD23	1.92	0.52
1:DD:104:VAL:HG22	1:DD:197:LEU:HD23	1.92	0.52
1:DF:246:GLN:NE2	1:DG:182:ALA:O	2.43	0.52
1:DH:246:GLN:NE2	1:DI:182:ALA:O	2.43	0.52
1:AD:104:VAL:HG22	1:AD:197:LEU:HD23	1.92	0.52
1:AG:246:GLN:NE2	1:DK:182:ALA:O	2.43	0.52
1:AH:182:ALA:O	1:DK:246:GLN:NE2	2.43	0.52
1:AJ:246:GLN:NE2	1:AK:182:ALA:O	2.43	0.52
1:AM:237:HIS:HB3	1:AM:239:PHE:CE1	2.45	0.52
1:AO:115:THR:HG22	1:AO:116:THR:N	2.24	0.52
1:AQ:104:VAL:HG22	1:AQ:197:LEU:HD23	1.92	0.52
1:AS:115:THR:HG22	1:AS:116:THR:N	2.24	0.52
1:AT:104:VAL:HG22	1:AT:197:LEU:HD23	1.92	0.52
1:AT:115:THR:HG22	1:AT:116:THR:N	2.24	0.52
1:AT:246:GLN:NE2	1:AU:182:ALA:O	2.43	0.52
1:AU:115:THR:HG22	1:AU:116:THR:N	2.24	0.52
1:AV:182:ALA:O	1:AX:246:GLN:NE2	2.43	0.52
1:AW:237:HIS:HB3	1:AW:239:PHE:CE1	2.45	0.52
1:AY:182:ALA:O	1:A1:246:GLN:NE2	2.43	0.52
1:AY:237:HIS:HB3	1:AY:239:PHE:CE1	2.45	0.52
1:AZ:33:LEU:O	1:AZ:36:ARG:HD2	2.08	0.52
1:A3:237:HIS:HB3	1:A3:239:PHE:CE1	2.45	0.52
1:A4:246:GLN:NE2	1:A7:182:ALA:O	2.43	0.52
1:A9:115:THR:HG22	1:A9:116:THR:N	2.24	0.52
1:Ae:246:GLN:NE2	1:Ah:182:ALA:O	2.43	0.52
1:Ah:237:HIS:HB3	1:Ah:239:PHE:CE1	2.45	0.52
1:An:246:GLN:NE2	1:Ao:182:ALA:O	2.43	0.52
2:BF:73:GLN:NE2	2:BF:73:GLN:HA	2.25	0.52
2:BG:73:GLN:HA	2:BG:73:GLN:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:137:GLU:O	2:BM:139:ALA:N	2.41	0.52
2:BN:137:GLU:O	2:BN:139:ALA:N	2.41	0.52
2:BS:73:GLN:NE2	2:BS:73:GLN:HA	2.25	0.52
2:BZ:73:GLN:HA	2:BZ:73:GLN:NE2	2.25	0.52
2:Ba:73:GLN:NE2	2:Ba:73:GLN:HA	2.25	0.52
2:Be:157:VAL:HG23	3:Cf:50:THR:CG2	2.40	0.52
2:Bm:73:GLN:NE2	2:Bm:73:GLN:HA	2.25	0.52
2:Bv:73:GLN:HA	2:Bv:73:GLN:NE2	2.25	0.52
3:CC:220:VAL:HG12	3:CC:221:ASP:N	2.24	0.52
3:CS:193:SER:HB3	3:CS:196:ILE:HD12	1.90	0.52
3:CX:135:ARG:HB3	3:CX:186:TYR:CG	2.44	0.52
3:Ce:135:ARG:HB3	3:Ce:186:TYR:CG	2.44	0.52
3:Ci:193:SER:HB3	3:Ci:196:ILE:HD12	1.90	0.52
3:Cj:148:VAL:HG12	3:Cj:149:GLY:N	2.24	0.52
3:Cl:193:SER:HB3	3:Cl:196:ILE:HD12	1.91	0.52
3:Ct:220:VAL:HG12	3:Ct:221:ASP:N	2.24	0.52
3:DA:193:SER:HB3	3:DA:196:ILE:HD12	1.90	0.52
1:DC:237:HIS:HB3	1:DC:239:PHE:CE1	2.45	0.52
1:AD:237:HIS:HB3	1:AD:239:PHE:CE1	2.45	0.52
1:AF:237:HIS:HB3	1:AF:239:PHE:CE1	2.45	0.52
1:AJ:182:ALA:O	1:AM:246:GLN:NE2	2.43	0.52
1:AN:104:VAL:HG22	1:AN:197:LEU:HD23	1.92	0.52
1:AN:237:HIS:HB3	1:AN:239:PHE:CE1	2.45	0.52
1:AP:115:THR:HG22	1:AP:116:THR:N	2.24	0.52
1:AQ:237:HIS:HB3	1:AQ:239:PHE:CE1	2.45	0.52
1:AR:237:HIS:HB3	1:AR:239:PHE:CE1	2.45	0.52
1:AU:237:HIS:HB3	1:AU:239:PHE:CE1	2.45	0.52
1:A0:246:GLN:NE2	1:A1:182:ALA:O	2.43	0.52
1:A3:246:GLN:NE2	1:A4:182:ALA:O	2.43	0.52
1:A5:237:HIS:HB3	1:A5:239:PHE:CE1	2.45	0.52
1:A8:115:THR:HG22	1:A8:116:THR:N	2.24	0.52
1:A8:237:HIS:HB3	1:A8:239:PHE:CE1	2.45	0.52
1:Ac:237:HIS:HB3	1:Ac:239:PHE:CE1	2.45	0.52
1:Ad:246:GLN:NE2	1:Ae:182:ALA:O	2.43	0.52
1:Ai:182:ALA:O	1:Al:246:GLN:NE2	2.43	0.52
1:Ai:246:GLN:NE2	1:Aj:182:ALA:O	2.43	0.52
1:An:115:THR:HG22	1:An:116:THR:N	2.24	0.52
2:BG:83:LEU:HD11	2:BG:194:ILE:HD12	1.91	0.52
2:BU:73:GLN:HA	2:BU:73:GLN:NE2	2.25	0.52
2:BV:157:VAL:HG23	3:CV:50:THR:CG2	2.40	0.52
2:B8:83:LEU:HD11	2:B8:194:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bd:157:VAL:HG23	3:Ce:50:THR:CG2	2.39	0.52
3:CI:220:VAL:HG12	3:CI:221:ASP:N	2.23	0.52
3:CK:193:SER:HB3	3:CK:196:ILE:HD12	1.90	0.52
3:C7:220:VAL:HG12	3:C7:221:ASP:N	2.23	0.52
3:C8:148:VAL:HG12	3:C8:149:GLY:N	2.24	0.52
3:Cs:148:VAL:HG12	3:Cs:149:GLY:N	2.24	0.52
3:Cs:193:SER:HB3	3:Cs:196:ILE:HD12	1.91	0.52
3:DB:148:VAL:HG12	3:DB:149:GLY:N	2.24	0.52
3:DB:193:SER:HB3	3:DB:196:ILE:HD12	1.90	0.52
1:AB:115:THR:HG22	1:AB:116:THR:N	2.24	0.52
1:AB:237:HIS:HB3	1:AB:239:PHE:CE1	2.45	0.52
1:AE:115:THR:HG22	1:AE:116:THR:N	2.24	0.52
1:AE:207:CYS:O	1:AE:208:TYR:CB	2.57	0.52
1:AE:237:HIS:HB3	1:AE:239:PHE:CE1	2.45	0.52
1:AQ:182:ALA:O	1:AS:246:GLN:NE2	2.43	0.52
1:AV:45:LEU:HB2	1:AV:202:HIS:HA	1.90	0.52
1:AW:104:VAL:HG22	1:AW:197:LEU:HD23	1.92	0.52
1:A0:246:GLN:HE22	1:A1:183:THR:HA	1.73	0.52
1:A1:173:GLY:O	1:A1:184:TYR:O	2.28	0.52
1:A1:237:HIS:HB3	1:A1:239:PHE:CE1	2.45	0.52
1:A3:104:VAL:HG22	1:A3:197:LEU:HD23	1.92	0.52
1:A3:182:ALA:O	1:A6:246:GLN:NE2	2.43	0.52
1:A6:237:HIS:HB3	1:A6:239:PHE:CE1	2.45	0.52
1:Ab:45:LEU:HB2	1:Ab:202:HIS:HA	1.90	0.52
1:Ae:237:HIS:HB3	1:Ae:239:PHE:CE1	2.45	0.52
1:Ah:115:THR:HG22	1:Ah:116:THR:N	2.24	0.52
1:Ai:115:THR:HG22	1:Ai:116:THR:N	2.24	0.52
1:Ak:182:ALA:O	1:Am:246:GLN:NE2	2.43	0.52
1:Al:104:VAL:HG22	1:Al:197:LEU:HD23	1.92	0.52
1:Ao:237:HIS:HB3	1:Ao:239:PHE:CE1	2.45	0.52
2:BE:73:GLN:NE2	2:BE:73:GLN:HA	2.25	0.52
2:BR:73:GLN:HA	2:BR:73:GLN:NE2	2.25	0.52
2:BT:83:LEU:HD11	2:BT:194:ILE:HD12	1.91	0.52
3:CD:148:VAL:HG12	3:CD:149:GLY:N	2.24	0.52
3:CH:148:VAL:HG12	3:CH:149:GLY:N	2.24	0.52
3:CJ:220:VAL:HG12	3:CJ:221:ASP:N	2.23	0.52
3:CM:193:SER:HB3	3:CM:196:ILE:HD12	1.90	0.52
3:CP:148:VAL:HG12	3:CP:149:GLY:N	2.24	0.52
3:Cf:135:ARG:HB3	3:Cf:186:TYR:CG	2.44	0.52
3:Cl:148:VAL:HG12	3:Cl:149:GLY:N	2.24	0.52
3:Cm:148:VAL:HG12	3:Cm:149:GLY:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cp:148:VAL:HG12	3:Cp:149:GLY:N	2.24	0.52
3:Cp:220:VAL:HG12	3:Cp:221:ASP:N	2.24	0.52
3:Cq:193:SER:HB3	3:Cq:196:ILE:HD12	1.90	0.52
1:DG:207:CYS:O	1:DG:208:TYR:CB	2.57	0.52
1:DK:104:VAL:HG22	1:DK:197:LEU:HD23	1.92	0.52
1:DK:191:HIS:CD2	1:DK:193:GLY:H	2.21	0.52
1:AA:104:VAL:HG22	1:AA:197:LEU:HD23	1.92	0.52
1:AB:45:LEU:HB2	1:AB:202:HIS:HA	1.90	0.52
1:AF:246:GLN:HE22	1:AG:183:THR:HA	1.73	0.52
1:AF:246:GLN:NE2	1:AG:182:ALA:O	2.43	0.52
1:AG:237:HIS:HB3	1:AG:239:PHE:CE1	2.45	0.52
1:AL:182:ALA:O	1:AN:246:GLN:NE2	2.43	0.52
1:AN:115:THR:HG22	1:AN:116:THR:N	2.24	0.52
1:AX:237:HIS:HB3	1:AX:239:PHE:CE1	2.45	0.52
1:A0:115:THR:HG22	1:A0:116:THR:N	2.24	0.52
1:A0:182:ALA:O	1:A2:246:GLN:NE2	2.43	0.52
1:A5:182:ALA:O	1:A7:246:GLN:NE2	2.43	0.52
1:A9:237:HIS:HB3	1:A9:239:PHE:CE1	2.45	0.52
1:Ab:173:GLY:O	1:Ab:184:TYR:O	2.28	0.52
1:Ag:173:GLY:O	1:Ag:184:TYR:O	2.28	0.52
1:Ai:104:VAL:HG22	1:Ai:197:LEU:HD23	1.92	0.52
1:Am:104:VAL:HG22	1:Am:197:LEU:HD23	1.92	0.52
1:Ao:173:GLY:O	1:Ao:184:TYR:O	2.28	0.52
2:BE:167:THR:HB	2:BE:168:ASN:ND2	2.25	0.52
2:BG:167:THR:HB	2:BG:168:ASN:ND2	2.25	0.52
2:BP:157:VAL:HG23	3:CR:50:THR:CG2	2.39	0.52
2:BY:101:HIS:CG	2:BY:222:VAL:CG1	2.93	0.52
2:Bi:137:GLU:O	2:Bi:139:ALA:N	2.41	0.52
2:Bp:101:HIS:CG	2:Bp:222:VAL:CG1	2.93	0.52
2:Bw:167:THR:HB	2:Bw:168:ASN:ND2	2.25	0.52
3:CE:148:VAL:HG12	3:CE:149:GLY:N	2.24	0.52
3:CM:135:ARG:HB3	3:CM:186:TYR:CG	2.44	0.52
3:CN:148:VAL:HG12	3:CN:149:GLY:N	2.24	0.52
3:CU:193:SER:HB3	3:CU:196:ILE:HD12	1.90	0.52
3:C6:148:VAL:HG12	3:C6:149:GLY:N	2.24	0.52
3:Ck:148:VAL:HG12	3:Ck:149:GLY:N	2.24	0.52
3:Cr:148:VAL:HG12	3:Cr:149:GLY:N	2.24	0.52
1:DC:246:GLN:NE2	1:DD:182:ALA:O	2.43	0.52
1:DG:246:GLN:HE22	1:DJ:183:THR:HA	1.73	0.52
1:AH:104:VAL:HG22	1:AH:197:LEU:HD23	1.92	0.52
1:AI:173:GLY:O	1:AI:184:TYR:O	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:237:HIS:HB3	1:AJ:239:PHE:CE1	2.45	0.52
1:AK:173:GLY:O	1:AK:184:TYR:O	2.28	0.52
1:AK:237:HIS:HB3	1:AK:239:PHE:CE1	2.45	0.52
1:AL:173:GLY:O	1:AL:184:TYR:O	2.28	0.52
1:AQ:246:GLN:HE22	1:AR:183:THR:HA	1.73	0.52
1:AT:182:ALA:O	1:AW:246:GLN:NE2	2.43	0.52
1:AV:246:GLN:NE2	1:AW:182:ALA:O	2.43	0.52
1:A0:173:GLY:O	1:A0:184:TYR:O	2.28	0.52
1:A2:115:THR:HG22	1:A2:116:THR:N	2.24	0.52
1:A8:246:GLN:NE2	1:A9:182:ALA:O	2.43	0.52
1:Aa:191:HIS:CD2	1:Aa:193:GLY:H	2.21	0.52
1:Ad:182:ALA:O	1:Ag:246:GLN:NE2	2.43	0.52
1:Af:237:HIS:HB3	1:Af:239:PHE:CE1	2.45	0.52
1:Am:237:HIS:HB3	1:Am:239:PHE:CE1	2.45	0.52
2:BB:101:HIS:CG	2:BB:222:VAL:CG1	2.93	0.52
2:BM:101:HIS:CG	2:BM:222:VAL:CG1	2.93	0.52
2:BN:157:VAL:HG23	3:CN:50:THR:CG2	2.39	0.52
2:BS:167:THR:HB	2:BS:168:ASN:ND2	2.25	0.52
2:BX:73:GLN:HA	2:BX:73:GLN:NE2	2.25	0.52
2:B0:101:HIS:CG	2:B0:222:VAL:CG1	2.93	0.52
2:B4:167:THR:HB	2:B4:168:ASN:ND2	2.25	0.52
2:B6:101:HIS:CG	2:B6:222:VAL:CG1	2.94	0.52
2:B8:101:HIS:CG	2:B8:222:VAL:CG1	2.93	0.52
2:B9:167:THR:HB	2:B9:168:ASN:ND2	2.25	0.52
2:Bj:101:HIS:CG	2:Bj:222:VAL:CG1	2.93	0.52
2:Bq:73:GLN:HA	2:Bq:73:GLN:NE2	2.25	0.52
2:Bx:101:HIS:CG	2:Bx:222:VAL:CG1	2.93	0.52
3:Cn:148:VAL:HG12	3:Cn:149:GLY:N	2.24	0.52
3:Cp:135:ARG:HB3	3:Cp:186:TYR:CG	2.44	0.52
1:DH:182:ALA:O	1:DJ:246:GLN:NE2	2.43	0.52
1:DI:237:HIS:HB3	1:DI:239:PHE:CE1	2.45	0.52
1:DJ:115:THR:HG22	1:DJ:116:THR:N	2.24	0.52
1:AB:173:GLY:O	1:AB:184:TYR:O	2.28	0.51
1:AC:246:GLN:NE2	1:AD:182:ALA:O	2.43	0.51
1:AH:237:HIS:HB3	1:AH:239:PHE:CE1	2.45	0.51
1:AI:104:VAL:HG22	1:AI:197:LEU:HD23	1.92	0.51
1:AO:246:GLN:NE2	1:AP:182:ALA:O	2.43	0.51
1:AQ:246:GLN:NE2	1:AR:182:ALA:O	2.43	0.51
1:AZ:207:CYS:O	1:AZ:208:TYR:CB	2.57	0.51
1:A1:191:HIS:CD2	1:A1:193:GLY:H	2.21	0.51
1:A2:237:HIS:HB3	1:A2:239:PHE:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:237:HIS:HB3	1:A4:239:PHE:CE1	2.45	0.51
1:A5:173:GLY:O	1:A5:184:TYR:O	2.28	0.51
1:Ab:237:HIS:HB3	1:Ab:239:PHE:CE1	2.45	0.51
1:Ad:104:VAL:HG22	1:Ad:197:LEU:HD23	1.92	0.51
1:Aj:237:HIS:HB3	1:Aj:239:PHE:CE1	2.45	0.51
1:Aj:246:GLN:NE2	1:Am:182:ALA:O	2.43	0.51
1:Ak:104:VAL:HG22	1:Ak:197:LEU:HD23	1.92	0.51
2:BB:157:VAL:HG23	3:CB:50:THR:CG2	2.40	0.51
2:BK:73:GLN:NE2	2:BK:73:GLN:HA	2.25	0.51
2:BS:101:HIS:CG	2:BS:222:VAL:CG1	2.94	0.51
2:BT:157:VAL:HG23	3:CT:50:THR:CG2	2.39	0.51
2:BZ:167:THR:HB	2:BZ:168:ASN:ND2	2.25	0.51
2:B1:101:HIS:CG	2:B1:222:VAL:CG1	2.93	0.51
2:B1:167:THR:HB	2:B1:168:ASN:ND2	2.25	0.51
2:B3:167:THR:HB	2:B3:168:ASN:ND2	2.25	0.51
2:B8:73:GLN:NE2	2:B8:73:GLN:HA	2.25	0.51
2:Bf:101:HIS:CG	2:Bf:222:VAL:CG1	2.94	0.51
2:Bg:83:LEU:HD11	2:Bg:194:ILE:HD12	1.91	0.51
2:Bi:83:LEU:HD11	2:Bi:194:ILE:HD12	1.91	0.51
2:Bl:101:HIS:CG	2:Bl:222:VAL:CG1	2.94	0.51
2:Bm:167:THR:HB	2:Bm:168:ASN:ND2	2.25	0.51
2:Bn:101:HIS:CG	2:Bn:222:VAL:CG1	2.94	0.51
2:Bo:101:HIS:CG	2:Bo:222:VAL:CG1	2.93	0.51
2:Bp:167:THR:HB	2:Bp:168:ASN:ND2	2.25	0.51
3:CH:135:ARG:HB3	3:CH:186:TYR:CG	2.44	0.51
3:CV:135:ARG:HB3	3:CV:186:TYR:CG	2.44	0.51
3:CZ:148:VAL:HG12	3:CZ:149:GLY:N	2.24	0.51
1:DC:115:THR:HG22	1:DC:116:THR:N	2.24	0.51
1:DC:182:ALA:O	1:DE:246:GLN:NE2	2.43	0.51
1:DE:173:GLY:O	1:DE:184:TYR:O	2.28	0.51
1:DF:173:GLY:O	1:DF:184:TYR:O	2.28	0.51
1:DG:237:HIS:HB3	1:DG:239:PHE:CE1	2.45	0.51
1:DH:173:GLY:O	1:DH:184:TYR:O	2.28	0.51
1:DI:104:VAL:HG22	1:DI:197:LEU:HD23	1.91	0.51
1:AE:173:GLY:O	1:AE:184:TYR:O	2.28	0.51
1:AI:237:HIS:HB3	1:AI:239:PHE:CE1	2.45	0.51
1:AL:45:LEU:HB2	1:AL:202:HIS:HA	1.90	0.51
1:AL:104:VAL:HG22	1:AL:197:LEU:HD23	1.92	0.51
1:AO:173:GLY:O	1:AO:184:TYR:O	2.28	0.51
1:AP:104:VAL:HG22	1:AP:197:LEU:HD23	1.92	0.51
1:AT:173:GLY:O	1:AT:184:TYR:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:191:HIS:CD2	1:AV:193:GLY:H	2.21	0.51
1:AW:173:GLY:O	1:AW:184:TYR:O	2.28	0.51
1:AY:115:THR:HG22	1:AY:116:THR:N	2.24	0.51
1:AY:246:GLN:NE2	1:AZ:182:ALA:O	2.43	0.51
1:AZ:237:HIS:HB3	1:AZ:239:PHE:CE1	2.45	0.51
1:A4:173:GLY:O	1:A4:184:TYR:O	2.28	0.51
1:A5:115:THR:HG22	1:A5:116:THR:N	2.24	0.51
1:Aa:104:VAL:HG22	1:Aa:197:LEU:HD23	1.92	0.51
1:Ab:191:HIS:CD2	1:Ab:193:GLY:H	2.21	0.51
1:Ae:173:GLY:O	1:Ae:184:TYR:O	2.28	0.51
1:Af:104:VAL:HG22	1:Af:197:LEU:HD23	1.92	0.51
1:Af:182:ALA:O	1:Ah:246:GLN:NE2	2.43	0.51
1:Ag:237:HIS:HB3	1:Ag:239:PHE:CE1	2.45	0.51
1:Aj:45:LEU:HB2	1:Aj:202:HIS:HA	1.90	0.51
1:Aj:115:THR:HG22	1:Aj:116:THR:N	2.24	0.51
1:An:104:VAL:HG22	1:An:197:LEU:HD23	1.92	0.51
1:An:237:HIS:HB3	1:An:239:PHE:CE1	2.45	0.51
2:BC:73:GLN:NE2	2:BC:73:GLN:HA	2.25	0.51
2:BF:101:HIS:CG	2:BF:222:VAL:CG1	2.93	0.51
2:BF:137:GLU:O	2:BF:139:ALA:N	2.41	0.51
2:BK:157:VAL:HG23	3:CK:50:THR:CG2	2.40	0.51
2:BL:167:THR:HB	2:BL:168:ASN:ND2	2.25	0.51
2:BR:167:THR:HB	2:BR:168:ASN:ND2	2.25	0.51
2:BQ:101:HIS:CG	2:BQ:222:VAL:CG1	2.93	0.51
2:BU:157:VAL:HG23	3:CU:50:THR:CG2	2.40	0.51
2:BU:167:THR:HB	2:BU:168:ASN:ND2	2.25	0.51
2:BV:167:THR:HB	2:BV:168:ASN:ND2	2.25	0.51
2:Bb:73:GLN:NE2	2:Bb:73:GLN:HA	2.25	0.51
2:Bi:167:THR:HB	2:Bi:168:ASN:ND2	2.25	0.51
2:Bk:167:THR:HB	2:Bk:168:ASN:ND2	2.25	0.51
2:Br:167:THR:HB	2:Br:168:ASN:ND2	2.25	0.51
2:Bs:167:THR:HB	2:Bs:168:ASN:ND2	2.25	0.51
2:Bu:83:LEU:HD11	2:Bu:194:ILE:HD12	1.91	0.51
2:Bw:101:HIS:CG	2:Bw:222:VAL:CG1	2.93	0.51
3:CK:148:VAL:HG12	3:CK:149:GLY:N	2.24	0.51
3:Cc:193:SER:HB3	3:Cc:196:ILE:HD12	1.91	0.51
3:Cv:148:VAL:HG12	3:Cv:149:GLY:N	2.24	0.51
1:DF:182:ALA:O	1:DI:246:GLN:NE2	2.43	0.51
1:DG:246:GLN:NE2	1:DJ:182:ALA:O	2.43	0.51
1:DK:237:HIS:HB3	1:DK:239:PHE:CE1	2.45	0.51
1:AH:173:GLY:O	1:AH:184:TYR:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:70:ARG:HH11	3:CP:222:LEU:HD21	1.76	0.51
1:AS:70:ARG:HH11	3:CT:222:LEU:HD21	1.76	0.51
1:AV:173:GLY:O	1:AV:184:TYR:O	2.28	0.51
1:AZ:104:VAL:HG22	1:AZ:197:LEU:HD23	1.92	0.51
1:A5:104:VAL:HG22	1:A5:197:LEU:HD23	1.92	0.51
1:Aa:237:HIS:HB3	1:Aa:239:PHE:CE1	2.45	0.51
1:Af:173:GLY:O	1:Af:184:TYR:O	2.28	0.51
1:Ag:104:VAL:HG22	1:Ag:197:LEU:HD23	1.92	0.51
1:Ai:237:HIS:HB3	1:Ai:239:PHE:CE1	2.45	0.51
1:Aj:246:GLN:HE22	1:Am:183:THR:HA	1.73	0.51
1:Ak:237:HIS:HB3	1:Ak:239:PHE:CE1	2.45	0.51
1:Al:237:HIS:HB3	1:Al:239:PHE:CE1	2.45	0.51
2:BC:101:HIS:CG	2:BC:222:VAL:CG1	2.93	0.51
2:BD:167:THR:HB	2:BD:168:ASN:ND2	2.25	0.51
2:BG:101:HIS:CG	2:BG:222:VAL:CG1	2.93	0.51
2:BI:101:HIS:CG	2:BI:222:VAL:CG1	2.93	0.51
2:BK:101:HIS:CG	2:BK:222:VAL:CG1	2.94	0.51
2:BM:73:GLN:HA	2:BM:73:GLN:NE2	2.25	0.51
2:BN:101:HIS:CG	2:BN:222:VAL:CG1	2.94	0.51
2:BZ:101:HIS:CG	2:BZ:222:VAL:CG1	2.93	0.51
2:B3:73:GLN:HA	2:B3:73:GLN:NE2	2.25	0.51
2:Bc:101:HIS:CG	2:Bc:222:VAL:CG1	2.93	0.51
2:Bc:167:THR:HB	2:Bc:168:ASN:ND2	2.25	0.51
2:Bc:213:MET:HE3	2:Bc:215:VAL:HG22	1.93	0.51
2:Bd:101:HIS:CG	2:Bd:222:VAL:CG1	2.94	0.51
2:Bf:137:GLU:O	2:Bf:139:ALA:N	2.41	0.51
2:Bs:213:MET:HE3	2:Bs:215:VAL:HG22	1.93	0.51
2:Bu:101:HIS:CG	2:Bu:222:VAL:CG1	2.94	0.51
2:Bu:137:GLU:O	2:Bu:139:ALA:N	2.41	0.51
3:C3:148:VAL:HG12	3:C3:149:GLY:N	2.24	0.51
3:C4:193:SER:HB3	3:C4:196:ILE:HD12	1.90	0.51
1:DD:191:HIS:CD2	1:DD:193:GLY:H	2.21	0.51
1:DD:237:HIS:HB3	1:DD:239:PHE:CE1	2.45	0.51
1:DF:237:HIS:HB3	1:DF:239:PHE:CE1	2.45	0.51
1:AC:182:ALA:O	1:AE:246:GLN:NE2	2.43	0.51
1:AG:104:VAL:HG22	1:AG:197:LEU:HD23	1.92	0.51
1:AH:246:GLN:NE2	1:AI:182:ALA:O	2.43	0.51
1:AQ:173:GLY:O	1:AQ:184:TYR:O	2.28	0.51
1:AR:104:VAL:HG22	1:AR:197:LEU:HD23	1.92	0.51
1:AX:173:GLY:O	1:AX:184:TYR:O	2.28	0.51
1:AZ:173:GLY:O	1:AZ:184:TYR:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:104:VAL:HG22	1:A2:197:LEU:HD23	1.92	0.51
1:A3:191:HIS:CD2	1:A3:193:GLY:H	2.21	0.51
1:A7:104:VAL:HG22	1:A7:197:LEU:HD23	1.92	0.51
1:A8:182:ALA:O	1:Ab:246:GLN:NE2	2.43	0.51
1:Ae:70:ARG:HH11	3:Cf:222:LEU:HD21	1.76	0.51
1:Af:70:ARG:HH11	3:Cg:222:LEU:HD21	1.76	0.51
1:Ah:70:ARG:HH11	3:Ci:222:LEU:HD21	1.76	0.51
1:Ah:173:GLY:O	1:Ah:184:TYR:O	2.28	0.51
1:Ah:191:HIS:CD2	1:Ah:193:GLY:H	2.21	0.51
1:An:70:ARG:HH11	3:Co:222:LEU:HD21	1.76	0.51
1:An:173:GLY:O	1:An:184:TYR:O	2.28	0.51
1:An:182:ALA:O	1:DD:246:GLN:NE2	2.43	0.51
2:BA:101:HIS:CG	2:BA:222:VAL:CG1	2.93	0.51
2:BC:167:THR:HB	2:BC:168:ASN:ND2	2.25	0.51
2:BN:167:THR:HB	2:BN:168:ASN:ND2	2.26	0.51
2:BV:73:GLN:NE2	2:BV:73:GLN:HA	2.25	0.51
2:BX:213:MET:HE3	2:BX:215:VAL:HG22	1.93	0.51
2:B5:213:MET:HE3	2:B5:215:VAL:HG22	1.93	0.51
2:B9:101:HIS:CG	2:B9:222:VAL:CG1	2.93	0.51
2:Bb:101:HIS:CG	2:Bb:222:VAL:CG1	2.94	0.51
2:Bd:167:THR:HB	2:Bd:168:ASN:ND2	2.25	0.51
2:Bg:167:THR:HB	2:Bg:168:ASN:ND2	2.25	0.51
2:Bj:167:THR:HB	2:Bj:168:ASN:ND2	2.25	0.51
2:Bs:101:HIS:CG	2:Bs:222:VAL:CG1	2.94	0.51
2:Bt:73:GLN:HA	2:Bt:73:GLN:NE2	2.25	0.51
2:Bv:213:MET:HE3	2:Bv:215:VAL:HG22	1.93	0.51
3:CC:193:SER:HB3	3:CC:196:ILE:HD12	1.90	0.51
3:CU:148:VAL:HG12	3:CU:149:GLY:N	2.24	0.51
3:C7:148:VAL:HG12	3:C7:149:GLY:N	2.24	0.51
3:Cc:148:VAL:HG12	3:Cc:149:GLY:N	2.24	0.51
1:DD:115:THR:HG22	1:DD:116:THR:N	2.24	0.51
1:DE:104:VAL:HG22	1:DE:197:LEU:HD23	1.92	0.51
1:DE:237:HIS:HB3	1:DE:239:PHE:CE1	2.45	0.51
1:AA:237:HIS:HB3	1:AA:239:PHE:CE1	2.45	0.51
1:AC:191:HIS:CD2	1:AC:193:GLY:H	2.21	0.51
1:AC:237:HIS:HB3	1:AC:239:PHE:CE1	2.45	0.51
1:AK:104:VAL:HG22	1:AK:197:LEU:HD23	1.92	0.51
1:AO:182:ALA:O	1:AR:246:GLN:NE2	2.43	0.51
1:AV:104:VAL:HG22	1:AV:197:LEU:HD23	1.92	0.51
1:A9:246:GLN:NE2	1:Ac:182:ALA:O	2.43	0.51
1:Ae:104:VAL:HG22	1:Ae:197:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:115:THR:HG22	1:Ae:116:THR:N	2.24	0.51
1:Ak:246:GLN:NE2	1:Al:182:ALA:O	2.43	0.51
2:BE:101:HIS:CG	2:BE:222:VAL:CG1	2.94	0.51
2:BH:213:MET:HE3	2:BH:215:VAL:HG22	1.93	0.51
2:BJ:101:HIS:CG	2:BJ:222:VAL:CG1	2.93	0.51
2:BK:167:THR:HB	2:BK:168:ASN:ND2	2.25	0.51
2:BL:101:HIS:CG	2:BL:222:VAL:CG1	2.93	0.51
2:BL:213:MET:HE3	2:BL:215:VAL:HG22	1.93	0.51
2:BM:167:THR:HB	2:BM:168:ASN:ND2	2.25	0.51
2:BP:213:MET:HE3	2:BP:215:VAL:HG22	1.93	0.51
2:BY:213:MET:HE3	2:BY:215:VAL:HG22	1.93	0.51
2:B0:137:GLU:O	2:B0:139:ALA:N	2.42	0.51
2:B2:167:THR:HB	2:B2:168:ASN:ND2	2.25	0.51
2:B2:213:MET:HE3	2:B2:215:VAL:HG22	1.93	0.51
2:B3:101:HIS:CG	2:B3:222:VAL:CG1	2.93	0.51
2:Ba:157:VAL:HG23	3:DB:50:THR:CG2	2.39	0.51
2:Ba:167:THR:HB	2:Ba:168:ASN:ND2	2.25	0.51
2:Bg:101:HIS:CG	2:Bg:222:VAL:CG1	2.94	0.51
2:Bi:101:HIS:CG	2:Bi:222:VAL:CG1	2.93	0.51
2:Bm:213:MET:HE3	2:Bm:215:VAL:HG22	1.93	0.51
2:Bo:167:THR:HB	2:Bo:168:ASN:ND2	2.25	0.51
2:Bv:101:HIS:CG	2:Bv:222:VAL:CG1	2.93	0.51
2:Bx:73:GLN:NE2	2:Bx:73:GLN:HA	2.25	0.51
3:CO:148:VAL:HG12	3:CO:149:GLY:N	2.24	0.51
3:CX:220:VAL:HG12	3:CX:221:ASP:N	2.23	0.51
3:C4:148:VAL:HG12	3:C4:149:GLY:N	2.24	0.51
3:Cs:222:LEU:HD21	1:DE:70:ARG:HH11	1.76	0.51
3:Ct:148:VAL:HG12	3:Ct:149:GLY:N	2.24	0.51
3:Cv:222:LEU:HD21	1:DH:70:ARG:HH11	1.76	0.51
1:DG:173:GLY:O	1:DG:184:TYR:O	2.28	0.51
1:DH:115:THR:HG22	1:DH:116:THR:N	2.24	0.51
1:DJ:237:HIS:HB3	1:DJ:239:PHE:CE1	2.45	0.51
1:DK:173:GLY:O	1:DK:184:TYR:O	2.28	0.51
1:AB:246:GLN:NE2	1:AE:182:ALA:O	2.43	0.51
1:AC:115:THR:HG22	1:AC:116:THR:N	2.24	0.51
1:AC:173:GLY:O	1:AC:184:TYR:O	2.28	0.51
1:AF:182:ALA:O	1:AI:246:GLN:NE2	2.43	0.51
1:AL:237:HIS:HB3	1:AL:239:PHE:CE1	2.45	0.51
1:AP:237:HIS:HB3	1:AP:239:PHE:CE1	2.45	0.51
1:AS:237:HIS:HB3	1:AS:239:PHE:CE1	2.45	0.51
1:A9:104:VAL:HG22	1:A9:197:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:104:VAL:HG22	1:Aj:197:LEU:HD23	1.92	0.51
1:Ao:70:ARG:HH11	3:Cp:222:LEU:HD21	1.76	0.51
2:BA:167:THR:HB	2:BA:168:ASN:ND2	2.25	0.51
2:BC:157:VAL:HG23	3:CC:50:THR:CG2	2.39	0.51
2:BH:167:THR:HB	2:BH:168:ASN:ND2	2.25	0.51
2:BK:213:MET:HE3	2:BK:215:VAL:HG22	1.93	0.51
2:BQ:167:THR:HB	2:BQ:168:ASN:ND2	2.26	0.51
2:BQ:213:MET:HE3	2:BQ:215:VAL:HG22	1.93	0.51
2:BT:73:GLN:NE2	2:BT:73:GLN:HA	2.25	0.51
2:BU:101:HIS:CG	2:BU:222:VAL:CG1	2.94	0.51
2:BV:101:HIS:CG	2:BV:222:VAL:CG1	2.93	0.51
2:BV:137:GLU:O	2:BV:139:ALA:N	2.41	0.51
2:BW:101:HIS:CG	2:BW:222:VAL:CG1	2.94	0.51
2:B2:73:GLN:NE2	2:B2:73:GLN:HA	2.25	0.51
2:B2:101:HIS:CG	2:B2:222:VAL:CG1	2.94	0.51
2:B4:101:HIS:CG	2:B4:222:VAL:CG1	2.94	0.51
2:B6:73:GLN:HA	2:B6:73:GLN:NE2	2.25	0.51
2:B7:84:PRO:CG	2:B7:85:SER:H	2.24	0.51
2:Bb:213:MET:HE3	2:Bb:215:VAL:HG22	1.93	0.51
2:Bh:101:HIS:CG	2:Bh:222:VAL:CG1	2.93	0.51
2:Bh:167:THR:HB	2:Bh:168:ASN:ND2	2.25	0.51
2:Bm:101:HIS:CG	2:Bm:222:VAL:CG1	2.93	0.51
2:Bn:73:GLN:HA	2:Bn:73:GLN:NE2	2.25	0.51
2:Bt:167:THR:HB	2:Bt:168:ASN:ND2	2.25	0.51
2:Bu:84:PRO:CG	2:Bu:85:SER:H	2.24	0.51
3:CY:148:VAL:HG12	3:CY:149:GLY:N	2.24	0.51
3:C2:132:PRO:HG2	3:C2:184:GLN:HE22	1.76	0.51
3:Cs:132:PRO:HG2	3:Cs:184:GLN:HE22	1.76	0.51
1:DE:207:CYS:O	1:DE:208:TYR:CB	2.57	0.51
1:DH:237:HIS:HB3	1:DH:239:PHE:CE1	2.45	0.51
1:DI:115:THR:HG22	1:DI:116:THR:N	2.24	0.51
1:DJ:104:VAL:HG22	1:DJ:197:LEU:HD23	1.92	0.51
1:AD:70:ARG:HH11	3:CD:222:LEU:HD21	1.76	0.51
1:AH:70:ARG:HH11	3:CH:222:LEU:HD21	1.76	0.51
1:AJ:70:ARG:HH11	3:CK:222:LEU:HD21	1.76	0.51
1:AK:70:ARG:HH11	3:CL:222:LEU:HD21	1.76	0.51
1:AQ:115:THR:HG22	1:AQ:116:THR:N	2.24	0.51
1:A7:173:GLY:O	1:A7:184:TYR:O	2.28	0.51
1:A7:237:HIS:HB3	1:A7:239:PHE:CE1	2.45	0.51
1:Ac:104:VAL:HG22	1:Ac:197:LEU:HD23	1.92	0.51
1:Ac:207:CYS:O	1:Ac:208:TYR:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:173:GLY:O	1:Ai:184:TYR:O	2.28	0.51
1:Ak:173:GLY:O	1:Ak:184:TYR:O	2.28	0.51
2:BA:102:HIS:CE1	3:CD:127:PRO:HG2	2.46	0.51
2:BD:101:HIS:CG	2:BD:222:VAL:CG1	2.94	0.51
2:BF:84:PRO:CG	2:BF:85:SER:H	2.24	0.51
2:BH:84:PRO:CG	2:BH:85:SER:H	2.24	0.51
2:BI:84:PRO:CG	2:BI:85:SER:H	2.24	0.51
2:BJ:213:MET:HE3	2:BJ:215:VAL:HG22	1.93	0.51
2:BM:84:PRO:CG	2:BM:85:SER:H	2.24	0.51
2:BR:213:MET:HE3	2:BR:215:VAL:HG22	1.93	0.51
2:BP:101:HIS:CG	2:BP:222:VAL:CG1	2.93	0.51
2:BT:102:HIS:CE1	3:CQ:127:PRO:HG2	2.46	0.51
2:BU:213:MET:HE3	2:BU:215:VAL:HG22	1.93	0.51
2:BX:84:PRO:CG	2:BX:85:SER:H	2.24	0.51
2:BX:101:HIS:CG	2:BX:222:VAL:CG1	2.94	0.51
2:BY:167:THR:HB	2:BY:168:ASN:ND2	2.25	0.51
2:B0:73:GLN:HA	2:B0:73:GLN:NE2	2.25	0.51
2:B6:83:LEU:HD11	2:B6:194:ILE:HD12	1.91	0.51
2:Bb:84:PRO:CG	2:Bb:85:SER:H	2.24	0.51
2:Be:102:HIS:CE1	3:Ce:127:PRO:HG2	2.46	0.51
2:Bk:101:HIS:CG	2:Bk:222:VAL:CG1	2.93	0.51
2:Bk:213:MET:HE3	2:Bk:215:VAL:HG22	1.93	0.51
2:Bn:102:HIS:CE1	3:Cr:127:PRO:HG2	2.46	0.51
2:Bq:167:THR:HB	2:Bq:168:ASN:ND2	2.25	0.51
2:Br:102:HIS:CE1	3:Cp:127:PRO:HG2	2.46	0.51
2:Bs:102:HIS:CE1	3:Cw:127:PRO:HG2	2.46	0.51
2:Bt:213:MET:HE3	2:Bt:215:VAL:HG22	1.93	0.51
2:Bu:157:VAL:HG23	3:Cv:50:THR:CG2	2.39	0.51
2:Bv:157:VAL:HG23	3:Cw:50:THR:CG2	2.40	0.51
3:CC:132:PRO:HG2	3:CC:184:GLN:HE22	1.76	0.51
3:CN:132:PRO:HG2	3:CN:184:GLN:HE22	1.76	0.51
3:CW:148:VAL:HG12	3:CW:149:GLY:N	2.24	0.51
3:Cq:222:LEU:HD21	1:DC:70:ARG:HH11	1.76	0.51
3:Cr:222:LEU:HD21	1:DD:70:ARG:HH11	1.76	0.51
3:Cx:222:LEU:HD21	1:DJ:70:ARG:HH11	1.76	0.51
1:DE:115:THR:HG22	1:DE:116:THR:N	2.24	0.51
1:DF:104:VAL:HG22	1:DF:197:LEU:HD23	1.92	0.51
1:AF:104:VAL:HG22	1:AF:197:LEU:HD23	1.91	0.51
1:AJ:173:GLY:O	1:AJ:184:TYR:O	2.28	0.51
1:AL:70:ARG:HH11	3:CM:222:LEU:HD21	1.76	0.51
1:AL:191:HIS:CD2	1:AL:193:GLY:H	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:237:HIS:HB3	1:AO:239:PHE:CE1	2.45	0.51
1:AR:173:GLY:O	1:AR:184:TYR:O	2.28	0.51
1:A3:207:CYS:O	1:A3:208:TYR:CB	2.57	0.51
1:Ab:115:THR:HG22	1:Ab:116:THR:N	2.24	0.51
1:Am:70:ARG:HH11	3:Cn:222:LEU:HD21	1.76	0.51
2:BB:213:MET:HE3	2:BB:215:VAL:HG22	1.93	0.51
2:BC:102:HIS:CE1	3:CE:127:PRO:HG2	2.46	0.51
2:BD:73:GLN:HA	2:BD:73:GLN:NE2	2.25	0.51
2:BJ:102:HIS:CE1	3:CG:127:PRO:HG2	2.46	0.51
2:BJ:167:THR:HB	2:BJ:168:ASN:ND2	2.25	0.51
2:BM:213:MET:HE3	2:BM:215:VAL:HG22	1.93	0.51
2:BQ:102:HIS:CE1	3:CR:127:PRO:HG2	2.46	0.51
2:BT:101:HIS:CG	2:BT:222:VAL:CG1	2.94	0.51
2:BU:84:PRO:CG	2:BU:85:SER:H	2.24	0.51
2:BV:213:MET:HE3	2:BV:215:VAL:HG22	1.93	0.51
2:BW:73:GLN:HA	2:BW:73:GLN:NE2	2.25	0.51
2:B1:213:MET:HE3	2:B1:215:VAL:HG22	1.93	0.51
2:B8:157:VAL:HG23	3:C9:50:THR:CG2	2.39	0.51
2:B9:84:PRO:CG	2:B9:85:SER:H	2.24	0.51
2:Bc:73:GLN:HA	2:Bc:73:GLN:NE2	2.25	0.51
2:Bd:102:HIS:CE1	3:Ch:127:PRO:HG2	2.46	0.51
2:Be:213:MET:HE3	2:Be:215:VAL:HG22	1.93	0.51
2:Bf:167:THR:HB	2:Bf:168:ASN:ND2	2.25	0.51
2:Bh:102:HIS:CE1	3:Cf:127:PRO:HG2	2.46	0.51
2:Bk:73:GLN:HA	2:Bk:73:GLN:NE2	2.25	0.51
2:Bk:84:PRO:CG	2:Bk:85:SER:H	2.24	0.51
2:Bm:102:HIS:CE1	3:Ck:127:PRO:HG2	2.46	0.51
2:Bn:167:THR:HB	2:Bn:168:ASN:ND2	2.26	0.51
2:Bp:213:MET:HE3	2:Bp:215:VAL:HG22	1.93	0.51
2:Bq:102:HIS:CE1	3:Cq:127:PRO:HG2	2.46	0.51
3:Ci:132:PRO:HG2	3:Ci:184:GLN:HE22	1.76	0.51
3:DA:132:PRO:HG2	3:DA:184:GLN:HE22	1.76	0.51
1:AP:246:GLN:NE2	1:AS:182:ALA:O	2.43	0.51
1:AS:191:HIS:CD2	1:AS:193:GLY:H	2.21	0.51
1:AT:237:HIS:HB3	1:AT:239:PHE:CE1	2.45	0.51
1:AV:237:HIS:HB3	1:AV:239:PHE:CE1	2.45	0.51
1:AY:70:ARG:HH11	3:CZ:222:LEU:HD21	1.76	0.51
1:A3:173:GLY:O	1:A3:184:TYR:O	2.28	0.51
1:Ag:191:HIS:CD2	1:Ag:193:GLY:H	2.21	0.51
2:BA:84:PRO:CG	2:BA:85:SER:H	2.24	0.51
2:BB:73:GLN:HA	2:BB:73:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:167:THR:HB	2:BB:168:ASN:ND2	2.25	0.51
2:BD:213:MET:HE3	2:BD:215:VAL:HG22	1.93	0.51
2:BE:84:PRO:CG	2:BE:85:SER:H	2.24	0.51
2:BG:213:MET:HE3	2:BG:215:VAL:HG22	1.93	0.51
2:BO:167:THR:HB	2:BO:168:ASN:ND2	2.25	0.51
2:BX:157:VAL:HG23	3:CX:50:THR:CG2	2.40	0.51
2:B7:101:HIS:CG	2:B7:222:VAL:CG1	2.93	0.51
2:B7:167:THR:HB	2:B7:168:ASN:ND2	2.25	0.51
2:Bd:73:GLN:NE2	2:Bd:73:GLN:HA	2.25	0.51
2:Be:167:THR:HB	2:Be:168:ASN:ND2	2.25	0.51
2:Bg:84:PRO:CG	2:Bg:85:SER:H	2.24	0.51
2:Bi:84:PRO:CG	2:Bi:85:SER:H	2.24	0.51
2:Bl:213:MET:HE3	2:Bl:215:VAL:HG22	1.93	0.51
2:Bo:213:MET:HE3	2:Bo:215:VAL:HG22	1.93	0.51
2:Bq:101:HIS:CG	2:Bq:222:VAL:CG1	2.93	0.51
2:Bt:84:PRO:CG	2:Bt:85:SER:H	2.24	0.51
2:Bx:167:THR:HB	2:Bx:168:ASN:ND2	2.25	0.51
1:DH:104:VAL:HG22	1:DH:197:LEU:HD23	1.92	0.51
1:AE:104:VAL:HG22	1:AE:197:LEU:HD23	1.92	0.51
1:AE:188:PRO:HG3	3:CB:175:THR:HG23	1.93	0.51
1:AI:70:ARG:HH11	3:CI:222:LEU:HD21	1.76	0.51
1:AK:207:CYS:O	1:AK:208:TYR:CB	2.57	0.51
1:AQ:188:PRO:HG3	3:CT:175:THR:HG23	1.93	0.51
1:AS:38:PHE:O	1:AS:210:ARG:HA	2.11	0.51
1:AS:188:PRO:HG3	3:CQ:175:THR:HG23	1.93	0.51
1:AU:173:GLY:O	1:AU:184:TYR:O	2.28	0.51
1:AX:70:ARG:HH11	3:CY:222:LEU:HD21	1.76	0.51
1:AY:104:VAL:HG22	1:AY:197:LEU:HD23	1.92	0.51
1:AZ:70:ARG:HH11	3:C0:222:LEU:HD21	1.76	0.51
1:A2:173:GLY:O	1:A2:184:TYR:O	2.28	0.51
1:A2:188:PRO:HG3	3:C0:175:THR:HG23	1.93	0.51
1:A8:188:PRO:HG3	3:Cc:175:THR:HG23	1.93	0.51
1:Ah:38:PHE:O	1:Ah:210:ARG:HA	2.11	0.51
1:Ai:188:PRO:HG3	3:Cm:175:THR:HG23	1.93	0.51
1:Aj:173:GLY:O	1:Aj:184:TYR:O	2.28	0.51
1:Ak:115:THR:HG22	1:Ak:116:THR:N	2.24	0.51
1:Am:38:PHE:O	1:Am:210:ARG:HA	2.12	0.51
2:BC:213:MET:HE3	2:BC:215:VAL:HG22	1.93	0.51
2:BE:102:HIS:CE1	3:CB:127:PRO:HG2	2.46	0.51
2:BF:167:THR:HB	2:BF:168:ASN:ND2	2.25	0.51
2:BH:102:HIS:CE1	3:CJ:127:PRO:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:213:MET:HE3	2:BI:215:VAL:HG22	1.93	0.51
2:BJ:84:PRO:CG	2:BJ:85:SER:H	2.24	0.51
2:BL:73:GLN:HA	2:BL:73:GLN:NE2	2.25	0.51
2:BN:73:GLN:NE2	2:BN:73:GLN:HA	2.25	0.51
2:BU:102:HIS:CE1	3:CX:127:PRO:HG2	2.46	0.51
2:BW:213:MET:HE3	2:BW:215:VAL:HG22	1.93	0.51
2:BY:84:PRO:CG	2:BY:85:SER:H	2.24	0.51
2:BY:157:VAL:HG23	3:CY:50:THR:CG2	2.40	0.51
2:BZ:84:PRO:CG	2:BZ:85:SER:H	2.24	0.51
2:B1:73:GLN:HA	2:B1:73:GLN:NE2	2.25	0.51
2:B2:84:PRO:CG	2:B2:85:SER:H	2.24	0.51
2:B2:102:HIS:CE1	3:C1:127:PRO:HG2	2.46	0.51
2:B3:213:MET:HE3	2:B3:215:VAL:HG22	1.93	0.51
2:B9:137:GLU:O	2:B9:139:ALA:N	2.41	0.51
2:Bf:73:GLN:HA	2:Bf:73:GLN:NE2	2.25	0.51
2:Bg:102:HIS:CE1	3:Cg:127:PRO:HG2	2.46	0.51
2:Bl:167:THR:HB	2:Bl:168:ASN:ND2	2.26	0.51
2:Bn:84:PRO:CG	2:Bn:85:SER:H	2.24	0.51
2:Bo:73:GLN:NE2	2:Bo:73:GLN:HA	2.25	0.51
2:Bp:102:HIS:CE1	3:Cs:127:PRO:HG2	2.46	0.51
2:Br:101:HIS:CG	2:Br:222:VAL:CG1	2.93	0.51
2:Bs:84:PRO:CG	2:Bs:85:SER:H	2.24	0.51
2:Bt:101:HIS:CG	2:Bt:222:VAL:CG1	2.93	0.51
2:Bu:167:THR:HB	2:Bu:168:ASN:ND2	2.26	0.51
2:Bv:167:THR:HB	2:Bv:168:ASN:ND2	2.25	0.51
3:CE:132:PRO:HG2	3:CE:184:GLN:HE22	1.76	0.51
3:CK:132:PRO:HG2	3:CK:184:GLN:HE22	1.76	0.51
3:CS:132:PRO:HG2	3:CS:184:GLN:HE22	1.76	0.51
3:CX:132:PRO:HG2	3:CX:184:GLN:HE22	1.76	0.51
3:C6:132:PRO:HG2	3:C6:184:GLN:HE22	1.76	0.51
3:Cd:132:PRO:HG2	3:Cd:184:GLN:HE22	1.76	0.51
3:Ch:132:PRO:HG2	3:Ch:184:GLN:HE22	1.76	0.51
3:Cj:193:SER:HB3	3:Cj:196:ILE:HD12	1.91	0.51
3:Ct:222:LEU:HD21	1:DF:70:ARG:HH11	1.76	0.51
1:DC:173:GLY:O	1:DC:184:TYR:O	2.28	0.51
1:DE:38:PHE:O	1:DE:210:ARG:HA	2.12	0.51
1:AB:188:PRO:HG3	3:CA:175:THR:HG23	1.93	0.50
1:AC:188:PRO:HG3	3:CE:175:THR:HG23	1.93	0.50
1:AF:70:ARG:HH11	3:CF:222:LEU:HD21	1.76	0.50
1:AF:173:GLY:O	1:AF:184:TYR:O	2.28	0.50
1:AG:70:ARG:HH11	3:CG:222:LEU:HD21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:173:GLY:O	1:AG:184:TYR:O	2.28	0.50
1:AS:104:VAL:HG22	1:AS:197:LEU:HD23	1.92	0.50
1:AV:70:ARG:HH11	3:CW:222:LEU:HD21	1.76	0.50
1:A0:188:PRO:HG3	3:C3:175:THR:HG23	1.93	0.50
1:Ab:104:VAL:HG22	1:Ab:197:LEU:HD23	1.92	0.50
1:Ac:173:GLY:O	1:Ac:184:TYR:O	2.28	0.50
1:Ad:70:ARG:HH11	3:Ce:222:LEU:HD21	1.76	0.50
1:Ad:237:HIS:HB3	1:Ad:239:PHE:CE1	2.45	0.50
1:Ah:188:PRO:HG3	3:Cf:175:THR:HG23	1.93	0.50
1:Ao:188:PRO:HG3	3:Co:175:THR:HG23	1.93	0.50
2:BB:84:PRO:CG	2:BB:85:SER:H	2.24	0.50
2:BC:84:PRO:CG	2:BC:85:SER:H	2.24	0.50
2:BH:101:HIS:CG	2:BH:222:VAL:CG1	2.93	0.50
2:BI:102:HIS:CE1	3:CH:127:PRO:HG2	2.46	0.50
2:BR:84:PRO:CG	2:BR:85:SER:H	2.24	0.50
2:BR:101:HIS:CG	2:BR:222:VAL:CG1	2.94	0.50
2:BS:84:PRO:CG	2:BS:85:SER:H	2.24	0.50
2:BP:102:HIS:CE1	3:CT:127:PRO:HG2	2.46	0.50
2:BT:84:PRO:CG	2:BT:85:SER:H	2.24	0.50
2:BW:157:VAL:HG23	3:CW:50:THR:CG2	2.39	0.50
2:B0:167:THR:HB	2:B0:168:ASN:ND2	2.25	0.50
2:B0:213:MET:HE3	2:B0:215:VAL:HG22	1.93	0.50
2:B4:102:HIS:CE1	3:C7:127:PRO:HG2	2.46	0.50
2:B7:157:VAL:HG23	3:C8:50:THR:CG2	2.39	0.50
2:Ba:84:PRO:CG	2:Ba:85:SER:H	2.24	0.50
2:Ba:101:HIS:CG	2:Ba:222:VAL:CG1	2.93	0.50
2:Bb:167:THR:HB	2:Bb:168:ASN:ND2	2.25	0.50
2:Be:73:GLN:HA	2:Be:73:GLN:NE2	2.25	0.50
2:Be:84:PRO:CG	2:Be:85:SER:H	2.24	0.50
2:Be:101:HIS:CG	2:Be:222:VAL:CG1	2.93	0.50
2:Bh:84:PRO:CG	2:Bh:85:SER:H	2.24	0.50
2:Bi:73:GLN:HA	2:Bi:73:GLN:NE2	2.25	0.50
2:Bi:102:HIS:CE1	3:Cm:127:PRO:HG2	2.46	0.50
2:Bl:102:HIS:CE1	3:Cl:127:PRO:HG2	2.46	0.50
3:CB:132:PRO:HG2	3:CB:184:GLN:HE22	1.76	0.50
3:CD:132:PRO:HG2	3:CD:184:GLN:HE22	1.76	0.50
3:CO:132:PRO:HG2	3:CO:184:GLN:HE22	1.76	0.50
3:Ce:132:PRO:HG2	3:Ce:184:GLN:HE22	1.76	0.50
3:Cf:132:PRO:HG2	3:Cf:184:GLN:HE22	1.76	0.50
3:Cl:132:PRO:HG2	3:Cl:184:GLN:HE22	1.76	0.50
3:Cp:175:THR:HG23	1:DE:188:PRO:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cs:175:THR:HG23	1:DC:188:PRO:HG3	1.94	0.50
3:Cx:175:THR:HG23	1:DH:188:PRO:HG3	1.93	0.50
1:AC:70:ARG:HH11	3:CC:222:LEU:HD21	1.76	0.50
1:AD:188:PRO:HG3	3:CC:175:THR:HG23	1.93	0.50
1:AE:38:PHE:O	1:AE:210:ARG:HA	2.12	0.50
1:AJ:104:VAL:HG22	1:AJ:197:LEU:HD23	1.92	0.50
1:AM:115:THR:HG22	1:AM:116:THR:N	2.24	0.50
1:AX:188:PRO:HG3	3:CV:175:THR:HG23	1.93	0.50
1:AY:188:PRO:HG3	3:C2:175:THR:HG23	1.93	0.50
1:AZ:188:PRO:HG3	3:CZ:175:THR:HG23	1.93	0.50
1:A3:70:ARG:HH11	3:C4:222:LEU:HD21	1.76	0.50
1:A5:70:ARG:HH11	3:C6:222:LEU:HD21	1.76	0.50
1:Ae:38:PHE:O	1:Ae:210:ARG:HA	2.12	0.50
2:BB:102:HIS:CE1	3:CA:127:PRO:HG2	2.46	0.50
2:BI:167:THR:HB	2:BI:168:ASN:ND2	2.25	0.50
2:BL:157:VAL:HG23	3:CL:50:THR:CG2	2.39	0.50
2:BR:157:VAL:HG23	3:CO:50:THR:CG2	2.40	0.50
2:BO:101:HIS:CG	2:BO:222:VAL:CG1	2.93	0.50
2:BT:167:THR:HB	2:BT:168:ASN:ND2	2.25	0.50
2:B1:102:HIS:CE1	3:C3:127:PRO:HG2	2.46	0.50
2:B5:101:HIS:CG	2:B5:222:VAL:CG1	2.94	0.50
2:B6:102:HIS:CE1	3:C6:127:PRO:HG2	2.46	0.50
2:B6:213:MET:HE3	2:B6:215:VAL:HG22	1.93	0.50
2:B9:73:GLN:HA	2:B9:73:GLN:NE2	2.25	0.50
2:B9:102:HIS:CE1	3:C9:127:PRO:HG2	2.46	0.50
2:Bb:157:VAL:HG23	3:Cc:50:THR:CG2	2.40	0.50
2:Bd:213:MET:HE3	2:Bd:215:VAL:HG22	1.93	0.50
2:Bf:84:PRO:CG	2:Bf:85:SER:H	2.24	0.50
2:Bo:157:VAL:HG23	3:Cp:50:THR:CG2	2.40	0.50
2:Bp:84:PRO:CG	2:Bp:85:SER:H	2.24	0.50
2:Bq:84:PRO:CG	2:Bq:85:SER:H	2.24	0.50
2:Bt:157:VAL:HG23	3:Cu:50:THR:CG2	2.40	0.50
2:Bu:102:HIS:CE1	3:Cx:127:PRO:HG2	2.46	0.50
2:Bw:157:VAL:HG23	3:Cx:50:THR:CG2	2.39	0.50
2:Bx:84:PRO:CG	2:Bx:85:SER:H	2.24	0.50
2:Bx:213:MET:HE3	2:Bx:215:VAL:HG22	1.93	0.50
3:CH:132:PRO:HG2	3:CH:184:GLN:HE22	1.76	0.50
3:C3:132:PRO:HG2	3:C3:184:GLN:HE22	1.76	0.50
3:C5:132:PRO:HG2	3:C5:184:GLN:HE22	1.76	0.50
3:Cw:222:LEU:HD21	1:DI:70:ARG:HH11	1.76	0.50
3:Cx:132:PRO:HG2	3:Cx:184:GLN:HE22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:173:GLY:O	1:DJ:184:TYR:O	2.28	0.50
1:AB:104:VAL:HG22	1:AB:197:LEU:HD23	1.92	0.50
1:AI:188:PRO:HG3	3:CH:175:THR:HG23	1.94	0.50
1:AN:173:GLY:O	1:AN:184:TYR:O	2.28	0.50
1:AR:38:PHE:O	1:AR:210:ARG:HA	2.12	0.50
1:A0:70:ARG:HH11	3:C1:222:LEU:HD21	1.76	0.50
1:A1:70:ARG:HH11	3:C2:222:LEU:HD21	1.76	0.50
1:A2:38:PHE:O	1:A2:210:ARG:HA	2.11	0.50
1:A4:70:ARG:HH11	3:C5:222:LEU:HD21	1.76	0.50
1:A6:38:PHE:O	1:A6:210:ARG:HA	2.12	0.50
1:A6:188:PRO:HG3	3:C6:175:THR:HG23	1.93	0.50
1:A7:188:PRO:HG3	3:C5:175:THR:HG23	1.93	0.50
1:A9:173:GLY:O	1:A9:184:TYR:O	2.28	0.50
1:Aa:173:GLY:O	1:Aa:184:TYR:O	2.28	0.50
1:Ad:38:PHE:O	1:Ad:210:ARG:HA	2.12	0.50
1:Af:38:PHE:O	1:Af:210:ARG:HA	2.11	0.50
1:Ag:38:PHE:O	1:Ag:210:ARG:HA	2.12	0.50
1:Aj:188:PRO:HG3	3:Cj:175:THR:HG23	1.93	0.50
1:Al:188:PRO:HG3	3:Cl:175:THR:HG23	1.93	0.50
1:Am:173:GLY:O	1:Am:184:TYR:O	2.28	0.50
2:BA:73:GLN:HA	2:BA:73:GLN:NE2	2.25	0.50
2:BG:102:HIS:CE1	3:CF:127:PRO:HG2	2.46	0.50
2:BH:73:GLN:NE2	2:BH:73:GLN:HA	2.25	0.50
2:BS:102:HIS:CE1	3:CP:127:PRO:HG2	2.46	0.50
2:BS:157:VAL:HG23	3:CQ:50:THR:CG2	2.39	0.50
2:BQ:137:GLU:O	2:BQ:139:ALA:N	2.41	0.50
2:BV:102:HIS:CE1	3:CU:127:PRO:HG2	2.46	0.50
2:BX:167:THR:HB	2:BX:168:ASN:ND2	2.26	0.50
2:B3:84:PRO:CG	2:B3:85:SER:H	2.24	0.50
2:B3:102:HIS:CE1	3:C0:127:PRO:HG2	2.46	0.50
2:B7:102:HIS:CE1	3:C5:127:PRO:HG2	2.46	0.50
2:Bj:84:PRO:CG	2:Bj:85:SER:H	2.24	0.50
2:Bt:137:GLU:O	2:Bt:139:ALA:N	2.41	0.50
3:CQ:132:PRO:HG2	3:CQ:184:GLN:HE22	1.76	0.50
3:CR:132:PRO:HG2	3:CR:184:GLN:HE22	1.76	0.50
3:Cc:132:PRO:HG2	3:Cc:184:GLN:HE22	1.76	0.50
3:Ct:132:PRO:HG2	3:Ct:184:GLN:HE22	1.76	0.50
3:Cv:132:PRO:HG2	3:Cv:184:GLN:HE22	1.76	0.50
3:Cx:9:PRO:C	3:Cx:11:SER:H	2.20	0.50
1:DI:173:GLY:O	1:DI:184:TYR:O	2.28	0.50
1:AA:173:GLY:O	1:AA:184:TYR:O	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:188:PRO:HG3	3:CN:175:THR:HG23	1.93	0.50
1:AN:70:ARG:HH11	3:CO:222:LEU:HD21	1.76	0.50
1:AQ:70:ARG:HH11	3:CR:222:LEU:HD21	1.76	0.50
1:AR:70:ARG:HH11	3:CS:222:LEU:HD21	1.76	0.50
1:AS:173:GLY:O	1:AS:184:TYR:O	2.28	0.50
1:AU:70:ARG:HH11	3:CV:222:LEU:HD21	1.76	0.50
1:AX:38:PHE:O	1:AX:210:ARG:HA	2.12	0.50
1:A8:173:GLY:O	1:A8:184:TYR:O	2.28	0.50
1:A9:188:PRO:HG3	3:C9:175:THR:HG23	1.93	0.50
1:A9:191:HIS:CD2	1:A9:193:GLY:H	2.21	0.50
1:Ad:173:GLY:O	1:Ad:184:TYR:O	2.28	0.50
1:Ae:188:PRO:HG3	3:Ce:175:THR:HG23	1.93	0.50
1:Ag:70:ARG:HH11	3:Ch:222:LEU:HD21	1.76	0.50
1:Ai:70:ARG:HH11	3:Cj:222:LEU:HD21	1.76	0.50
1:Al:70:ARG:HH11	3:Cm:222:LEU:HD21	1.76	0.50
1:Al:173:GLY:O	1:Al:184:TYR:O	2.28	0.50
1:Ao:104:VAL:HG22	1:Ao:197:LEU:HD23	1.92	0.50
2:BD:102:HIS:CE1	3:CC:127:PRO:HG2	2.46	0.50
2:BK:84:PRO:CG	2:BK:85:SER:H	2.24	0.50
2:BK:102:HIS:CE1	3:CN:127:PRO:HG2	2.46	0.50
2:BP:84:PRO:CG	2:BP:85:SER:H	2.24	0.50
2:BW:167:THR:HB	2:BW:168:ASN:ND2	2.25	0.50
2:BX:102:HIS:CE1	3:CW:127:PRO:HG2	2.46	0.50
2:BZ:157:VAL:HG23	3:CZ:50:THR:CG2	2.39	0.50
2:BZ:213:MET:HE3	2:BZ:215:VAL:HG22	1.93	0.50
2:B0:102:HIS:CE1	3:CZ:127:PRO:HG2	2.46	0.50
2:B4:73:GLN:HA	2:B4:73:GLN:NE2	2.24	0.50
2:B9:213:MET:HE3	2:B9:215:VAL:HG22	1.93	0.50
2:Ba:102:HIS:CE1	3:Cd:127:PRO:HG2	2.46	0.50
2:Bm:84:PRO:CG	2:Bm:85:SER:H	2.24	0.50
3:CQ:9:PRO:C	3:CQ:11:SER:H	2.20	0.50
3:C0:132:PRO:HG2	3:C0:184:GLN:HE22	1.76	0.50
3:Ck:132:PRO:HG2	3:Ck:184:GLN:HE22	1.76	0.50
3:Cq:132:PRO:HG2	3:Cq:184:GLN:HE22	1.76	0.50
1:DJ:38:PHE:O	1:DJ:210:ARG:HA	2.12	0.50
1:AD:173:GLY:O	1:AD:184:TYR:O	2.28	0.50
1:AM:70:ARG:HH11	3:CN:222:LEU:HD21	1.76	0.50
1:AP:70:ARG:HH11	3:CQ:222:LEU:HD21	1.76	0.50
1:AP:173:GLY:O	1:AP:184:TYR:O	2.28	0.50
1:AW:70:ARG:HH11	3:CX:222:LEU:HD21	1.76	0.50
1:AY:173:GLY:O	1:AY:184:TYR:O	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:38:PHE:O	1:A1:210:ARG:HA	2.12	0.50
1:A4:104:VAL:HG22	1:A4:197:LEU:HD23	1.92	0.50
1:A7:70:ARG:HH11	3:C8:222:LEU:HD21	1.76	0.50
1:A8:38:PHE:O	1:A8:210:ARG:HA	2.12	0.50
1:A8:207:CYS:O	1:A8:208:TYR:CB	2.57	0.50
1:Ak:38:PHE:O	1:Ak:210:ARG:HA	2.12	0.50
1:Ak:70:ARG:HH11	3:Cl:222:LEU:HD21	1.76	0.50
1:Ak:188:PRO:HG3	3:Cn:175:THR:HG23	1.94	0.50
2:BD:84:PRO:CG	2:BD:85:SER:H	2.24	0.50
2:BE:213:MET:HE3	2:BE:215:VAL:HG22	1.93	0.50
2:BF:157:VAL:HG23	3:CF:50:THR:CG2	2.39	0.50
2:BL:84:PRO:CG	2:BL:85:SER:H	2.24	0.50
2:BN:213:MET:HE3	2:BN:215:VAL:HG22	1.93	0.50
2:BO:137:GLU:O	2:BO:139:ALA:N	2.41	0.50
2:B4:84:PRO:CG	2:B4:85:SER:H	2.24	0.50
2:B6:157:VAL:HG23	3:C7:50:THR:CG2	2.39	0.50
2:B8:102:HIS:CE1	3:Cc:127:PRO:HG2	2.46	0.50
2:Bf:102:HIS:CE1	3:Ci:127:PRO:HG2	2.46	0.50
2:Bj:102:HIS:CE1	3:Cj:127:PRO:HG2	2.46	0.50
2:Br:157:VAL:HG23	3:Cs:50:THR:CG2	2.40	0.50
2:Bt:102:HIS:CE1	3:Ct:127:PRO:HG2	2.46	0.50
3:CA:132:PRO:HG2	3:CA:184:GLN:HE22	1.76	0.50
3:CJ:222:LEU:HD21	1:DK:70:ARG:HH11	1.76	0.50
3:CL:9:PRO:C	3:CL:11:SER:H	2.20	0.50
3:CZ:132:PRO:HG2	3:CZ:184:GLN:HE22	1.76	0.50
3:Cj:132:PRO:HG2	3:Cj:184:GLN:HE22	1.76	0.50
3:Cp:132:PRO:HG2	3:Cp:184:GLN:HE22	1.76	0.50
3:Cu:175:THR:HG23	1:DJ:188:PRO:HG3	1.93	0.50
3:Cu:222:LEU:HD21	1:DG:70:ARG:HH11	1.76	0.50
3:Cv:175:THR:HG23	1:DI:188:PRO:HG3	1.93	0.50
3:Cw:175:THR:HG23	1:DF:188:PRO:HG3	1.93	0.50
1:AC:38:PHE:O	1:AC:210:ARG:HA	2.12	0.50
1:AM:188:PRO:HG3	3:CM:175:THR:HG23	1.93	0.50
1:A3:188:PRO:HG3	3:C7:175:THR:HG23	1.93	0.50
1:A6:70:ARG:HH11	3:C7:222:LEU:HD21	1.76	0.50
1:A9:38:PHE:O	1:A9:210:ARG:HA	2.12	0.50
1:A9:70:ARG:HH11	3:DA:222:LEU:HD21	1.76	0.50
1:Aa:70:ARG:HH11	3:DB:222:LEU:HD21	1.76	0.50
1:Aa:188:PRO:HG3	3:Cd:175:THR:HG23	1.94	0.50
1:Ab:70:ARG:HH11	3:Cc:222:LEU:HD21	1.76	0.50
1:Al:191:HIS:CD2	1:Al:193:GLY:H	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:191:HIS:CD2	1:Ao:193:GLY:H	2.21	0.50
2:B5:167:THR:HB	2:B5:168:ASN:ND2	2.25	0.50
2:B7:213:MET:HE3	2:B7:215:VAL:HG22	1.93	0.50
2:Bh:137:GLU:O	2:Bh:139:ALA:N	2.42	0.50
2:Bh:213:MET:HE3	2:Bh:215:VAL:HG22	1.93	0.50
2:Bn:213:MET:HE3	2:Bn:215:VAL:HG22	1.93	0.50
2:Bo:102:HIS:CE1	3:Co:127:PRO:HG2	2.46	0.50
2:Br:84:PRO:CG	2:Br:85:SER:H	2.24	0.50
3:CA:9:PRO:C	3:CA:11:SER:H	2.20	0.50
3:CF:9:PRO:C	3:CF:11:SER:H	2.20	0.50
3:CJ:132:PRO:HG2	3:CJ:184:GLN:HE22	1.76	0.50
3:CO:9:PRO:C	3:CO:11:SER:H	2.20	0.50
3:CP:132:PRO:HG2	3:CP:184:GLN:HE22	1.76	0.50
3:CV:132:PRO:HG2	3:CV:184:GLN:HE22	1.76	0.50
3:CY:132:PRO:HG2	3:CY:184:GLN:HE22	1.76	0.50
3:C1:9:PRO:C	3:C1:11:SER:H	2.20	0.50
3:C1:132:PRO:HG2	3:C1:184:GLN:HE22	1.76	0.50
3:Cr:9:PRO:C	3:Cr:11:SER:H	2.20	0.50
3:Cu:132:PRO:HG2	3:Cu:184:GLN:HE22	1.76	0.50
1:DG:38:PHE:O	1:DG:210:ARG:HA	2.11	0.50
1:AN:38:PHE:O	1:AN:210:ARG:HA	2.12	0.50
1:AP:188:PRO:HG3	3:CP:175:THR:HG23	1.93	0.50
1:AU:38:PHE:O	1:AU:210:ARG:HA	2.12	0.50
1:A4:188:PRO:HG3	3:C4:175:THR:HG23	1.93	0.50
1:A5:188:PRO:HG3	3:C8:175:THR:HG23	1.93	0.50
1:Ab:38:PHE:O	1:Ab:210:ARG:HA	2.12	0.50
1:Aj:38:PHE:O	1:Aj:210:ARG:HA	2.12	0.50
1:Ak:191:HIS:CD2	1:Ak:193:GLY:H	2.21	0.50
1:Al:38:PHE:O	1:Al:210:ARG:HA	2.12	0.50
2:BM:102:HIS:CE1	3:CO:127:PRO:HG2	2.46	0.50
2:BM:157:VAL:HG23	3:CM:50:THR:CG2	2.39	0.50
2:BO:213:MET:HE3	2:BO:215:VAL:HG22	1.93	0.50
2:BT:213:MET:HE3	2:BT:215:VAL:HG22	1.93	0.50
2:B2:137:GLU:O	2:B2:139:ALA:N	2.41	0.50
2:B5:102:HIS:CE1	3:C8:127:PRO:HG2	2.46	0.50
2:B5:157:VAL:HG23	3:C6:50:THR:CG2	2.39	0.50
2:B8:84:PRO:CG	2:B8:85:SER:H	2.24	0.50
2:Bc:157:VAL:HG23	3:Cd:50:THR:CG2	2.40	0.50
2:Bf:213:MET:HE3	2:Bf:215:VAL:HG22	1.93	0.50
2:Bo:84:PRO:CG	2:Bo:85:SER:H	2.24	0.50
2:Bp:157:VAL:HG23	3:Cq:50:THR:CG2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bv:102:HIS:CE1	3:Cv:127:PRO:HG2	2.46	0.50
2:Bw:73:GLN:HA	2:Bw:73:GLN:NE2	2.25	0.50
3:CU:9:PRO:C	3:CU:11:SER:H	2.20	0.50
3:C8:132:PRO:HG2	3:C8:184:GLN:HE22	1.76	0.50
3:C9:132:PRO:HG2	3:C9:184:GLN:HE22	1.76	0.50
3:Cc:9:PRO:C	3:Cc:11:SER:H	2.20	0.50
3:Cg:132:PRO:HG2	3:Cg:184:GLN:HE22	1.76	0.50
3:Cn:132:PRO:HG2	3:Cn:184:GLN:HE22	1.76	0.50
3:Ct:175:THR:HG23	1:DG:188:PRO:HG3	1.93	0.50
3:Cv:9:PRO:C	3:Cv:11:SER:H	2.20	0.50
3:DB:9:PRO:C	3:DB:11:SER:H	2.20	0.50
1:DH:38:PHE:O	1:DH:210:ARG:HA	2.12	0.50
1:DH:207:CYS:O	1:DH:208:TYR:CB	2.57	0.50
1:AB:236:ARG:NH1	3:CB:172:ALA:O	2.45	0.50
1:AF:236:ARG:NH1	3:CF:172:ALA:O	2.45	0.50
1:AI:191:HIS:CD2	1:AI:193:GLY:H	2.21	0.50
1:AJ:38:PHE:O	1:AJ:210:ARG:HA	2.12	0.50
1:AL:38:PHE:O	1:AL:210:ARG:HA	2.12	0.50
1:AM:173:GLY:O	1:AM:184:TYR:O	2.28	0.50
1:AP:236:ARG:NH1	3:CQ:172:ALA:O	2.45	0.50
1:AR:236:ARG:NH1	3:CS:172:ALA:O	2.45	0.50
1:AU:188:PRO:HG3	3:CU:175:THR:HG23	1.93	0.50
1:AU:236:ARG:NH1	3:CV:172:ALA:O	2.45	0.50
1:AX:104:VAL:HG22	1:AX:197:LEU:HD23	1.92	0.50
1:AY:236:ARG:NH1	3:CZ:172:ALA:O	2.45	0.50
1:A1:188:PRO:HG3	3:C1:175:THR:HG23	1.94	0.50
1:A8:70:ARG:HH11	3:C9:222:LEU:HD21	1.76	0.50
1:A9:207:CYS:O	1:A9:208:TYR:CB	2.57	0.50
1:Ae:236:ARG:NH1	3:Cf:172:ALA:O	2.45	0.50
1:An:188:PRO:HG3	3:Cr:175:THR:HG23	1.94	0.50
1:Ao:236:ARG:NH1	3:Cp:172:ALA:O	2.45	0.50
2:BO:84:PRO:CG	2:BO:85:SER:H	2.24	0.50
2:BP:167:THR:HB	2:BP:168:ASN:ND2	2.26	0.50
2:BY:102:HIS:CE1	3:CV:127:PRO:HG2	2.46	0.50
2:Ba:213:MET:HE3	2:Ba:215:VAL:HG22	1.93	0.50
2:Bl:84:PRO:CG	2:Bl:85:SER:H	2.24	0.50
2:Bq:213:MET:HE3	2:Bq:215:VAL:HG22	1.93	0.50
2:Br:213:MET:HE3	2:Br:215:VAL:HG22	1.93	0.50
2:Bx:102:HIS:CE1	3:C4:127:PRO:HG2	2.46	0.50
2:Bx:157:VAL:HG23	3:C5:50:THR:CG2	2.40	0.50
3:CG:132:PRO:HG2	3:CG:184:GLN:HE22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CS:9:PRO:C	3:CS:11:SER:H	2.20	0.50
3:C0:9:PRO:C	3:C0:11:SER:H	2.20	0.50
3:C4:132:PRO:HG2	3:C4:184:GLN:HE22	1.76	0.50
3:Ck:9:PRO:C	3:Ck:11:SER:H	2.20	0.50
3:Cm:132:PRO:HG2	3:Cm:184:GLN:HE22	1.76	0.50
3:Cr:132:PRO:HG2	3:Cr:184:GLN:HE22	1.76	0.50
3:Cx:172:ALA:O	1:DJ:236:ARG:NH1	2.45	0.50
1:DD:173:GLY:O	1:DD:184:TYR:O	2.28	0.50
1:DI:38:PHE:O	1:DI:210:ARG:HA	2.12	0.50
1:AG:38:PHE:O	1:AG:210:ARG:HA	2.12	0.50
1:AH:38:PHE:O	1:AH:210:ARG:HA	2.12	0.50
1:AH:188:PRO:HG3	3:CJ:175:THR:HG23	1.94	0.50
1:AH:236:ARG:NH1	3:CH:172:ALA:O	2.45	0.50
1:AK:191:HIS:CD2	1:AK:193:GLY:H	2.21	0.50
1:AQ:38:PHE:O	1:AQ:210:ARG:HA	2.12	0.50
1:AV:236:ARG:NH1	3:CW:172:ALA:O	2.45	0.50
1:A7:38:PHE:O	1:A7:210:ARG:HA	2.12	0.50
1:Ad:188:PRO:HG3	3:Ch:175:THR:HG23	1.93	0.50
1:Af:236:ARG:NH1	3:Cg:172:ALA:O	2.45	0.50
1:Ag:236:ARG:NH1	3:Ch:172:ALA:O	2.45	0.50
1:Ak:236:ARG:NH1	3:Cl:172:ALA:O	2.45	0.50
2:BA:82:PRO:HB2	2:BA:190:ASN:HD22	1.77	0.50
2:BN:84:PRO:CG	2:BN:85:SER:H	2.24	0.50
2:BO:102:HIS:CE1	3:CS:127:PRO:HG2	2.46	0.50
2:BS:213:MET:HE3	2:BS:215:VAL:HG22	1.93	0.50
2:BV:84:PRO:CG	2:BV:85:SER:H	2.24	0.50
2:BZ:102:HIS:CE1	3:C2:127:PRO:HG2	2.46	0.50
2:B0:84:PRO:CG	2:B0:85:SER:H	2.24	0.50
2:B0:157:VAL:HG23	3:C0:50:THR:CG2	2.39	0.50
2:B5:84:PRO:CG	2:B5:85:SER:H	2.24	0.50
2:B6:167:THR:HB	2:B6:168:ASN:ND2	2.25	0.50
2:B8:213:MET:HE3	2:B8:215:VAL:HG22	1.93	0.50
2:Bc:102:HIS:CE1	3:DA:127:PRO:HG2	2.46	0.50
2:Bi:213:MET:HE3	2:Bi:215:VAL:HG22	1.93	0.50
2:Bw:84:PRO:CG	2:Bw:85:SER:H	2.24	0.50
3:CB:9:PRO:C	3:CB:11:SER:H	2.20	0.50
3:CI:132:PRO:HG2	3:CI:184:GLN:HE22	1.76	0.50
3:CL:132:PRO:HG2	3:CL:184:GLN:HE22	1.76	0.50
3:CP:9:PRO:C	3:CP:11:SER:H	2.20	0.50
3:CU:132:PRO:HG2	3:CU:184:GLN:HE22	1.76	0.50
3:CX:9:PRO:C	3:CX:11:SER:H	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:9:PRO:C	3:C6:11:SER:H	2.20	0.50
3:Co:132:PRO:HG2	3:Co:184:GLN:HE22	1.76	0.50
3:Cq:175:THR:HG23	1:DD:188:PRO:HG3	1.93	0.50
3:Cw:9:PRO:C	3:Cw:11:SER:H	2.20	0.50
1:DC:38:PHE:O	1:DC:210:ARG:HA	2.12	0.50
1:AE:236:ARG:NH1	3:CE:172:ALA:O	2.45	0.49
1:AI:236:ARG:NH1	3:CI:172:ALA:O	2.45	0.49
1:AL:236:ARG:NH1	3:CM:172:ALA:O	2.45	0.49
1:Ah:236:ARG:NH1	3:CI:172:ALA:O	2.45	0.49
1:Ai:38:PHE:O	1:AI:210:ARG:HA	2.12	0.49
1:An:236:ARG:NH1	3:Co:172:ALA:O	2.45	0.49
2:BL:82:PRO:HB2	2:BL:190:ASN:HD22	1.77	0.49
2:BL:102:HIS:CE1	3:CK:127:PRO:HG2	2.46	0.49
2:BN:102:HIS:CE1	3:CM:127:PRO:HG2	2.46	0.49
2:BR:102:HIS:CE1	3:CL:127:PRO:HG2	2.46	0.49
2:BW:102:HIS:CE1	3:CY:127:PRO:HG2	2.46	0.49
2:BZ:82:PRO:HB2	2:BZ:190:ASN:HD22	1.77	0.49
2:B8:167:THR:HB	2:B8:168:ASN:ND2	2.25	0.49
2:Bg:213:MET:HE3	2:Bg:215:VAL:HG22	1.93	0.49
2:Bj:213:MET:HE3	2:Bj:215:VAL:HG22	1.93	0.49
2:Bq:82:PRO:HB2	2:Bq:190:ASN:HD22	1.77	0.49
3:CD:9:PRO:C	3:CD:11:SER:H	2.20	0.49
3:CM:132:PRO:HG2	3:CM:184:GLN:HE22	1.76	0.49
3:CT:9:PRO:C	3:CT:11:SER:H	2.20	0.49
3:CY:9:PRO:C	3:CY:11:SER:H	2.20	0.49
3:Ct:172:ALA:O	1:DF:236:ARG:NH1	2.45	0.49
3:Cu:172:ALA:O	1:DG:236:ARG:NH1	2.45	0.49
1:AA:70:ARG:HH11	3:CA:222:LEU:HD21	1.76	0.49
1:AG:236:ARG:NH1	3:CG:172:ALA:O	2.45	0.49
1:AK:236:ARG:NH1	3:CL:172:ALA:O	2.45	0.49
1:AM:236:ARG:NH1	3:CN:172:ALA:O	2.45	0.49
1:AO:38:PHE:O	1:AO:210:ARG:HA	2.12	0.49
1:AP:38:PHE:O	1:AP:210:ARG:HA	2.12	0.49
1:AQ:88:PHE:HA	1:AQ:206:GLY:O	2.12	0.49
1:AR:188:PRO:HG3	3:CR:175:THR:HG23	1.94	0.49
1:AT:236:ARG:NH1	3:CU:172:ALA:O	2.45	0.49
1:AZ:236:ARG:NH1	3:C0:172:ALA:O	2.45	0.49
1:A0:236:ARG:NH1	3:C1:172:ALA:O	2.45	0.49
1:A1:236:ARG:NH1	3:C2:172:ALA:O	2.45	0.49
1:A2:70:ARG:HH11	3:C3:222:LEU:HD21	1.76	0.49
1:A3:88:PHE:HA	1:A3:206:GLY:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:38:PHE:O	1:A4:210:ARG:HA	2.12	0.49
1:A5:38:PHE:O	1:A5:210:ARG:HA	2.12	0.49
1:A5:191:HIS:CD2	1:A5:193:GLY:H	2.21	0.49
1:A7:236:ARG:NH1	3:C8:172:ALA:O	2.45	0.49
1:Ao:38:PHE:O	1:Ao:210:ARG:HA	2.12	0.49
2:BF:213:MET:HE3	2:BF:215:VAL:HG22	1.93	0.49
2:BR:82:PRO:HB2	2:BR:190:ASN:HD22	1.78	0.49
2:BO:82:PRO:HB2	2:BO:190:ASN:HD22	1.77	0.49
2:B0:82:PRO:HB2	2:B0:190:ASN:HD22	1.77	0.49
2:Bb:102:HIS:CE1	3:DB:127:PRO:HG2	2.46	0.49
2:Bk:102:HIS:CE1	3:Cn:127:PRO:HG2	2.46	0.49
2:Bl:157:VAL:HG23	3:Cm:50:THR:CG2	2.40	0.49
2:Bu:213:MET:HE3	2:Bu:215:VAL:HG22	1.93	0.49
2:Bv:84:PRO:CG	2:Bv:85:SER:H	2.24	0.49
2:Bx:82:PRO:HB2	2:Bx:190:ASN:HD22	1.78	0.49
3:CT:132:PRO:HG2	3:CT:184:GLN:HE22	1.76	0.49
3:C5:9:PRO:C	3:C5:11:SER:H	2.20	0.49
3:Ch:9:PRO:C	3:Ch:11:SER:H	2.20	0.49
3:Cq:172:ALA:O	1:DC:236:ARG:NH1	2.45	0.49
3:Ct:9:PRO:C	3:Ct:11:SER:H	2.20	0.49
3:DB:132:PRO:HG2	3:DB:184:GLN:HE22	1.76	0.49
1:DE:88:PHE:HA	1:DE:206:GLY:O	2.13	0.49
1:AA:188:PRO:HG3	3:CD:175:THR:HG23	1.93	0.49
1:AB:70:ARG:HH11	3:CB:222:LEU:HD21	1.76	0.49
1:AD:236:ARG:NH1	3:CD:172:ALA:O	2.45	0.49
1:AI:88:PHE:HA	1:AI:206:GLY:O	2.13	0.49
1:AM:38:PHE:O	1:AM:210:ARG:HA	2.12	0.49
1:AP:207:CYS:O	1:AP:208:TYR:CB	2.57	0.49
1:AT:38:PHE:O	1:AT:210:ARG:HA	2.12	0.49
1:AT:87:GLN:O	1:AT:152:GLN:O	2.31	0.49
1:AV:207:CYS:O	1:AV:208:TYR:CB	2.57	0.49
1:A0:38:PHE:O	1:A0:210:ARG:HA	2.12	0.49
1:A6:88:PHE:HA	1:A6:206:GLY:O	2.13	0.49
1:Ah:88:PHE:HA	1:Ah:206:GLY:O	2.13	0.49
1:Aj:70:ARG:HH11	3:Ck:222:LEU:HD21	1.76	0.49
1:An:88:PHE:HA	1:An:206:GLY:O	2.13	0.49
2:BF:102:HIS:CE1	3:CI:127:PRO:HG2	2.46	0.49
2:BS:82:PRO:HB2	2:BS:190:ASN:HD22	1.78	0.49
2:BQ:82:PRO:HB2	2:BQ:190:ASN:HD22	1.77	0.49
2:BQ:84:PRO:CG	2:BQ:85:SER:H	2.24	0.49
2:B1:84:PRO:CG	2:B1:85:SER:H	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:82:PRO:HB2	2:B2:190:ASN:HD22	1.77	0.49
2:B3:157:VAL:HG23	3:C3:50:THR:CG2	2.40	0.49
2:B7:82:PRO:HB2	2:B7:190:ASN:HD22	1.77	0.49
2:Bc:84:PRO:CG	2:Bc:85:SER:H	2.24	0.49
2:Bd:84:PRO:CG	2:Bd:85:SER:H	2.24	0.49
2:Bg:82:PRO:HB2	2:Bg:190:ASN:HD22	1.77	0.49
2:Br:82:PRO:HB2	2:Br:190:ASN:HD22	1.78	0.49
2:Bw:102:HIS:CE1	3:Cu:127:PRO:HG2	2.46	0.49
2:Bw:213:MET:HE3	2:Bw:215:VAL:HG22	1.93	0.49
1:AA:236:ARG:NH1	3:CA:172:ALA:O	2.45	0.49
1:AB:38:PHE:O	1:AB:210:ARG:HA	2.12	0.49
1:AC:236:ARG:NH1	3:CC:172:ALA:O	2.45	0.49
1:AE:70:ARG:HH11	3:CE:222:LEU:HD21	1.76	0.49
1:AF:38:PHE:O	1:AF:210:ARG:HA	2.12	0.49
1:AG:88:PHE:HA	1:AG:206:GLY:O	2.13	0.49
1:AS:236:ARG:NH1	3:CT:172:ALA:O	2.45	0.49
1:AW:88:PHE:HA	1:AW:206:GLY:O	2.12	0.49
1:A1:88:PHE:HA	1:A1:206:GLY:O	2.12	0.49
1:A6:173:GLY:O	1:A6:184:TYR:O	2.28	0.49
1:A7:88:PHE:HA	1:A7:206:GLY:O	2.13	0.49
1:Ac:38:PHE:O	1:Ac:210:ARG:HA	2.12	0.49
1:Ad:87:GLN:O	1:Ad:152:GLN:O	2.31	0.49
1:Ad:236:ARG:NH1	3:Ce:172:ALA:O	2.45	0.49
2:BF:82:PRO:HB2	2:BF:190:ASN:HD22	1.77	0.49
2:BG:84:PRO:CG	2:BG:85:SER:H	2.24	0.49
2:BG:157:VAL:HG23	3:CG:50:THR:CG2	2.40	0.49
2:B4:213:MET:HE3	2:B4:215:VAL:HG22	1.93	0.49
2:B6:137:GLU:O	2:B6:139:ALA:N	2.41	0.49
2:Bj:157:VAL:HG23	3:Ck:50:THR:CG2	2.40	0.49
2:Bn:82:PRO:HB2	2:Bn:190:ASN:HD22	1.77	0.49
2:Bt:82:PRO:HB2	2:Bt:190:ASN:HD22	1.77	0.49
3:C8:9:PRO:C	3:C8:11:SER:H	2.20	0.49
3:Cq:9:PRO:C	3:Cq:11:SER:H	2.20	0.49
1:DF:38:PHE:O	1:DF:210:ARG:HA	2.12	0.49
1:DK:38:PHE:O	1:DK:210:ARG:HA	2.12	0.49
1:AB:87:GLN:O	1:AB:152:GLN:O	2.31	0.49
1:AF:188:PRO:HG3	3:CI:175:THR:HG23	1.93	0.49
1:AG:87:GLN:O	1:AG:152:GLN:O	2.31	0.49
1:AJ:87:GLN:O	1:AJ:152:GLN:O	2.31	0.49
1:AK:87:GLN:O	1:AK:152:GLN:O	2.31	0.49
1:AM:87:GLN:O	1:AM:152:GLN:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:87:GLN:O	1:AN:152:GLN:O	2.31	0.49
1:AP:87:GLN:O	1:AP:152:GLN:O	2.31	0.49
1:AR:88:PHE:HA	1:AR:206:GLY:O	2.12	0.49
1:AU:87:GLN:O	1:AU:152:GLN:O	2.31	0.49
1:AV:188:PRO:HG3	3:CY:175:THR:HG23	1.94	0.49
1:AX:88:PHE:HA	1:AX:206:GLY:O	2.12	0.49
1:A9:88:PHE:HA	1:A9:206:GLY:O	2.13	0.49
1:Af:188:PRO:HG3	3:Ci:175:THR:HG23	1.94	0.49
1:Al:88:PHE:HA	1:Al:206:GLY:O	2.13	0.49
2:BU:82:PRO:HB2	2:BU:190:ASN:HD22	1.77	0.49
2:Bd:82:PRO:HB2	2:Bd:190:ASN:HD22	1.78	0.49
2:Bf:157:VAL:HG23	3:Cg:50:THR:CG2	2.39	0.49
2:Bm:157:VAL:HG23	3:Cn:50:THR:CG2	2.39	0.49
2:Bo:82:PRO:HB2	2:Bo:190:ASN:HD22	1.78	0.49
3:CF:132:PRO:HG2	3:CF:184:GLN:HE22	1.76	0.49
3:CM:9:PRO:C	3:CM:11:SER:H	2.20	0.49
3:C4:9:PRO:C	3:C4:11:SER:H	2.20	0.49
3:Cm:9:PRO:C	3:Cm:11:SER:H	2.20	0.49
3:Co:9:PRO:C	3:Co:11:SER:H	2.20	0.49
3:Cs:172:ALA:O	1:DE:236:ARG:NH1	2.45	0.49
3:Cv:172:ALA:O	1:DH:236:ARG:NH1	2.45	0.49
1:DI:88:PHE:HA	1:DI:206:GLY:O	2.12	0.49
1:DJ:87:GLN:O	1:DJ:152:GLN:O	2.31	0.49
1:DK:87:GLN:O	1:DK:152:GLN:O	2.31	0.49
1:AA:88:PHE:HA	1:AA:206:GLY:O	2.13	0.49
1:AD:88:PHE:HA	1:AD:206:GLY:O	2.13	0.49
1:AG:188:PRO:HG3	3:CF:175:THR:HG23	1.93	0.49
1:AI:38:PHE:O	1:AI:210:ARG:HA	2.12	0.49
1:AI:87:GLN:O	1:AI:152:GLN:O	2.31	0.49
1:AJ:236:ARG:NH1	3:CK:172:ALA:O	2.45	0.49
1:AL:188:PRO:HG3	3:CO:175:THR:HG23	1.93	0.49
1:AO:188:PRO:HG3	3:CS:175:THR:HG23	1.93	0.49
1:AO:236:ARG:NH1	3:CP:172:ALA:O	2.45	0.49
1:AP:242:ASN:HD22	1:AS:110:GLY:N	2.10	0.49
1:AQ:236:ARG:NH1	3:CR:172:ALA:O	2.45	0.49
1:AS:88:PHE:HA	1:AS:206:GLY:O	2.13	0.49
1:AT:70:ARG:HH11	3:CU:222:LEU:HD21	1.76	0.49
1:AX:243:ILE:HG22	1:AX:244:ASN:N	2.28	0.49
1:A8:88:PHE:HA	1:A8:206:GLY:O	2.12	0.49
1:Aa:236:ARG:NH1	3:DB:172:ALA:O	2.45	0.49
1:Ad:243:ILE:HG22	1:Ad:244:ASN:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:87:GLN:O	1:Ah:152:GLN:O	2.31	0.49
1:Ai:236:ARG:NH1	3:Cj:172:ALA:O	2.45	0.49
1:Am:88:PHE:HA	1:Am:206:GLY:O	2.13	0.49
1:Am:188:PRO:HG3	3:Ck:175:THR:HG23	1.93	0.49
2:BD:82:PRO:HB2	2:BD:190:ASN:HD22	1.77	0.49
2:BP:82:PRO:HB2	2:BP:190:ASN:HD22	1.77	0.49
2:BT:82:PRO:HB2	2:BT:190:ASN:HD22	1.78	0.49
2:B1:82:PRO:HB2	2:B1:190:ASN:HD22	1.78	0.49
1:DK:88:PHE:HA	1:DK:206:GLY:O	2.13	0.49
1:AA:38:PHE:O	1:AA:210:ARG:HA	2.12	0.49
1:AE:88:PHE:HA	1:AE:206:GLY:O	2.13	0.49
1:AK:188:PRO:HG3	3:CK:175:THR:HG23	1.93	0.49
1:AV:38:PHE:O	1:AV:210:ARG:HA	2.12	0.49
1:AW:236:ARG:NH1	3:CX:172:ALA:O	2.45	0.49
1:AX:87:GLN:O	1:AX:152:GLN:O	2.31	0.49
1:AX:191:HIS:CD2	1:AX:193:GLY:H	2.21	0.49
1:AY:38:PHE:O	1:AY:210:ARG:HA	2.12	0.49
1:A3:38:PHE:O	1:A3:210:ARG:HA	2.12	0.49
1:A5:236:ARG:NH1	3:C6:172:ALA:O	2.45	0.49
1:A8:87:GLN:O	1:A8:152:GLN:O	2.31	0.49
1:A9:87:GLN:O	1:A9:152:GLN:O	2.31	0.49
1:Aa:38:PHE:O	1:Aa:210:ARG:HA	2.12	0.49
1:Ac:70:ARG:HH11	3:Cd:222:LEU:HD21	1.76	0.49
1:Ac:88:PHE:HA	1:Ac:206:GLY:O	2.13	0.49
1:Ac:188:PRO:HG3	3:DA:175:THR:HG23	1.93	0.49
1:Ag:87:GLN:O	1:Ag:152:GLN:O	2.31	0.49
1:Aj:236:ARG:NH1	3:Ck:172:ALA:O	2.45	0.49
1:Al:236:ARG:NH1	3:Cm:172:ALA:O	2.45	0.49
1:Am:236:ARG:NH1	3:Cn:172:ALA:O	2.45	0.49
1:Ao:87:GLN:O	1:Ao:152:GLN:O	2.31	0.49
2:BW:84:PRO:CG	2:BW:85:SER:H	2.24	0.49
2:B8:82:PRO:HB2	2:B8:190:ASN:HD22	1.77	0.49
3:CW:9:PRO:C	3:CW:11:SER:H	2.20	0.49
3:CY:130:ALA:O	3:CY:131:ALA:HB3	2.13	0.49
3:CZ:9:PRO:C	3:CZ:11:SER:H	2.20	0.49
3:C0:130:ALA:O	3:C0:131:ALA:HB3	2.13	0.49
3:C7:9:PRO:C	3:C7:11:SER:H	2.20	0.49
3:C8:130:ALA:O	3:C8:131:ALA:HB3	2.13	0.49
3:Cn:9:PRO:C	3:Cn:11:SER:H	2.20	0.49
3:Cu:9:PRO:C	3:Cu:11:SER:H	2.20	0.49
1:DG:88:PHE:HA	1:DG:206:GLY:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:243:ILE:HG22	1:DI:244:ASN:N	2.28	0.49
1:AJ:191:HIS:CD2	1:AJ:193:GLY:H	2.21	0.49
1:AK:88:PHE:HA	1:AK:206:GLY:O	2.13	0.49
1:AL:87:GLN:O	1:AL:152:GLN:O	2.31	0.49
1:AN:188:PRO:HG3	3:CL:175:THR:HG23	1.93	0.49
1:AT:88:PHE:HA	1:AT:206:GLY:O	2.12	0.49
1:AV:87:GLN:O	1:AV:152:GLN:O	2.31	0.49
1:AW:38:PHE:O	1:AW:210:ARG:HA	2.12	0.49
1:AX:236:ARG:NH1	3:CY:172:ALA:O	2.45	0.49
1:AZ:38:PHE:O	1:AZ:210:ARG:HA	2.12	0.49
1:Ab:188:PRO:HG3	3:DB:175:THR:HG23	1.94	0.49
1:Ab:236:ARG:NH1	3:Cc:172:ALA:O	2.45	0.49
1:Ag:188:PRO:HG3	3:Cg:175:THR:HG23	1.93	0.49
2:BH:82:PRO:HB2	2:BH:190:ASN:HD22	1.78	0.49
2:BX:82:PRO:HB2	2:BX:190:ASN:HD22	1.77	0.49
2:B6:84:PRO:CG	2:B6:85:SER:H	2.24	0.49
2:Bh:82:PRO:HB2	2:Bh:190:ASN:HD22	1.77	0.49
2:Bp:82:PRO:HB2	2:Bp:190:ASN:HD22	1.78	0.49
2:Bs:82:PRO:HB2	2:Bs:190:ASN:HD22	1.77	0.49
2:Bv:82:PRO:HB2	2:Bv:190:ASN:HD22	1.77	0.49
3:CI:9:PRO:C	3:CI:11:SER:H	2.20	0.49
3:CW:130:ALA:O	3:CW:131:ALA:HB3	2.13	0.49
1:DC:243:ILE:HG22	1:DC:244:ASN:N	2.28	0.49
1:DD:38:PHE:O	1:DD:210:ARG:HA	2.12	0.49
1:DH:110:GLY:N	1:DJ:242:ASN:HD22	2.10	0.49
1:AA:87:GLN:O	1:AA:152:GLN:O	2.31	0.49
1:AD:38:PHE:O	1:AD:210:ARG:HA	2.12	0.49
1:AH:207:CYS:O	1:AH:208:TYR:CB	2.57	0.49
1:AU:191:HIS:CD2	1:AU:193:GLY:H	2.21	0.49
1:A2:236:ARG:NH1	3:C3:172:ALA:O	2.45	0.49
1:A3:243:ILE:HG22	1:A3:244:ASN:N	2.28	0.49
1:A4:236:ARG:NH1	3:C5:172:ALA:O	2.45	0.49
1:A8:236:ARG:NH1	3:C9:172:ALA:O	2.45	0.49
1:Aa:88:PHE:HA	1:Aa:206:GLY:O	2.13	0.49
1:Ab:87:GLN:O	1:Ab:152:GLN:O	2.31	0.49
1:Ac:243:ILE:HG22	1:Ac:244:ASN:N	2.28	0.49
1:Ae:191:HIS:CD2	1:Ae:193:GLY:H	2.21	0.49
1:Ag:88:PHE:HA	1:Ag:206:GLY:O	2.12	0.49
1:An:87:GLN:O	1:An:152:GLN:O	2.31	0.49
1:An:243:ILE:HG22	1:An:244:ASN:N	2.28	0.49
2:BA:213:MET:HE3	2:BA:215:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bm:137:GLU:O	2:Bm:139:ALA:N	2.41	0.49
3:CA:130:ALA:O	3:CA:131:ALA:HB3	2.13	0.49
3:CX:130:ALA:O	3:CX:131:ALA:HB3	2.13	0.49
3:Cg:130:ALA:O	3:Cg:131:ALA:HB3	2.13	0.49
3:Ci:9:PRO:C	3:Ci:11:SER:H	2.20	0.49
3:Cr:130:ALA:O	3:Cr:131:ALA:HB3	2.13	0.49
3:Cw:132:PRO:HG2	3:Cw:184:GLN:HE22	1.76	0.49
1:DH:88:PHE:HA	1:DH:206:GLY:O	2.13	0.49
1:AC:88:PHE:HA	1:AC:206:GLY:O	2.13	0.49
1:AH:110:GLY:N	1:DK:242:ASN:HD22	2.10	0.49
1:AJ:88:PHE:HA	1:AJ:206:GLY:O	2.13	0.49
1:AN:236:ARG:NH1	3:CO:172:ALA:O	2.45	0.49
1:AO:110:GLY:N	1:AR:242:ASN:HD22	2.10	0.49
1:AT:207:CYS:O	1:AT:208:TYR:CB	2.57	0.49
1:AV:88:PHE:HA	1:AV:206:GLY:O	2.13	0.49
1:AW:188:PRO:HG3	3:CW:175:THR:HG23	1.93	0.49
1:AY:87:GLN:O	1:AY:152:GLN:O	2.31	0.49
1:A4:88:PHE:HA	1:A4:206:GLY:O	2.13	0.49
1:A6:87:GLN:O	1:A6:152:GLN:O	2.31	0.49
1:Ac:236:ARG:NH1	3:Cd:172:ALA:O	2.45	0.49
1:Al:243:ILE:HG22	1:Al:244:ASN:N	2.28	0.49
1:An:38:PHE:O	1:An:210:ARG:HA	2.12	0.49
2:BG:82:PRO:HB2	2:BG:190:ASN:HD22	1.77	0.49
2:BK:82:PRO:HB2	2:BK:190:ASN:HD22	1.77	0.49
2:BN:82:PRO:HB2	2:BN:190:ASN:HD22	1.77	0.49
2:B2:157:VAL:HG23	3:C2:50:THR:CG2	2.39	0.49
2:B4:82:PRO:HB2	2:B4:190:ASN:HD22	1.77	0.49
2:B6:82:PRO:HB2	2:B6:190:ASN:HD22	1.77	0.49
2:Bb:82:PRO:HB2	2:Bb:190:ASN:HD22	1.77	0.49
2:Bk:82:PRO:HB2	2:Bk:190:ASN:HD22	1.78	0.49
2:Bw:82:PRO:HB2	2:Bw:190:ASN:HD22	1.78	0.49
3:CJ:172:ALA:O	1:DK:236:ARG:NH1	2.45	0.49
3:CR:9:PRO:C	3:CR:11:SER:H	2.20	0.49
3:C3:9:PRO:C	3:C3:11:SER:H	2.20	0.49
3:Cf:130:ALA:O	3:Cf:131:ALA:HB3	2.13	0.49
3:Ch:130:ALA:O	3:Ch:131:ALA:HB3	2.13	0.49
3:Cm:130:ALA:O	3:Cm:131:ALA:HB3	2.13	0.49
3:Cr:172:ALA:O	1:DD:236:ARG:NH1	2.45	0.49
1:DC:88:PHE:HA	1:DC:206:GLY:O	2.12	0.49
1:DF:191:HIS:CD2	1:DF:193:GLY:H	2.21	0.49
1:DJ:243:ILE:HG22	1:DJ:244:ASN:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:181:LYS:O	1:AD:182:ALA:CB	2.62	0.48
1:AF:242:ASN:HD22	1:AG:110:GLY:N	2.10	0.48
1:AH:87:GLN:O	1:AH:152:GLN:O	2.31	0.48
1:AL:88:PHE:HA	1:AL:206:GLY:O	2.13	0.48
1:AO:89:LYS:HE3	1:AP:128:VAL:HG21	1.96	0.48
1:AP:88:PHE:HA	1:AP:206:GLY:O	2.13	0.48
1:AQ:243:ILE:HG22	1:AQ:244:ASN:N	2.28	0.48
1:AT:243:ILE:HG22	1:AT:244:ASN:N	2.28	0.48
1:AY:207:CYS:O	1:AY:208:TYR:CB	2.57	0.48
1:AY:243:ILE:HG22	1:AY:244:ASN:N	2.28	0.48
1:AZ:88:PHE:HA	1:AZ:206:GLY:O	2.13	0.48
1:A3:191:HIS:HD2	1:A3:193:GLY:N	2.08	0.48
1:A4:243:ILE:HG22	1:A4:244:ASN:N	2.28	0.48
1:A5:181:LYS:O	1:A5:182:ALA:CB	2.61	0.48
1:A5:207:CYS:O	1:A5:208:TYR:CB	2.57	0.48
2:BC:82:PRO:HB2	2:BC:190:ASN:HD22	1.77	0.48
2:BZ:137:GLU:O	2:BZ:139:ALA:N	2.41	0.48
2:Bc:82:PRO:HB2	2:Bc:190:ASN:HD22	1.78	0.48
2:Bm:82:PRO:HB2	2:Bm:190:ASN:HD22	1.77	0.48
3:CG:175:THR:HG23	1:DK:188:PRO:HG3	1.93	0.48
3:CI:130:ALA:O	3:CI:131:ALA:HB3	2.13	0.48
3:C2:9:PRO:C	3:C2:11:SER:H	2.20	0.48
3:C7:132:PRO:HG2	3:C7:184:GLN:HE22	1.76	0.48
3:Cs:42:ASN:ND2	3:Cs:44:ILE:H	2.12	0.48
3:DA:9:PRO:C	3:DA:11:SER:H	2.20	0.48
3:DB:130:ALA:O	3:DB:131:ALA:HB3	2.13	0.48
1:AB:88:PHE:HA	1:AB:206:GLY:O	2.13	0.48
1:AF:110:GLY:N	1:AI:242:ASN:HD22	2.10	0.48
1:AF:155:GLY:O	3:CI:15:MET:HE1	2.14	0.48
1:AK:38:PHE:O	1:AK:210:ARG:HA	2.12	0.48
1:AM:88:PHE:HA	1:AM:206:GLY:O	2.13	0.48
1:AM:181:LYS:O	1:AM:182:ALA:CB	2.61	0.48
1:AQ:87:GLN:O	1:AQ:152:GLN:O	2.31	0.48
1:AW:87:GLN:O	1:AW:152:GLN:O	2.31	0.48
1:AW:181:LYS:O	1:AW:182:ALA:CB	2.62	0.48
1:AY:242:ASN:HD22	1:AZ:110:GLY:N	2.10	0.48
1:A0:88:PHE:HA	1:A0:206:GLY:O	2.13	0.48
1:A4:155:GLY:O	3:C4:15:MET:HE1	2.14	0.48
1:A6:243:ILE:HG22	1:A6:244:ASN:N	2.28	0.48
1:A9:236:ARG:NH1	3:DA:172:ALA:O	2.45	0.48
1:Ab:181:LYS:O	1:Ab:182:ALA:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:88:PHE:HA	1:Ai:206:GLY:O	2.13	0.48
1:Aj:88:PHE:HA	1:Aj:206:GLY:O	2.13	0.48
2:BB:82:PRO:HB2	2:BB:190:ASN:HD22	1.77	0.48
2:BI:157:VAL:HG23	3:CI:50:THR:CG2	2.39	0.48
2:BL:157:VAL:CG2	3:CL:50:THR:HG21	2.43	0.48
2:BW:157:VAL:CG2	3:CW:50:THR:HG21	2.42	0.48
2:B1:157:VAL:HG23	3:C1:50:THR:CG2	2.39	0.48
2:B3:137:GLU:O	2:B3:139:ALA:N	2.42	0.48
2:Bf:82:PRO:HB2	2:Bf:190:ASN:HD22	1.78	0.48
2:Bk:157:VAL:HG23	3:Cl:50:THR:CG2	2.40	0.48
3:CD:130:ALA:O	3:CD:131:ALA:HB3	2.13	0.48
3:CE:9:PRO:C	3:CE:11:SER:H	2.20	0.48
3:CH:130:ALA:O	3:CH:131:ALA:HB3	2.13	0.48
3:CP:130:ALA:O	3:CP:131:ALA:HB3	2.13	0.48
3:CW:132:PRO:HG2	3:CW:184:GLN:HE22	1.76	0.48
3:CX:36:VAL:HA	3:CX:37:PRO:HD3	1.64	0.48
3:C2:130:ALA:O	3:C2:131:ALA:HB3	2.13	0.48
3:C7:130:ALA:O	3:C7:131:ALA:HB3	2.13	0.48
3:Cf:42:ASN:ND2	3:Cf:44:ILE:H	2.12	0.48
3:Cj:9:PRO:C	3:Cj:11:SER:H	2.20	0.48
3:Cl:9:PRO:C	3:Cl:11:SER:H	2.20	0.48
3:Cp:9:PRO:C	3:Cp:11:SER:H	2.20	0.48
1:DC:87:GLN:O	1:DC:152:GLN:O	2.31	0.48
1:DH:242:ASN:HD22	1:DI:110:GLY:N	2.10	0.48
1:AC:128:VAL:HG21	1:AE:89:LYS:HE3	1.96	0.48
1:AG:181:LYS:O	1:AG:182:ALA:CB	2.62	0.48
1:AG:243:ILE:HG22	1:AG:244:ASN:N	2.28	0.48
1:AI:243:ILE:HG22	1:AI:244:ASN:N	2.28	0.48
1:AJ:89:LYS:HE3	1:AK:128:VAL:HG21	1.96	0.48
1:AL:128:VAL:HG21	1:AN:89:LYS:HE3	1.96	0.48
1:AL:243:ILE:HG22	1:AL:244:ASN:N	2.28	0.48
1:AO:155:GLY:O	3:CS:15:MET:HE1	2.14	0.48
1:AP:243:ILE:HG22	1:AP:244:ASN:N	2.28	0.48
1:AQ:155:GLY:O	3:CT:15:MET:HE1	2.14	0.48
1:AR:243:ILE:HG22	1:AR:244:ASN:N	2.28	0.48
1:AT:188:PRO:HG3	3:CX:175:THR:HG23	1.93	0.48
1:AV:128:VAL:HG21	1:AX:89:LYS:HE3	1.96	0.48
1:A0:87:GLN:O	1:A0:152:GLN:O	2.31	0.48
1:A8:155:GLY:O	3:Cc:15:MET:HE1	2.14	0.48
1:Ac:191:HIS:CD2	1:Ac:193:GLY:H	2.21	0.48
1:Af:181:LYS:O	1:Af:182:ALA:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:87:GLN:O	1:Ak:152:GLN:O	2.31	0.48
1:Ao:88:PHE:HA	1:Ao:206:GLY:O	2.13	0.48
2:BD:157:VAL:HG23	3:CD:50:THR:CG2	2.40	0.48
2:BI:82:PRO:HB2	2:BI:190:ASN:HD22	1.77	0.48
2:BQ:157:VAL:HG23	3:CS:50:THR:CG2	2.39	0.48
2:BW:82:PRO:HB2	2:BW:190:ASN:HD22	1.78	0.48
2:Bg:157:VAL:HG23	3:Ch:50:THR:CG2	2.39	0.48
3:CC:42:ASN:ND2	3:CC:44:ILE:H	2.12	0.48
3:CE:42:ASN:ND2	3:CE:44:ILE:H	2.12	0.48
3:CE:130:ALA:O	3:CE:131:ALA:HB3	2.13	0.48
3:CM:42:ASN:ND2	3:CM:44:ILE:H	2.11	0.48
3:CM:76:MET:HB2	3:CM:84:GLU:HG2	1.96	0.48
3:CZ:42:ASN:ND2	3:CZ:44:ILE:H	2.12	0.48
3:C6:42:ASN:ND2	3:C6:44:ILE:H	2.12	0.48
3:C9:130:ALA:O	3:C9:131:ALA:HB3	2.13	0.48
3:Cs:15:MET:HE1	1:DC:155:GLY:O	2.14	0.48
3:Cw:130:ALA:O	3:Cw:131:ALA:HB3	2.13	0.48
1:DD:181:LYS:O	1:DD:182:ALA:CB	2.61	0.48
1:DE:181:LYS:O	1:DE:182:ALA:CB	2.61	0.48
1:DF:181:LYS:O	1:DF:182:ALA:CB	2.62	0.48
1:AB:243:ILE:HG22	1:AB:244:ASN:N	2.28	0.48
1:AD:87:GLN:O	1:AD:152:GLN:O	2.31	0.48
1:AE:87:GLN:O	1:AE:152:GLN:O	2.31	0.48
1:AH:242:ASN:HD22	1:AI:110:GLY:N	2.10	0.48
1:AN:181:LYS:O	1:AN:182:ALA:CB	2.61	0.48
1:AO:88:PHE:HA	1:AO:206:GLY:O	2.13	0.48
1:AQ:181:LYS:O	1:AQ:182:ALA:CB	2.62	0.48
1:AU:181:LYS:O	1:AU:182:ALA:CB	2.62	0.48
1:AV:181:LYS:O	1:AV:182:ALA:CB	2.62	0.48
1:AW:243:ILE:HG22	1:AW:244:ASN:N	2.28	0.48
1:AY:88:PHE:HA	1:AY:206:GLY:O	2.13	0.48
1:AZ:87:GLN:O	1:AZ:152:GLN:O	2.31	0.48
1:A5:87:GLN:O	1:A5:152:GLN:O	2.31	0.48
1:A5:88:PHE:HA	1:A5:206:GLY:O	2.13	0.48
1:A9:155:GLY:O	3:C9:15:MET:HE1	2.14	0.48
1:Aa:89:LYS:HE3	1:Ab:128:VAL:HG21	1.96	0.48
1:Ab:88:PHE:HA	1:Ab:206:GLY:O	2.13	0.48
1:Ad:128:VAL:HG21	1:Ag:89:LYS:HE3	1.96	0.48
1:Ae:87:GLN:O	1:Ae:152:GLN:O	2.31	0.48
1:Ae:88:PHE:HA	1:Ae:206:GLY:O	2.13	0.48
1:Ai:243:ILE:HG22	1:Ai:244:ASN:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:155:GLY:O	3:Cj:15:MET:HE1	2.14	0.48
1:Ak:88:PHE:HA	1:Ak:206:GLY:O	2.12	0.48
1:Ak:155:GLY:O	3:Cn:15:MET:HE1	2.14	0.48
1:Am:155:GLY:O	3:Ck:15:MET:HE1	2.14	0.48
2:BE:157:VAL:HG23	3:CE:50:THR:CG2	2.39	0.48
2:BJ:82:PRO:HB2	2:BJ:190:ASN:HD22	1.78	0.48
2:BV:82:PRO:HB2	2:BV:190:ASN:HD22	1.77	0.48
2:B3:82:PRO:HB2	2:B3:190:ASN:HD22	1.78	0.48
2:Bg:157:VAL:CG2	3:Ch:50:THR:HG21	2.43	0.48
2:Bu:82:PRO:HB2	2:Bu:190:ASN:HD22	1.77	0.48
2:Bu:86:ASP:HB3	2:Bu:141:LYS:HA	1.96	0.48
3:CA:76:MET:HB2	3:CA:84:GLU:HG2	1.96	0.48
3:CK:9:PRO:C	3:CK:11:SER:H	2.20	0.48
3:CL:130:ALA:O	3:CL:131:ALA:HB3	2.13	0.48
3:CV:42:ASN:ND2	3:CV:44:ILE:H	2.12	0.48
3:C0:42:ASN:ND2	3:C0:44:ILE:H	2.12	0.48
3:C4:130:ALA:O	3:C4:131:ALA:HB3	2.13	0.48
3:Ch:42:ASN:ND2	3:Ch:44:ILE:H	2.12	0.48
3:Cj:130:ALA:O	3:Cj:131:ALA:HB3	2.13	0.48
3:Cn:130:ALA:O	3:Cn:131:ALA:HB3	2.13	0.48
3:Co:130:ALA:O	3:Co:131:ALA:HB3	2.13	0.48
3:Cs:130:ALA:O	3:Cs:131:ALA:HB3	2.13	0.48
3:Cv:130:ALA:O	3:Cv:131:ALA:HB3	2.13	0.48
1:DE:191:HIS:HD2	1:DE:193:GLY:N	2.09	0.48
1:DF:88:PHE:HA	1:DF:206:GLY:O	2.12	0.48
1:DF:225:PRO:HA	1:DF:226:PRO:HD3	1.78	0.48
1:DH:87:GLN:O	1:DH:152:GLN:O	2.31	0.48
1:DH:191:HIS:CD2	1:DH:193:GLY:H	2.21	0.48
1:DJ:88:PHE:HA	1:DJ:206:GLY:O	2.13	0.48
1:AF:88:PHE:HA	1:AF:206:GLY:O	2.12	0.48
1:AF:128:VAL:HG21	1:AI:89:LYS:HE3	1.96	0.48
1:AF:181:LYS:O	1:AF:182:ALA:CB	2.61	0.48
1:AG:89:LYS:HE3	1:DK:128:VAL:HG21	1.96	0.48
1:AG:191:HIS:CD2	1:AG:193:GLY:H	2.21	0.48
1:AI:155:GLY:O	3:CH:15:MET:HE1	2.14	0.48
1:AJ:243:ILE:HG22	1:AJ:244:ASN:N	2.28	0.48
1:AM:191:HIS:HD2	1:AM:193:GLY:N	2.08	0.48
1:AV:155:GLY:O	3:CY:15:MET:HE1	2.14	0.48
1:AY:128:VAL:HG21	1:A1:89:LYS:HE3	1.96	0.48
1:A2:88:PHE:HA	1:A2:206:GLY:O	2.13	0.48
1:A3:181:LYS:O	1:A3:182:ALA:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:87:GLN:O	1:A4:152:GLN:O	2.31	0.48
1:A6:236:ARG:NH1	3:C7:172:ALA:O	2.45	0.48
1:A9:89:LYS:HE3	1:Ac:128:VAL:HG21	1.96	0.48
1:A9:243:ILE:HG22	1:A9:244:ASN:N	2.28	0.48
1:Aa:242:ASN:HD22	1:Ab:110:GLY:N	2.09	0.48
1:Aa:243:ILE:HG22	1:Aa:244:ASN:N	2.28	0.48
1:Ag:243:ILE:HG22	1:Ag:244:ASN:N	2.28	0.48
1:Ai:89:LYS:HE3	1:Aj:128:VAL:HG21	1.96	0.48
1:Ak:110:GLY:N	1:Am:242:ASN:HD22	2.10	0.48
1:Al:155:GLY:O	3:Cl:15:MET:HE1	2.14	0.48
2:BO:157:VAL:HG23	3:CP:50:THR:CG2	2.39	0.48
2:BY:157:VAL:CG2	3:CY:50:THR:HG21	2.42	0.48
2:Ba:82:PRO:HB2	2:Ba:190:ASN:HD22	1.78	0.48
2:Bc:157:VAL:CG2	3:Cd:50:THR:HG21	2.42	0.48
2:Bd:86:ASP:HB3	2:Bd:141:LYS:HA	1.96	0.48
2:Bs:157:VAL:HG23	3:Ct:50:THR:CG2	2.39	0.48
3:CG:42:ASN:ND2	3:CG:44:ILE:H	2.12	0.48
3:CJ:9:PRO:C	3:CJ:11:SER:H	2.20	0.48
3:CK:130:ALA:O	3:CK:131:ALA:HB3	2.13	0.48
3:CQ:130:ALA:O	3:CQ:131:ALA:HB3	2.13	0.48
3:CR:130:ALA:O	3:CR:131:ALA:HB3	2.13	0.48
3:CW:76:MET:HB2	3:CW:84:GLU:HG2	1.96	0.48
3:C0:76:MET:HB2	3:C0:84:GLU:HG2	1.96	0.48
3:C9:9:PRO:C	3:C9:11:SER:H	2.20	0.48
3:Cc:76:MET:HB2	3:Cc:84:GLU:HG2	1.96	0.48
3:Ce:9:PRO:C	3:Ce:11:SER:H	2.20	0.48
3:Cg:9:PRO:C	3:Cg:11:SER:H	2.20	0.48
3:Cq:42:ASN:ND2	3:Cq:44:ILE:H	2.12	0.48
3:Cs:9:PRO:C	3:Cs:11:SER:H	2.20	0.48
3:Cw:172:ALA:O	1:DI:236:ARG:NH1	2.45	0.48
3:Cx:130:ALA:O	3:Cx:131:ALA:HB3	2.13	0.48
1:DD:225:PRO:HA	1:DD:226:PRO:HD3	1.78	0.48
1:DF:89:LYS:HE3	1:DG:128:VAL:HG21	1.96	0.48
1:DG:87:GLN:O	1:DG:152:GLN:O	2.31	0.48
1:DJ:181:LYS:O	1:DJ:182:ALA:CB	2.61	0.48
1:AC:155:GLY:O	3:CE:15:MET:HE1	2.14	0.48
1:AH:88:PHE:HA	1:AH:206:GLY:O	2.12	0.48
1:AM:243:ILE:HG22	1:AM:244:ASN:N	2.28	0.48
1:AX:155:GLY:O	3:CV:15:MET:HE1	2.14	0.48
1:A2:155:GLY:O	3:C0:15:MET:HE1	2.14	0.48
1:A3:87:GLN:O	1:A3:152:GLN:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:89:LYS:HE3	1:A4:128:VAL:HG21	1.96	0.48
1:A5:128:VAL:HG21	1:A7:89:LYS:HE3	1.96	0.48
1:A5:155:GLY:O	3:C8:15:MET:HE1	2.14	0.48
1:A7:87:GLN:O	1:A7:152:GLN:O	2.31	0.48
1:A7:155:GLY:O	3:C5:15:MET:HE1	2.14	0.48
1:Aa:87:GLN:O	1:Aa:152:GLN:O	2.31	0.48
1:Ac:87:GLN:O	1:Ac:152:GLN:O	2.31	0.48
1:Af:88:PHE:HA	1:Af:206:GLY:O	2.13	0.48
1:Ah:181:LYS:O	1:Ah:182:ALA:CB	2.62	0.48
1:Ai:181:LYS:O	1:Ai:182:ALA:CB	2.62	0.48
1:Am:191:HIS:HD2	1:Am:193:GLY:N	2.08	0.48
1:An:191:HIS:HD2	1:An:193:GLY:N	2.08	0.48
2:BE:86:ASP:HB3	2:BE:141:LYS:HA	1.96	0.48
2:BO:86:ASP:HB3	2:BO:141:LYS:HA	1.96	0.48
2:BX:86:ASP:HB3	2:BX:141:LYS:HA	1.96	0.48
2:B4:157:VAL:HG23	3:C4:50:THR:CG2	2.39	0.48
2:B5:82:PRO:HB2	2:B5:190:ASN:HD22	1.78	0.48
2:B9:157:VAL:CG2	3:DA:50:THR:HG21	2.43	0.48
2:Be:86:ASP:HB3	2:Be:141:LYS:HA	1.96	0.48
2:Bg:86:ASP:HB3	2:Bg:141:LYS:HA	1.96	0.48
2:Bi:157:VAL:HG23	3:Cj:50:THR:CG2	2.40	0.48
2:Bo:86:ASP:HB3	2:Bo:141:LYS:HA	1.96	0.48
2:Bt:86:ASP:HB3	2:Bt:141:LYS:HA	1.96	0.48
2:Bu:157:VAL:CG2	3:Cv:50:THR:HG21	2.42	0.48
3:CG:9:PRO:C	3:CG:11:SER:H	2.20	0.48
3:CH:9:PRO:C	3:CH:11:SER:H	2.20	0.48
3:CO:130:ALA:O	3:CO:131:ALA:HB3	2.13	0.48
3:CT:76:MET:HB2	3:CT:84:GLU:HG2	1.96	0.48
3:C3:130:ALA:O	3:C3:131:ALA:HB3	2.13	0.48
3:C6:76:MET:HB2	3:C6:84:GLU:HG2	1.96	0.48
3:Cd:130:ALA:O	3:Cd:131:ALA:HB3	2.13	0.48
3:Cf:9:PRO:C	3:Cf:11:SER:H	2.20	0.48
3:Cr:42:ASN:ND2	3:Cr:44:ILE:H	2.12	0.48
3:Ct:15:MET:HE1	1:DG:155:GLY:O	2.14	0.48
3:Cv:76:MET:HB2	3:Cv:84:GLU:HG2	1.96	0.48
1:DC:191:HIS:HD2	1:DC:193:GLY:N	2.08	0.48
1:DE:87:GLN:O	1:DE:152:GLN:O	2.31	0.48
1:DI:207:CYS:O	1:DI:208:TYR:CB	2.58	0.48
1:AC:110:GLY:N	1:AE:242:ASN:HD22	2.10	0.48
1:AC:243:ILE:HG22	1:AC:244:ASN:N	2.28	0.48
1:AE:155:GLY:O	3:CB:15:MET:HE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:181:LYS:O	1:AE:182:ALA:CB	2.61	0.48
1:AF:207:CYS:O	1:AF:208:TYR:CB	2.57	0.48
1:AN:88:PHE:HA	1:AN:206:GLY:O	2.12	0.48
1:AN:243:ILE:HG22	1:AN:244:ASN:N	2.28	0.48
1:AR:155:GLY:O	3:CR:15:MET:HE1	2.13	0.48
1:AR:174:TRP:CZ2	2:BQ:139:ALA:HB3	2.49	0.48
1:AS:155:GLY:O	3:CQ:15:MET:HE1	2.14	0.48
1:AT:110:GLY:N	1:AW:242:ASN:HD22	2.10	0.48
1:AU:88:PHE:HA	1:AU:206:GLY:O	2.13	0.48
1:AU:155:GLY:O	3:CU:15:MET:HE1	2.14	0.48
1:AV:243:ILE:HG22	1:AV:244:ASN:N	2.28	0.48
1:A0:89:LYS:HE3	1:A1:128:VAL:HG21	1.96	0.48
1:A0:128:VAL:HG21	1:A2:89:LYS:HE3	1.96	0.48
1:A2:243:ILE:HG22	1:A2:244:ASN:N	2.28	0.48
1:A3:236:ARG:NH1	3:C4:172:ALA:O	2.45	0.48
1:A7:191:HIS:CD2	1:A7:193:GLY:H	2.21	0.48
1:A7:225:PRO:HA	1:A7:226:PRO:HD3	1.78	0.48
1:A7:243:ILE:HG22	1:A7:244:ASN:N	2.28	0.48
1:A9:181:LYS:O	1:A9:182:ALA:CB	2.61	0.48
1:Ad:88:PHE:HA	1:Ad:206:GLY:O	2.13	0.48
1:Ak:128:VAL:HG21	1:Am:89:LYS:HE3	1.96	0.48
1:Ak:181:LYS:O	1:Ak:182:ALA:CB	2.62	0.48
1:Al:87:GLN:O	1:Al:152:GLN:O	2.31	0.48
1:An:181:LYS:O	1:An:182:ALA:CB	2.61	0.48
2:BC:86:ASP:HB3	2:BC:141:LYS:HA	1.96	0.48
2:BR:86:ASP:HB3	2:BR:141:LYS:HA	1.96	0.48
2:Bl:86:ASP:HB3	2:Bl:141:LYS:HA	1.96	0.48
2:Bp:86:ASP:HB3	2:Bp:141:LYS:HA	1.96	0.48
2:Bq:157:VAL:HG23	3:Cr:50:THR:CG2	2.40	0.48
2:Br:83:LEU:HA	2:Br:84:PRO:HA	1.60	0.48
3:CD:42:ASN:ND2	3:CD:44:ILE:H	2.12	0.48
3:CG:76:MET:HB2	3:CG:84:GLU:HG2	1.96	0.48
3:CL:76:MET:HB2	3:CL:84:GLU:HG2	1.96	0.48
3:CN:9:PRO:C	3:CN:11:SER:H	2.20	0.48
3:CS:130:ALA:O	3:CS:131:ALA:HB3	2.13	0.48
3:CT:42:ASN:ND2	3:CT:44:ILE:H	2.12	0.48
3:C5:42:ASN:ND2	3:C5:44:ILE:H	2.12	0.48
3:Ce:130:ALA:O	3:Ce:131:ALA:HB3	2.13	0.48
3:Cx:42:ASN:ND2	3:Cx:44:ILE:H	2.12	0.48
1:DC:128:VAL:HG21	1:DE:89:LYS:HE3	1.96	0.48
1:DC:181:LYS:O	1:DC:182:ALA:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:89:LYS:HE3	1:DJ:128:VAL:HG21	1.96	0.48
1:DI:87:GLN:O	1:DI:152:GLN:O	2.31	0.48
1:AB:174:TRP:CZ2	2:BB:139:ALA:HB3	2.49	0.48
1:AH:128:VAL:HG21	1:DK:89:LYS:HE3	1.96	0.48
1:AK:104:VAL:HG22	1:AK:197:LEU:CD2	2.44	0.48
1:AK:155:GLY:O	3:CK:15:MET:HE1	2.14	0.48
1:AO:243:ILE:HG22	1:AO:244:ASN:N	2.28	0.48
1:AQ:242:ASN:HD22	1:AR:110:GLY:N	2.10	0.48
1:AR:181:LYS:O	1:AR:182:ALA:CB	2.61	0.48
1:AT:165:ARG:HG2	2:BU:180:PRO:O	2.14	0.48
1:AU:104:VAL:HG22	1:AU:197:LEU:CD2	2.44	0.48
1:A0:104:VAL:HG22	1:A0:197:LEU:CD2	2.44	0.48
1:A0:181:LYS:O	1:A0:182:ALA:CB	2.62	0.48
1:A1:104:VAL:HG22	1:A1:197:LEU:CD2	2.44	0.48
1:A4:104:VAL:HG22	1:A4:197:LEU:CD2	2.44	0.48
1:A8:243:ILE:HG22	1:A8:244:ASN:N	2.28	0.48
1:Aa:104:VAL:HG22	1:Aa:197:LEU:CD2	2.44	0.48
1:Ad:89:LYS:HE3	1:Ae:128:VAL:HG21	1.96	0.48
1:Ad:110:GLY:N	1:Ag:242:ASN:HD22	2.10	0.48
1:Ae:155:GLY:O	3:Ce:15:MET:HE1	2.14	0.48
1:Af:128:VAL:HG21	1:Ah:89:LYS:HE3	1.96	0.48
1:Ag:181:LYS:O	1:Ag:182:ALA:CB	2.62	0.48
1:Ai:87:GLN:O	1:Ai:152:GLN:O	2.31	0.48
1:Aj:181:LYS:O	1:Aj:182:ALA:CB	2.62	0.48
2:BB:86:ASP:HB3	2:BB:141:LYS:HA	1.96	0.48
2:BG:86:ASP:HB3	2:BG:141:LYS:HA	1.96	0.48
2:B0:86:ASP:HB3	2:B0:141:LYS:HA	1.96	0.48
2:B2:86:ASP:HB3	2:B2:141:LYS:HA	1.96	0.48
3:CA:42:ASN:ND2	3:CA:44:ILE:H	2.12	0.48
3:CF:130:ALA:O	3:CF:131:ALA:HB3	2.13	0.48
3:CJ:76:MET:HB2	3:CJ:84:GLU:HG2	1.96	0.48
3:CL:42:ASN:ND2	3:CL:44:ILE:H	2.12	0.48
3:CP:42:ASN:ND2	3:CP:44:ILE:H	2.12	0.48
3:CU:42:ASN:ND2	3:CU:44:ILE:H	2.12	0.48
3:CU:76:MET:HB2	3:CU:84:GLU:HG2	1.96	0.48
3:CV:130:ALA:O	3:CV:131:ALA:HB3	2.13	0.48
3:CX:42:ASN:ND2	3:CX:44:ILE:H	2.12	0.48
3:CX:76:MET:HB2	3:CX:84:GLU:HG2	1.96	0.48
3:C7:42:ASN:ND2	3:C7:44:ILE:H	2.12	0.48
3:C9:42:ASN:ND2	3:C9:44:ILE:H	2.12	0.48
3:Cc:130:ALA:O	3:Cc:131:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ce:42:ASN:ND2	3:Ce:44:ILE:H	2.12	0.48
3:Cl:130:ALA:O	3:Cl:131:ALA:HB3	2.13	0.48
3:Cp:15:MET:HE1	1:DE:155:GLY:O	2.14	0.48
3:Cu:130:ALA:O	3:Cu:131:ALA:HB3	2.13	0.48
3:Cw:75:GLN:HB3	1:DI:234:LYS:HD2	1.96	0.48
1:DC:104:VAL:HG22	1:DC:197:LEU:CD2	2.44	0.48
1:DD:87:GLN:O	1:DD:152:GLN:O	2.31	0.48
1:DD:88:PHE:HA	1:DD:206:GLY:O	2.13	0.48
1:DD:104:VAL:HG22	1:DD:197:LEU:CD2	2.44	0.48
1:DE:243:ILE:HG22	1:DE:244:ASN:N	2.28	0.48
1:DF:87:GLN:O	1:DF:152:GLN:O	2.31	0.48
1:DF:243:ILE:HG22	1:DF:244:ASN:N	2.28	0.48
1:DI:181:LYS:O	1:DI:182:ALA:CB	2.61	0.48
1:AA:165:ARG:HG2	2:BA:180:PRO:O	2.14	0.48
1:AH:104:VAL:HG22	1:AH:197:LEU:CD2	2.44	0.48
1:AI:181:LYS:O	1:AI:182:ALA:CB	2.61	0.48
1:AJ:155:GLY:O	3:CN:15:MET:HE1	2.14	0.48
1:AL:234:LYS:HD2	3:CM:75:GLN:HB3	1.96	0.48
1:AO:87:GLN:O	1:AO:152:GLN:O	2.31	0.48
1:AQ:89:LYS:HE3	1:AR:128:VAL:HG21	1.96	0.48
1:AQ:234:LYS:HD2	3:CR:75:GLN:HB3	1.96	0.48
1:AR:87:GLN:O	1:AR:152:GLN:O	2.31	0.48
1:AR:104:VAL:HG22	1:AR:197:LEU:CD2	2.44	0.48
1:AS:87:GLN:O	1:AS:152:GLN:O	2.31	0.48
1:AT:128:VAL:HG21	1:AW:89:LYS:HE3	1.96	0.48
1:AU:165:ARG:HG2	2:BV:180:PRO:O	2.14	0.48
1:A0:174:TRP:CZ2	2:B1:139:ALA:HB3	2.49	0.48
1:A2:104:VAL:HG22	1:A2:197:LEU:CD2	2.44	0.48
1:A4:174:TRP:CZ2	2:Bx:139:ALA:HB3	2.49	0.48
1:A4:181:LYS:O	1:A4:182:ALA:CB	2.62	0.48
1:A5:174:TRP:CZ2	2:B5:139:ALA:HB3	2.49	0.48
1:A6:207:CYS:O	1:A6:208:TYR:CB	2.57	0.48
1:A8:89:LYS:HE3	1:A9:128:VAL:HG21	1.96	0.48
1:A8:181:LYS:O	1:A8:182:ALA:CB	2.61	0.48
1:Aa:174:TRP:CZ2	2:Ba:139:ALA:HB3	2.49	0.48
1:Ac:74:THR:HG21	3:Cd:43:PHE:CE2	2.45	0.48
1:Ac:181:LYS:O	1:Ac:182:ALA:CB	2.61	0.48
1:Af:155:GLY:O	3:Ci:15:MET:HE1	2.14	0.48
1:Ag:174:TRP:CZ2	2:Bg:139:ALA:HB3	2.49	0.48
1:Ah:155:GLY:O	3:Cf:15:MET:HE1	2.14	0.48
1:Aj:87:GLN:O	1:Aj:152:GLN:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:242:ASN:HD22	1:Am:110:GLY:N	2.10	0.48
1:Ak:165:ARG:HG2	2:Bk:180:PRO:O	2.14	0.48
1:Al:104:VAL:HG22	1:Al:197:LEU:CD2	2.44	0.48
1:Al:181:LYS:O	1:Al:182:ALA:CB	2.61	0.48
1:Am:87:GLN:O	1:Am:152:GLN:O	2.31	0.48
1:Am:207:CYS:O	1:Am:208:TYR:CB	2.57	0.48
1:An:89:LYS:HE3	1:Ao:128:VAL:HG21	1.96	0.48
2:BF:157:VAL:CG2	3:CF:50:THR:HG21	2.42	0.48
2:BS:86:ASP:HB3	2:BS:141:LYS:HA	1.96	0.48
2:BT:86:ASP:HB3	2:BT:141:LYS:HA	1.96	0.48
2:Bi:82:PRO:HB2	2:Bi:190:ASN:HD22	1.77	0.48
2:Bp:139:ALA:HB3	1:DC:174:TRP:CZ2	2.49	0.48
2:Br:86:ASP:HB3	2:Br:141:LYS:HA	1.96	0.48
2:Bs:139:ALA:HB3	1:DF:174:TRP:CZ2	2.49	0.48
2:Bt:139:ALA:HB3	1:DG:174:TRP:CZ2	2.49	0.48
2:Bw:180:PRO:O	1:DJ:165:ARG:HG2	2.14	0.48
3:CG:130:ALA:O	3:CG:131:ALA:HB3	2.13	0.48
3:CN:130:ALA:O	3:CN:131:ALA:HB3	2.13	0.48
3:CP:76:MET:HB2	3:CP:84:GLU:HG2	1.96	0.48
3:CQ:76:MET:HB2	3:CQ:84:GLU:HG2	1.96	0.48
3:CR:76:MET:HB2	3:CR:84:GLU:HG2	1.96	0.48
3:CU:130:ALA:O	3:CU:131:ALA:HB3	2.13	0.48
3:CV:9:PRO:C	3:CV:11:SER:H	2.20	0.48
3:C7:76:MET:HB2	3:C7:84:GLU:HG2	1.96	0.48
3:Cd:9:PRO:C	3:Cd:11:SER:H	2.20	0.48
3:Ci:130:ALA:O	3:Ci:131:ALA:HB3	2.13	0.48
3:Co:76:MET:HB2	3:Co:84:GLU:HG2	1.96	0.48
3:Cr:75:GLN:HB3	1:DD:234:LYS:HD2	1.96	0.48
3:Cx:15:MET:HE1	1:DH:155:GLY:O	2.14	0.48
3:DA:42:ASN:ND2	3:DA:44:ILE:H	2.12	0.48
1:DD:191:HIS:HD2	1:DD:193:GLY:N	2.08	0.48
1:DF:128:VAL:HG21	1:DI:89:LYS:HE3	1.96	0.48
1:DI:104:VAL:HG22	1:DI:197:LEU:CD2	2.44	0.48
1:AB:181:LYS:O	1:AB:182:ALA:CB	2.61	0.48
1:AC:174:TRP:CZ2	2:BC:139:ALA:HB3	2.49	0.48
1:AC:181:LYS:O	1:AC:182:ALA:CB	2.61	0.48
1:AE:243:ILE:HG22	1:AE:244:ASN:N	2.28	0.48
1:AH:155:GLY:O	3:CJ:15:MET:HE1	2.14	0.48
1:AH:243:ILE:HG22	1:AH:244:ASN:N	2.28	0.48
1:AN:104:VAL:HG22	1:AN:197:LEU:CD2	2.44	0.48
1:AW:174:TRP:CZ2	2:BX:139:ALA:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:165:ARG:HG2	2:BY:180:PRO:O	2.14	0.48
1:AY:165:ARG:HG2	2:BZ:180:PRO:O	2.14	0.48
1:AZ:155:GLY:O	3:CZ:15:MET:HE1	2.14	0.48
1:A0:155:GLY:O	3:C3:15:MET:HE1	2.14	0.48
1:A2:87:GLN:O	1:A2:152:GLN:O	2.31	0.48
1:A3:155:GLY:O	3:C7:15:MET:HE1	2.14	0.48
1:A5:89:LYS:HE3	1:A6:128:VAL:HG21	1.96	0.48
1:A5:234:LYS:HD2	3:C6:75:GLN:HB3	1.96	0.48
1:A6:165:ARG:HG2	2:B6:180:PRO:O	2.14	0.48
1:A7:165:ARG:HG2	2:B7:180:PRO:O	2.14	0.48
1:Aa:181:LYS:O	1:Aa:182:ALA:CB	2.62	0.48
1:Ae:165:ARG:HG2	2:Be:180:PRO:O	2.14	0.48
1:Ae:174:TRP:CZ2	2:Be:139:ALA:HB3	2.49	0.48
1:Af:104:VAL:HG22	1:Af:197:LEU:CD2	2.44	0.48
1:Af:234:LYS:HD2	3:Cg:75:GLN:HB3	1.96	0.48
1:Ai:155:GLY:O	3:Cm:15:MET:HE1	2.14	0.48
1:Ak:89:LYS:HE3	1:Al:128:VAL:HG21	1.96	0.48
1:Ak:234:LYS:HD2	3:Cl:75:GLN:HB3	1.96	0.48
1:Ao:234:LYS:HD2	3:Cp:75:GLN:HB3	1.96	0.48
2:BE:82:PRO:HB2	2:BE:190:ASN:HD22	1.77	0.48
2:BH:86:ASP:HB3	2:BH:141:LYS:HA	1.96	0.48
2:BV:86:ASP:HB3	2:BV:141:LYS:HA	1.96	0.48
2:B2:157:VAL:CG2	3:C2:50:THR:HG21	2.43	0.48
2:B7:86:ASP:HB3	2:B7:141:LYS:HA	1.96	0.48
2:Ba:86:ASP:HB3	2:Ba:141:LYS:HA	1.96	0.48
2:Bh:86:ASP:HB3	2:Bh:141:LYS:HA	1.96	0.48
2:Bj:86:ASP:HB3	2:Bj:141:LYS:HA	1.96	0.48
2:Bl:82:PRO:HB2	2:Bl:190:ASN:HD22	1.77	0.48
2:Bm:86:ASP:HB3	2:Bm:141:LYS:HA	1.96	0.48
3:CC:9:PRO:C	3:CC:11:SER:H	2.20	0.48
3:CJ:130:ALA:O	3:CJ:131:ALA:HB3	2.13	0.48
3:CN:76:MET:HB2	3:CN:84:GLU:HG2	1.96	0.48
3:CZ:130:ALA:O	3:CZ:131:ALA:HB3	2.13	0.48
3:C1:76:MET:HB2	3:C1:84:GLU:HG2	1.96	0.48
3:C6:130:ALA:O	3:C6:131:ALA:HB3	2.13	0.48
3:Ch:76:MET:HB2	3:Ch:84:GLU:HG2	1.96	0.48
3:Ck:76:MET:HB2	3:Ck:84:GLU:HG2	1.96	0.48
3:Cl:76:MET:HB2	3:Cl:84:GLU:HG2	1.96	0.48
3:Cm:76:MET:HB2	3:Cm:84:GLU:HG2	1.96	0.48
3:Cp:42:ASN:ND2	3:Cp:44:ILE:H	2.12	0.48
3:Cq:75:GLN:HB3	1:DC:234:LYS:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cq:130:ALA:O	3:Cq:131:ALA:HB3	2.13	0.48
3:Cr:76:MET:HB2	3:Cr:84:GLU:HG2	1.96	0.48
3:Cv:15:MET:HE1	1:DI:155:GLY:O	2.13	0.48
3:DA:130:ALA:O	3:DA:131:ALA:HB3	2.13	0.48
1:DG:191:HIS:CD2	1:DG:193:GLY:H	2.21	0.48
1:DG:242:ASN:HD22	1:DJ:110:GLY:N	2.10	0.48
1:DG:243:ILE:HG22	1:DG:244:ASN:N	2.28	0.48
1:DH:191:HIS:HD2	1:DH:193:GLY:N	2.08	0.48
1:AA:155:GLY:O	3:CD:15:MET:HE1	2.14	0.47
1:AD:155:GLY:O	3:CC:15:MET:HE1	2.13	0.47
1:AD:174:TRP:CZ2	2:BD:139:ALA:HB3	2.49	0.47
1:AF:174:TRP:CZ2	2:BF:139:ALA:HB3	2.49	0.47
1:AG:174:TRP:CZ2	2:BG:139:ALA:HB3	2.49	0.47
1:AJ:165:ARG:HG2	2:BK:180:PRO:O	2.14	0.47
1:AJ:181:LYS:O	1:AJ:182:ALA:CB	2.61	0.47
1:AL:155:GLY:O	3:CO:15:MET:HE1	2.14	0.47
1:AM:104:VAL:HG22	1:AM:197:LEU:CD2	2.44	0.47
1:AM:234:LYS:HD2	3:CN:75:GLN:HB3	1.96	0.47
1:AN:184:TYR:CE1	2:BR:139:ALA:HB2	2.49	0.47
1:AP:181:LYS:O	1:AP:182:ALA:CB	2.62	0.47
1:AQ:128:VAL:HG21	1:AS:89:LYS:HE3	1.96	0.47
1:AS:165:ARG:HG2	2:BT:180:PRO:O	2.14	0.47
1:AS:243:ILE:HG22	1:AS:244:ASN:N	2.28	0.47
1:AT:174:TRP:CZ2	2:BU:139:ALA:HB3	2.49	0.47
1:AZ:104:VAL:HG22	1:AZ:197:LEU:CD2	2.44	0.47
1:A0:165:ARG:HG2	2:B1:180:PRO:O	2.14	0.47
1:A0:242:ASN:HD22	1:A1:110:GLY:N	2.10	0.47
1:A1:155:GLY:O	3:C1:15:MET:HE1	2.14	0.47
1:A1:181:LYS:O	1:A1:182:ALA:CB	2.61	0.47
1:A1:243:ILE:HG22	1:A1:244:ASN:N	2.28	0.47
1:A2:165:ARG:HG2	2:B3:180:PRO:O	2.14	0.47
1:A2:207:CYS:O	1:A2:208:TYR:CB	2.57	0.47
1:A3:128:VAL:HG21	1:A6:89:LYS:HE3	1.96	0.47
1:A5:165:ARG:HG2	2:B5:180:PRO:O	2.14	0.47
1:A7:104:VAL:HG22	1:A7:197:LEU:CD2	2.44	0.47
1:A8:104:VAL:HG22	1:A8:197:LEU:CD2	2.44	0.47
1:A8:234:LYS:HD2	3:C9:75:GLN:HB3	1.96	0.47
1:Ab:165:ARG:HG2	2:Bb:180:PRO:O	2.14	0.47
1:Ac:165:ARG:HG2	2:Bc:180:PRO:O	2.14	0.47
1:Af:87:GLN:O	1:Af:152:GLN:O	2.31	0.47
1:Af:165:ARG:HG2	2:Bf:180:PRO:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:128:VAL:HG21	1:Al:89:LYS:HE3	1.96	0.47
1:Ai:165:ARG:HG2	2:Bi:180:PRO:O	2.14	0.47
1:Aj:174:TRP:CZ2	2:Bj:139:ALA:HB3	2.49	0.47
1:Ak:242:ASN:HD22	1:Al:110:GLY:N	2.10	0.47
1:Al:184:TYR:CE1	2:Bl:139:ALA:HB2	2.49	0.47
1:Am:174:TRP:CZ2	2:Bm:139:ALA:HB3	2.49	0.47
1:Am:243:ILE:HG22	1:Am:244:ASN:N	2.28	0.47
1:An:174:TRP:CZ2	2:Bn:139:ALA:HB3	2.49	0.47
1:An:234:LYS:HD2	3:Co:75:GLN:HB3	1.96	0.47
1:Ao:89:LYS:HE3	1:DE:128:VAL:HG21	1.96	0.47
2:BJ:86:ASP:HB3	2:BJ:141:LYS:HA	1.96	0.47
2:BJ:180:PRO:O	1:DK:165:ARG:HG2	2.14	0.47
2:B1:86:ASP:HB3	2:B1:141:LYS:HA	1.96	0.47
2:B4:137:GLU:O	2:B4:139:ALA:N	2.41	0.47
2:Bd:157:VAL:CG2	3:Ce:50:THR:HG21	2.43	0.47
2:Be:82:PRO:HB2	2:Be:190:ASN:HD22	1.77	0.47
2:Bj:82:PRO:HB2	2:Bj:190:ASN:HD22	1.78	0.47
2:Bx:86:ASP:HB3	2:Bx:141:LYS:HA	1.96	0.47
3:CO:76:MET:HB2	3:CO:84:GLU:HG2	1.96	0.47
3:CY:42:ASN:ND2	3:CY:44:ILE:H	2.12	0.47
3:C3:76:MET:HB2	3:C3:84:GLU:HG2	1.96	0.47
3:Ce:76:MET:HB2	3:Ce:84:GLU:HG2	1.96	0.47
3:Cf:76:MET:HB2	3:Cf:84:GLU:HG2	1.96	0.47
3:Ck:130:ALA:O	3:Ck:131:ALA:HB3	2.13	0.47
3:Cp:130:ALA:O	3:Cp:131:ALA:HB3	2.13	0.47
3:Cq:15:MET:HE1	1:DD:155:GLY:O	2.14	0.47
3:Cs:76:MET:HB2	3:Cs:84:GLU:HG2	1.96	0.47
3:Cu:15:MET:HE1	1:DJ:155:GLY:O	2.14	0.47
3:Cu:43:PHE:CE2	1:DG:74:THR:HG21	2.45	0.47
3:Cu:76:MET:HB2	3:Cu:84:GLU:HG2	1.96	0.47
3:Cw:76:MET:HB2	3:Cw:84:GLU:HG2	1.96	0.47
1:AB:155:GLY:O	3:CA:15:MET:HE1	2.13	0.47
1:AB:165:ARG:HG2	2:BB:180:PRO:O	2.14	0.47
1:AC:184:TYR:CE1	2:BC:139:ALA:HB2	2.50	0.47
1:AD:243:ILE:HG22	1:AD:244:ASN:N	2.28	0.47
1:AF:87:GLN:O	1:AF:152:GLN:O	2.31	0.47
1:AH:165:ARG:HG2	2:BH:180:PRO:O	2.14	0.47
1:AK:181:LYS:O	1:AK:182:ALA:CB	2.61	0.47
1:AL:174:TRP:CZ2	2:BM:139:ALA:HB3	2.49	0.47
1:AO:184:TYR:CE1	2:BO:139:ALA:HB2	2.50	0.47
1:AV:165:ARG:HG2	2:BW:180:PRO:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:181:LYS:O	1:AX:182:ALA:CB	2.61	0.47
1:AZ:234:LYS:HD2	3:C0:75:GLN:HB3	1.96	0.47
1:A2:181:LYS:O	1:A2:182:ALA:CB	2.61	0.47
1:A6:155:GLY:O	3:C6:15:MET:HE1	2.14	0.47
1:A7:191:HIS:HD2	1:A7:193:GLY:N	2.08	0.47
1:A8:165:ARG:HG2	2:B8:180:PRO:O	2.14	0.47
1:A9:104:VAL:HG22	1:A9:197:LEU:CD2	2.44	0.47
1:A9:225:PRO:HA	1:A9:226:PRO:HD3	1.78	0.47
1:Aa:110:GLY:N	1:Ac:242:ASN:HD22	2.10	0.47
1:Aa:165:ARG:HG2	2:Ba:180:PRO:O	2.14	0.47
1:Ac:155:GLY:O	3:DA:15:MET:HE1	2.14	0.47
1:Ag:165:ARG:HG2	2:Bg:180:PRO:O	2.14	0.47
1:Ag:234:LYS:HD2	3:Ch:75:GLN:HB3	1.96	0.47
1:Ah:191:HIS:HD2	1:Ah:193:GLY:N	2.08	0.47
1:Ak:104:VAL:HG22	1:Ak:197:LEU:CD2	2.44	0.47
1:An:242:ASN:HD22	1:Ao:110:GLY:N	2.10	0.47
2:BI:86:ASP:HB3	2:BI:141:LYS:HA	1.96	0.47
2:BY:82:PRO:HB2	2:BY:190:ASN:HD22	1.78	0.47
2:BY:86:ASP:HB3	2:BY:141:LYS:HA	1.96	0.47
2:B6:86:ASP:HB3	2:B6:141:LYS:HA	1.96	0.47
2:Bc:86:ASP:HB3	2:Bc:141:LYS:HA	1.96	0.47
2:Bm:157:VAL:CG2	3:Cn:50:THR:HG21	2.42	0.47
2:Bn:86:ASP:HB3	2:Bn:141:LYS:HA	1.96	0.47
2:Bn:137:GLU:O	2:Bn:139:ALA:N	2.41	0.47
2:Bq:139:ALA:HB2	1:DD:184:TYR:CE1	2.49	0.47
2:Br:180:PRO:O	1:DE:165:ARG:HG2	2.14	0.47
2:Bt:180:PRO:O	1:DG:165:ARG:HG2	2.14	0.47
2:Bv:139:ALA:HB3	1:DI:174:TRP:CZ2	2.49	0.47
2:Bv:180:PRO:O	1:DI:165:ARG:HG2	2.14	0.47
3:CB:150:LEU:HD12	3:CB:150:LEU:HA	1.79	0.47
3:CC:76:MET:HB2	3:CC:84:GLU:HG2	1.96	0.47
3:CE:76:MET:HB2	3:CE:84:GLU:HG2	1.96	0.47
3:CF:76:MET:HB2	3:CF:84:GLU:HG2	1.96	0.47
3:CH:76:MET:HB2	3:CH:84:GLU:HG2	1.96	0.47
3:CQ:42:ASN:ND2	3:CQ:44:ILE:H	2.12	0.47
3:CS:42:ASN:ND2	3:CS:44:ILE:H	2.12	0.47
3:C5:130:ALA:O	3:C5:131:ALA:HB3	2.13	0.47
3:C9:76:MET:HB2	3:C9:84:GLU:HG2	1.96	0.47
3:Cg:42:ASN:ND2	3:Cg:44:ILE:H	2.12	0.47
3:Ci:76:MET:HB2	3:Ci:84:GLU:HG2	1.96	0.47
3:Cl:42:ASN:ND2	3:Cl:44:ILE:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cm:42:ASN:ND2	3:Cm:44:ILE:H	2.12	0.47
3:Co:42:ASN:ND2	3:Co:44:ILE:H	2.12	0.47
3:Cp:76:MET:HB2	3:Cp:84:GLU:HG2	1.96	0.47
1:DE:104:VAL:HG22	1:DE:197:LEU:CD2	2.44	0.47
1:DG:104:VAL:HG22	1:DG:197:LEU:CD2	2.44	0.47
1:AA:89:LYS:HE3	1:AB:128:VAL:HG21	1.96	0.47
1:AA:225:PRO:HA	1:AA:226:PRO:HD3	1.78	0.47
1:AC:87:GLN:O	1:AC:152:GLN:O	2.31	0.47
1:AD:165:ARG:HG2	2:BD:180:PRO:O	2.14	0.47
1:AD:184:TYR:CE1	2:BD:139:ALA:HB2	2.49	0.47
1:AG:165:ARG:HG2	2:BG:180:PRO:O	2.14	0.47
1:AM:155:GLY:O	3:CM:15:MET:HE1	2.14	0.47
1:AN:165:ARG:HG2	2:BR:180:PRO:O	2.14	0.47
1:AN:207:CYS:O	1:AN:208:TYR:CB	2.57	0.47
1:AP:89:LYS:HE3	1:AS:128:VAL:HG21	1.96	0.47
1:AQ:174:TRP:CZ2	2:BP:139:ALA:HB3	2.49	0.47
1:AT:89:LYS:HE3	1:AU:128:VAL:HG21	1.96	0.47
1:AV:74:THR:HG21	3:CW:43:PHE:CE2	2.45	0.47
1:AX:104:VAL:HG22	1:AX:197:LEU:CD2	2.44	0.47
1:AZ:174:TRP:CZ2	2:B0:139:ALA:HB3	2.49	0.47
1:AZ:243:ILE:HG22	1:AZ:244:ASN:N	2.28	0.47
1:A1:87:GLN:O	1:A1:152:GLN:O	2.31	0.47
1:A1:165:ARG:HG2	2:B2:180:PRO:O	2.14	0.47
1:A3:165:ARG:HG2	2:B4:180:PRO:O	2.14	0.47
1:A4:165:ARG:HG2	2:Bx:180:PRO:O	2.14	0.47
1:A5:104:VAL:HG22	1:A5:197:LEU:CD2	2.44	0.47
1:A6:184:TYR:CE1	2:B6:139:ALA:HB2	2.49	0.47
1:Ab:234:LYS:HD2	3:Cc:75:GLN:HB3	1.96	0.47
1:Ab:243:ILE:HG22	1:Ab:244:ASN:N	2.28	0.47
1:Ad:165:ARG:HG2	2:Bd:180:PRO:O	2.14	0.47
1:Af:174:TRP:CZ2	2:Bf:139:ALA:HB3	2.49	0.47
1:Ag:184:TYR:CE1	2:Bg:139:ALA:HB2	2.50	0.47
1:Ak:174:TRP:CZ2	2:Bk:139:ALA:HB3	2.49	0.47
1:Ak:243:ILE:HG22	1:Ak:244:ASN:N	2.28	0.47
1:Al:165:ARG:HG2	2:Bl:180:PRO:O	2.14	0.47
1:Am:104:VAL:HG22	1:Am:197:LEU:CD2	2.44	0.47
1:Am:146:ILE:O	1:Am:147:ALA:CB	2.62	0.47
1:Ao:174:TRP:CZ2	2:Bo:139:ALA:HB3	2.49	0.47
1:Ao:243:ILE:HG22	1:Ao:244:ASN:N	2.28	0.47
2:BB:157:VAL:CG2	3:CB:50:THR:HG21	2.43	0.47
2:B9:82:PRO:HB2	2:B9:190:ASN:HD22	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bp:139:ALA:HB2	1:DC:184:TYR:CE1	2.50	0.47
2:Bp:180:PRO:O	1:DC:165:ARG:HG2	2.14	0.47
2:Bu:139:ALA:HB3	1:DH:174:TRP:CZ2	2.49	0.47
2:Bu:180:PRO:O	1:DH:165:ARG:HG2	2.14	0.47
2:Bw:86:ASP:HB3	2:Bw:141:LYS:HA	1.96	0.47
3:CI:42:ASN:ND2	3:CI:44:ILE:H	2.12	0.47
3:CK:42:ASN:ND2	3:CK:44:ILE:H	2.11	0.47
3:CM:130:ALA:O	3:CM:131:ALA:HB3	2.13	0.47
3:CN:42:ASN:ND2	3:CN:44:ILE:H	2.12	0.47
3:CT:130:ALA:O	3:CT:131:ALA:HB3	2.13	0.47
3:CZ:76:MET:HB2	3:CZ:84:GLU:HG2	1.96	0.47
3:C1:130:ALA:O	3:C1:131:ALA:HB3	2.13	0.47
3:C5:76:MET:HB2	3:C5:84:GLU:HG2	1.96	0.47
3:Cj:150:LEU:HD12	3:Cj:150:LEU:HA	1.79	0.47
3:Ct:36:VAL:HA	3:Ct:37:PRO:HD3	1.64	0.47
3:Ct:42:ASN:ND2	3:Ct:44:ILE:H	2.12	0.47
3:Cv:42:ASN:ND2	3:Cv:44:ILE:H	2.12	0.47
3:Cv:75:GLN:HB3	1:DH:234:LYS:HD2	1.96	0.47
3:Cx:76:MET:HB2	3:Cx:84:GLU:HG2	1.96	0.47
1:DD:243:ILE:HG22	1:DD:244:ASN:N	2.28	0.47
1:DJ:191:HIS:CD2	1:DJ:193:GLY:H	2.21	0.47
1:DK:243:ILE:HG22	1:DK:244:ASN:N	2.28	0.47
1:AA:181:LYS:O	1:AA:182:ALA:CB	2.61	0.47
1:AA:243:ILE:HG22	1:AA:244:ASN:N	2.28	0.47
1:AC:104:VAL:HG22	1:AC:197:LEU:CD2	2.44	0.47
1:AC:165:ARG:HG2	2:BC:180:PRO:O	2.14	0.47
1:AF:104:VAL:HG22	1:AF:197:LEU:CD2	2.44	0.47
1:AF:165:ARG:HG2	2:BF:180:PRO:O	2.14	0.47
1:AF:234:LYS:HD2	3:CF:75:GLN:HB3	1.96	0.47
1:AF:243:ILE:HG22	1:AF:244:ASN:N	2.28	0.47
1:AH:184:TYR:CE1	2:BH:139:ALA:HB2	2.50	0.47
1:AI:165:ARG:HG2	2:BI:180:PRO:O	2.14	0.47
1:AI:184:TYR:CE1	2:BI:139:ALA:HB2	2.49	0.47
1:AJ:234:LYS:HD2	3:CK:75:GLN:HB3	1.96	0.47
1:AK:174:TRP:CZ2	2:BL:139:ALA:HB3	2.49	0.47
1:AN:174:TRP:CZ2	2:BR:139:ALA:HB3	2.49	0.47
1:AO:104:VAL:HG22	1:AO:197:LEU:CD2	2.44	0.47
1:AO:181:LYS:O	1:AO:182:ALA:CB	2.61	0.47
1:AS:104:VAL:HG22	1:AS:197:LEU:CD2	2.44	0.47
1:AS:174:TRP:CZ2	2:BT:139:ALA:HB3	2.49	0.47
1:AT:104:VAL:HG22	1:AT:197:LEU:CD2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:243:ILE:HG22	1:AU:244:ASN:N	2.28	0.47
1:AV:110:GLY:N	1:AX:242:ASN:HD22	2.10	0.47
1:AY:181:LYS:O	1:AY:182:ALA:CB	2.61	0.47
1:AZ:165:ARG:HG2	2:B0:180:PRO:O	2.14	0.47
1:A0:243:ILE:HG22	1:A0:244:ASN:N	2.28	0.47
1:A1:174:TRP:CZ2	2:B2:139:ALA:HB3	2.49	0.47
1:A2:234:LYS:HD2	3:C3:75:GLN:HB3	1.96	0.47
1:A6:104:VAL:HG22	1:A6:197:LEU:CD2	2.44	0.47
1:A6:174:TRP:CZ2	2:B6:139:ALA:HB3	2.49	0.47
1:A6:181:LYS:O	1:A6:182:ALA:CB	2.62	0.47
1:A8:184:TYR:CE1	2:B8:139:ALA:HB2	2.50	0.47
1:Aa:184:TYR:CE1	2:Ba:139:ALA:HB2	2.50	0.47
1:Ae:104:VAL:HG22	1:Ae:197:LEU:CD2	2.44	0.47
1:Ag:104:VAL:HG22	1:Ag:197:LEU:CD2	2.44	0.47
1:Aj:165:ARG:HG2	2:Bj:180:PRO:O	2.14	0.47
1:Am:181:LYS:O	1:Am:182:ALA:CB	2.61	0.47
2:BJ:139:ALA:HB2	1:DK:184:TYR:CE1	2.50	0.47
2:BM:82:PRO:HB2	2:BM:190:ASN:HD22	1.78	0.47
2:BN:86:ASP:HB3	2:BN:141:LYS:HA	1.96	0.47
2:B6:140:LEU:N	2:B6:140:LEU:HD23	2.30	0.47
2:Bi:157:VAL:CG2	3:Cj:50:THR:HG21	2.42	0.47
2:Bp:140:LEU:N	2:Bp:140:LEU:HD23	2.30	0.47
2:Br:139:ALA:HB3	1:DE:174:TRP:CZ2	2.49	0.47
2:Bs:180:PRO:O	1:DF:165:ARG:HG2	2.14	0.47
2:Bx:157:VAL:CG2	3:C5:50:THR:HG21	2.43	0.47
3:CB:130:ALA:O	3:CB:131:ALA:HB3	2.13	0.47
3:CV:76:MET:HB2	3:CV:84:GLU:HG2	1.96	0.47
3:Cf:36:VAL:HA	3:Cf:37:PRO:HD3	1.64	0.47
3:Ct:76:MET:HB2	3:Ct:84:GLU:HG2	1.96	0.47
3:Ct:150:LEU:HD12	3:Ct:150:LEU:HA	1.79	0.47
1:DH:181:LYS:O	1:DH:182:ALA:CB	2.62	0.47
1:DH:243:ILE:HG22	1:DH:244:ASN:N	2.28	0.47
1:DK:207:CYS:O	1:DK:208:TYR:CB	2.57	0.47
1:AA:174:TRP:CZ2	2:BA:139:ALA:HB3	2.49	0.47
1:AE:165:ARG:HG2	2:BE:180:PRO:O	2.14	0.47
1:AH:181:LYS:O	1:AH:182:ALA:CB	2.62	0.47
1:AI:104:VAL:HG22	1:AI:197:LEU:CD2	2.44	0.47
1:AI:191:HIS:HD2	1:AI:193:GLY:N	2.08	0.47
1:AJ:128:VAL:HG21	1:AM:89:LYS:HE3	1.96	0.47
1:AJ:174:TRP:CZ2	2:BK:139:ALA:HB3	2.49	0.47
1:AJ:242:ASN:HD22	1:AK:110:GLY:N	2.09	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:89:LYS:HE3	1:AN:128:VAL:HG21	1.96	0.47
1:AK:242:ASN:HD22	1:AN:110:GLY:N	2.10	0.47
1:AK:243:ILE:HG22	1:AK:244:ASN:N	2.28	0.47
1:AL:74:THR:HG21	3:CM:43:PHE:CE1	2.45	0.47
1:AP:165:ARG:HG2	2:BS:180:PRO:O	2.14	0.47
1:AQ:165:ARG:HG2	2:BP:180:PRO:O	2.14	0.47
1:AR:234:LYS:HD2	3:CS:75:GLN:HB3	1.96	0.47
1:AS:184:TYR:CE1	2:BT:139:ALA:HB2	2.50	0.47
1:AT:181:LYS:O	1:AT:182:ALA:CB	2.61	0.47
1:AT:234:LYS:HD2	3:CU:75:GLN:HB3	1.96	0.47
1:AW:104:VAL:HG22	1:AW:197:LEU:CD2	2.44	0.47
1:AY:191:HIS:HD2	1:AY:193:GLY:N	2.08	0.47
1:AY:234:LYS:HD2	3:CZ:75:GLN:HB3	1.96	0.47
1:AZ:191:HIS:CD2	1:AZ:193:GLY:H	2.21	0.47
1:A2:174:TRP:CZ2	2:B3:139:ALA:HB3	2.49	0.47
1:A7:174:TRP:CZ2	2:B7:139:ALA:HB3	2.49	0.47
1:A7:184:TYR:CE1	2:B7:139:ALA:HB2	2.50	0.47
1:A8:174:TRP:CZ2	2:B8:139:ALA:HB3	2.49	0.47
1:Ag:155:GLY:O	3:Cg:15:MET:HE1	2.13	0.47
1:Ah:174:TRP:CZ2	2:Bh:139:ALA:HB3	2.49	0.47
1:Aj:184:TYR:CE1	2:Bj:139:ALA:HB2	2.50	0.47
1:An:104:VAL:HG22	1:An:197:LEU:CD2	2.44	0.47
1:An:155:GLY:O	3:Cr:15:MET:HE1	2.14	0.47
2:BA:157:VAL:CG2	3:CA:50:THR:HG21	2.43	0.47
2:BF:140:LEU:N	2:BF:140:LEU:HD23	2.30	0.47
2:BH:140:LEU:HD23	2:BH:140:LEU:N	2.30	0.47
2:BY:137:GLU:O	2:BY:139:ALA:N	2.42	0.47
2:BZ:140:LEU:N	2:BZ:140:LEU:HD23	2.30	0.47
2:B9:140:LEU:N	2:B9:140:LEU:HD23	2.30	0.47
2:Bf:86:ASP:HB3	2:Bf:141:LYS:HA	1.96	0.47
2:Bh:140:LEU:N	2:Bh:140:LEU:HD23	2.30	0.47
2:Br:137:GLU:O	2:Br:139:ALA:N	2.42	0.47
2:Br:139:ALA:HB2	1:DE:184:TYR:CE1	2.50	0.47
2:Bt:139:ALA:HB2	1:DG:184:TYR:CE1	2.50	0.47
2:Bt:140:LEU:N	2:Bt:140:LEU:HD23	2.30	0.47
2:Bw:83:LEU:HA	2:Bw:84:PRO:HA	1.60	0.47
3:CS:76:MET:HB2	3:CS:84:GLU:HG2	1.96	0.47
3:C0:84:GLU:H	3:C0:84:GLU:CD	2.23	0.47
3:Cg:84:GLU:CD	3:Cg:84:GLU:H	2.23	0.47
3:Cq:76:MET:HB2	3:Cq:84:GLU:HG2	1.96	0.47
3:Ct:130:ALA:O	3:Ct:131:ALA:HB3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DH:89:LYS:HE3	1:DI:128:VAL:HG21	1.95	0.47
1:AB:89:LYS:HE3	1:AE:128:VAL:HG21	1.96	0.47
1:AG:104:VAL:HG22	1:AG:197:LEU:CD2	2.44	0.47
1:AG:225:PRO:HA	1:AG:226:PRO:HD3	1.78	0.47
1:AK:165:ARG:HG2	2:BL:180:PRO:O	2.14	0.47
1:AM:174:TRP:CZ2	2:BN:139:ALA:HB3	2.49	0.47
1:AS:181:LYS:O	1:AS:182:ALA:CB	2.61	0.47
1:AU:184:TYR:CE1	2:BV:139:ALA:HB2	2.50	0.47
1:AW:155:GLY:O	3:CW:15:MET:HE1	2.14	0.47
1:AW:207:CYS:O	1:AW:208:TYR:CB	2.57	0.47
1:AY:89:LYS:HE3	1:AZ:128:VAL:HG21	1.96	0.47
1:A3:110:GLY:N	1:A6:242:ASN:HD22	2.10	0.47
1:A8:128:VAL:HG21	1:Ab:89:LYS:HE3	1.96	0.47
1:A9:174:TRP:CZ2	2:B9:139:ALA:HB3	2.49	0.47
1:Ab:184:TYR:CE1	2:Bb:139:ALA:HB2	2.49	0.47
1:Ae:243:ILE:HG22	1:Ae:244:ASN:N	2.28	0.47
1:Af:243:ILE:HG22	1:Af:244:ASN:N	2.28	0.47
1:Al:174:TRP:CZ2	2:Bl:139:ALA:HB3	2.49	0.47
2:BA:86:ASP:HB3	2:BA:141:LYS:HA	1.96	0.47
2:BJ:140:LEU:N	2:BJ:140:LEU:HD23	2.30	0.47
2:BL:140:LEU:N	2:BL:140:LEU:HD23	2.30	0.47
2:BM:157:VAL:CG2	3:CM:50:THR:HG21	2.42	0.47
2:BO:140:LEU:N	2:BO:140:LEU:HD23	2.30	0.47
2:BO:157:VAL:CG2	3:CP:50:THR:HG21	2.42	0.47
2:BP:86:ASP:HB3	2:BP:141:LYS:HA	1.96	0.47
2:BV:228:ASN:CG	3:CU:140:ALA:HB2	2.40	0.47
2:B0:140:LEU:N	2:B0:140:LEU:HD23	2.30	0.47
2:B2:140:LEU:N	2:B2:140:LEU:HD23	2.30	0.47
2:B3:228:ASN:CG	3:C0:140:ALA:HB2	2.40	0.47
2:B5:86:ASP:HB3	2:B5:141:LYS:HA	1.96	0.47
2:B5:140:LEU:N	2:B5:140:LEU:HD23	2.30	0.47
2:B7:140:LEU:HD23	2:B7:140:LEU:N	2.30	0.47
2:Ba:140:LEU:HD23	2:Ba:140:LEU:N	2.30	0.47
2:Bk:86:ASP:HB3	2:Bk:141:LYS:HA	1.96	0.47
2:Bl:140:LEU:HD23	2:Bl:140:LEU:N	2.30	0.47
2:Bn:228:ASN:CG	3:Cr:140:ALA:HB2	2.40	0.47
2:Bq:180:PRO:O	1:DD:165:ARG:HG2	2.14	0.47
2:Bu:139:ALA:HB2	1:DH:184:TYR:CE1	2.49	0.47
2:Bv:228:ASN:CG	3:Cv:140:ALA:HB2	2.40	0.47
3:CB:42:ASN:ND2	3:CB:44:ILE:H	2.12	0.47
3:CJ:42:ASN:ND2	3:CJ:44:ILE:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ct:75:GLN:HB3	1:DF:234:LYS:HD2	1.96	0.47
1:DC:242:ASN:HD22	1:DD:110:GLY:N	2.10	0.47
1:DH:104:VAL:HG22	1:DH:197:LEU:CD2	2.44	0.47
1:DJ:191:HIS:HD2	1:DJ:193:GLY:N	2.08	0.47
1:DJ:225:PRO:HA	1:DJ:226:PRO:HD3	1.78	0.47
1:AB:104:VAL:HG22	1:AB:197:LEU:CD2	2.44	0.47
1:AC:234:LYS:HD2	3:CC:75:GLN:HB3	1.96	0.47
1:AE:104:VAL:HG22	1:AE:197:LEU:CD2	2.44	0.47
1:AE:234:LYS:HD2	3:CE:75:GLN:HB3	1.96	0.47
1:AF:184:TYR:CE1	2:BF:139:ALA:HB2	2.50	0.47
1:AG:155:GLY:O	3:CF:15:MET:HE1	2.14	0.47
1:AG:234:LYS:HD2	3:CG:75:GLN:HB3	1.96	0.47
1:AH:174:TRP:CZ2	2:BH:139:ALA:HB3	2.49	0.47
1:AJ:104:VAL:HG22	1:AJ:197:LEU:CD2	2.44	0.47
1:AJ:207:CYS:O	1:AJ:208:TYR:CB	2.57	0.47
1:AL:104:VAL:HG22	1:AL:197:LEU:CD2	2.44	0.47
1:AL:165:ARG:HG2	2:BM:180:PRO:O	2.14	0.47
1:AM:165:ARG:HG2	2:BN:180:PRO:O	2.14	0.47
1:AM:184:TYR:CE1	2:BN:139:ALA:HB2	2.49	0.47
1:AO:146:ILE:O	1:AO:147:ALA:CB	2.62	0.47
1:AO:165:ARG:HG2	2:BO:180:PRO:O	2.14	0.47
1:AO:174:TRP:CZ2	2:BO:139:ALA:HB3	2.49	0.47
1:AP:191:HIS:HD2	1:AP:193:GLY:N	2.08	0.47
1:AU:89:LYS:HE3	1:AX:128:VAL:HG21	1.96	0.47
1:AU:234:LYS:HD2	3:CV:75:GLN:HB3	1.96	0.47
1:AV:89:LYS:HE3	1:AW:128:VAL:HG21	1.96	0.47
1:AV:234:LYS:HD2	3:CW:75:GLN:HB3	1.96	0.47
1:AW:165:ARG:HG2	2:BX:180:PRO:O	2.14	0.47
1:AX:174:TRP:CZ2	2:BY:139:ALA:HB3	2.49	0.47
1:AX:234:LYS:HD2	3:CY:75:GLN:HB3	1.96	0.47
1:AY:174:TRP:CZ2	2:BZ:139:ALA:HB3	2.49	0.47
1:AZ:89:LYS:HE3	1:A2:128:VAL:HG21	1.96	0.47
1:AZ:181:LYS:O	1:AZ:182:ALA:CB	2.62	0.47
1:AZ:242:ASN:HD22	1:A2:110:GLY:N	2.10	0.47
1:A3:174:TRP:CZ2	2:B4:139:ALA:HB3	2.49	0.47
1:A5:146:ILE:O	1:A5:147:ALA:CB	2.62	0.47
1:A5:243:ILE:HG22	1:A5:244:ASN:N	2.28	0.47
1:A6:234:LYS:HD2	3:C7:75:GLN:HB3	1.96	0.47
1:A7:181:LYS:O	1:A7:182:ALA:CB	2.61	0.47
1:A9:184:TYR:CE1	2:B9:139:ALA:HB2	2.50	0.47
1:A9:191:HIS:HD2	1:A9:193:GLY:N	2.09	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:234:LYS:HD2	3:DA:75:GLN:HB3	1.96	0.47
1:Aa:128:VAL:HG21	1:Ac:89:LYS:HE3	1.96	0.47
1:Aa:155:GLY:O	3:Cd:15:MET:HE1	2.14	0.47
1:Aa:234:LYS:HD2	3:DB:75:GLN:HB3	1.96	0.47
1:Ab:104:VAL:HG22	1:Ab:197:LEU:CD2	2.44	0.47
1:Ab:174:TRP:CZ2	2:Bb:139:ALA:HB3	2.49	0.47
1:Ac:104:VAL:HG22	1:Ac:197:LEU:CD2	2.44	0.47
1:Ad:184:TYR:CE1	2:Bd:139:ALA:HB2	2.50	0.47
1:Ae:89:LYS:HE3	1:Ah:128:VAL:HG21	1.96	0.47
1:Af:110:GLY:N	1:Ah:242:ASN:HD22	2.10	0.47
1:Ah:184:TYR:CE1	2:Bh:139:ALA:HB2	2.50	0.47
1:Ah:234:LYS:HD2	3:Ci:75:GLN:HB3	1.96	0.47
1:Ah:243:ILE:HG22	1:Ah:244:ASN:N	2.28	0.47
1:Ai:174:TRP:CZ2	2:Bi:139:ALA:HB3	2.49	0.47
1:Al:74:THR:HG21	3:Cm:43:PHE:CE2	2.45	0.47
1:Ao:104:VAL:HG22	1:Ao:197:LEU:CD2	2.44	0.47
1:Ao:155:GLY:O	3:Co:15:MET:HE1	2.14	0.47
1:Ao:165:ARG:HG2	2:Bo:180:PRO:O	2.14	0.47
2:BD:86:ASP:HB3	2:BD:141:LYS:HA	1.96	0.47
2:BF:86:ASP:HB3	2:BF:141:LYS:HA	1.96	0.47
2:BI:140:LEU:N	2:BI:140:LEU:HD23	2.30	0.47
2:BJ:83:LEU:HA	2:BJ:84:PRO:HA	1.60	0.47
2:BL:86:ASP:HB3	2:BL:141:LYS:HA	1.96	0.47
2:BL:228:ASN:CG	3:CK:140:ALA:HB2	2.40	0.47
2:BM:140:LEU:N	2:BM:140:LEU:HD23	2.30	0.47
2:BM:228:ASN:CG	3:CO:140:ALA:HB2	2.40	0.47
2:BP:137:GLU:O	2:BP:139:ALA:N	2.41	0.47
2:BP:140:LEU:N	2:BP:140:LEU:HD23	2.30	0.47
2:BP:228:ASN:CG	3:CT:140:ALA:HB2	2.40	0.47
2:BQ:86:ASP:HB3	2:BQ:141:LYS:HA	1.96	0.47
2:BQ:140:LEU:N	2:BQ:140:LEU:HD23	2.30	0.47
2:BT:140:LEU:N	2:BT:140:LEU:HD23	2.30	0.47
2:BU:228:ASN:CG	3:CX:140:ALA:HB2	2.40	0.47
2:BY:140:LEU:HD23	2:BY:140:LEU:N	2.30	0.47
2:B0:157:VAL:CG2	3:C0:50:THR:HG21	2.43	0.47
2:B3:86:ASP:HB3	2:B3:141:LYS:HA	1.96	0.47
2:B4:140:LEU:N	2:B4:140:LEU:HD23	2.30	0.47
2:B7:157:VAL:CG2	3:C8:50:THR:HG21	2.42	0.47
2:B8:86:ASP:HB3	2:B8:141:LYS:HA	1.96	0.47
2:Bc:228:ASN:CG	3:DA:140:ALA:HB2	2.40	0.47
2:Bd:140:LEU:HD23	2:Bd:140:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bg:140:LEU:HD23	2:Bg:140:LEU:N	2.30	0.47
2:Bh:157:VAL:CG2	3:Ci:50:THR:HG21	2.42	0.47
2:Bi:86:ASP:HB3	2:Bi:141:LYS:HA	1.96	0.47
2:Bm:140:LEU:N	2:Bm:140:LEU:HD23	2.30	0.47
2:Bo:140:LEU:HD23	2:Bo:140:LEU:N	2.30	0.47
2:Bq:86:ASP:HB3	2:Bq:141:LYS:HA	1.96	0.47
2:Bv:86:ASP:HB3	2:Bv:141:LYS:HA	1.96	0.47
2:Bv:140:LEU:N	2:Bv:140:LEU:HD23	2.30	0.47
2:Bx:140:LEU:N	2:Bx:140:LEU:HD23	2.30	0.47
3:CC:130:ALA:O	3:CC:131:ALA:HB3	2.13	0.47
3:CF:42:ASN:ND2	3:CF:44:ILE:H	2.12	0.47
3:CH:42:ASN:ND2	3:CH:44:ILE:H	2.12	0.47
3:CO:42:ASN:ND2	3:CO:44:ILE:H	2.12	0.47
3:C1:84:GLU:CD	3:C1:84:GLU:H	2.23	0.47
3:Cd:76:MET:HB2	3:Cd:84:GLU:HG2	1.96	0.47
3:Cg:76:MET:HB2	3:Cg:84:GLU:HG2	1.96	0.47
3:Cj:76:MET:HB2	3:Cj:84:GLU:HG2	1.96	0.47
3:Cu:42:ASN:ND2	3:Cu:44:ILE:H	2.12	0.47
3:Cw:15:MET:HE1	1:DF:155:GLY:O	2.14	0.47
3:DB:76:MET:HB2	3:DB:84:GLU:HG2	1.96	0.47
1:DF:104:VAL:HG22	1:DF:197:LEU:CD2	2.44	0.47
1:DI:225:PRO:HA	1:DI:226:PRO:HD3	1.78	0.47
1:DK:104:VAL:HG22	1:DK:197:LEU:CD2	2.44	0.47
1:AD:104:VAL:HG22	1:AD:197:LEU:CD2	2.44	0.47
1:AE:174:TRP:CZ2	2:BE:139:ALA:HB3	2.49	0.47
1:AJ:191:HIS:HD2	1:AJ:193:GLY:N	2.08	0.47
1:AL:89:LYS:HE3	1:AM:128:VAL:HG21	1.96	0.47
1:AL:184:TYR:CE1	2:BM:139:ALA:HB2	2.50	0.47
1:AN:155:GLY:O	3:CL:15:MET:HE1	2.14	0.47
1:AP:104:VAL:HG22	1:AP:197:LEU:CD2	2.44	0.47
1:AS:207:CYS:O	1:AS:208:TYR:CB	2.57	0.47
1:AT:184:TYR:CE1	2:BU:139:ALA:HB2	2.50	0.47
1:AV:104:VAL:HG22	1:AV:197:LEU:CD2	2.44	0.47
1:AW:184:TYR:CE1	2:BX:139:ALA:HB2	2.50	0.47
1:AX:184:TYR:CE1	2:BY:139:ALA:HB2	2.49	0.47
1:A8:191:HIS:HD2	1:A8:193:GLY:N	2.08	0.47
1:A9:165:ARG:HG2	2:B9:180:PRO:O	2.14	0.47
1:Af:89:LYS:HE3	1:Ag:128:VAL:HG21	1.96	0.47
1:Aj:104:VAL:HG22	1:Aj:197:LEU:CD2	2.44	0.47
1:Aj:243:ILE:HG22	1:Aj:244:ASN:N	2.28	0.47
1:Am:184:TYR:CE1	2:Bm:139:ALA:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:128:VAL:HG21	1:DD:89:LYS:HE3	1.96	0.47
2:BA:140:LEU:N	2:BA:140:LEU:HD23	2.30	0.47
2:BF:228:ASN:CG	3:CI:140:ALA:HB2	2.40	0.47
2:BJ:228:ASN:CG	3:CG:140:ALA:HB2	2.40	0.47
2:BN:140:LEU:N	2:BN:140:LEU:HD23	2.30	0.47
2:BS:228:ASN:CG	3:CP:140:ALA:HB2	2.40	0.47
2:BW:228:ASN:CG	3:CY:140:ALA:HB2	2.40	0.47
2:BZ:86:ASP:HB3	2:BZ:141:LYS:HA	1.96	0.47
2:B0:228:ASN:CG	3:CZ:140:ALA:HB2	2.40	0.47
2:B2:228:ASN:CG	3:C1:140:ALA:HB2	2.40	0.47
2:B4:86:ASP:HB3	2:B4:141:LYS:HA	1.96	0.47
2:Bd:137:GLU:O	2:Bd:139:ALA:N	2.41	0.47
2:Bd:228:ASN:CG	3:Ch:140:ALA:HB2	2.40	0.47
2:Bh:228:ASN:CG	3:Cf:140:ALA:HB2	2.40	0.47
2:Bi:228:ASN:CG	3:Cm:140:ALA:HB2	2.40	0.47
2:Bk:83:LEU:HA	2:Bk:84:PRO:HA	1.60	0.47
2:Bm:228:ASN:CG	3:Ck:140:ALA:HB2	2.40	0.47
2:Bq:139:ALA:HB3	1:DD:174:TRP:CZ2	2.49	0.47
2:Bs:228:ASN:CG	3:Cw:140:ALA:HB2	2.40	0.47
2:Bw:139:ALA:HB3	1:DJ:174:TRP:CZ2	2.49	0.47
3:CI:84:GLU:H	3:CI:84:GLU:CD	2.23	0.47
3:CP:150:LEU:HD12	3:CP:150:LEU:HA	1.79	0.47
3:CT:150:LEU:HD12	3:CT:150:LEU:HA	1.79	0.47
3:CV:110:PHE:HE2	3:CV:116:THR:HG22	1.80	0.47
3:CX:110:PHE:HE2	3:CX:116:THR:HG22	1.80	0.47
3:C2:110:PHE:HE2	3:C2:116:THR:HG22	1.80	0.47
3:C8:42:ASN:ND2	3:C8:44:ILE:H	2.11	0.47
3:Cc:84:GLU:H	3:Cc:84:GLU:CD	2.23	0.47
3:Cl:110:PHE:HE2	3:Cl:116:THR:HG22	1.80	0.47
3:Cn:76:MET:HB2	3:Cn:84:GLU:HG2	1.96	0.47
3:Cn:84:GLU:H	3:Cn:84:GLU:CD	2.23	0.47
3:Cx:75:GLN:HB3	1:DJ:234:LYS:HD2	1.96	0.47
3:Cx:110:PHE:HE2	3:Cx:116:THR:HG22	1.80	0.47
1:AB:87:GLN:HE21	1:AB:210:ARG:NH2	2.12	0.47
1:AE:184:TYR:CE1	2:BE:139:ALA:HB2	2.49	0.47
1:AG:184:TYR:CE1	2:BG:139:ALA:HB2	2.50	0.47
1:AI:74:THR:HG21	3:CI:43:PHE:CE1	2.45	0.47
1:AI:174:TRP:CZ2	2:BI:139:ALA:HB3	2.49	0.47
1:AI:207:CYS:O	1:AI:208:TYR:CB	2.57	0.47
1:AJ:74:THR:HG21	3:CK:43:PHE:CE1	2.45	0.47
1:AO:128:VAL:HG21	1:AR:89:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:234:LYS:HD2	3:CP:75:GLN:HB3	1.96	0.47
1:AP:155:GLY:O	3:CP:15:MET:HE1	2.14	0.47
1:AV:174:TRP:CZ2	2:BW:139:ALA:HB3	2.49	0.47
1:AV:184:TYR:CE1	2:BW:139:ALA:HB2	2.50	0.47
1:AX:74:THR:HG21	3:CY:43:PHE:CE2	2.45	0.47
1:AY:104:VAL:HG22	1:AY:197:LEU:CD2	2.44	0.47
1:AY:155:GLY:O	3:C2:15:MET:HE1	2.14	0.47
1:AZ:184:TYR:CE1	2:B0:139:ALA:HB2	2.50	0.47
1:A2:184:TYR:CE1	2:B3:139:ALA:HB2	2.49	0.47
1:Ad:115:THR:OG1	1:Ad:133:LEU:HB2	2.15	0.47
1:Ad:242:ASN:HD22	1:Ae:110:GLY:N	2.10	0.47
1:Ah:146:ILE:O	1:Ah:147:ALA:CB	2.62	0.47
1:Ai:104:VAL:HG22	1:Ai:197:LEU:CD2	2.44	0.47
1:Al:234:LYS:HD2	3:Cm:75:GLN:HB3	1.96	0.47
1:An:115:THR:OG1	1:An:133:LEU:HB2	2.15	0.47
1:Ao:181:LYS:O	1:Ao:182:ALA:CB	2.62	0.47
2:BC:140:LEU:N	2:BC:140:LEU:HD23	2.30	0.47
2:BC:228:ASN:CG	3:CE:140:ALA:HB2	2.40	0.47
2:BE:228:ASN:CG	3:CB:140:ALA:HB2	2.40	0.47
2:BJ:139:ALA:HB3	1:DK:174:TRP:CZ2	2.49	0.47
2:B4:228:ASN:CG	3:C7:140:ALA:HB2	2.40	0.47
2:B6:228:ASN:CG	3:C6:140:ALA:HB2	2.40	0.47
2:Bb:86:ASP:HB3	2:Bb:141:LYS:HA	1.96	0.47
2:Bf:157:VAL:CG2	3:Cg:50:THR:HG21	2.42	0.47
2:Bo:228:ASN:CG	3:Co:140:ALA:HB2	2.40	0.47
2:Bq:140:LEU:N	2:Bq:140:LEU:HD23	2.30	0.47
2:Br:228:ASN:CG	3:Cp:140:ALA:HB2	2.40	0.47
2:Bs:86:ASP:HB3	2:Bs:141:LYS:HA	1.96	0.47
2:Bx:228:ASN:CG	3:C4:140:ALA:HB2	2.40	0.47
3:CD:76:MET:HB2	3:CD:84:GLU:HG2	1.96	0.47
3:CG:15:MET:HE1	1:DK:155:GLY:O	2.14	0.47
3:CG:110:PHE:HE2	3:CG:116:THR:HG22	1.80	0.47
3:CJ:75:GLN:HB3	1:DK:234:LYS:HD2	1.96	0.47
3:CV:61:TYR:HB3	3:CV:205:LEU:HD23	1.97	0.47
3:CY:76:MET:HB2	3:CY:84:GLU:HG2	1.96	0.47
3:CY:110:PHE:HE2	3:CY:116:THR:HG22	1.80	0.47
3:C1:42:ASN:ND2	3:C1:44:ILE:H	2.12	0.47
3:C4:76:MET:HB2	3:C4:84:GLU:HG2	1.96	0.47
3:C8:76:MET:HB2	3:C8:84:GLU:HG2	1.96	0.47
3:Cc:110:PHE:HE2	3:Cc:116:THR:HG22	1.80	0.47
3:DA:110:PHE:HE2	3:DA:116:THR:HG22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:87:GLN:HE21	1:DI:210:ARG:NH2	2.12	0.47
1:DJ:104:VAL:HG22	1:DJ:197:LEU:CD2	2.44	0.47
1:AA:128:VAL:HG21	1:AD:89:LYS:HE3	1.96	0.47
1:AF:89:LYS:HE3	1:AG:128:VAL:HG21	1.96	0.47
1:AG:207:CYS:O	1:AG:208:TYR:CB	2.57	0.47
1:AT:155:GLY:O	3:CX:15:MET:HE1	2.14	0.47
1:AU:174:TRP:CZ2	2:BV:139:ALA:HB3	2.49	0.47
1:A0:184:TYR:CE1	2:B1:139:ALA:HB2	2.50	0.47
1:A0:234:LYS:HD2	3:C1:75:GLN:HB3	1.96	0.47
1:A3:184:TYR:CE1	2:B4:139:ALA:HB2	2.50	0.47
1:A9:87:GLN:HE21	1:A9:210:ARG:NH2	2.12	0.47
1:Ae:181:LYS:O	1:Ae:182:ALA:CB	2.61	0.47
2:BB:228:ASN:CG	3:CA:140:ALA:HB2	2.40	0.47
2:BG:228:ASN:CG	3:CF:140:ALA:HB2	2.40	0.47
2:BS:157:VAL:CG2	3:CQ:50:THR:HG21	2.42	0.47
2:BT:228:ASN:CG	3:CQ:140:ALA:HB2	2.40	0.47
2:BU:157:VAL:CG2	3:CU:50:THR:HG21	2.43	0.47
2:B8:140:LEU:N	2:B8:140:LEU:HD23	2.30	0.47
2:Bu:228:ASN:CG	3:Cx:140:ALA:HB2	2.40	0.47
3:CB:76:MET:HB2	3:CB:84:GLU:HG2	1.96	0.47
3:CF:84:GLU:H	3:CF:84:GLU:CD	2.23	0.47
3:CH:84:GLU:CD	3:CH:84:GLU:H	2.23	0.47
3:CN:61:TYR:HB3	3:CN:205:LEU:HD23	1.97	0.47
3:CP:110:PHE:HE2	3:CP:116:THR:HG22	1.80	0.47
3:CY:84:GLU:CD	3:CY:84:GLU:H	2.23	0.47
3:C2:76:MET:HB2	3:C2:84:GLU:HG2	1.96	0.47
3:Cc:42:ASN:ND2	3:Cc:44:ILE:H	2.12	0.47
3:Ck:84:GLU:H	3:Ck:84:GLU:CD	2.23	0.47
3:Cm:84:GLU:H	3:Cm:84:GLU:CD	2.23	0.47
3:Cx:84:GLU:H	3:Cx:84:GLU:CD	2.23	0.47
1:DF:110:GLY:N	1:DI:242:ASN:HD22	2.10	0.47
1:DG:115:THR:OG1	1:DG:133:LEU:HB2	2.15	0.47
1:AA:184:TYR:CE1	2:BA:139:ALA:HB2	2.50	0.46
1:AC:89:LYS:HE3	1:AD:128:VAL:HG21	1.96	0.46
1:AP:174:TRP:CZ2	2:BS:139:ALA:HB3	2.49	0.46
1:AR:165:ARG:HG2	2:BQ:180:PRO:O	2.14	0.46
1:AT:115:THR:OG1	1:AT:133:LEU:HB2	2.15	0.46
1:AU:146:ILE:O	1:AU:147:ALA:CB	2.62	0.46
1:A3:115:THR:OG1	1:A3:133:LEU:HB2	2.15	0.46
1:A4:115:THR:OG1	1:A4:133:LEU:HB2	2.15	0.46
1:A4:184:TYR:CE1	2:Bx:139:ALA:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:234:LYS:HD2	3:C8:75:GLN:HB3	1.96	0.46
1:Ad:104:VAL:HG22	1:Ad:197:LEU:CD2	2.44	0.46
1:Ah:104:VAL:HG22	1:Ah:197:LEU:CD2	2.44	0.46
1:Ai:234:LYS:HD2	3:Cj:75:GLN:HB3	1.96	0.46
1:An:165:ARG:HG2	2:Bn:180:PRO:O	2.14	0.46
2:BI:228:ASN:CG	3:CH:140:ALA:HB2	2.40	0.46
2:BK:140:LEU:HD23	2:BK:140:LEU:N	2.30	0.46
2:BM:83:LEU:HA	2:BM:84:PRO:HA	1.60	0.46
2:BR:83:LEU:HA	2:BR:84:PRO:HA	1.60	0.46
2:BW:86:ASP:HB3	2:BW:141:LYS:HA	1.96	0.46
2:BX:228:ASN:CG	3:CW:140:ALA:HB2	2.40	0.46
2:B1:228:ASN:CG	3:C3:140:ALA:HB2	2.40	0.46
2:B8:137:GLU:O	2:B8:139:ALA:N	2.41	0.46
2:Bl:83:LEU:HA	2:Bl:84:PRO:HA	1.60	0.46
2:Bn:140:LEU:N	2:Bn:140:LEU:HD23	2.30	0.46
2:Bq:228:ASN:CG	3:Cq:140:ALA:HB2	2.40	0.46
2:Br:140:LEU:HD23	2:Br:140:LEU:N	2.30	0.46
2:Bv:139:ALA:HB2	1:DI:184:TYR:CE1	2.50	0.46
3:CI:76:MET:HB2	3:CI:84:GLU:HG2	1.96	0.46
3:CJ:61:TYR:HB3	3:CJ:205:LEU:HD23	1.98	0.46
3:CO:36:VAL:HA	3:CO:37:PRO:HD3	1.64	0.46
3:CW:42:ASN:ND2	3:CW:44:ILE:H	2.12	0.46
3:C0:110:PHE:HE2	3:C0:116:THR:HG22	1.80	0.46
3:C2:42:ASN:ND2	3:C2:44:ILE:H	2.12	0.46
3:C2:84:GLU:CD	3:C2:84:GLU:H	2.23	0.46
3:C4:42:ASN:ND2	3:C4:44:ILE:H	2.12	0.46
3:C5:110:PHE:HE2	3:C5:116:THR:HG22	1.80	0.46
3:C8:84:GLU:H	3:C8:84:GLU:CD	2.23	0.46
3:Cd:42:ASN:ND2	3:Cd:44:ILE:H	2.12	0.46
3:Cl:61:TYR:HB3	3:Cl:205:LEU:HD23	1.98	0.46
3:Cm:110:PHE:HE2	3:Cm:116:THR:HG22	1.80	0.46
1:DE:87:GLN:HE21	1:DE:210:ARG:NH2	2.12	0.46
1:DE:115:THR:OG1	1:DE:133:LEU:HB2	2.16	0.46
1:DH:128:VAL:HG21	1:DJ:89:LYS:HE3	1.96	0.46
1:DJ:115:THR:OG1	1:DJ:133:LEU:HB2	2.16	0.46
1:DK:115:THR:OG1	1:DK:133:LEU:HB2	2.15	0.46
1:AB:115:THR:OG1	1:AB:133:LEU:HB2	2.16	0.46
1:AB:207:CYS:O	1:AB:208:TYR:CB	2.57	0.46
1:AC:115:THR:OG1	1:AC:133:LEU:HB2	2.16	0.46
1:AF:115:THR:OG1	1:AF:133:LEU:HB2	2.15	0.46
1:AI:115:THR:OG1	1:AI:133:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:184:TYR:CE1	2:BK:139:ALA:HB2	2.50	0.46
1:AM:146:ILE:O	1:AM:147:ALA:CB	2.62	0.46
1:AP:115:THR:OG1	1:AP:133:LEU:HB2	2.16	0.46
1:AR:184:TYR:CE1	2:BQ:139:ALA:HB2	2.49	0.46
1:AS:234:LYS:HD2	3:CT:75:GLN:HB3	1.97	0.46
1:AV:115:THR:OG1	1:AV:133:LEU:HB2	2.16	0.46
1:AY:184:TYR:CE1	2:BZ:139:ALA:HB2	2.50	0.46
1:A1:184:TYR:CE1	2:B2:139:ALA:HB2	2.50	0.46
1:A1:234:LYS:HD2	3:C2:75:GLN:HB3	1.96	0.46
1:A7:115:THR:OG1	1:A7:133:LEU:HB2	2.16	0.46
1:Ab:155:GLY:O	3:DB:15:MET:HE1	2.14	0.46
1:Ad:155:GLY:O	3:Ch:15:MET:HE1	2.14	0.46
1:Ad:174:TRP:CZ2	2:Bd:139:ALA:HB3	2.49	0.46
1:Af:184:TYR:CE1	2:Bf:139:ALA:HB2	2.50	0.46
1:Ah:165:ARG:HG2	2:Bh:180:PRO:O	2.14	0.46
1:Ai:115:THR:OG1	1:Ai:133:LEU:HB2	2.15	0.46
1:Aj:89:LYS:HE3	1:Am:128:VAL:HG21	1.95	0.46
2:BC:157:VAL:CG2	3:CC:50:THR:HG21	2.42	0.46
2:BH:228:ASN:CG	3:CJ:140:ALA:HB2	2.40	0.46
2:BS:140:LEU:HD23	2:BS:140:LEU:N	2.30	0.46
2:BU:140:LEU:N	2:BU:140:LEU:HD23	2.30	0.46
2:B8:228:ASN:CG	3:Cc:140:ALA:HB2	2.40	0.46
2:B9:228:ASN:CG	3:C9:140:ALA:HB2	2.40	0.46
2:Bb:140:LEU:N	2:Bb:140:LEU:HD23	2.30	0.46
2:Bb:157:VAL:CG2	3:Cc:50:THR:HG21	2.43	0.46
2:Bb:228:ASN:CG	3:DB:140:ALA:HB2	2.40	0.46
2:Bp:228:ASN:CG	3:Cs:140:ALA:HB2	2.40	0.46
2:Bv:157:VAL:CG2	3:Cw:50:THR:HG21	2.43	0.46
3:CC:61:TYR:HB3	3:CC:205:LEU:HD23	1.98	0.46
3:CD:110:PHE:HE2	3:CD:116:THR:HG22	1.80	0.46
3:CE:61:TYR:HB3	3:CE:205:LEU:HD23	1.98	0.46
3:CN:110:PHE:HE2	3:CN:116:THR:HG22	1.80	0.46
3:C9:61:TYR:HB3	3:C9:205:LEU:HD23	1.98	0.46
3:Ch:110:PHE:HE2	3:Ch:116:THR:HG22	1.80	0.46
3:Cj:42:ASN:ND2	3:Cj:44:ILE:H	2.12	0.46
3:DA:61:TYR:HB3	3:DA:205:LEU:HD23	1.97	0.46
3:DA:76:MET:HB2	3:DA:84:GLU:HG2	1.96	0.46
1:AA:104:VAL:HG22	1:AA:197:LEU:CD2	2.44	0.46
1:AG:74:THR:HG21	3:CG:43:PHE:CE1	2.45	0.46
1:AH:115:THR:OG1	1:AH:133:LEU:HB2	2.15	0.46
1:AJ:115:THR:OG1	1:AJ:133:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:115:THR:OG1	1:AL:133:LEU:HB2	2.16	0.46
1:AL:181:LYS:O	1:AL:182:ALA:CB	2.62	0.46
1:AN:234:LYS:HD2	3:CO:75:GLN:HB3	1.97	0.46
1:AO:115:THR:OG1	1:AO:133:LEU:HB2	2.15	0.46
1:AR:87:GLN:HE21	1:AR:210:ARG:NH2	2.12	0.46
1:A4:89:LYS:HE3	1:A7:128:VAL:HG21	1.96	0.46
1:A4:242:ASN:HD22	1:A7:110:GLY:N	2.10	0.46
1:A9:115:THR:OG1	1:A9:133:LEU:HB2	2.16	0.46
1:Ae:234:LYS:HD2	3:Cf:75:GLN:HB3	1.96	0.46
1:Af:87:GLN:HE21	1:Af:210:ARG:NH2	2.12	0.46
1:Ak:184:TYR:CE1	2:Bk:139:ALA:HB2	2.50	0.46
1:Ao:184:TYR:CE1	2:Bo:139:ALA:HB2	2.50	0.46
2:BB:83:LEU:HA	2:BB:84:PRO:HA	1.60	0.46
2:BB:224:GLY:HA2	2:BB:225:PRO:HD2	1.81	0.46
2:BR:140:LEU:N	2:BR:140:LEU:HD23	2.30	0.46
2:BR:224:GLY:HA2	2:BR:225:PRO:HD2	1.81	0.46
2:B1:140:LEU:N	2:B1:140:LEU:HD23	2.30	0.46
2:B7:228:ASN:CG	3:C5:140:ALA:HB2	2.40	0.46
2:B8:224:GLY:HA2	2:B8:225:PRO:HD2	1.81	0.46
2:Bf:140:LEU:N	2:Bf:140:LEU:HD23	2.30	0.46
2:Bh:157:VAL:HG23	3:Ci:50:THR:CG2	2.40	0.46
2:Bi:140:LEU:N	2:Bi:140:LEU:HD23	2.30	0.46
2:Bk:228:ASN:CG	3:Cn:140:ALA:HB2	2.40	0.46
2:Bl:157:VAL:CG2	3:Cm:50:THR:HG21	2.43	0.46
2:Bo:137:GLU:O	2:Bo:139:ALA:N	2.41	0.46
2:Bt:83:LEU:HA	2:Bt:84:PRO:HA	1.60	0.46
2:Bw:228:ASN:CG	3:Cu:140:ALA:HB2	2.40	0.46
3:CR:42:ASN:ND2	3:CR:44:ILE:H	2.12	0.46
3:CT:84:GLU:H	3:CT:84:GLU:CD	2.23	0.46
3:CU:110:PHE:HE2	3:CU:116:THR:HG22	1.80	0.46
3:C7:61:TYR:HB3	3:C7:205:LEU:HD23	1.97	0.46
3:C8:110:PHE:HE2	3:C8:116:THR:HG22	1.80	0.46
3:Ce:61:TYR:HB3	3:Ce:205:LEU:HD23	1.98	0.46
3:Ce:84:GLU:H	3:Ce:84:GLU:CD	2.23	0.46
3:Ci:84:GLU:CD	3:Ci:84:GLU:H	2.23	0.46
3:Ci:110:PHE:HE2	3:Ci:116:THR:HG22	1.80	0.46
3:Cs:61:TYR:HB3	3:Cs:205:LEU:HD23	1.98	0.46
1:DF:87:GLN:HE21	1:DF:210:ARG:NH2	2.12	0.46
1:AA:115:THR:OG1	1:AA:133:LEU:HB2	2.15	0.46
1:AC:242:ASN:HD22	1:AD:110:GLY:N	2.10	0.46
1:AD:234:LYS:HD2	3:CD:75:GLN:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:87:GLN:HE21	1:AG:210:ARG:NH2	2.12	0.46
1:AH:191:HIS:HD2	1:AH:193:GLY:N	2.08	0.46
1:AO:164:TRP:CE2	1:AO:187:LEU:HD13	2.51	0.46
1:AP:184:TYR:CE1	2:BS:139:ALA:HB2	2.50	0.46
1:AP:234:LYS:HD2	3:CQ:75:GLN:HB3	1.96	0.46
1:AQ:104:VAL:HG22	1:AQ:197:LEU:CD2	2.44	0.46
1:AQ:184:TYR:CE1	2:BP:139:ALA:HB2	2.50	0.46
1:AT:74:THR:HG21	3:CU:43:PHE:CE2	2.45	0.46
1:AU:74:THR:HG21	3:CV:43:PHE:CE2	2.45	0.46
1:AX:115:THR:OG1	1:AX:133:LEU:HB2	2.16	0.46
1:A3:234:LYS:HD2	3:C4:75:GLN:HB3	1.96	0.46
1:A7:146:ILE:O	1:A7:147:ALA:CB	2.62	0.46
1:Ad:234:LYS:HD2	3:Ce:75:GLN:HB3	1.96	0.46
1:Aj:234:LYS:HD2	3:Ck:75:GLN:HB3	1.96	0.46
2:BA:228:ASN:CG	3:CD:140:ALA:HB2	2.40	0.46
2:BB:140:LEU:N	2:BB:140:LEU:HD23	2.30	0.46
2:BC:83:LEU:HA	2:BC:84:PRO:HA	1.60	0.46
2:BE:140:LEU:HD23	2:BE:140:LEU:N	2.30	0.46
2:BK:86:ASP:HB3	2:BK:141:LYS:HA	1.96	0.46
2:BM:86:ASP:HB3	2:BM:141:LYS:HA	1.96	0.46
2:BN:228:ASN:CG	3:CM:140:ALA:HB2	2.40	0.46
2:BU:86:ASP:HB3	2:BU:141:LYS:HA	1.96	0.46
2:BV:140:LEU:HD23	2:BV:140:LEU:N	2.30	0.46
2:Bu:140:LEU:N	2:Bu:140:LEU:HD23	2.30	0.46
2:Bw:140:LEU:N	2:Bw:140:LEU:HD23	2.30	0.46
2:Bx:83:LEU:HA	2:Bx:84:PRO:HA	1.60	0.46
3:CG:61:TYR:HB3	3:CG:205:LEU:HD23	1.97	0.46
3:CK:76:MET:HB2	3:CK:84:GLU:HG2	1.96	0.46
3:CN:84:GLU:H	3:CN:84:GLU:CD	2.23	0.46
3:CO:84:GLU:H	3:CO:84:GLU:CD	2.23	0.46
3:CR:36:VAL:HA	3:CR:37:PRO:HD3	1.64	0.46
3:Ce:110:PHE:HE2	3:Ce:116:THR:HG22	1.80	0.46
3:Cn:42:ASN:ND2	3:Cn:44:ILE:H	2.12	0.46
3:Co:84:GLU:CD	3:Co:84:GLU:H	2.23	0.46
3:Cv:110:PHE:HE2	3:Cv:116:THR:HG22	1.80	0.46
1:DC:89:LYS:HE3	1:DD:128:VAL:HG21	1.96	0.46
1:DH:35:ASP:OD1	1:DH:212:ARG:HD3	2.16	0.46
1:DH:115:THR:OG1	1:DH:133:LEU:HB2	2.16	0.46
1:DI:164:TRP:CE2	1:DI:187:LEU:HD13	2.51	0.46
1:AB:184:TYR:CE1	2:BB:139:ALA:HB2	2.50	0.46
1:AI:234:LYS:HD2	3:CI:75:GLN:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:35:ASP:OD1	1:AK:212:ARG:HD3	2.16	0.46
1:AK:234:LYS:HD2	3:CL:75:GLN:HB3	1.96	0.46
1:AO:35:ASP:OD1	1:AO:212:ARG:HD3	2.16	0.46
1:AR:164:TRP:CE2	1:AR:187:LEU:HD13	2.51	0.46
1:AU:115:THR:OG1	1:AU:133:LEU:HB2	2.15	0.46
1:AU:207:CYS:O	1:AU:208:TYR:CB	2.57	0.46
1:AZ:225:PRO:HA	1:AZ:226:PRO:HD3	1.78	0.46
1:A1:35:ASP:OD1	1:A1:212:ARG:HD3	2.16	0.46
1:A4:191:HIS:CD2	1:A4:193:GLY:H	2.21	0.46
1:A5:184:TYR:CE1	2:B5:139:ALA:HB2	2.49	0.46
1:A9:242:ASN:HD22	1:Ac:110:GLY:N	2.10	0.46
1:Ac:35:ASP:OD1	1:Ac:212:ARG:HD3	2.16	0.46
1:Ac:174:TRP:CZ2	2:Bc:139:ALA:HB3	2.49	0.46
1:Ae:184:TYR:CE1	2:Be:139:ALA:HB2	2.50	0.46
1:Af:115:THR:OG1	1:Af:133:LEU:HB2	2.16	0.46
1:Af:207:CYS:O	1:Af:208:TYR:CB	2.57	0.46
1:Ai:184:TYR:CE1	2:Bi:139:ALA:HB2	2.50	0.46
1:Am:234:LYS:HD2	3:Cn:75:GLN:HB3	1.96	0.46
1:Ao:164:TRP:CE2	1:Ao:187:LEU:HD13	2.51	0.46
2:BD:140:LEU:N	2:BD:140:LEU:HD23	2.30	0.46
2:BL:83:LEU:HA	2:BL:84:PRO:HA	1.60	0.46
2:BO:83:LEU:HA	2:BO:84:PRO:HA	1.60	0.46
2:BZ:228:ASN:CG	3:C2:140:ALA:HB2	2.40	0.46
2:Bf:228:ASN:CG	3:Ci:140:ALA:HB2	2.40	0.46
2:Bs:139:ALA:HB2	1:DF:184:TYR:CE1	2.50	0.46
3:CA:110:PHE:HE2	3:CA:116:THR:HG22	1.80	0.46
3:CH:61:TYR:HB3	3:CH:205:LEU:HD23	1.98	0.46
3:CO:110:PHE:HE2	3:CO:116:THR:HG22	1.80	0.46
3:CQ:84:GLU:H	3:CQ:84:GLU:CD	2.23	0.46
3:CZ:61:TYR:HB3	3:CZ:205:LEU:HD23	1.98	0.46
3:C3:42:ASN:ND2	3:C3:44:ILE:H	2.11	0.46
3:C4:84:GLU:CD	3:C4:84:GLU:H	2.23	0.46
3:Cf:61:TYR:HB3	3:Cf:205:LEU:HD23	1.97	0.46
3:Cj:84:GLU:H	3:Cj:84:GLU:CD	2.23	0.46
3:Cp:61:TYR:HB3	3:Cp:205:LEU:HD23	1.97	0.46
3:Cs:75:GLN:HB3	1:DE:234:LYS:HD2	1.96	0.46
3:Cu:75:GLN:HB3	1:DG:234:LYS:HD2	1.96	0.46
3:DB:42:ASN:ND2	3:DB:44:ILE:H	2.12	0.46
1:DG:164:TRP:CE2	1:DG:187:LEU:HD13	2.51	0.46
1:AB:234:LYS:HD2	3:CB:75:GLN:HB3	1.96	0.46
1:AK:115:THR:OG1	1:AK:133:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:164:TRP:CE2	1:AK:187:LEU:HD13	2.51	0.46
1:AN:115:THR:OG1	1:AN:133:LEU:HB2	2.16	0.46
1:AP:35:ASP:OD1	1:AP:212:ARG:HD3	2.16	0.46
1:AQ:115:THR:OG1	1:AQ:133:LEU:HB2	2.16	0.46
1:AU:35:ASP:OD1	1:AU:212:ARG:HD3	2.16	0.46
1:AX:35:ASP:OD1	1:AX:212:ARG:HD3	2.16	0.46
1:AX:191:HIS:HD2	1:AX:193:GLY:N	2.08	0.46
1:AY:115:THR:OG1	1:AY:133:LEU:HB2	2.15	0.46
1:AZ:115:THR:OG1	1:AZ:133:LEU:HB2	2.15	0.46
1:AZ:164:TRP:CE2	1:AZ:187:LEU:HD13	2.51	0.46
1:A0:87:GLN:HE21	1:A0:210:ARG:NH2	2.12	0.46
1:A5:115:THR:OG1	1:A5:133:LEU:HB2	2.16	0.46
1:A5:164:TRP:CE2	1:A5:187:LEU:HD13	2.51	0.46
1:A8:115:THR:OG1	1:A8:133:LEU:HB2	2.15	0.46
1:Aa:115:THR:OG1	1:Aa:133:LEU:HB2	2.16	0.46
1:Ac:115:THR:OG1	1:Ac:133:LEU:HB2	2.16	0.46
1:Ac:146:ILE:O	1:Ac:147:ALA:CB	2.62	0.46
1:Ag:164:TRP:CE2	1:Ag:187:LEU:HD13	2.51	0.46
1:Ah:35:ASP:OD1	1:Ah:212:ARG:HD3	2.16	0.46
1:Ai:74:THR:HG21	3:Cj:43:PHE:CE2	2.45	0.46
1:Ai:164:TRP:CE2	1:Ai:187:LEU:HD13	2.51	0.46
1:Am:35:ASP:OD1	1:Am:212:ARG:HD3	2.16	0.46
1:Am:115:THR:OG1	1:Am:133:LEU:HB2	2.16	0.46
1:An:164:TRP:CE2	1:An:187:LEU:HD13	2.51	0.46
1:An:184:TYR:CE1	2:Bn:139:ALA:HB2	2.50	0.46
2:BE:157:VAL:CG2	3:CE:50:THR:HG21	2.42	0.46
2:BO:228:ASN:CG	3:CS:140:ALA:HB2	2.40	0.46
2:Ba:157:VAL:CG2	3:DB:50:THR:HG21	2.43	0.46
2:Bd:83:LEU:HA	2:Bd:84:PRO:HA	1.60	0.46
2:Be:140:LEU:N	2:Be:140:LEU:HD23	2.30	0.46
2:Bg:228:ASN:CG	3:Cg:140:ALA:HB2	2.40	0.46
2:Bj:140:LEU:N	2:Bj:140:LEU:HD23	2.30	0.46
2:Bj:157:VAL:CG2	3:Ck:50:THR:HG21	2.43	0.46
2:Br:137:GLU:C	2:Br:139:ALA:H	2.22	0.46
2:Bt:228:ASN:CG	3:Ct:140:ALA:HB2	2.40	0.46
3:CI:110:PHE:HE2	3:CI:116:THR:HG22	1.80	0.46
3:CK:110:PHE:HE2	3:CK:116:THR:HG22	1.80	0.46
3:CS:36:VAL:HA	3:CS:37:PRO:HD3	1.64	0.46
3:CS:84:GLU:CD	3:CS:84:GLU:H	2.23	0.46
3:CZ:84:GLU:H	3:CZ:84:GLU:CD	2.23	0.46
3:C3:84:GLU:H	3:C3:84:GLU:CD	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:61:TYR:HB3	3:C6:205:LEU:HD23	1.98	0.46
3:C6:84:GLU:H	3:C6:84:GLU:CD	2.23	0.46
3:C7:110:PHE:HE2	3:C7:116:THR:HG22	1.80	0.46
3:Cg:110:PHE:HE2	3:Cg:116:THR:HG22	1.80	0.46
3:Cj:61:TYR:HB3	3:Cj:205:LEU:HD23	1.98	0.46
3:Ck:42:ASN:ND2	3:Ck:44:ILE:H	2.12	0.46
3:Cp:36:VAL:HA	3:Cp:37:PRO:HD3	1.64	0.46
1:DD:115:THR:OG1	1:DD:133:LEU:HB2	2.16	0.46
1:DE:35:ASP:OD1	1:DE:212:ARG:HD3	2.16	0.46
1:DJ:35:ASP:OD1	1:DJ:212:ARG:HD3	2.16	0.46
1:AA:234:LYS:HD2	3:CA:75:GLN:HB3	1.96	0.46
1:AB:164:TRP:CE2	1:AB:187:LEU:HD13	2.51	0.46
1:AC:35:ASP:OD1	1:AC:212:ARG:HD3	2.16	0.46
1:AD:35:ASP:OD1	1:AD:212:ARG:HD3	2.16	0.46
1:AD:74:THR:HG21	3:CD:43:PHE:CE1	2.45	0.46
1:AH:89:LYS:HE3	1:AI:128:VAL:HG21	1.96	0.46
1:AM:74:THR:HG21	3:CN:43:PHE:CE1	2.45	0.46
1:AP:164:TRP:CE2	1:AP:187:LEU:HD13	2.51	0.46
1:AQ:164:TRP:CE2	1:AQ:187:LEU:HD13	2.51	0.46
1:AS:164:TRP:CE2	1:AS:187:LEU:HD13	2.51	0.46
1:AV:164:TRP:CE2	1:AV:187:LEU:HD13	2.51	0.46
1:A2:164:TRP:CE2	1:A2:187:LEU:HD13	2.51	0.46
1:A3:104:VAL:HG22	1:A3:197:LEU:CD2	2.44	0.46
1:A4:146:ILE:O	1:A4:147:ALA:CB	2.62	0.46
1:A5:128:VAL:HG23	1:A7:91:THR:HG22	1.98	0.46
1:Ab:35:ASP:OD1	1:Ab:212:ARG:HD3	2.16	0.46
1:Ac:164:TRP:CE2	1:Ac:187:LEU:HD13	2.51	0.46
1:Ad:35:ASP:OD1	1:Ad:212:ARG:HD3	2.16	0.46
1:Ad:181:LYS:O	1:Ad:182:ALA:CB	2.61	0.46
1:Ad:191:HIS:HD2	1:Ad:193:GLY:N	2.08	0.46
1:Ag:225:PRO:HA	1:Ag:226:PRO:HD3	1.78	0.46
1:Ah:115:THR:OG1	1:Ah:133:LEU:HB2	2.15	0.46
1:Ak:35:ASP:OD1	1:Ak:212:ARG:HD3	2.16	0.46
1:Ak:128:VAL:HG23	1:Am:91:THR:HG22	1.98	0.46
1:Al:164:TRP:CE2	1:Al:187:LEU:HD13	2.51	0.46
1:Am:165:ARG:HG2	2:Bm:180:PRO:O	2.14	0.46
1:An:35:ASP:OD1	1:An:212:ARG:HD3	2.16	0.46
1:An:110:GLY:N	1:DD:242:ASN:HD22	2.10	0.46
2:BA:157:VAL:HG23	3:CA:50:THR:CG2	2.40	0.46
2:BD:157:VAL:CG2	3:CD:50:THR:HG21	2.42	0.46
2:BG:140:LEU:N	2:BG:140:LEU:HD23	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:228:ASN:CG	3:CR:140:ALA:HB2	2.40	0.46
2:B3:140:LEU:N	2:B3:140:LEU:HD23	2.30	0.46
2:B7:83:LEU:HA	2:B7:84:PRO:HA	1.60	0.46
2:Be:228:ASN:CG	3:Ce:140:ALA:HB2	2.40	0.46
2:Bw:139:ALA:HB2	1:DJ:184:TYR:CE1	2.49	0.46
3:CH:110:PHE:HE2	3:CH:116:THR:HG22	1.80	0.46
3:CV:36:VAL:HA	3:CV:37:PRO:HD3	1.64	0.46
3:CX:84:GLU:CD	3:CX:84:GLU:H	2.23	0.46
3:C3:61:TYR:HB3	3:C3:205:LEU:HD23	1.98	0.46
3:Cj:110:PHE:HE2	3:Cj:116:THR:HG22	1.80	0.46
3:Cq:61:TYR:HB3	3:Cq:205:LEU:HD23	1.97	0.46
3:Ct:84:GLU:CD	3:Ct:84:GLU:H	2.23	0.46
3:Ct:110:PHE:HE2	3:Ct:116:THR:HG22	1.80	0.46
1:DC:35:ASP:OD1	1:DC:212:ARG:HD3	2.16	0.46
1:DG:181:LYS:O	1:DG:182:ALA:CB	2.62	0.46
1:DJ:87:GLN:HE21	1:DJ:210:ARG:NH2	2.12	0.46
1:DK:35:ASP:OD1	1:DK:212:ARG:HD3	2.16	0.46
1:AB:174:TRP:CE2	1:AB:179:LYS:HB3	2.51	0.46
1:AD:174:TRP:CE2	1:AD:179:LYS:HB3	2.51	0.46
1:AE:115:THR:OG1	1:AE:133:LEU:HB2	2.16	0.46
1:AF:225:PRO:HA	1:AF:226:PRO:HD3	1.78	0.46
1:AG:35:ASP:OD1	1:AG:212:ARG:HD3	2.16	0.46
1:AH:35:ASP:OD1	1:AH:212:ARG:HD3	2.16	0.46
1:AH:174:TRP:CE2	1:AH:179:LYS:HB3	2.51	0.46
1:AK:184:TYR:CE1	2:BL:139:ALA:HB2	2.50	0.46
1:AO:174:TRP:CE2	1:AO:179:LYS:HB3	2.51	0.46
1:AO:225:PRO:HA	1:AO:226:PRO:HD3	1.78	0.46
1:AQ:35:ASP:OD1	1:AQ:212:ARG:HD3	2.16	0.46
1:AQ:87:GLN:HE21	1:AQ:210:ARG:NH2	2.12	0.46
1:AR:174:TRP:CE2	1:AR:179:LYS:HB3	2.51	0.46
1:AS:74:THR:HG21	3:CT:43:PHE:CE2	2.45	0.46
1:AV:35:ASP:OD1	1:AV:212:ARG:HD3	2.16	0.46
1:AW:234:LYS:HD2	3:CX:75:GLN:HB3	1.96	0.46
1:A2:115:THR:OG1	1:A2:133:LEU:HB2	2.16	0.46
1:A3:164:TRP:CE2	1:A3:187:LEU:HD13	2.51	0.46
1:A4:35:ASP:OD1	1:A4:212:ARG:HD3	2.16	0.46
1:A4:234:LYS:HD2	3:C5:75:GLN:HB3	1.96	0.46
1:A6:191:HIS:HD2	1:A6:193:GLY:N	2.08	0.46
1:A7:35:ASP:OD1	1:A7:212:ARG:HD3	2.16	0.46
1:A7:74:THR:HG21	3:C8:43:PHE:CE2	2.45	0.46
1:Ac:184:TYR:CE1	2:Bc:139:ALA:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:115:THR:OG1	1:Ae:133:LEU:HB2	2.15	0.46
1:Ae:164:TRP:CE2	1:Ae:187:LEU:HD13	2.51	0.46
1:Af:164:TRP:CE2	1:Af:187:LEU:HD13	2.51	0.46
1:Ag:174:TRP:CE2	1:Ag:179:LYS:HB3	2.51	0.46
1:Ai:87:GLN:HE21	1:Ai:210:ARG:NH2	2.12	0.46
1:Aj:35:ASP:OD1	1:Aj:212:ARG:HD3	2.16	0.46
1:Aj:115:THR:OG1	1:Aj:133:LEU:HB2	2.15	0.46
1:Aj:174:TRP:CE2	1:Aj:179:LYS:HB3	2.51	0.46
1:Ao:115:THR:OG1	1:Ao:133:LEU:HB2	2.16	0.46
2:BD:228:ASN:CG	3:CC:140:ALA:HB2	2.40	0.46
2:BW:140:LEU:N	2:BW:140:LEU:HD23	2.30	0.46
2:BY:228:ASN:CG	3:CV:140:ALA:HB2	2.40	0.46
2:B9:83:LEU:HA	2:B9:84:PRO:HA	1.60	0.46
2:Bc:140:LEU:N	2:Bc:140:LEU:HD23	2.30	0.46
2:Bl:228:ASN:CG	3:Cl:140:ALA:HB2	2.40	0.46
3:CC:110:PHE:HE2	3:CC:116:THR:HG22	1.80	0.46
3:CD:36:VAL:HA	3:CD:37:PRO:HD3	1.64	0.46
3:CF:61:TYR:HB3	3:CF:205:LEU:HD23	1.98	0.46
3:CS:110:PHE:HE2	3:CS:116:THR:HG22	1.80	0.46
3:CU:61:TYR:HB3	3:CU:205:LEU:HD23	1.98	0.46
3:Cr:43:PHE:CE2	1:DD:74:THR:HG21	2.45	0.46
3:Cv:84:GLU:H	3:Cv:84:GLU:CD	2.23	0.46
3:Cw:61:TYR:HB3	3:Cw:205:LEU:HD23	1.98	0.46
1:DF:174:TRP:CE2	1:DF:179:LYS:HB3	2.51	0.46
1:AA:164:TRP:CE2	1:AA:187:LEU:HD13	2.51	0.46
1:AA:207:CYS:O	1:AA:208:TYR:CB	2.57	0.46
1:AB:35:ASP:OD1	1:AB:212:ARG:HD3	2.16	0.46
1:AH:234:LYS:HD2	3:CH:75:GLN:HB3	1.96	0.46
1:AL:35:ASP:OD1	1:AL:212:ARG:HD3	2.16	0.46
1:AM:115:THR:OG1	1:AM:133:LEU:HB2	2.16	0.46
1:AQ:174:TRP:CE2	1:AQ:179:LYS:HB3	2.51	0.46
1:AS:115:THR:OG1	1:AS:133:LEU:HB2	2.16	0.46
1:AT:191:HIS:HD2	1:AT:193:GLY:N	2.08	0.46
1:AV:191:HIS:HD2	1:AV:193:GLY:N	2.08	0.46
1:AW:174:TRP:CE2	1:AW:179:LYS:HB3	2.51	0.46
1:AY:35:ASP:OD1	1:AY:212:ARG:HD3	2.16	0.46
1:A0:74:THR:HG21	3:C1:43:PHE:CE2	2.45	0.46
1:A0:174:TRP:CE2	1:A0:179:LYS:HB3	2.51	0.46
1:A1:164:TRP:CE2	1:A1:187:LEU:HD13	2.51	0.46
1:A2:174:TRP:CE2	1:A2:179:LYS:HB3	2.51	0.46
1:A6:174:TRP:CE2	1:A6:179:LYS:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:87:GLN:HE21	1:A7:210:ARG:NH2	2.12	0.46
1:A9:164:TRP:CE2	1:A9:187:LEU:HD13	2.51	0.46
1:Ab:115:THR:OG1	1:Ab:133:LEU:HB2	2.15	0.46
1:Ab:191:HIS:HD2	1:Ab:193:GLY:N	2.08	0.46
1:Ai:174:TRP:CE2	1:Ai:179:LYS:HB3	2.51	0.46
1:Ak:191:HIS:HD2	1:Ak:193:GLY:N	2.08	0.46
1:Ao:74:THR:HG21	3:Cp:43:PHE:CE2	2.45	0.46
2:BR:157:VAL:CG2	3:CO:50:THR:HG21	2.42	0.46
2:BX:83:LEU:HA	2:BX:84:PRO:HA	1.60	0.46
2:BX:140:LEU:N	2:BX:140:LEU:HD23	2.30	0.46
2:B2:224:GLY:HA2	2:B2:225:PRO:HD2	1.81	0.46
2:B5:228:ASN:CG	3:C8:140:ALA:HB2	2.40	0.46
2:B9:86:ASP:HB3	2:B9:141:LYS:HA	1.96	0.46
2:Bj:228:ASN:CG	3:Cj:140:ALA:HB2	2.40	0.46
2:Bk:157:VAL:CG2	3:Cl:50:THR:HG21	2.43	0.46
2:Bo:83:LEU:HA	2:Bo:84:PRO:HA	1.60	0.46
2:Bs:140:LEU:N	2:Bs:140:LEU:HD23	2.30	0.46
3:CA:84:GLU:H	3:CA:84:GLU:CD	2.23	0.46
3:CS:150:LEU:HD12	3:CS:150:LEU:HA	1.79	0.46
3:CT:110:PHE:HE2	3:CT:116:THR:HG22	1.80	0.46
3:CZ:110:PHE:HE2	3:CZ:116:THR:HG22	1.80	0.46
3:C1:61:TYR:HB3	3:C1:205:LEU:HD23	1.98	0.46
3:C4:61:TYR:HB3	3:C4:205:LEU:HD23	1.98	0.46
3:C9:150:LEU:HA	3:C9:150:LEU:HD12	1.79	0.46
3:Cg:61:TYR:HB3	3:Cg:205:LEU:HD23	1.98	0.46
3:Ch:61:TYR:HB3	3:Ch:205:LEU:HD23	1.98	0.46
3:Ci:42:ASN:ND2	3:Ci:44:ILE:H	2.12	0.46
3:Ck:36:VAL:HA	3:Ck:37:PRO:HD3	1.64	0.46
3:Cl:150:LEU:HD12	3:Cl:150:LEU:HA	1.79	0.46
3:Cm:61:TYR:HB3	3:Cm:205:LEU:HD23	1.98	0.46
3:Cw:36:VAL:HA	3:Cw:37:PRO:HD3	1.64	0.46
1:DC:115:THR:OG1	1:DC:133:LEU:HB2	2.16	0.46
1:DD:164:TRP:CE2	1:DD:187:LEU:HD13	2.51	0.46
1:DH:164:TRP:CE2	1:DH:187:LEU:HD13	2.51	0.46
1:AE:35:ASP:OD1	1:AE:212:ARG:HD3	2.16	0.46
1:AG:164:TRP:CE2	1:AG:187:LEU:HD13	2.51	0.46
1:AJ:174:TRP:CE2	1:AJ:179:LYS:HB3	2.51	0.46
1:AL:110:GLY:N	1:AN:242:ASN:HD22	2.10	0.46
1:AU:91:THR:HG22	1:AX:128:VAL:HG23	1.98	0.46
1:AU:174:TRP:CE2	1:AU:179:LYS:HB3	2.51	0.46
1:AW:115:THR:OG1	1:AW:133:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:91:THR:HG22	1:AZ:128:VAL:HG23	1.98	0.46
1:A1:115:THR:OG1	1:A1:133:LEU:HB2	2.16	0.46
1:A8:174:TRP:CE2	1:A8:179:LYS:HB3	2.51	0.46
1:A9:91:THR:HG22	1:Ac:128:VAL:HG23	1.98	0.46
1:Aa:35:ASP:OD1	1:Aa:212:ARG:HD3	2.16	0.46
1:Aa:191:HIS:HD2	1:Aa:193:GLY:N	2.08	0.46
1:Ag:115:THR:OG1	1:Ag:133:LEU:HB2	2.15	0.46
1:Aj:91:THR:HG22	1:Am:128:VAL:HG23	1.98	0.46
1:An:207:CYS:O	1:An:208:TYR:CB	2.57	0.46
1:Ao:35:ASP:OD1	1:Ao:212:ARG:HD3	2.16	0.46
1:Ao:191:HIS:HD2	1:Ao:193:GLY:N	2.08	0.46
2:BJ:85:SER:HB2	2:BJ:190:ASN:ND2	2.31	0.46
2:BP:85:SER:HB2	2:BP:190:ASN:ND2	2.31	0.46
2:B6:157:VAL:CG2	3:C7:50:THR:HG21	2.42	0.46
2:B8:85:SER:HB2	2:B8:190:ASN:ND2	2.31	0.46
2:Ba:228:ASN:CG	3:Cd:140:ALA:HB2	2.40	0.46
2:Bk:140:LEU:N	2:Bk:140:LEU:HD23	2.30	0.46
2:Bn:85:SER:HB2	2:Bn:190:ASN:ND2	2.31	0.46
3:CB:84:GLU:CD	3:CB:84:GLU:H	2.23	0.46
3:CI:127:PRO:HD3	3:CI:180:SER:C	2.41	0.46
3:CW:61:TYR:HB3	3:CW:205:LEU:HD23	1.98	0.46
3:CW:84:GLU:H	3:CW:84:GLU:CD	2.23	0.46
3:C5:84:GLU:H	3:C5:84:GLU:CD	2.23	0.46
3:C9:84:GLU:H	3:C9:84:GLU:CD	2.23	0.46
3:Cn:110:PHE:HE2	3:Cn:116:THR:HG22	1.80	0.46
3:Cv:127:PRO:HD3	3:Cv:180:SER:C	2.41	0.46
3:Cw:110:PHE:HE2	3:Cw:116:THR:HG22	1.80	0.46
3:DB:110:PHE:HE2	3:DB:116:THR:HG22	1.80	0.46
1:DD:35:ASP:OD1	1:DD:212:ARG:HD3	2.16	0.46
1:DE:164:TRP:CE2	1:DE:187:LEU:HD13	2.51	0.46
1:DG:35:ASP:OD1	1:DG:212:ARG:HD3	2.16	0.46
1:AF:164:TRP:CE2	1:AF:187:LEU:HD13	2.51	0.45
1:AH:74:THR:HG21	3:CH:43:PHE:CE1	2.45	0.45
1:AH:91:THR:HG22	1:AI:128:VAL:HG23	1.98	0.45
1:AL:91:THR:HG22	1:AM:128:VAL:HG23	1.98	0.45
1:AM:174:TRP:CE2	1:AM:179:LYS:HB3	2.51	0.45
1:AN:35:ASP:OD1	1:AN:212:ARG:HD3	2.16	0.45
1:AN:164:TRP:CE2	1:AN:187:LEU:HD13	2.51	0.45
1:AR:115:THR:OG1	1:AR:133:LEU:HB2	2.16	0.45
1:AT:91:THR:HG22	1:AU:128:VAL:HG23	1.98	0.45
1:AT:164:TRP:CE2	1:AT:187:LEU:HD13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:174:TRP:CE2	1:AX:179:LYS:HB3	2.51	0.45
1:AY:128:VAL:HG23	1:A1:91:THR:HG22	1.98	0.45
1:AZ:35:ASP:OD1	1:AZ:212:ARG:HD3	2.16	0.45
1:A3:91:THR:HG22	1:A4:128:VAL:HG23	1.98	0.45
1:A6:35:ASP:OD1	1:A6:212:ARG:HD3	2.16	0.45
1:A7:174:TRP:CE2	1:A7:179:LYS:HB3	2.51	0.45
1:Af:174:TRP:CE2	1:Af:179:LYS:HB3	2.51	0.45
1:Ah:74:THR:HG21	3:Ci:43:PHE:CE2	2.45	0.45
1:Ai:242:ASN:HD22	1:Aj:110:GLY:N	2.10	0.45
1:Aj:164:TRP:CE2	1:Aj:187:LEU:HD13	2.51	0.45
1:Al:1:VAL:C	1:Al:3:ASN:H	2.24	0.45
1:Am:164:TRP:CE2	1:Am:187:LEU:HD13	2.51	0.45
1:Ao:174:TRP:CE2	1:Ao:179:LYS:HB3	2.51	0.45
2:BE:137:GLU:O	2:BE:139:ALA:N	2.42	0.45
2:BI:85:SER:HB2	2:BI:190:ASN:ND2	2.31	0.45
2:BK:228:ASN:CG	3:CN:140:ALA:HB2	2.40	0.45
2:BO:224:GLY:HA2	2:BO:225:PRO:HD2	1.81	0.45
2:BQ:157:VAL:CG2	3:CS:50:THR:HG21	2.42	0.45
2:BV:85:SER:HB2	2:BV:190:ASN:ND2	2.31	0.45
2:B7:85:SER:HB2	2:B7:190:ASN:ND2	2.31	0.45
2:B8:157:VAL:CG2	3:C9:50:THR:HG21	2.43	0.45
3:CB:61:TYR:HB3	3:CB:205:LEU:HD23	1.97	0.45
3:CD:61:TYR:HB3	3:CD:205:LEU:HD23	1.98	0.45
3:CE:110:PHE:HE2	3:CE:116:THR:HG22	1.80	0.45
3:CF:110:PHE:HE2	3:CF:116:THR:HG22	1.80	0.45
3:CK:61:TYR:HB3	3:CK:205:LEU:HD23	1.98	0.45
3:CM:84:GLU:CD	3:CM:84:GLU:H	2.23	0.45
3:CQ:36:VAL:HA	3:CQ:37:PRO:HD3	1.64	0.45
3:CR:110:PHE:HE2	3:CR:116:THR:HG22	1.80	0.45
3:CX:61:TYR:HB3	3:CX:205:LEU:HD23	1.98	0.45
3:C2:127:PRO:HD3	3:C2:180:SER:C	2.41	0.45
3:Ch:36:VAL:HA	3:Ch:37:PRO:HD3	1.64	0.45
3:Ck:110:PHE:HE2	3:Ck:116:THR:HG22	1.80	0.45
3:Cn:61:TYR:HB3	3:Cn:205:LEU:HD23	1.97	0.45
3:Cs:150:LEU:HD12	3:Cs:150:LEU:HA	1.79	0.45
3:Cw:127:PRO:HD3	3:Cw:180:SER:C	2.42	0.45
1:DC:174:TRP:CE2	1:DC:179:LYS:HB3	2.51	0.45
1:DF:91:THR:HG22	1:DG:128:VAL:HG23	1.98	0.45
1:DG:91:THR:HG22	1:DJ:128:VAL:HG23	1.98	0.45
1:DH:128:VAL:HG23	1:DJ:91:THR:HG22	1.98	0.45
1:AE:209:LEU:HA	1:AE:209:LEU:HD22	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:115:THR:OG1	1:AG:133:LEU:HB2	2.15	0.45
1:AH:164:TRP:CE2	1:AH:187:LEU:HD13	2.51	0.45
1:AN:174:TRP:CE2	1:AN:179:LYS:HB3	2.51	0.45
1:AO:209:LEU:HA	1:AO:209:LEU:HD22	1.74	0.45
1:AP:174:TRP:CE2	1:AP:179:LYS:HB3	2.51	0.45
1:AY:225:PRO:HA	1:AY:226:PRO:HD3	1.78	0.45
1:A0:91:THR:HG22	1:A1:128:VAL:HG23	1.98	0.45
1:A0:110:GLY:N	1:A2:242:ASN:HD22	2.10	0.45
1:A2:35:ASP:OD1	1:A2:212:ARG:HD3	2.16	0.45
1:A4:174:TRP:CE2	1:A4:179:LYS:HB3	2.51	0.45
1:A7:164:TRP:CE2	1:A7:187:LEU:HD13	2.51	0.45
1:Ab:164:TRP:CE2	1:Ab:187:LEU:HD13	2.51	0.45
1:Ac:234:LYS:HD2	3:Cd:75:GLN:HB3	1.96	0.45
1:Ae:174:TRP:CE2	1:Ae:179:LYS:HB3	2.51	0.45
1:Ae:242:ASN:HD22	1:Ah:110:GLY:N	2.10	0.45
1:Ah:174:TRP:CE2	1:Ah:179:LYS:HB3	2.51	0.45
1:Aj:74:THR:HG21	3:Ck:43:PHE:CE2	2.45	0.45
1:Ak:115:THR:OG1	1:Ak:133:LEU:HB2	2.16	0.45
1:Al:207:CYS:O	1:Al:208:TYR:CB	2.57	0.45
1:Am:174:TRP:CE2	1:Am:179:LYS:HB3	2.51	0.45
2:BW:85:SER:HB2	2:BW:190:ASN:ND2	2.31	0.45
3:CD:127:PRO:HD3	3:CD:180:SER:C	2.41	0.45
3:CG:84:GLU:CD	3:CG:84:GLU:H	2.23	0.45
3:CJ:110:PHE:HE2	3:CJ:116:THR:HG22	1.80	0.45
3:CP:127:PRO:HD3	3:CP:180:SER:C	2.42	0.45
3:CQ:61:TYR:HB3	3:CQ:205:LEU:HD23	1.98	0.45
3:C4:110:PHE:HE2	3:C4:116:THR:HG22	1.80	0.45
3:C8:61:TYR:HB3	3:C8:205:LEU:HD23	1.98	0.45
3:C8:127:PRO:HD3	3:C8:180:SER:C	2.42	0.45
3:Cc:61:TYR:HB3	3:Cc:205:LEU:HD23	1.98	0.45
3:Ce:150:LEU:HD12	3:Ce:150:LEU:HA	1.79	0.45
3:Ch:84:GLU:H	3:Ch:84:GLU:CD	2.23	0.45
3:Ck:61:TYR:HB3	3:Ck:205:LEU:HD23	1.97	0.45
3:Cq:43:PHE:CE2	1:DC:74:THR:HG21	2.45	0.45
3:Cq:110:PHE:HE2	3:Cq:116:THR:HG22	1.80	0.45
3:Ct:127:PRO:HD3	3:Ct:180:SER:C	2.41	0.45
3:Cx:127:PRO:HD3	3:Cx:180:SER:C	2.42	0.45
3:DA:84:GLU:CD	3:DA:84:GLU:H	2.23	0.45
3:DB:127:PRO:HD3	3:DB:180:SER:C	2.41	0.45
1:DD:174:TRP:CE2	1:DD:179:LYS:HB3	2.51	0.45
1:DF:115:THR:OG1	1:DF:133:LEU:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:174:TRP:CE2	1:DI:179:LYS:HB3	2.51	0.45
1:AE:174:TRP:CE2	1:AE:179:LYS:HB3	2.51	0.45
1:AF:87:GLN:HE21	1:AF:210:ARG:NH2	2.12	0.45
1:AG:174:TRP:CE2	1:AG:179:LYS:HB3	2.51	0.45
1:AI:35:ASP:OD1	1:AI:212:ARG:HD3	2.16	0.45
1:AJ:164:TRP:CE2	1:AJ:187:LEU:HD13	2.51	0.45
1:AM:35:ASP:OD1	1:AM:212:ARG:HD3	2.16	0.45
1:AO:128:VAL:HG23	1:AR:91:THR:HG22	1.98	0.45
1:AP:91:THR:HG22	1:AS:128:VAL:HG23	1.98	0.45
1:AU:242:ASN:HD22	1:AX:110:GLY:N	2.10	0.45
1:AW:35:ASP:OD1	1:AW:212:ARG:HD3	2.16	0.45
1:AX:164:TRP:CE2	1:AX:187:LEU:HD13	2.51	0.45
1:A0:115:THR:OG1	1:A0:133:LEU:HB2	2.16	0.45
1:A0:164:TRP:CE2	1:A0:187:LEU:HD13	2.51	0.45
1:A5:35:ASP:OD1	1:A5:212:ARG:HD3	2.16	0.45
1:Aa:164:TRP:CE2	1:Aa:187:LEU:HD13	2.51	0.45
1:Ae:35:ASP:OD1	1:Ae:212:ARG:HD3	2.16	0.45
1:Ak:91:THR:HG22	1:Al:128:VAL:HG23	1.98	0.45
1:An:174:TRP:CE2	1:An:179:LYS:HB3	2.51	0.45
2:BE:118:PHE:HE2	2:BF:118:PHE:CD1	1.98	0.45
2:BG:83:LEU:HA	2:BG:84:PRO:HA	1.60	0.45
2:BM:85:SER:HB2	2:BM:190:ASN:ND2	2.31	0.45
2:Ba:85:SER:HB2	2:Ba:190:ASN:ND2	2.31	0.45
2:Bg:83:LEU:HA	2:Bg:84:PRO:HA	1.60	0.45
2:Bu:85:SER:HB2	2:Bu:190:ASN:ND2	2.31	0.45
3:CC:127:PRO:HD3	3:CC:180:SER:C	2.41	0.45
3:CR:127:PRO:HD3	3:CR:180:SER:C	2.41	0.45
3:CS:127:PRO:HD3	3:CS:180:SER:C	2.41	0.45
3:CU:84:GLU:H	3:CU:84:GLU:CD	2.23	0.45
3:CY:150:LEU:HD12	3:CY:150:LEU:HA	1.79	0.45
3:C0:127:PRO:HD3	3:C0:180:SER:C	2.41	0.45
3:Cf:84:GLU:CD	3:Cf:84:GLU:H	2.23	0.45
3:Cp:127:PRO:HD3	3:Cp:180:SER:C	2.42	0.45
3:Cq:127:PRO:HD3	3:Cq:180:SER:C	2.41	0.45
3:Cu:84:GLU:CD	3:Cu:84:GLU:H	2.23	0.45
3:Cu:110:PHE:HE2	3:Cu:116:THR:HG22	1.80	0.45
3:DB:61:TYR:HB3	3:DB:205:LEU:HD23	1.97	0.45
3:DB:84:GLU:H	3:DB:84:GLU:CD	2.23	0.45
1:DC:164:TRP:CE2	1:DC:187:LEU:HD13	2.51	0.45
1:DI:115:THR:OG1	1:DI:133:LEU:HB2	2.16	0.45
1:DK:164:TRP:CE2	1:DK:187:LEU:HD13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:242:ASN:HD22	1:AB:110:GLY:N	2.10	0.45
1:AC:209:LEU:HD22	1:AC:209:LEU:HA	1.74	0.45
1:AF:174:TRP:CE2	1:AF:179:LYS:HB3	2.51	0.45
1:AI:1:VAL:C	1:AI:3:ASN:H	2.24	0.45
1:AL:128:VAL:HG23	1:AN:91:THR:HG22	1.98	0.45
1:AL:164:TRP:CE2	1:AL:187:LEU:HD13	2.51	0.45
1:AN:1:VAL:C	1:AN:3:ASN:H	2.24	0.45
1:AR:74:THR:HG21	3:CS:43:PHE:CE2	2.45	0.45
1:AS:35:ASP:OD1	1:AS:212:ARG:HD3	2.16	0.45
1:AS:174:TRP:CE2	1:AS:179:LYS:HB3	2.51	0.45
1:A6:115:THR:OG1	1:A6:133:LEU:HB2	2.15	0.45
1:A8:1:VAL:C	1:A8:3:ASN:H	2.24	0.45
1:A8:35:ASP:OD1	1:A8:212:ARG:HD3	2.16	0.45
1:A9:35:ASP:OD1	1:A9:212:ARG:HD3	2.16	0.45
1:Aa:91:THR:HG22	1:Ab:128:VAL:HG23	1.98	0.45
1:Af:242:ASN:HD22	1:Ag:110:GLY:N	2.09	0.45
1:Ah:164:TRP:CE2	1:Ah:187:LEU:HD13	2.51	0.45
1:Ai:110:GLY:N	1:Al:242:ASN:HD22	2.10	0.45
1:Al:174:TRP:CE2	1:Al:179:LYS:HB3	2.51	0.45
1:Ao:209:LEU:HA	1:Ao:209:LEU:HD22	1.74	0.45
2:BR:228:ASN:CG	3:CL:140:ALA:HB2	2.40	0.45
2:BU:83:LEU:HA	2:BU:84:PRO:HA	1.60	0.45
2:BV:83:LEU:HA	2:BV:84:PRO:HA	1.60	0.45
2:Bp:85:SER:HB2	2:Bp:190:ASN:ND2	2.31	0.45
3:CC:36:VAL:HA	3:CC:37:PRO:HD3	1.64	0.45
3:CC:84:GLU:H	3:CC:84:GLU:CD	2.23	0.45
3:CD:84:GLU:H	3:CD:84:GLU:CD	2.23	0.45
3:CE:127:PRO:HD3	3:CE:180:SER:C	2.42	0.45
3:CL:110:PHE:HE2	3:CL:116:THR:HG22	1.80	0.45
3:CQ:110:PHE:HE2	3:CQ:116:THR:HG22	1.80	0.45
3:CQ:150:LEU:HD12	3:CQ:150:LEU:HA	1.79	0.45
3:CT:61:TYR:HB3	3:CT:205:LEU:HD23	1.98	0.45
3:CT:127:PRO:HD3	3:CT:180:SER:C	2.42	0.45
3:CV:84:GLU:CD	3:CV:84:GLU:H	2.23	0.45
3:CY:61:TYR:HB3	3:CY:205:LEU:HD23	1.98	0.45
3:C0:61:TYR:HB3	3:C0:205:LEU:HD23	1.98	0.45
3:C1:127:PRO:HD3	3:C1:180:SER:C	2.41	0.45
3:Cd:36:VAL:HA	3:Cd:37:PRO:HD3	1.64	0.45
3:Cp:84:GLU:H	3:Cp:84:GLU:CD	2.23	0.45
3:Cs:110:PHE:HE2	3:Cs:116:THR:HG22	1.80	0.45
3:Ct:43:PHE:CE2	1:DF:74:THR:HG21	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cu:61:TYR:HB3	3:Cu:205:LEU:HD23	1.97	0.45
3:Cw:42:ASN:ND2	3:Cw:44:ILE:H	2.12	0.45
1:DC:128:VAL:HG23	1:DE:91:THR:HG22	1.98	0.45
1:DE:174:TRP:CE2	1:DE:179:LYS:HB3	2.51	0.45
1:DG:174:TRP:CE2	1:DG:179:LYS:HB3	2.51	0.45
1:DH:174:TRP:CE2	1:DH:179:LYS:HB3	2.51	0.45
1:DI:35:ASP:OD1	1:DI:212:ARG:HD3	2.16	0.45
1:DK:181:LYS:O	1:DK:182:ALA:CB	2.62	0.45
1:AA:87:GLN:HE21	1:AA:210:ARG:NH2	2.12	0.45
1:AF:35:ASP:OD1	1:AF:212:ARG:HD3	2.16	0.45
1:AI:174:TRP:CE2	1:AI:179:LYS:HB3	2.51	0.45
1:AJ:35:ASP:OD1	1:AJ:212:ARG:HD3	2.16	0.45
1:AR:209:LEU:HA	1:AR:209:LEU:HD22	1.74	0.45
1:AV:128:VAL:HG23	1:AX:91:THR:HG22	1.98	0.45
1:AW:164:TRP:CE2	1:AW:187:LEU:HD13	2.51	0.45
1:AY:164:TRP:CE2	1:AY:187:LEU:HD13	2.51	0.45
1:AZ:74:THR:HG21	3:C0:43:PHE:CE2	2.45	0.45
1:A3:87:GLN:HE21	1:A3:210:ARG:NH2	2.12	0.45
1:A4:74:THR:HG21	3:C5:43:PHE:CE2	2.45	0.45
1:A5:87:GLN:HE21	1:A5:210:ARG:NH2	2.12	0.45
1:A6:164:TRP:CE2	1:A6:187:LEU:HD13	2.51	0.45
1:A9:74:THR:HG21	3:DA:43:PHE:CE1	2.45	0.45
1:A9:174:TRP:CE2	1:A9:179:LYS:HB3	2.51	0.45
1:Ab:174:TRP:CE2	1:Ab:179:LYS:HB3	2.51	0.45
1:Ab:207:CYS:O	1:Ab:208:TYR:CB	2.57	0.45
1:Ad:174:TRP:CE2	1:Ad:179:LYS:HB3	2.51	0.45
1:Al:115:THR:OG1	1:Al:133:LEU:HB2	2.16	0.45
1:Al:225:PRO:HA	1:Al:226:PRO:HD3	1.78	0.45
1:An:146:ILE:O	1:An:147:ALA:CB	2.62	0.45
2:BA:137:GLU:O	2:BA:139:ALA:N	2.41	0.45
2:BD:85:SER:HB2	2:BD:190:ASN:ND2	2.31	0.45
2:BT:85:SER:HB2	2:BT:190:ASN:ND2	2.32	0.45
2:BZ:157:VAL:CG2	3:CZ:50:THR:HG21	2.42	0.45
2:B0:85:SER:HB2	2:B0:190:ASN:ND2	2.32	0.45
2:B1:157:VAL:CG2	3:C1:50:THR:HG21	2.42	0.45
2:Bd:224:GLY:HA2	2:Bd:225:PRO:HD2	1.81	0.45
2:Be:85:SER:HB2	2:Be:190:ASN:ND2	2.32	0.45
2:Bi:85:SER:HB2	2:Bi:190:ASN:ND2	2.31	0.45
2:Bv:83:LEU:HA	2:Bv:84:PRO:HA	1.60	0.45
3:CB:110:PHE:HE2	3:CB:116:THR:HG22	1.80	0.45
3:CB:127:PRO:HD3	3:CB:180:SER:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:36:VAL:HA	3:CJ:37:PRO:HD3	1.64	0.45
3:CL:61:TYR:HB3	3:CL:205:LEU:HD23	1.97	0.45
3:CM:127:PRO:HD3	3:CM:180:SER:C	2.42	0.45
3:CN:127:PRO:HD3	3:CN:180:SER:C	2.41	0.45
3:CO:127:PRO:HD3	3:CO:180:SER:C	2.42	0.45
3:CQ:127:PRO:HD3	3:CQ:180:SER:C	2.42	0.45
3:CS:61:TYR:HB3	3:CS:205:LEU:HD23	1.98	0.45
3:CW:110:PHE:HE2	3:CW:116:THR:HG22	1.80	0.45
3:CX:127:PRO:HD3	3:CX:180:SER:C	2.42	0.45
3:Cc:150:LEU:HD12	3:Cc:150:LEU:HA	1.79	0.45
3:Cl:127:PRO:HD3	3:Cl:180:SER:C	2.41	0.45
3:Cn:127:PRO:HD3	3:Cn:180:SER:C	2.42	0.45
3:Cp:110:PHE:HE2	3:Cp:116:THR:HG22	1.80	0.45
3:Cq:84:GLU:CD	3:Cq:84:GLU:H	2.23	0.45
3:Cr:110:PHE:HE2	3:Cr:116:THR:HG22	1.80	0.45
3:Cs:127:PRO:HD3	3:Cs:180:SER:C	2.42	0.45
3:Cv:61:TYR:HB3	3:Cv:205:LEU:HD23	1.98	0.45
1:DJ:174:TRP:CE2	1:DJ:179:LYS:HB3	2.51	0.45
1:AA:91:THR:HG22	1:AB:128:VAL:HG23	1.98	0.45
1:AC:128:VAL:HG23	1:AE:91:THR:HG22	1.98	0.45
1:AE:164:TRP:CE2	1:AE:187:LEU:HD13	2.51	0.45
1:AO:91:THR:HG22	1:AP:128:VAL:HG23	1.98	0.45
1:AQ:191:HIS:HD2	1:AQ:193:GLY:N	2.08	0.45
1:AT:35:ASP:OD1	1:AT:212:ARG:HD3	2.16	0.45
1:AT:174:TRP:CE2	1:AT:179:LYS:HB3	2.51	0.45
1:AU:164:TRP:CE2	1:AU:187:LEU:HD13	2.51	0.45
1:A3:174:TRP:CE2	1:A3:179:LYS:HB3	2.51	0.45
1:A4:91:THR:HG22	1:A7:128:VAL:HG23	1.98	0.45
1:A5:91:THR:HG22	1:A6:128:VAL:HG23	1.98	0.45
1:A5:110:GLY:N	1:A7:242:ASN:HD22	2.10	0.45
1:A5:174:TRP:CE2	1:A5:179:LYS:HB3	2.51	0.45
1:Ad:91:THR:HG22	1:Ae:128:VAL:HG23	1.98	0.45
1:Ad:191:HIS:CD2	1:Ad:193:GLY:H	2.21	0.45
1:Aj:146:ILE:O	1:Aj:147:ALA:CB	2.62	0.45
1:An:128:VAL:HG23	1:DD:91:THR:HG22	1.98	0.45
2:BJ:157:VAL:CG2	3:CJ:50:THR:HG21	2.42	0.45
3:CM:61:TYR:HB3	3:CM:205:LEU:HD23	1.98	0.45
3:CY:127:PRO:HD3	3:CY:180:SER:C	2.42	0.45
3:C1:110:PHE:HE2	3:C1:116:THR:HG22	1.80	0.45
3:C6:110:PHE:HE2	3:C6:116:THR:HG22	1.80	0.45
3:C8:36:VAL:HA	3:C8:37:PRO:HD3	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:110:PHE:HE2	3:C9:116:THR:HG22	1.80	0.45
3:C9:127:PRO:HD3	3:C9:180:SER:C	2.41	0.45
3:Ch:127:PRO:HD3	3:Ch:180:SER:C	2.41	0.45
3:Ci:127:PRO:HD3	3:Ci:180:SER:C	2.42	0.45
3:Cm:127:PRO:HD3	3:Cm:180:SER:C	2.41	0.45
3:Ct:61:TYR:HB3	3:Ct:205:LEU:HD23	1.98	0.45
3:Cu:127:PRO:HD3	3:Cu:180:SER:C	2.42	0.45
3:Cx:61:TYR:HB3	3:Cx:205:LEU:HD23	1.98	0.45
3:DB:36:VAL:HA	3:DB:37:PRO:HD3	1.64	0.45
1:DK:174:TRP:CE2	1:DK:179:LYS:HB3	2.51	0.45
1:AC:91:THR:HG22	1:AD:128:VAL:HG23	1.98	0.45
1:AD:164:TRP:CE2	1:AD:187:LEU:HD13	2.51	0.45
1:AR:207:CYS:O	1:AR:208:TYR:CB	2.57	0.45
1:A2:74:THR:HG21	3:C3:43:PHE:CE2	2.45	0.45
1:A4:207:CYS:O	1:A4:208:TYR:CB	2.57	0.45
1:A8:128:VAL:HG23	1:Ab:91:THR:HG22	1.98	0.45
1:Aa:174:TRP:CE2	1:Aa:179:LYS:HB3	2.51	0.45
1:Ad:164:TRP:CE2	1:Ad:187:LEU:HD13	2.51	0.45
1:Ae:91:THR:HG22	1:Ah:128:VAL:HG23	1.98	0.45
1:An:91:THR:HG22	1:Ao:128:VAL:HG23	1.98	0.45
1:An:225:PRO:HA	1:An:226:PRO:HD3	1.78	0.45
2:BE:83:LEU:HA	2:BE:84:PRO:HA	1.60	0.45
2:B0:118:PHE:CD1	2:Bl:118:PHE:HE2	1.97	0.45
2:Bc:137:GLU:O	2:Bc:139:ALA:N	2.42	0.45
2:Bs:157:VAL:CG2	3:Ct:50:THR:HG21	2.42	0.45
3:Cl:61:TYR:HB3	3:Cl:205:LEU:HD23	1.98	0.45
3:CP:84:GLU:CD	3:CP:84:GLU:H	2.23	0.45
3:C3:110:PHE:HE2	3:C3:116:THR:HG22	1.80	0.45
3:C6:127:PRO:HD3	3:C6:180:SER:C	2.41	0.45
3:C8:150:LEU:HD12	3:C8:150:LEU:HA	1.79	0.45
3:Cd:110:PHE:HE2	3:Cd:116:THR:HG22	1.80	0.45
3:Ci:61:TYR:HB3	3:Ci:205:LEU:HD23	1.98	0.45
3:Cr:61:TYR:HB3	3:Cr:205:LEU:HD23	1.97	0.45
3:Cr:84:GLU:CD	3:Cr:84:GLU:H	2.23	0.45
1:DF:164:TRP:CE2	1:DF:187:LEU:HD13	2.51	0.45
1:DG:87:GLN:HE21	1:DG:210:ARG:NH2	2.12	0.45
1:DH:72:LEU:HD23	1:DH:72:LEU:HA	1.82	0.45
1:DK:72:LEU:HD23	1:DK:72:LEU:HA	1.82	0.45
1:AC:174:TRP:CE2	1:AC:179:LYS:HB3	2.51	0.45
1:AD:115:THR:OG1	1:AD:133:LEU:HB2	2.15	0.45
1:AF:128:VAL:HG23	1:AI:91:THR:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:128:VAL:HG23	1:DK:91:THR:HG22	1.98	0.45
1:AL:174:TRP:CE2	1:AL:179:LYS:HB3	2.51	0.45
1:AQ:74:THR:HG21	3:CR:43:PHE:CE1	2.45	0.45
1:AV:174:TRP:CE2	1:AV:179:LYS:HB3	2.51	0.45
1:AZ:174:TRP:CE2	1:AZ:179:LYS:HB3	2.51	0.45
1:AZ:209:LEU:HA	1:AZ:209:LEU:HD22	1.74	0.45
1:Ag:207:CYS:O	1:Ag:208:TYR:CB	2.57	0.45
1:Ao:242:ASN:HD22	1:DE:110:GLY:N	2.10	0.45
2:BB:85:SER:HB2	2:BB:190:ASN:ND2	2.31	0.45
2:BH:137:GLU:C	2:BH:139:ALA:H	2.22	0.45
2:BX:157:VAL:CG2	3:CX:50:THR:HG21	2.42	0.45
2:B1:85:SER:HB2	2:B1:190:ASN:ND2	2.31	0.45
2:Bt:157:VAL:CG2	3:Cu:50:THR:HG21	2.42	0.45
3:CJ:84:GLU:CD	3:CJ:84:GLU:H	2.23	0.45
3:CL:84:GLU:H	3:CL:84:GLU:CD	2.23	0.45
3:CM:110:PHE:HE2	3:CM:116:THR:HG22	1.80	0.45
3:CU:127:PRO:HD3	3:CU:180:SER:C	2.42	0.45
3:C7:84:GLU:CD	3:C7:84:GLU:H	2.23	0.45
3:Cd:84:GLU:CD	3:Cd:84:GLU:H	2.23	0.45
3:Cg:127:PRO:HD3	3:Cg:180:SER:C	2.41	0.45
3:Ck:127:PRO:HD3	3:Ck:180:SER:C	2.41	0.45
3:Co:61:TYR:HB3	3:Co:205:LEU:HD23	1.98	0.45
3:Cr:44:ILE:HD12	3:Cr:44:ILE:HA	1.87	0.45
3:Cr:127:PRO:HD3	3:Cr:180:SER:C	2.41	0.45
1:DI:209:LEU:HD22	1:DI:209:LEU:HA	1.74	0.45
1:AC:164:TRP:CE2	1:AC:187:LEU:HD13	2.51	0.45
1:AD:67:ALA:O	1:AD:70:ARG:O	2.35	0.45
1:AH:1:VAL:C	1:AH:3:ASN:H	2.24	0.45
1:AI:164:TRP:CE2	1:AI:187:LEU:HD13	2.51	0.45
1:AJ:128:VAL:HG23	1:AM:91:THR:HG22	1.98	0.45
1:AM:164:TRP:CE2	1:AM:187:LEU:HD13	2.51	0.45
1:AN:79:PHE:CD1	1:AN:79:PHE:C	2.95	0.45
1:AO:87:GLN:HE21	1:AO:210:ARG:NH2	2.12	0.45
1:AT:128:VAL:HG23	1:AW:91:THR:HG22	1.98	0.45
1:AV:242:ASN:HD22	1:AW:110:GLY:N	2.09	0.45
1:AX:67:ALA:O	1:AX:70:ARG:O	2.35	0.45
1:AY:174:TRP:CE2	1:AY:179:LYS:HB3	2.51	0.45
1:A0:35:ASP:OD1	1:A0:212:ARG:HD3	2.16	0.45
1:A0:207:CYS:O	1:A0:208:TYR:CB	2.57	0.45
1:A2:87:GLN:HE21	1:A2:210:ARG:NH2	2.12	0.45
1:A3:35:ASP:OD1	1:A3:212:ARG:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:164:TRP:CE2	1:A4:187:LEU:HD13	2.51	0.45
1:A8:74:THR:HG21	3:C9:43:PHE:CE2	2.45	0.45
1:Aa:74:THR:HG21	3:DB:43:PHE:CE1	2.45	0.45
1:Ab:146:ILE:O	1:Ab:147:ALA:CB	2.62	0.45
1:Ac:225:PRO:HA	1:Ac:226:PRO:HD3	1.78	0.45
1:Af:128:VAL:HG23	1:Ah:91:THR:HG22	1.98	0.45
1:Ag:35:ASP:OD1	1:Ag:212:ARG:HD3	2.16	0.45
1:Ak:164:TRP:CE2	1:Ak:187:LEU:HD13	2.51	0.45
1:Ak:174:TRP:CE2	1:Ak:179:LYS:HB3	2.51	0.45
2:BL:85:SER:HB2	2:BL:190:ASN:ND2	2.32	0.45
2:BR:85:SER:HB2	2:BR:190:ASN:ND2	2.31	0.45
2:BO:85:SER:HB2	2:BO:190:ASN:ND2	2.31	0.45
2:B6:85:SER:HB2	2:B6:190:ASN:ND2	2.31	0.45
2:Bv:85:SER:HB2	2:Bv:190:ASN:ND2	2.31	0.45
3:CJ:150:LEU:HA	3:CJ:150:LEU:HD12	1.79	0.45
3:CO:150:LEU:HD12	3:CO:150:LEU:HA	1.79	0.45
3:CR:84:GLU:H	3:CR:84:GLU:CD	2.23	0.45
3:C5:61:TYR:HB3	3:C5:205:LEU:HD23	1.97	0.45
3:C7:127:PRO:HD3	3:C7:180:SER:C	2.41	0.45
3:Cf:110:PHE:HE2	3:Cf:116:THR:HG22	1.80	0.45
3:Cl:84:GLU:CD	3:Cl:84:GLU:H	2.23	0.45
3:Co:110:PHE:HE2	3:Co:116:THR:HG22	1.80	0.45
3:Cs:84:GLU:H	3:Cs:84:GLU:CD	2.23	0.45
1:DD:67:ALA:O	1:DD:70:ARG:O	2.35	0.45
1:DH:209:LEU:HD22	1:DH:209:LEU:HA	1.74	0.45
1:DK:191:HIS:HD2	1:DK:193:GLY:N	2.09	0.45
1:AA:110:GLY:N	1:AD:242:ASN:HD22	2.10	0.45
1:AB:91:THR:HG22	1:AE:128:VAL:HG23	1.98	0.45
1:AJ:1:VAL:C	1:AJ:3:ASN:H	2.24	0.45
1:AJ:67:ALA:O	1:AJ:70:ARG:O	2.35	0.45
1:AO:67:ALA:O	1:AO:70:ARG:O	2.35	0.45
1:AP:1:VAL:C	1:AP:3:ASN:H	2.24	0.45
1:A2:225:PRO:HA	1:A2:226:PRO:HD3	1.78	0.45
1:A3:242:ASN:HD22	1:A4:110:GLY:N	2.10	0.45
1:A5:225:PRO:HA	1:A5:226:PRO:HD3	1.78	0.45
1:A8:164:TRP:CE2	1:A8:187:LEU:HD13	2.51	0.45
1:Ae:74:THR:HG21	3:Cf:43:PHE:CE2	2.45	0.45
1:Ah:207:CYS:O	1:Ah:208:TYR:CB	2.57	0.45
1:Ai:35:ASP:OD1	1:Ai:212:ARG:HD3	2.16	0.45
1:Aj:67:ALA:O	1:Aj:70:ARG:O	2.35	0.45
1:Aj:207:CYS:O	1:Aj:208:TYR:CB	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:85:SER:HB2	2:BG:190:ASN:ND2	2.32	0.45
2:BH:85:SER:HB2	2:BH:190:ASN:ND2	2.31	0.45
2:BL:137:GLU:O	2:BL:139:ALA:N	2.41	0.45
2:BT:83:LEU:HA	2:BT:84:PRO:HA	1.60	0.45
3:CA:61:TYR:HB3	3:CA:205:LEU:HD23	1.98	0.45
3:CK:84:GLU:CD	3:CK:84:GLU:H	2.23	0.45
3:CP:61:TYR:HB3	3:CP:205:LEU:HD23	1.98	0.45
3:CR:61:TYR:HB3	3:CR:205:LEU:HD23	1.98	0.45
3:C2:61:TYR:HB3	3:C2:205:LEU:HD23	1.98	0.45
3:C4:127:PRO:HD3	3:C4:180:SER:C	2.42	0.45
3:C9:36:VAL:HA	3:C9:37:PRO:HD3	1.64	0.45
3:Cc:127:PRO:HD3	3:Cc:180:SER:C	2.41	0.45
3:Cd:61:TYR:HB3	3:Cd:205:LEU:HD23	1.98	0.45
3:Cj:127:PRO:HD3	3:Cj:180:SER:C	2.42	0.45
3:Co:127:PRO:HD3	3:Co:180:SER:C	2.41	0.45
3:Cs:43:PHE:CE2	1:DE:74:THR:HG21	2.45	0.45
3:Cu:44:ILE:HD12	3:Cu:44:ILE:HA	1.88	0.45
3:DA:127:PRO:HD3	3:DA:180:SER:C	2.42	0.45
1:DC:91:THR:HG22	1:DD:128:VAL:HG23	1.98	0.45
1:DC:110:GLY:N	1:DE:242:ASN:HD22	2.10	0.45
1:DD:207:CYS:O	1:DD:208:TYR:CB	2.57	0.45
1:DH:1:VAL:C	1:DH:3:ASN:H	2.24	0.45
1:DJ:164:TRP:CE2	1:DJ:187:LEU:HD13	2.51	0.45
1:AA:74:THR:HG21	3:CA:43:PHE:CE1	2.45	0.44
1:AA:174:TRP:CE2	1:AA:179:LYS:HB3	2.51	0.44
1:AJ:246:GLN:CD	1:AJ:246:GLN:H	2.26	0.44
1:AK:74:THR:HG21	3:CL:43:PHE:CE1	2.45	0.44
1:AR:35:ASP:OD1	1:AR:212:ARG:HD3	2.16	0.44
1:A2:209:LEU:HD22	1:A2:209:LEU:HA	1.74	0.44
1:A4:87:GLN:HE21	1:A4:210:ARG:NH2	2.12	0.44
1:A5:242:ASN:HD22	1:A6:110:GLY:N	2.10	0.44
1:Aa:1:VAL:C	1:Aa:3:ASN:H	2.24	0.44
1:Ac:79:PHE:CD1	1:Ac:79:PHE:C	2.95	0.44
1:Ae:1:VAL:C	1:Ae:3:ASN:H	2.24	0.44
1:Af:91:THR:HG22	1:Ag:128:VAL:HG23	1.98	0.44
2:BC:85:SER:HB2	2:BC:190:ASN:ND2	2.31	0.44
2:BN:85:SER:HB2	2:BN:190:ASN:ND2	2.31	0.44
2:BN:157:VAL:CG2	3:CN:50:THR:HG21	2.43	0.44
3:CG:127:PRO:HD3	3:CG:180:SER:C	2.42	0.44
3:CJ:43:PHE:CE1	1:DK:74:THR:HG21	2.45	0.44
3:CO:61:TYR:HB3	3:CO:205:LEU:HD23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:44:ILE:HD12	3:CU:44:ILE:HA	1.87	0.44
3:CV:127:PRO:HD3	3:CV:180:SER:C	2.41	0.44
3:CW:127:PRO:HD3	3:CW:180:SER:C	2.41	0.44
3:CZ:127:PRO:HD3	3:CZ:180:SER:C	2.42	0.44
3:C3:127:PRO:HD3	3:C3:180:SER:C	2.42	0.44
3:C5:127:PRO:HD3	3:C5:180:SER:C	2.42	0.44
3:Cf:150:LEU:HD12	3:Cf:150:LEU:HA	1.79	0.44
3:Cv:43:PHE:CE2	1:DH:74:THR:HG21	2.45	0.44
3:Cw:84:GLU:CD	3:Cw:84:GLU:H	2.23	0.44
1:AA:35:ASP:OD1	1:AA:212:ARG:HD3	2.16	0.44
1:AA:67:ALA:O	1:AA:70:ARG:O	2.35	0.44
1:AB:246:GLN:CD	1:AB:246:GLN:H	2.25	0.44
1:AC:67:ALA:O	1:AC:70:ARG:O	2.35	0.44
1:AC:79:PHE:C	1:AC:79:PHE:CD1	2.95	0.44
1:AJ:79:PHE:CD1	1:AJ:79:PHE:C	2.95	0.44
1:AJ:91:THR:HG22	1:AK:128:VAL:HG23	1.98	0.44
1:AR:225:PRO:HA	1:AR:226:PRO:HD3	1.78	0.44
1:AT:209:LEU:HD22	1:AT:209:LEU:HA	1.74	0.44
1:AV:87:GLN:HE21	1:AV:210:ARG:NH2	2.12	0.44
1:AW:79:PHE:CD1	1:AW:79:PHE:C	2.95	0.44
1:AZ:246:GLN:CD	1:AZ:246:GLN:H	2.26	0.44
1:A1:67:ALA:O	1:A1:70:ARG:O	2.35	0.44
1:A1:174:TRP:CE2	1:A1:179:LYS:HB3	2.51	0.44
1:A2:1:VAL:C	1:A2:3:ASN:H	2.24	0.44
1:A3:128:VAL:HG23	1:A6:91:THR:HG22	1.98	0.44
1:A4:67:ALA:O	1:A4:70:ARG:O	2.35	0.44
1:A4:191:HIS:HD2	1:A4:193:GLY:N	2.08	0.44
1:Aa:128:VAL:HG23	1:Ac:91:THR:HG22	1.98	0.44
1:Ac:174:TRP:CE2	1:Ac:179:LYS:HB3	2.51	0.44
1:Af:74:THR:HG21	3:Cg:43:PHE:CE2	2.45	0.44
1:Ag:67:ALA:O	1:Ag:70:ARG:O	2.35	0.44
1:Ai:91:THR:HG22	1:Aj:128:VAL:HG23	1.98	0.44
1:Am:246:GLN:CD	1:Am:246:GLN:H	2.26	0.44
1:An:246:GLN:H	1:An:246:GLN:CD	2.26	0.44
2:BQ:85:SER:HB2	2:BQ:190:ASN:ND2	2.32	0.44
2:Bd:124:LEU:HD23	2:Bd:198:ILE:HA	2.00	0.44
2:Bj:85:SER:HB2	2:Bj:190:ASN:ND2	2.31	0.44
2:Bk:156:SER:HB2	3:Cl:51:TYR:O	2.18	0.44
3:CD:150:LEU:HD12	3:CD:150:LEU:HA	1.79	0.44
3:CK:127:PRO:HD3	3:CK:180:SER:C	2.41	0.44
3:CY:36:VAL:HA	3:CY:37:PRO:HD3	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cw:43:PHE:CE2	1:DI:74:THR:HG21	2.45	0.44
1:DC:246:GLN:CD	1:DC:246:GLN:H	2.26	0.44
1:DG:67:ALA:O	1:DG:70:ARG:O	2.35	0.44
1:DH:225:PRO:HA	1:DH:226:PRO:HD3	1.78	0.44
1:DH:246:GLN:H	1:DH:246:GLN:CD	2.26	0.44
1:DK:79:PHE:CD1	1:DK:79:PHE:C	2.95	0.44
1:AA:128:VAL:HG23	1:AD:91:THR:HG22	1.98	0.44
1:AD:246:GLN:CD	1:AD:246:GLN:H	2.26	0.44
1:AH:79:PHE:CD1	1:AH:79:PHE:C	2.96	0.44
1:AI:67:ALA:O	1:AI:70:ARG:O	2.35	0.44
1:AN:246:GLN:CD	1:AN:246:GLN:H	2.26	0.44
1:AO:219:TYR:CD2	3:CP:36:VAL:HG22	2.53	0.44
1:AS:79:PHE:CD1	1:AS:79:PHE:C	2.95	0.44
1:AX:219:TYR:CD2	3:CY:36:VAL:HG22	2.53	0.44
1:AZ:91:THR:HG22	1:A2:128:VAL:HG23	1.98	0.44
1:A0:128:VAL:HG23	1:A2:91:THR:HG22	1.98	0.44
1:A1:87:GLN:HE21	1:A1:210:ARG:NH2	2.12	0.44
1:A4:246:GLN:H	1:A4:246:GLN:CD	2.26	0.44
1:Ae:79:PHE:C	1:Ae:79:PHE:CD1	2.96	0.44
1:Af:35:ASP:OD1	1:Af:212:ARG:HD3	2.16	0.44
1:Ag:87:GLN:HE21	1:Ag:210:ARG:NH2	2.12	0.44
1:Ah:67:ALA:O	1:Ah:70:ARG:O	2.35	0.44
1:Ai:225:PRO:HA	1:Ai:226:PRO:HD3	1.78	0.44
2:BG:137:GLU:O	2:BG:139:ALA:N	2.41	0.44
2:BH:156:SER:HB2	3:CH:51:TYR:O	2.18	0.44
2:BH:157:VAL:CG2	3:CH:50:THR:HG21	2.43	0.44
2:BJ:124:LEU:HD23	2:BJ:198:ILE:HA	2.00	0.44
2:BZ:85:SER:HB2	2:BZ:190:ASN:ND2	2.31	0.44
2:BZ:156:SER:HB2	3:CZ:51:TYR:O	2.18	0.44
2:B1:156:SER:HB2	3:C1:51:TYR:O	2.18	0.44
2:B2:124:LEU:HD23	2:B2:198:ILE:HA	2.00	0.44
2:B4:124:LEU:HD23	2:B4:198:ILE:HA	2.00	0.44
2:B5:157:VAL:CG2	3:C6:50:THR:HG21	2.43	0.44
2:B6:156:SER:HB2	3:C7:51:TYR:O	2.18	0.44
2:B9:85:SER:HB2	2:B9:190:ASN:ND2	2.31	0.44
2:Bc:124:LEU:HD23	2:Bc:198:ILE:HA	2.00	0.44
2:Bv:156:SER:HB2	3:Cw:51:TYR:O	2.18	0.44
3:CA:127:PRO:HD3	3:CA:180:SER:C	2.42	0.44
3:C4:150:LEU:HD12	3:C4:150:LEU:HA	1.79	0.44
3:Cf:127:PRO:HD3	3:Cf:180:SER:C	2.42	0.44
1:DC:67:ALA:O	1:DC:70:ARG:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:79:PHE:CD1	1:DD:79:PHE:C	2.96	0.44
1:DF:242:ASN:HD22	1:DG:110:GLY:N	2.10	0.44
1:AC:246:GLN:CD	1:AC:246:GLN:H	2.26	0.44
1:AE:79:PHE:CD1	1:AE:79:PHE:C	2.95	0.44
1:AF:91:THR:HG22	1:AG:128:VAL:HG23	1.98	0.44
1:AF:191:HIS:HD2	1:AF:193:GLY:N	2.08	0.44
1:AG:91:THR:HG22	1:DK:128:VAL:HG23	1.98	0.44
1:AK:246:GLN:H	1:AK:246:GLN:CD	2.25	0.44
1:AQ:79:PHE:CD1	1:AQ:79:PHE:C	2.96	0.44
1:AQ:91:THR:HG22	1:AR:128:VAL:HG23	1.98	0.44
1:AR:219:TYR:CD2	3:CS:36:VAL:HG22	2.53	0.44
1:AT:67:ALA:O	1:AT:70:ARG:O	2.35	0.44
1:AU:87:GLN:HE21	1:AU:210:ARG:NH2	2.11	0.44
1:AU:209:LEU:HD22	1:AU:209:LEU:HA	1.74	0.44
1:A0:67:ALA:O	1:A0:70:ARG:O	2.35	0.44
1:A8:91:THR:HG22	1:A9:128:VAL:HG23	1.98	0.44
1:Aa:79:PHE:CD1	1:Aa:79:PHE:C	2.96	0.44
1:Ad:1:VAL:C	1:Ad:3:ASN:H	2.24	0.44
1:Ad:128:VAL:HG23	1:Ag:91:THR:HG22	1.98	0.44
1:Af:219:TYR:CD2	3:Cg:36:VAL:HG22	2.53	0.44
1:Af:246:GLN:H	1:Af:246:GLN:CD	2.26	0.44
1:Ak:209:LEU:HA	1:Ak:209:LEU:HD22	1.74	0.44
1:Al:35:ASP:OD1	1:Al:212:ARG:HD3	2.16	0.44
1:An:67:ALA:O	1:An:70:ARG:O	2.35	0.44
1:Ao:79:PHE:CD1	1:Ao:79:PHE:C	2.96	0.44
1:Ao:91:THR:HG22	1:DE:128:VAL:HG23	1.98	0.44
2:BD:124:LEU:HD23	2:BD:198:ILE:HA	2.00	0.44
2:BH:124:LEU:HD23	2:BH:198:ILE:HA	2.00	0.44
2:BS:124:LEU:HD23	2:BS:198:ILE:HA	2.00	0.44
2:BX:124:LEU:HD23	2:BX:198:ILE:HA	2.00	0.44
2:BZ:124:LEU:HD23	2:BZ:198:ILE:HA	2.00	0.44
2:B7:156:SER:HB2	3:C8:51:TYR:O	2.18	0.44
2:B8:156:SER:HB2	3:C9:51:TYR:O	2.18	0.44
2:Bc:156:SER:HB2	3:Cd:51:TYR:O	2.18	0.44
2:Bi:124:LEU:HD23	2:Bi:198:ILE:HA	2.00	0.44
2:Bk:124:LEU:HD23	2:Bk:198:ILE:HA	2.00	0.44
2:Bn:124:LEU:HD23	2:Bn:198:ILE:HA	2.00	0.44
2:Bp:124:LEU:HD23	2:Bp:198:ILE:HA	2.00	0.44
2:Bq:124:LEU:HD23	2:Bq:198:ILE:HA	2.00	0.44
2:Bv:137:GLU:O	2:Bv:139:ALA:N	2.41	0.44
2:Bw:156:SER:HB2	3:Cx:51:TYR:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bw:157:VAL:CG2	3:Cx:50:THR:HG21	2.42	0.44
2:Bx:156:SER:HB2	3:C5:51:TYR:O	2.18	0.44
3:CC:150:LEU:HD12	3:CC:150:LEU:HA	1.79	0.44
3:Ce:36:VAL:HA	3:Ce:37:PRO:HD3	1.64	0.44
1:DF:207:CYS:O	1:DF:208:TYR:CB	2.57	0.44
1:DJ:79:PHE:CD1	1:DJ:79:PHE:C	2.95	0.44
1:AA:246:GLN:CD	1:AA:246:GLN:H	2.26	0.44
1:AD:209:LEU:HA	1:AD:209:LEU:HD22	1.74	0.44
1:AJ:110:GLY:N	1:AM:242:ASN:HD22	2.10	0.44
1:AQ:128:VAL:HG23	1:AS:91:THR:HG22	1.98	0.44
1:AQ:219:TYR:CD2	3:CR:36:VAL:HG22	2.53	0.44
1:AS:191:HIS:HD2	1:AS:193:GLY:N	2.08	0.44
1:AS:219:TYR:CD2	3:CT:36:VAL:HG22	2.53	0.44
1:AT:79:PHE:CD1	1:AT:79:PHE:C	2.95	0.44
1:AV:219:TYR:CD2	3:CW:36:VAL:HG22	2.53	0.44
1:AX:79:PHE:CD1	1:AX:79:PHE:C	2.95	0.44
1:A4:79:PHE:CD1	1:A4:79:PHE:C	2.96	0.44
1:A9:79:PHE:CD1	1:A9:79:PHE:C	2.95	0.44
1:Aa:219:TYR:CD2	3:DB:36:VAL:HG22	2.53	0.44
1:Ai:128:VAL:HG23	1:Al:91:THR:HG22	1.98	0.44
1:Al:219:TYR:CD2	3:Cm:36:VAL:HG22	2.53	0.44
1:Am:67:ALA:O	1:Am:70:ARG:O	2.35	0.44
2:BG:124:LEU:HD23	2:BG:198:ILE:HA	2.00	0.44
2:BG:156:SER:HB2	3:CG:51:TYR:O	2.18	0.44
2:BI:83:LEU:HA	2:BI:84:PRO:HA	1.60	0.44
2:BK:137:GLU:O	2:BK:139:ALA:N	2.41	0.44
2:BR:124:LEU:HD23	2:BR:198:ILE:HA	2.00	0.44
2:BS:156:SER:HB2	3:CQ:51:TYR:O	2.18	0.44
2:BU:124:LEU:HD23	2:BU:198:ILE:HA	2.00	0.44
2:BX:85:SER:HB2	2:BX:190:ASN:ND2	2.31	0.44
2:B3:156:SER:HB2	3:C3:51:TYR:O	2.18	0.44
2:B5:224:GLY:HA2	2:B5:225:PRO:HD2	1.81	0.44
2:Ba:156:SER:HB2	3:DB:51:TYR:O	2.18	0.44
2:Be:124:LEU:HD23	2:Be:198:ILE:HA	2.00	0.44
2:Bh:85:SER:HB2	2:Bh:190:ASN:ND2	2.31	0.44
2:Bm:124:LEU:HD23	2:Bm:198:ILE:HA	2.00	0.44
2:Bm:156:SER:HB2	3:Cn:51:TYR:O	2.18	0.44
2:Bo:84:PRO:CD	2:Bo:85:SER:H	2.31	0.44
2:Bx:124:LEU:HD23	2:Bx:198:ILE:HA	2.00	0.44
3:CF:127:PRO:HD3	3:CF:180:SER:C	2.42	0.44
3:CH:127:PRO:HD3	3:CH:180:SER:C	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:36:VAL:HA	3:CK:37:PRO:HD3	1.64	0.44
3:CL:127:PRO:HD3	3:CL:180:SER:C	2.42	0.44
3:CV:150:LEU:HD12	3:CV:150:LEU:HA	1.79	0.44
3:CZ:36:VAL:HA	3:CZ:37:PRO:HD3	1.64	0.44
3:Cd:127:PRO:HD3	3:Cd:180:SER:C	2.42	0.44
3:Cg:36:VAL:HA	3:Cg:37:PRO:HD3	1.64	0.44
3:Cq:36:VAL:HG22	1:DC:219:TYR:CD2	2.53	0.44
3:Cr:36:VAL:HA	3:Cr:37:PRO:HD3	1.64	0.44
1:DC:79:PHE:CD1	1:DC:79:PHE:C	2.96	0.44
1:DD:246:GLN:H	1:DD:246:GLN:CD	2.26	0.44
1:DF:128:VAL:HG23	1:DI:91:THR:HG22	1.98	0.44
1:DG:79:PHE:CD1	1:DG:79:PHE:C	2.96	0.44
1:DK:67:ALA:O	1:DK:70:ARG:O	2.35	0.44
1:AA:79:PHE:CD1	1:AA:79:PHE:C	2.96	0.44
1:AB:209:LEU:HD22	1:AB:209:LEU:HA	1.74	0.44
1:AD:219:TYR:CD2	3:CD:36:VAL:HG22	2.53	0.44
1:AF:219:TYR:CD2	3:CF:36:VAL:HG22	2.53	0.44
1:AF:231:PRO:HG2	3:CF:83:ALA:CB	2.48	0.44
1:AI:246:GLN:CD	1:AI:246:GLN:H	2.26	0.44
1:AK:174:TRP:CE2	1:AK:179:LYS:HB3	2.51	0.44
1:AK:219:TYR:CD2	3:CL:36:VAL:HG22	2.53	0.44
1:AL:67:ALA:O	1:AL:70:ARG:O	2.35	0.44
1:AM:72:LEU:HD23	1:AM:72:LEU:HA	1.83	0.44
1:AT:246:GLN:CD	1:AT:246:GLN:H	2.25	0.44
1:AU:79:PHE:CD1	1:AU:79:PHE:C	2.96	0.44
1:AY:67:ALA:O	1:AY:70:ARG:O	2.35	0.44
1:AY:219:TYR:CD2	3:CZ:36:VAL:HG22	2.53	0.44
1:AZ:79:PHE:CD1	1:AZ:79:PHE:C	2.96	0.44
1:A0:209:LEU:HA	1:A0:209:LEU:HD22	1.74	0.44
1:A1:79:PHE:CD1	1:A1:79:PHE:C	2.96	0.44
1:A1:146:ILE:O	1:A1:147:ALA:CB	2.62	0.44
1:A1:246:GLN:H	1:A1:246:GLN:CD	2.26	0.44
1:A3:219:TYR:CD2	3:C4:36:VAL:HG22	2.53	0.44
1:A5:191:HIS:HD2	1:A5:193:GLY:N	2.08	0.44
1:A7:79:PHE:CD1	1:A7:79:PHE:C	2.95	0.44
1:Af:67:ALA:O	1:Af:70:ARG:O	2.35	0.44
1:Af:79:PHE:CD1	1:Af:79:PHE:C	2.96	0.44
1:Ag:219:TYR:CD2	3:Ch:36:VAL:HG22	2.53	0.44
1:Ai:26:VAL:HG11	3:Ck:28:LYS:HD3	2.00	0.44
1:Ak:67:ALA:O	1:Ak:70:ARG:O	2.35	0.44
1:Ak:74:THR:HG21	3:Cl:43:PHE:CE2	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:219:TYR:CD2	3:Cl:36:VAL:HG22	2.53	0.44
1:Am:79:PHE:CD1	1:Am:79:PHE:C	2.95	0.44
2:BC:124:LEU:HD23	2:BC:198:ILE:HA	2.00	0.44
2:BR:84:PRO:CD	2:BR:85:SER:H	2.31	0.44
2:BO:84:PRO:CD	2:BO:85:SER:H	2.31	0.44
2:BT:156:SER:HB2	3:CT:51:TYR:O	2.18	0.44
2:BU:224:GLY:HA2	2:BU:225:PRO:HD2	1.81	0.44
2:B0:124:LEU:HD23	2:B0:198:ILE:HA	2.00	0.44
2:B1:124:LEU:HD23	2:B1:198:ILE:HA	2.00	0.44
2:B1:224:GLY:HA2	2:B1:225:PRO:HD2	1.81	0.44
2:B2:83:LEU:HA	2:B2:84:PRO:HA	1.60	0.44
2:B2:84:PRO:CD	2:B2:85:SER:H	2.31	0.44
2:B3:83:LEU:HA	2:B3:84:PRO:HA	1.60	0.44
2:B9:156:SER:HB2	3:DA:51:TYR:O	2.18	0.44
2:Be:157:VAL:CG2	3:Cf:50:THR:HG21	2.43	0.44
2:Bk:85:SER:HB2	2:Bk:190:ASN:ND2	2.31	0.44
2:Bp:157:VAL:CG2	3:Cq:50:THR:HG21	2.42	0.44
2:Bt:85:SER:HB2	2:Bt:190:ASN:ND2	2.31	0.44
2:Bu:124:LEU:HD23	2:Bu:198:ILE:HA	2.00	0.44
2:Bw:124:LEU:HD23	2:Bw:198:ILE:HA	2.00	0.44
3:CV:44:ILE:HD12	3:CV:44:ILE:HA	1.87	0.44
3:C0:44:ILE:HD12	3:C0:44:ILE:HA	1.88	0.44
3:Ck:128:HIS:O	3:Ck:129:SER:C	2.61	0.44
1:DH:79:PHE:CD1	1:DH:79:PHE:C	2.96	0.44
1:DJ:67:ALA:O	1:DJ:70:ARG:O	2.35	0.44
1:AC:26:VAL:HG11	3:CD:28:LYS:HD3	2.00	0.44
1:AC:146:ILE:O	1:AC:147:ALA:CB	2.62	0.44
1:AF:67:ALA:O	1:AF:70:ARG:O	2.35	0.44
1:AF:246:GLN:CD	1:AF:246:GLN:H	2.26	0.44
1:AG:67:ALA:O	1:AG:70:ARG:O	2.35	0.44
1:AG:79:PHE:CD1	1:AG:79:PHE:C	2.96	0.44
1:AI:219:TYR:CD2	3:CI:36:VAL:HG22	2.53	0.44
1:AP:87:GLN:HE21	1:AP:210:ARG:NH2	2.12	0.44
1:AY:79:PHE:CD1	1:AY:79:PHE:C	2.96	0.44
1:AZ:219:TYR:CD2	3:C0:36:VAL:HG22	2.53	0.44
1:A0:79:PHE:CD1	1:A0:79:PHE:C	2.96	0.44
1:A0:191:HIS:HD2	1:A0:193:GLY:N	2.08	0.44
1:A3:26:VAL:HG11	3:C5:28:LYS:HD3	2.00	0.44
1:A3:74:THR:HG21	3:C4:43:PHE:CE2	2.45	0.44
1:A3:231:PRO:HG2	3:C4:83:ALA:CB	2.48	0.44
1:A8:67:ALA:O	1:A8:70:ARG:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:67:ALA:O	1:A9:70:ARG:O	2.35	0.44
1:A9:246:GLN:H	1:A9:246:GLN:CD	2.26	0.44
1:Ab:26:VAL:HG11	3:C9:28:LYS:HD3	2.00	0.44
1:Ab:67:ALA:O	1:Ab:70:ARG:O	2.35	0.44
1:Ac:67:ALA:O	1:Ac:70:ARG:O	2.35	0.44
1:Ag:74:THR:HG21	3:Ch:43:PHE:CE2	2.45	0.44
1:Al:191:HIS:HD2	1:Al:193:GLY:N	2.08	0.44
1:Al:209:LEU:HD22	1:Al:209:LEU:HA	1.74	0.44
1:Al:246:GLN:CD	1:Al:246:GLN:H	2.26	0.44
1:Ao:87:GLN:HE21	1:Ao:210:ARG:NH2	2.12	0.44
2:BA:124:LEU:HD23	2:BA:198:ILE:HA	2.00	0.44
2:BG:157:VAL:CG2	3:CG:50:THR:HG21	2.43	0.44
2:BH:84:PRO:CD	2:BH:85:SER:H	2.31	0.44
2:BK:157:VAL:CG2	3:CK:50:THR:HG21	2.43	0.44
2:BL:124:LEU:HD23	2:BL:198:ILE:HA	2.00	0.44
2:BO:124:LEU:HD23	2:BO:198:ILE:HA	2.00	0.44
2:BP:156:SER:HB2	3:CR:51:TYR:O	2.18	0.44
2:BQ:156:SER:HB2	3:CS:51:TYR:O	2.18	0.44
2:BY:85:SER:HB2	2:BY:190:ASN:ND2	2.31	0.44
2:BZ:83:LEU:HA	2:BZ:84:PRO:HA	1.60	0.44
2:BZ:84:PRO:CD	2:BZ:85:SER:H	2.31	0.44
2:B3:124:LEU:HD23	2:B3:198:ILE:HA	2.00	0.44
2:B4:84:PRO:CD	2:B4:85:SER:H	2.31	0.44
2:B5:124:LEU:HD23	2:B5:198:ILE:HA	2.00	0.44
2:B5:156:SER:HB2	3:C6:51:TYR:O	2.18	0.44
2:B9:84:PRO:CD	2:B9:85:SER:H	2.31	0.44
2:Ba:124:LEU:HD23	2:Ba:198:ILE:HA	2.00	0.44
2:Bd:156:SER:HB2	3:Ce:51:TYR:O	2.18	0.44
2:Bg:85:SER:HB2	2:Bg:190:ASN:ND2	2.32	0.44
2:Bl:156:SER:HB2	3:Cm:51:TYR:O	2.18	0.44
2:Br:85:SER:HB2	2:Br:190:ASN:ND2	2.31	0.44
2:Bs:124:LEU:HD23	2:Bs:198:ILE:HA	2.00	0.44
2:Bt:124:LEU:HD23	2:Bt:198:ILE:HA	2.00	0.44
2:Bt:156:SER:HB2	3:Cu:51:TYR:O	2.18	0.44
3:CI:36:VAL:HA	3:CI:37:PRO:HD3	1.64	0.44
3:CT:36:VAL:HA	3:CT:37:PRO:HD3	1.64	0.44
3:CZ:76:MET:O	3:CZ:76:MET:HG3	2.18	0.44
3:Cp:76:MET:O	3:Cp:76:MET:HG3	2.18	0.44
3:Cv:36:VAL:HG22	1:DH:219:TYR:CD2	2.53	0.44
3:Cw:28:LYS:HD3	1:DH:26:VAL:HG11	2.00	0.44
3:Cw:128:HIS:O	3:Cw:129:SER:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cx:36:VAL:HG22	1:DJ:219:TYR:CD2	2.53	0.44
3:Cx:76:MET:O	3:Cx:76:MET:HG3	2.18	0.44
1:DE:67:ALA:O	1:DE:70:ARG:O	2.35	0.44
1:DE:79:PHE:CD1	1:DE:79:PHE:C	2.96	0.44
1:DF:35:ASP:OD1	1:DF:212:ARG:HD3	2.16	0.44
1:AA:209:LEU:HD22	1:AA:209:LEU:HA	1.74	0.44
1:AC:74:THR:HG21	3:CC:43:PHE:CE1	2.45	0.44
1:AH:246:GLN:H	1:AH:246:GLN:CD	2.26	0.44
1:AJ:219:TYR:CD2	3:CK:36:VAL:HG22	2.53	0.44
1:AK:79:PHE:CD1	1:AK:79:PHE:C	2.96	0.44
1:AM:219:TYR:CD2	3:CN:36:VAL:HG22	2.53	0.44
1:AN:191:HIS:HD2	1:AN:193:GLY:N	2.08	0.44
1:AP:26:VAL:HG11	3:CT:28:LYS:HD3	2.00	0.44
1:AP:219:TYR:CD2	3:CQ:36:VAL:HG22	2.53	0.44
1:AS:67:ALA:O	1:AS:70:ARG:O	2.35	0.44
1:AU:219:TYR:CD2	3:CV:36:VAL:HG22	2.53	0.44
1:A2:79:PHE:CD1	1:A2:79:PHE:C	2.95	0.44
1:A6:246:GLN:CD	1:A6:246:GLN:H	2.26	0.44
1:Ac:219:TYR:CD2	3:Cd:36:VAL:HG22	2.53	0.44
1:Ad:67:ALA:O	1:Ad:70:ARG:O	2.35	0.44
1:Ad:74:THR:HG21	3:Ce:43:PHE:CE2	2.45	0.44
1:Ae:67:ALA:O	1:Ae:70:ARG:O	2.35	0.44
1:Ai:231:PRO:HG2	3:Cj:83:ALA:CB	2.48	0.44
1:Ak:231:PRO:HG2	3:Cl:83:ALA:CB	2.48	0.44
1:An:79:PHE:CD1	1:An:79:PHE:C	2.96	0.44
1:Ao:246:GLN:H	1:Ao:246:GLN:CD	2.26	0.44
2:BK:84:PRO:CD	2:BK:85:SER:H	2.31	0.44
2:BM:84:PRO:CD	2:BM:85:SER:H	2.31	0.44
2:BM:124:LEU:HD23	2:BM:198:ILE:HA	2.00	0.44
2:BN:156:SER:HB2	3:CN:51:TYR:O	2.18	0.44
2:BV:156:SER:HB2	3:CV:51:TYR:O	2.18	0.44
2:BV:157:VAL:CG2	3:CV:50:THR:HG21	2.43	0.44
2:BY:83:LEU:HA	2:BY:84:PRO:HA	1.60	0.44
2:B5:84:PRO:CD	2:B5:85:SER:H	2.31	0.44
2:Ba:84:PRO:CD	2:Ba:85:SER:H	2.31	0.44
2:Bf:84:PRO:CD	2:Bf:85:SER:H	2.31	0.44
2:Bf:156:SER:HB2	3:Cg:51:TYR:O	2.18	0.44
2:Bg:124:LEU:HD23	2:Bg:198:ILE:HA	2.00	0.44
2:Bg:137:GLU:O	2:Bg:139:ALA:N	2.41	0.44
2:Bj:83:LEU:HA	2:Bj:84:PRO:HA	1.60	0.44
2:Bj:156:SER:HB2	3:Ck:51:TYR:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bk:84:PRO:CD	2:Bk:85:SER:H	2.31	0.44
2:Bo:157:VAL:CG2	3:Cp:50:THR:HG21	2.43	0.44
2:Bq:85:SER:HB2	2:Bq:190:ASN:ND2	2.32	0.44
3:CE:150:LEU:HD12	3:CE:150:LEU:HA	1.79	0.44
3:CJ:127:PRO:HD3	3:CJ:180:SER:C	2.42	0.44
3:CJ:128:HIS:O	3:CJ:129:SER:C	2.61	0.44
3:CP:128:HIS:O	3:CP:129:SER:C	2.61	0.44
3:C3:128:HIS:O	3:C3:129:SER:C	2.61	0.44
3:Ce:76:MET:O	3:Ce:76:MET:HG3	2.18	0.44
3:Cl:76:MET:O	3:Cl:76:MET:HG3	2.18	0.44
3:Cv:28:LYS:HD3	1:DJ:26:VAL:HG11	2.00	0.44
3:DA:76:MET:O	3:DA:76:MET:HG3	2.18	0.44
1:DH:91:THR:HG22	1:DI:128:VAL:HG23	1.98	0.44
1:AD:26:VAL:HG11	3:CA:28:LYS:HD3	2.00	0.44
1:AH:219:TYR:CD2	3:CH:36:VAL:HG22	2.53	0.44
1:AK:26:VAL:HG11	3:CO:28:LYS:HD3	2.00	0.44
1:AK:67:ALA:O	1:AK:70:ARG:O	2.35	0.44
1:AM:67:ALA:O	1:AM:70:ARG:O	2.35	0.44
1:AM:212:ARG:NH2	3:CN:18:VAL:O	2.46	0.44
1:AN:219:TYR:CD2	3:CO:36:VAL:HG22	2.53	0.44
1:AO:79:PHE:CD1	1:AO:79:PHE:C	2.96	0.44
1:AQ:26:VAL:HG11	3:CS:28:LYS:HD3	2.00	0.44
1:AQ:67:ALA:O	1:AQ:70:ARG:O	2.35	0.44
1:AY:26:VAL:HG11	3:C0:28:LYS:HD3	2.00	0.44
1:A0:212:ARG:NH2	3:C1:18:VAL:O	2.46	0.44
1:A5:26:VAL:HG11	3:C7:28:LYS:HD3	2.00	0.44
1:A5:79:PHE:CD1	1:A5:79:PHE:C	2.96	0.44
1:A7:67:ALA:O	1:A7:70:ARG:O	2.35	0.44
1:A8:246:GLN:CD	1:A8:246:GLN:H	2.26	0.44
1:Ac:209:LEU:HA	1:Ac:209:LEU:HD22	1.74	0.44
1:Ad:79:PHE:CD1	1:Ad:79:PHE:C	2.96	0.44
1:Ah:219:TYR:CD2	3:Ci:36:VAL:HG22	2.53	0.44
1:Ai:67:ALA:O	1:Ai:70:ARG:O	2.35	0.44
1:Ai:219:TYR:CD2	3:Cj:36:VAL:HG22	2.53	0.44
1:Al:79:PHE:CD1	1:Al:79:PHE:C	2.95	0.44
1:An:231:PRO:HG2	3:Co:83:ALA:CB	2.48	0.44
2:BA:156:SER:HB2	3:CA:51:TYR:O	2.18	0.44
2:BB:124:LEU:HD23	2:BB:198:ILE:HA	2.00	0.44
2:BD:84:PRO:CD	2:BD:85:SER:H	2.31	0.44
2:BE:124:LEU:HD23	2:BE:198:ILE:HA	2.00	0.44
2:BI:156:SER:HB2	3:CI:51:TYR:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:84:PRO:CD	2:BT:85:SER:H	2.31	0.44
2:BY:84:PRO:CD	2:BY:85:SER:H	2.31	0.44
2:B7:124:LEU:HD23	2:B7:198:ILE:HA	2.00	0.44
2:B9:124:LEU:HD23	2:B9:198:ILE:HA	2.00	0.44
2:Bb:124:LEU:HD23	2:Bb:198:ILE:HA	2.00	0.44
2:Bd:85:SER:HB2	2:Bd:190:ASN:ND2	2.31	0.44
2:Bg:84:PRO:CD	2:Bg:85:SER:H	2.31	0.44
2:Bj:124:LEU:HD23	2:Bj:198:ILE:HA	2.00	0.44
2:Bm:84:PRO:CD	2:Bm:85:SER:H	2.31	0.44
2:Br:84:PRO:CD	2:Br:85:SER:H	2.31	0.44
2:Br:124:LEU:HD23	2:Br:198:ILE:HA	2.00	0.44
2:Bu:156:SER:HB2	3:Cv:51:TYR:O	2.18	0.44
2:Bv:124:LEU:HD23	2:Bv:198:ILE:HA	2.00	0.44
2:Bx:85:SER:HB2	2:Bx:190:ASN:ND2	2.31	0.44
3:CE:84:GLU:CD	3:CE:84:GLU:H	2.23	0.44
3:CG:76:MET:O	3:CG:76:MET:HG3	2.18	0.44
3:CQ:76:MET:O	3:CQ:76:MET:HG3	2.18	0.44
3:CR:74:PHE:HE2	3:CR:183:LEU:HD13	1.83	0.44
3:CW:36:VAL:HA	3:CW:37:PRO:HD3	1.64	0.44
3:C0:76:MET:O	3:C0:76:MET:HG3	2.18	0.44
3:Ce:74:PHE:HE2	3:Ce:183:LEU:HD13	1.83	0.44
3:Ce:127:PRO:HD3	3:Ce:180:SER:C	2.42	0.44
3:Ck:44:ILE:HD12	3:Ck:44:ILE:HA	1.87	0.44
3:Co:128:HIS:O	3:Co:129:SER:C	2.61	0.44
3:Cp:74:PHE:HE2	3:Cp:183:LEU:HD13	1.83	0.44
3:Cq:28:LYS:HD3	1:DE:26:VAL:HG11	2.00	0.44
3:Cq:74:PHE:HE2	3:Cq:183:LEU:HD13	1.83	0.44
3:Cq:76:MET:O	3:Cq:76:MET:HG3	2.18	0.44
3:Cq:150:LEU:HD12	3:Cq:150:LEU:HA	1.79	0.44
3:Ct:36:VAL:HG22	1:DF:219:TYR:CD2	2.53	0.44
3:Cu:36:VAL:HG22	1:DG:219:TYR:CD2	2.53	0.44
3:Cx:150:LEU:HD12	3:Cx:150:LEU:HA	1.79	0.44
1:DE:246:GLN:H	1:DE:246:GLN:CD	2.25	0.44
1:DF:79:PHE:CD1	1:DF:79:PHE:C	2.96	0.44
1:DF:246:GLN:CD	1:DF:246:GLN:H	2.26	0.44
1:AC:219:TYR:CD2	3:CC:36:VAL:HG22	2.53	0.43
1:AD:87:GLN:HE21	1:AD:210:ARG:NH2	2.12	0.43
1:AE:246:GLN:H	1:AE:246:GLN:CD	2.26	0.43
1:AG:242:ASN:HD22	1:DK:110:GLY:N	2.10	0.43
1:AH:67:ALA:O	1:AH:70:ARG:O	2.35	0.43
1:AL:1:VAL:C	1:AL:3:ASN:H	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:209:LEU:HD22	1:AM:209:LEU:HA	1.74	0.43
1:AP:146:ILE:O	1:AP:147:ALA:CB	2.62	0.43
1:AR:67:ALA:O	1:AR:70:ARG:O	2.35	0.43
1:AS:26:VAL:HG11	3:CR:28:LYS:HD3	2.00	0.43
1:AU:246:GLN:H	1:AU:246:GLN:CD	2.26	0.43
1:AV:246:GLN:CD	1:AV:246:GLN:H	2.26	0.43
1:AW:87:GLN:HE21	1:AW:210:ARG:NH2	2.12	0.43
1:A3:67:ALA:O	1:A3:70:ARG:O	2.35	0.43
1:A3:246:GLN:CD	1:A3:246:GLN:H	2.26	0.43
1:A7:219:TYR:CD2	3:C8:36:VAL:HG22	2.53	0.43
1:A7:246:GLN:H	1:A7:246:GLN:CD	2.26	0.43
1:Aa:246:GLN:H	1:Aa:246:GLN:CD	2.26	0.43
1:Ab:74:THR:HG21	3:Cc:43:PHE:CE2	2.45	0.43
1:Ad:26:VAL:HG11	3:Cf:28:LYS:HD3	2.00	0.43
1:Ae:219:TYR:CD2	3:Cf:36:VAL:HG22	2.53	0.43
1:Ah:26:VAL:HG11	3:Cg:28:LYS:HD3	2.00	0.43
1:Ah:246:GLN:CD	1:Ah:246:GLN:H	2.26	0.43
1:Ai:246:GLN:H	1:Ai:246:GLN:CD	2.26	0.43
2:BL:156:SER:HB2	3:CL:51:TYR:O	2.18	0.43
2:BS:84:PRO:CD	2:BS:85:SER:H	2.31	0.43
2:BW:124:LEU:HD23	2:BW:198:ILE:HA	2.00	0.43
2:BX:156:SER:HB2	3:CX:51:TYR:O	2.18	0.43
2:B0:84:PRO:CD	2:B0:85:SER:H	2.31	0.43
2:B0:156:SER:HB2	3:C0:51:TYR:O	2.18	0.43
2:B2:85:SER:HB2	2:B2:190:ASN:ND2	2.31	0.43
2:Bb:156:SER:HB2	3:Cc:51:TYR:O	2.18	0.43
2:Bg:156:SER:HB2	3:Ch:51:TYR:O	2.18	0.43
2:Bi:84:PRO:CD	2:Bi:85:SER:H	2.31	0.43
2:Bk:224:GLY:HA2	2:Bk:225:PRO:HD2	1.81	0.43
2:Bn:157:VAL:CG2	3:Co:50:THR:HG21	2.43	0.43
2:Bp:84:PRO:CD	2:Bp:85:SER:H	2.31	0.43
2:Bt:84:PRO:CD	2:Bt:85:SER:H	2.31	0.43
2:Bx:224:GLY:HA2	2:Bx:225:PRO:HD2	1.81	0.43
3:CC:76:MET:O	3:CC:76:MET:HG3	2.18	0.43
3:CN:36:VAL:HA	3:CN:37:PRO:HD3	1.64	0.43
3:CU:128:HIS:O	3:CU:129:SER:C	2.61	0.43
3:C6:76:MET:O	3:C6:76:MET:HG3	2.18	0.43
3:Ch:76:MET:O	3:Ch:76:MET:HG3	2.18	0.43
3:Ci:74:PHE:HE2	3:Ci:183:LEU:HD13	1.83	0.43
3:Cr:28:LYS:HD3	1:DC:26:VAL:HG11	2.00	0.43
3:Cw:36:VAL:HG22	1:DI:219:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cx:28:LYS:HD3	1:DG:26:VAL:HG11	2.00	0.43
3:DB:74:PHE:HE2	3:DB:183:LEU:HD13	1.83	0.43
3:DB:128:HIS:O	3:DB:129:SER:C	2.61	0.43
1:DG:246:GLN:H	1:DG:246:GLN:CD	2.26	0.43
1:DK:246:GLN:CD	1:DK:246:GLN:H	2.26	0.43
1:AB:67:ALA:O	1:AB:70:ARG:O	2.35	0.43
1:AB:79:PHE:CD1	1:AB:79:PHE:C	2.95	0.43
1:AG:165:ARG:HA	3:CG:32:PRO:HG2	2.01	0.43
1:AM:79:PHE:CD1	1:AM:79:PHE:C	2.96	0.43
1:AV:79:PHE:CD1	1:AV:79:PHE:C	2.96	0.43
1:AW:74:THR:HG21	3:CX:43:PHE:CE2	2.45	0.43
1:AY:231:PRO:HG2	3:CZ:83:ALA:CB	2.48	0.43
1:A2:219:TYR:CD2	3:C3:36:VAL:HG22	2.53	0.43
1:A5:165:ARG:HA	3:C6:32:PRO:HG2	2.01	0.43
1:A8:219:TYR:CD2	3:C9:36:VAL:HG22	2.53	0.43
1:A9:209:LEU:HD22	1:A9:209:LEU:HA	1.74	0.43
1:Aa:146:ILE:O	1:Aa:147:ALA:CB	2.62	0.43
1:Ab:79:PHE:CD1	1:Ab:79:PHE:C	2.96	0.43
1:Ac:246:GLN:CD	1:Ac:246:GLN:H	2.26	0.43
1:Ad:231:PRO:HG2	3:Ce:83:ALA:CB	2.48	0.43
1:Af:231:PRO:HG2	3:Cg:83:ALA:CB	2.48	0.43
1:Ag:165:ARG:HA	3:Ch:32:PRO:HG2	2.01	0.43
1:Aj:79:PHE:CD1	1:Aj:79:PHE:C	2.96	0.43
2:BA:84:PRO:CD	2:BA:85:SER:H	2.31	0.43
2:BE:156:SER:HB2	3:CE:51:TYR:O	2.18	0.43
2:BF:224:GLY:HA2	2:BF:225:PRO:HD2	1.81	0.43
2:BH:83:LEU:HA	2:BH:84:PRO:HA	1.60	0.43
2:BU:84:PRO:CD	2:BU:85:SER:H	2.31	0.43
2:B0:166:ARG:HB3	3:C0:112:GLY:O	2.19	0.43
2:B1:84:PRO:CD	2:B1:85:SER:H	2.31	0.43
2:B7:224:GLY:HA2	2:B7:225:PRO:HD2	1.81	0.43
2:Bb:84:PRO:CD	2:Bb:85:SER:H	2.31	0.43
2:Bl:124:LEU:HD23	2:Bl:198:ILE:HA	2.00	0.43
2:Bo:85:SER:HB2	2:Bo:190:ASN:ND2	2.32	0.43
2:Bo:156:SER:HB2	3:Cp:51:TYR:O	2.18	0.43
2:Bv:84:PRO:CD	2:Bv:85:SER:H	2.31	0.43
3:CB:74:PHE:HE2	3:CB:183:LEU:HD13	1.83	0.43
3:CC:74:PHE:HE2	3:CC:183:LEU:HD13	1.83	0.43
3:CD:128:HIS:O	3:CD:129:SER:C	2.61	0.43
3:CG:74:PHE:HE2	3:CG:183:LEU:HD13	1.83	0.43
3:CH:150:LEU:HD12	3:CH:150:LEU:HA	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CS:76:MET:O	3:CS:76:MET:HG3	2.18	0.43
3:CW:76:MET:O	3:CW:76:MET:HG3	2.18	0.43
3:C1:128:HIS:O	3:C1:129:SER:C	2.61	0.43
3:C5:74:PHE:HE2	3:C5:183:LEU:HD13	1.84	0.43
3:C6:74:PHE:HE2	3:C6:183:LEU:HD13	1.83	0.43
3:CI:36:VAL:HA	3:CI:37:PRO:HD3	1.64	0.43
3:Co:28:LYS:HD3	1:DD:26:VAL:HG11	2.00	0.43
1:DC:87:GLN:HE21	1:DC:210:ARG:NH2	2.12	0.43
1:DF:67:ALA:O	1:DF:70:ARG:O	2.35	0.43
1:DH:67:ALA:O	1:DH:70:ARG:O	2.35	0.43
1:DI:79:PHE:CD1	1:DI:79:PHE:C	2.96	0.43
1:AB:225:PRO:HA	1:AB:226:PRO:HD3	1.78	0.43
1:AL:246:GLN:CD	1:AL:246:GLN:H	2.26	0.43
1:AV:91:THR:HG22	1:AW:128:VAL:HG23	1.98	0.43
1:A0:165:ARG:HA	3:C1:32:PRO:HG2	2.00	0.43
1:A4:219:TYR:CD2	3:C5:36:VAL:HG22	2.53	0.43
1:A5:219:TYR:CD2	3:C6:36:VAL:HG22	2.53	0.43
1:A6:219:TYR:CD2	3:C7:36:VAL:HG22	2.53	0.43
1:A8:79:PHE:CD1	1:A8:79:PHE:C	2.96	0.43
1:Aa:87:GLN:HE21	1:Aa:210:ARG:NH2	2.12	0.43
1:Ac:26:VAL:HG11	3:DB:28:LYS:HD3	2.00	0.43
1:Ad:219:TYR:CD2	3:Ce:36:VAL:HG22	2.53	0.43
1:Ai:1:VAL:C	1:Ai:3:ASN:H	2.24	0.43
1:Ak:79:PHE:CD1	1:Ak:79:PHE:C	2.96	0.43
1:Al:67:ALA:O	1:Al:70:ARG:O	2.35	0.43
2:BA:83:LEU:HA	2:BA:84:PRO:HA	1.60	0.43
2:BB:156:SER:HB2	3:CB:51:TYR:O	2.18	0.43
2:BD:156:SER:HB2	3:CD:51:TYR:O	2.18	0.43
2:BI:157:VAL:CG2	3:CI:50:THR:HG21	2.42	0.43
2:BK:124:LEU:HD23	2:BK:198:ILE:HA	2.00	0.43
2:BK:156:SER:HB2	3:CK:51:TYR:O	2.18	0.43
2:BL:84:PRO:CD	2:BL:85:SER:H	2.31	0.43
2:BM:224:GLY:HA2	2:BM:225:PRO:HD2	1.81	0.43
2:BN:83:LEU:HA	2:BN:84:PRO:HA	1.60	0.43
2:BR:156:SER:HB2	3:CO:51:TYR:O	2.18	0.43
2:BQ:83:LEU:HA	2:BQ:84:PRO:HA	1.60	0.43
2:BX:84:PRO:CD	2:BX:85:SER:H	2.31	0.43
2:B3:224:GLY:HA2	2:B3:225:PRO:HD2	1.81	0.43
2:B4:156:SER:HB2	3:C4:51:TYR:O	2.18	0.43
2:Bc:84:PRO:CD	2:Bc:85:SER:H	2.31	0.43
2:Be:84:PRO:CD	2:Be:85:SER:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Be:156:SER:HB2	3:Cf:51:TYR:O	2.18	0.43
2:Bn:156:SER:HB2	3:Co:51:TYR:O	2.18	0.43
2:Bq:156:SER:HB2	3:Cr:51:TYR:O	2.18	0.43
2:Bs:84:PRO:CD	2:Bs:85:SER:H	2.31	0.43
2:Bu:84:PRO:CD	2:Bu:85:SER:H	2.31	0.43
2:Bw:84:PRO:CD	2:Bw:85:SER:H	2.31	0.43
2:Bx:166:ARG:HB3	3:C5:112:GLY:O	2.19	0.43
3:CJ:74:PHE:HE2	3:CJ:183:LEU:HD13	1.84	0.43
3:CM:74:PHE:HE2	3:CM:183:LEU:HD13	1.84	0.43
3:CX:150:LEU:HD12	3:CX:150:LEU:HA	1.79	0.43
3:C2:74:PHE:HE2	3:C2:183:LEU:HD13	1.84	0.43
3:Cf:74:PHE:HE2	3:Cf:183:LEU:HD13	1.84	0.43
3:Ch:128:HIS:O	3:Ch:129:SER:C	2.61	0.43
3:Cn:74:PHE:HE2	3:Cn:183:LEU:HD13	1.83	0.43
3:Co:36:VAL:HA	3:Co:37:PRO:HD3	1.64	0.43
3:Cr:36:VAL:HG22	1:DD:219:TYR:CD2	2.53	0.43
3:Ct:32:PRO:HG2	1:DF:165:ARG:HA	2.00	0.43
3:Cw:74:PHE:HE2	3:Cw:183:LEU:HD13	1.84	0.43
1:DC:1:VAL:C	1:DC:3:ASN:H	2.24	0.43
1:AE:26:VAL:HG11	3:CC:28:LYS:HD3	2.00	0.43
1:AE:67:ALA:O	1:AE:70:ARG:O	2.35	0.43
1:AI:26:VAL:HG11	3:CF:28:LYS:HD3	2.00	0.43
1:AI:79:PHE:CD1	1:AI:79:PHE:C	2.95	0.43
1:AK:91:THR:HG22	1:AN:128:VAL:HG23	1.98	0.43
1:AL:26:VAL:HG11	3:CN:28:LYS:HD3	2.00	0.43
1:AP:67:ALA:O	1:AP:70:ARG:O	2.35	0.43
1:AT:242:ASN:HD22	1:AU:110:GLY:N	2.10	0.43
1:AU:72:LEU:HD23	1:AU:72:LEU:HA	1.83	0.43
1:AV:67:ALA:O	1:AV:70:ARG:O	2.35	0.43
1:AW:26:VAL:HG11	3:CU:28:LYS:HD3	2.00	0.43
1:AW:67:ALA:O	1:AW:70:ARG:O	2.35	0.43
1:A0:146:ILE:O	1:A0:147:ALA:CB	2.62	0.43
1:A0:219:TYR:CD2	3:C1:36:VAL:HG22	2.53	0.43
1:A5:74:THR:HG21	3:C6:43:PHE:CE2	2.45	0.43
1:A6:26:VAL:HG11	3:C4:28:LYS:HD3	2.00	0.43
1:A6:79:PHE:CD1	1:A6:79:PHE:C	2.96	0.43
1:A7:1:VAL:C	1:A7:3:ASN:H	2.24	0.43
1:A7:209:LEU:HA	1:A7:209:LEU:HD22	1.74	0.43
1:A9:219:TYR:CD2	3:DA:36:VAL:HG22	2.53	0.43
1:Aa:67:ALA:O	1:Aa:70:ARG:O	2.35	0.43
1:Ag:79:PHE:CD1	1:Ag:79:PHE:C	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:165:ARG:HA	3:Ck:32:PRO:HG2	2.00	0.43
1:Aj:219:TYR:CD2	3:Ck:36:VAL:HG22	2.53	0.43
1:Ak:165:ARG:HA	3:Cl:32:PRO:HG2	2.00	0.43
1:Ao:67:ALA:O	1:Ao:70:ARG:O	2.35	0.43
2:Bl:84:PRO:CD	2:Bl:85:SER:H	2.31	0.43
2:BJ:84:PRO:CD	2:BJ:85:SER:H	2.31	0.43
2:BN:166:ARG:HB3	3:CN:112:GLY:O	2.19	0.43
2:BO:156:SER:HB2	3:CP:51:TYR:O	2.18	0.43
2:BQ:124:LEU:HD23	2:BQ:198:ILE:HA	2.00	0.43
2:BU:156:SER:HB2	3:CU:51:TYR:O	2.18	0.43
2:BU:166:ARG:HB3	3:CU:112:GLY:O	2.19	0.43
2:BV:84:PRO:CD	2:BV:85:SER:H	2.31	0.43
2:BX:166:ARG:HB3	3:CX:112:GLY:O	2.19	0.43
2:BZ:137:GLU:C	2:BZ:139:ALA:H	2.22	0.43
2:B7:166:ARG:HB3	3:C8:112:GLY:O	2.19	0.43
2:Ba:166:ARG:HB3	3:DB:112:GLY:O	2.19	0.43
2:Bb:224:GLY:HA2	2:Bb:225:PRO:HD2	1.81	0.43
2:Be:166:ARG:HB3	3:Cf:112:GLY:O	2.19	0.43
2:Bh:156:SER:HB2	3:Ci:51:TYR:O	2.18	0.43
2:Bi:156:SER:HB2	3:Cj:51:TYR:O	2.18	0.43
2:Bl:137:GLU:O	2:Bl:139:ALA:N	2.41	0.43
2:Bn:84:PRO:CD	2:Bn:85:SER:H	2.31	0.43
2:Bw:85:SER:HB2	2:Bw:190:ASN:ND2	2.31	0.43
2:Bx:84:PRO:CD	2:Bx:85:SER:H	2.31	0.43
3:CH:28:LYS:HD3	1:DK:26:VAL:HG11	2.00	0.43
3:CN:128:HIS:O	3:CN:129:SER:C	2.61	0.43
3:CQ:74:PHE:HE2	3:CQ:183:LEU:HD13	1.83	0.43
3:CU:74:PHE:HE2	3:CU:183:LEU:HD13	1.83	0.43
3:C1:44:ILE:HD12	3:C1:44:ILE:HA	1.88	0.43
3:C1:74:PHE:HE2	3:C1:183:LEU:HD13	1.83	0.43
3:Cf:44:ILE:HD12	3:Cf:44:ILE:HA	1.87	0.43
3:Cs:36:VAL:HG22	1:DE:219:TYR:CD2	2.53	0.43
3:Cs:128:HIS:O	3:Cs:129:SER:C	2.61	0.43
3:Cu:76:MET:O	3:Cu:76:MET:HG3	2.18	0.43
1:AA:240:PRO:HG2	1:AB:114:LYS:HB2	2.01	0.43
1:AB:219:TYR:CD2	3:CB:36:VAL:HG22	2.53	0.43
1:AC:87:GLN:HE21	1:AC:210:ARG:NH2	2.12	0.43
1:AD:79:PHE:CD1	1:AD:79:PHE:C	2.95	0.43
1:AF:1:VAL:C	1:AF:3:ASN:H	2.24	0.43
1:AH:87:GLN:HE21	1:AH:210:ARG:NH2	2.12	0.43
1:AN:67:ALA:O	1:AN:70:ARG:O	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:165:ARG:HA	3:CO:32:PRO:HG2	2.01	0.43
1:AO:165:ARG:HA	3:CP:32:PRO:HG2	2.01	0.43
1:AQ:240:PRO:HG2	1:AR:114:LYS:HB2	2.01	0.43
1:AR:165:ARG:HA	3:CS:32:PRO:HG2	2.00	0.43
1:AS:1:VAL:C	1:AS:3:ASN:H	2.24	0.43
1:AS:246:GLN:H	1:AS:246:GLN:CD	2.26	0.43
1:AT:72:LEU:HD23	1:AT:72:LEU:HA	1.82	0.43
1:AW:246:GLN:CD	1:AW:246:GLN:H	2.26	0.43
1:AX:26:VAL:HG11	3:CW:28:LYS:HD3	2.00	0.43
1:AX:207:CYS:O	1:AX:208:TYR:CB	2.58	0.43
1:AZ:1:VAL:C	1:AZ:3:ASN:H	2.24	0.43
1:A1:219:TYR:CD2	3:C2:36:VAL:HG22	2.53	0.43
1:A4:165:ARG:HA	3:C5:32:PRO:HG2	2.01	0.43
1:A5:67:ALA:O	1:A5:70:ARG:O	2.35	0.43
1:Aa:165:ARG:HA	3:DB:32:PRO:HG2	2.01	0.43
1:Ae:207:CYS:O	1:Ae:208:TYR:CB	2.57	0.43
1:Ag:246:GLN:H	1:Ag:246:GLN:CD	2.26	0.43
1:Ai:79:PHE:CD1	1:Ai:79:PHE:C	2.96	0.43
2:BC:84:PRO:CD	2:BC:85:SER:H	2.31	0.43
2:BC:156:SER:HB2	3:CC:51:TYR:O	2.18	0.43
2:BC:166:ARG:HB3	3:CC:112:GLY:O	2.19	0.43
2:BE:85:SER:HB2	2:BE:190:ASN:ND2	2.31	0.43
2:BH:166:ARG:HB3	3:CH:112:GLY:O	2.19	0.43
2:BK:166:ARG:HB3	3:CK:112:GLY:O	2.19	0.43
2:BT:166:ARG:HB3	3:CT:112:GLY:O	2.19	0.43
2:BU:85:SER:HB2	2:BU:190:ASN:ND2	2.31	0.43
2:BV:124:LEU:HD23	2:BV:198:ILE:HA	2.00	0.43
2:BV:166:ARG:HB3	3:CV:112:GLY:O	2.19	0.43
2:BY:86:ASP:CB	2:BY:141:LYS:HA	2.49	0.43
2:BY:156:SER:HB2	3:CY:51:TYR:O	2.18	0.43
2:BZ:166:ARG:HB3	3:CZ:112:GLY:O	2.19	0.43
2:B3:166:ARG:HB3	3:C3:112:GLY:O	2.19	0.43
2:B4:166:ARG:HB3	3:C4:112:GLY:O	2.19	0.43
2:Bh:166:ARG:HB3	3:CI:112:GLY:O	2.19	0.43
2:Bn:224:GLY:HA2	2:Bn:225:PRO:HD2	1.81	0.43
2:Bo:166:ARG:HB3	3:Cp:112:GLY:O	2.19	0.43
2:Bs:156:SER:HB2	3:Ct:51:TYR:O	2.18	0.43
2:Bs:166:ARG:HB3	3:Ct:112:GLY:O	2.19	0.43
2:Bt:166:ARG:HB3	3:Cu:112:GLY:O	2.19	0.43
3:CF:74:PHE:HE2	3:CF:183:LEU:HD13	1.83	0.43
3:CI:74:PHE:HE2	3:CI:183:LEU:HD13	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:76:MET:O	3:CJ:76:MET:HG3	2.18	0.43
3:CL:74:PHE:HE2	3:CL:183:LEU:HD13	1.83	0.43
3:C8:74:PHE:HE2	3:C8:183:LEU:HD13	1.83	0.43
3:Cm:76:MET:O	3:Cm:76:MET:HG3	2.18	0.43
3:Cr:150:LEU:HD12	3:Cr:150:LEU:HA	1.79	0.43
3:Ct:28:LYS:HD3	1:DI:26:VAL:HG11	2.00	0.43
3:Cx:74:PHE:HE2	3:Cx:183:LEU:HD13	1.83	0.43
1:DD:1:VAL:C	1:DD:3:ASN:H	2.24	0.43
1:DG:225:PRO:HA	1:DG:226:PRO:HD3	1.77	0.43
1:AD:1:VAL:C	1:AD:3:ASN:H	2.24	0.43
1:AG:219:TYR:CD2	3:CG:36:VAL:HG22	2.53	0.43
1:AL:79:PHE:C	1:AL:79:PHE:CD1	2.96	0.43
1:AL:240:PRO:HG2	1:AM:114:LYS:HB2	2.01	0.43
1:AM:87:GLN:HE21	1:AM:210:ARG:NH2	2.12	0.43
1:AR:246:GLN:CD	1:AR:246:GLN:H	2.26	0.43
1:AV:26:VAL:HG11	3:CX:28:LYS:HD3	2.00	0.43
1:AV:165:ARG:HA	3:CW:32:PRO:HG2	2.01	0.43
1:AX:246:GLN:CD	1:AX:246:GLN:H	2.25	0.43
1:AZ:26:VAL:HG11	3:C3:28:LYS:HD3	2.00	0.43
1:AZ:67:ALA:O	1:AZ:70:ARG:O	2.35	0.43
1:AZ:165:ARG:HA	3:C0:32:PRO:HG2	2.00	0.43
1:A1:26:VAL:HG11	3:CZ:28:LYS:HD3	2.00	0.43
1:A2:67:ALA:O	1:A2:70:ARG:O	2.35	0.43
1:A2:165:ARG:HA	3:C3:32:PRO:HG2	2.01	0.43
1:A3:79:PHE:CD1	1:A3:79:PHE:C	2.96	0.43
1:A8:242:ASN:HD22	1:A9:110:GLY:N	2.10	0.43
1:Ae:246:GLN:CD	1:Ae:246:GLN:H	2.26	0.43
1:Af:114:LYS:HB2	1:Ah:240:PRO:HG2	2.01	0.43
2:BD:166:ARG:HB3	3:CD:112:GLY:O	2.19	0.43
2:BF:85:SER:HB2	2:BF:190:ASN:ND2	2.31	0.43
2:BL:166:ARG:HB3	3:CL:112:GLY:O	2.19	0.43
2:BN:84:PRO:CD	2:BN:85:SER:H	2.31	0.43
2:BR:86:ASP:CB	2:BR:141:LYS:HA	2.49	0.43
2:BR:152:TYR:CB	2:BR:197:LEU:HD11	2.49	0.43
2:BP:84:PRO:CD	2:BP:85:SER:H	2.31	0.43
2:B1:166:ARG:HB3	3:C1:112:GLY:O	2.19	0.43
2:B2:156:SER:HB2	3:C2:51:TYR:O	2.18	0.43
2:B6:83:LEU:HA	2:B6:84:PRO:HA	1.60	0.43
2:B6:84:PRO:CD	2:B6:85:SER:H	2.31	0.43
2:B6:118:PHE:HE2	2:Bu:118:PHE:CD1	1.98	0.43
2:B8:166:ARG:HB3	3:C9:112:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:85:SER:HB2	2:Bc:190:ASN:ND2	2.32	0.43
2:Bc:86:ASP:CB	2:Bc:141:LYS:HA	2.49	0.43
2:Bd:84:PRO:CD	2:Bd:85:SER:H	2.31	0.43
2:Bd:166:ARG:HB3	3:Ce:112:GLY:O	2.19	0.43
2:Bf:85:SER:HB2	2:Bf:190:ASN:ND2	2.31	0.43
2:Bq:166:ARG:HB3	3:Cr:112:GLY:O	2.19	0.43
3:CG:175:THR:HG23	3:CG:176:VAL:N	2.34	0.43
3:CI:76:MET:O	3:CI:76:MET:HG3	2.18	0.43
3:CK:44:ILE:HD12	3:CK:44:ILE:HA	1.88	0.43
3:CO:76:MET:O	3:CO:76:MET:HG3	2.18	0.43
3:CP:175:THR:HG23	3:CP:176:VAL:N	2.34	0.43
3:CV:74:PHE:HE2	3:CV:183:LEU:HD13	1.84	0.43
3:CW:74:PHE:HE2	3:CW:183:LEU:HD13	1.83	0.43
3:CW:150:LEU:HD12	3:CW:150:LEU:HA	1.79	0.43
3:C2:44:ILE:HD12	3:C2:44:ILE:HA	1.88	0.43
1:AC:191:HIS:HD2	1:AC:193:GLY:N	2.08	0.43
1:AF:114:LYS:HB2	1:AI:240:PRO:HG2	2.01	0.43
1:AF:165:ARG:HA	3:CF:32:PRO:HG2	2.00	0.43
1:AG:26:VAL:HG11	3:CJ:28:LYS:HD3	2.00	0.43
1:AN:26:VAL:HG11	3:CM:28:LYS:HD3	2.00	0.43
1:AN:72:LEU:HD23	1:AN:72:LEU:HA	1.83	0.43
1:AO:26:VAL:HG11	3:CQ:28:LYS:HD3	2.00	0.43
1:AO:246:GLN:CD	1:AO:246:GLN:H	2.26	0.43
1:AP:79:PHE:CD1	1:AP:79:PHE:C	2.96	0.43
1:AR:79:PHE:CD1	1:AR:79:PHE:C	2.96	0.43
1:AU:67:ALA:O	1:AU:70:ARG:O	2.35	0.43
1:AV:225:PRO:HA	1:AV:226:PRO:HD3	1.78	0.43
1:AW:165:ARG:HA	3:CX:32:PRO:HG2	2.01	0.43
1:A0:246:GLN:CD	1:A0:246:GLN:H	2.26	0.43
1:A2:26:VAL:HG11	3:C1:28:LYS:HD3	2.00	0.43
1:A6:67:ALA:O	1:A6:70:ARG:O	2.35	0.43
1:Ah:79:PHE:CD1	1:Ah:79:PHE:C	2.96	0.43
1:Ai:165:ARG:HA	3:Cj:32:PRO:HG2	2.01	0.43
1:Aj:231:PRO:HG2	3:Ck:83:ALA:CB	2.48	0.43
1:Ak:114:LYS:HB2	1:Am:240:PRO:HG2	2.01	0.43
1:Ak:146:ILE:O	1:Ak:147:ALA:CB	2.62	0.43
1:An:219:TYR:CD2	3:Co:36:VAL:HG22	2.53	0.43
2:BD:86:ASP:CB	2:BD:141:LYS:HA	2.49	0.43
2:BI:166:ARG:HB3	3:CI:112:GLY:O	2.19	0.43
2:BJ:152:TYR:CB	2:BJ:197:LEU:HD11	2.49	0.43
2:BJ:166:ARG:HB3	3:CJ:112:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:166:ARG:HB3	3:CM:112:GLY:O	2.19	0.43
2:BP:124:LEU:HD23	2:BP:198:ILE:HA	2.00	0.43
2:BY:152:TYR:CB	2:BY:197:LEU:HD11	2.49	0.43
2:B6:166:ARG:HB3	3:C7:112:GLY:O	2.19	0.43
2:B6:224:GLY:HA2	2:B6:225:PRO:HD2	1.81	0.43
2:Ba:86:ASP:CB	2:Ba:141:LYS:HA	2.49	0.43
2:Bf:124:LEU:HD23	2:Bf:198:ILE:HA	2.00	0.43
2:Bm:166:ARG:HB3	3:Cn:112:GLY:O	2.19	0.43
2:Bo:124:LEU:HD23	2:Bo:198:ILE:HA	2.00	0.43
2:Bq:84:PRO:CD	2:Bq:85:SER:H	2.31	0.43
2:Bw:166:ARG:HB3	3:Cx:112:GLY:O	2.19	0.43
2:Bx:86:ASP:CB	2:Bx:141:LYS:HA	2.49	0.43
3:CA:36:VAL:HA	3:CA:37:PRO:HD3	1.64	0.43
3:CA:175:THR:HG23	3:CA:176:VAL:N	2.34	0.43
3:CE:76:MET:O	3:CE:76:MET:HG3	2.18	0.43
3:CH:74:PHE:HE2	3:CH:183:LEU:HD13	1.83	0.43
3:CJ:36:VAL:HG22	1:DK:219:TYR:CD2	2.53	0.43
3:CM:128:HIS:O	3:CM:129:SER:C	2.61	0.43
3:CO:128:HIS:O	3:CO:129:SER:C	2.61	0.43
3:CZ:74:PHE:HE2	3:CZ:183:LEU:HD13	1.83	0.43
3:C1:175:THR:HG23	3:C1:176:VAL:N	2.34	0.43
3:C4:76:MET:O	3:C4:76:MET:HG3	2.18	0.43
3:C4:175:THR:HG23	3:C4:176:VAL:N	2.34	0.43
3:C5:76:MET:O	3:C5:76:MET:HG3	2.18	0.43
3:Cc:76:MET:O	3:Cc:76:MET:HG3	2.18	0.43
3:Cg:175:THR:HG23	3:Cg:176:VAL:N	2.34	0.43
3:Ch:74:PHE:HE2	3:Ch:183:LEU:HD13	1.84	0.43
3:Ck:74:PHE:HE2	3:Ck:183:LEU:HD13	1.84	0.43
3:Cl:74:PHE:HE2	3:Cl:183:LEU:HD13	1.84	0.43
3:Cv:32:PRO:HG2	1:DH:165:ARG:HA	2.01	0.43
3:Cv:74:PHE:HE2	3:Cv:183:LEU:HD13	1.84	0.43
3:Cv:175:THR:HG23	3:Cv:176:VAL:N	2.34	0.43
1:DG:240:PRO:HG2	1:DJ:114:LYS:HB2	2.01	0.43
1:DI:67:ALA:O	1:DI:70:ARG:O	2.35	0.43
1:AA:26:VAL:HG11	3:CB:28:LYS:HD3	2.00	0.43
1:AB:231:PRO:HG2	3:CB:83:ALA:CB	2.48	0.43
1:AF:26:VAL:HG11	3:CG:28:LYS:HD3	2.00	0.43
1:AQ:212:ARG:NH2	3:CR:18:VAL:O	2.46	0.43
1:AT:26:VAL:HG11	3:CV:28:LYS:HD3	2.00	0.43
1:AT:219:TYR:CD2	3:CU:36:VAL:HG22	2.53	0.43
1:AV:187:LEU:HA	1:AV:188:PRO:HD2	1.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:219:TYR:CD2	3:CX:36:VAL:HG22	2.53	0.43
1:A1:191:HIS:HD2	1:A1:193:GLY:N	2.08	0.43
1:A4:221:PRO:HD3	3:C5:40:PHE:CD2	2.54	0.43
1:A6:1:VAL:C	1:A6:3:ASN:H	2.24	0.43
1:A7:165:ARG:HA	3:C8:32:PRO:HG2	2.00	0.43
1:A8:26:VAL:HG11	3:DA:28:LYS:HD3	2.00	0.43
1:Aa:231:PRO:HG2	3:DB:83:ALA:CB	2.48	0.43
1:Ad:240:PRO:HG2	1:Ae:114:LYS:HB2	2.01	0.43
1:Ai:209:LEU:HD22	1:Ai:209:LEU:HA	1.74	0.43
1:Al:187:LEU:HA	1:Al:188:PRO:HD2	1.95	0.43
1:An:74:THR:HG21	3:Co:43:PHE:CE2	2.45	0.43
1:An:114:LYS:HB2	1:DD:240:PRO:HG2	2.01	0.43
2:BA:166:ARG:HB3	3:CA:112:GLY:O	2.19	0.43
2:BF:124:LEU:HD23	2:BF:198:ILE:HA	2.00	0.43
2:BG:84:PRO:CD	2:BG:85:SER:H	2.31	0.43
2:BT:124:LEU:HD23	2:BT:198:ILE:HA	2.00	0.43
2:BZ:224:GLY:HA2	2:BZ:225:PRO:HD2	1.81	0.43
2:B0:86:ASP:CB	2:B0:141:LYS:HA	2.49	0.43
2:B4:157:VAL:CG2	3:C4:50:THR:HG21	2.42	0.43
2:B5:86:ASP:CB	2:B5:141:LYS:HA	2.49	0.43
2:B7:84:PRO:CD	2:B7:85:SER:H	2.31	0.43
2:B7:86:ASP:CB	2:B7:141:LYS:HA	2.49	0.43
2:Ba:152:TYR:CB	2:Ba:197:LEU:HD11	2.49	0.43
2:Bb:86:ASP:CB	2:Bb:141:LYS:HA	2.49	0.43
2:Bh:84:PRO:CD	2:Bh:85:SER:H	2.31	0.43
2:Bl:152:TYR:CB	2:Bl:197:LEU:HD11	2.49	0.43
2:Bq:86:ASP:CB	2:Bq:141:LYS:HA	2.49	0.43
2:Bs:85:SER:HB2	2:Bs:190:ASN:ND2	2.31	0.43
2:Bt:152:TYR:CB	2:Bt:197:LEU:HD11	2.49	0.43
3:CY:74:PHE:HE2	3:CY:183:LEU:HD13	1.83	0.43
3:C2:128:HIS:O	3:C2:129:SER:C	2.61	0.43
3:C7:175:THR:HG23	3:C7:176:VAL:N	2.34	0.43
3:Cj:36:VAL:HA	3:Cj:37:PRO:HD3	1.64	0.43
3:Cj:74:PHE:HE2	3:Cj:183:LEU:HD13	1.83	0.43
3:Cn:36:VAL:HA	3:Cn:37:PRO:HD3	1.64	0.43
3:Cp:175:THR:HG23	3:Cp:176:VAL:N	2.34	0.43
3:Cs:40:PHE:CD2	1:DE:221:PRO:HD3	2.54	0.43
3:Cw:32:PRO:HG2	1:DI:165:ARG:HA	2.01	0.43
3:Cw:40:PHE:CD2	1:DI:221:PRO:HD3	2.54	0.43
3:Cw:175:THR:HG23	3:Cw:176:VAL:N	2.34	0.43
3:DA:175:THR:HG23	3:DA:176:VAL:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:165:ARG:HA	3:CB:32:PRO:HG2	2.01	0.43
1:AC:165:ARG:HA	3:CC:32:PRO:HG2	2.01	0.43
1:AE:191:HIS:HD2	1:AE:193:GLY:N	2.08	0.43
1:AE:219:TYR:CD2	3:CE:36:VAL:HG22	2.53	0.43
1:AL:219:TYR:CD2	3:CM:36:VAL:HG22	2.53	0.43
1:AM:246:GLN:H	1:AM:246:GLN:CD	2.26	0.43
1:AP:221:PRO:HD3	3:CQ:40:PHE:CD1	2.54	0.43
1:AR:1:VAL:C	1:AR:3:ASN:H	2.24	0.43
1:AV:114:LYS:HB2	1:AX:240:PRO:HG2	2.01	0.43
1:AX:165:ARG:HA	3:CY:32:PRO:HG2	2.00	0.43
1:AY:114:LYS:HB2	1:A1:240:PRO:HG2	2.01	0.43
1:AZ:240:PRO:HG2	1:A2:114:LYS:HB2	2.01	0.43
1:A0:26:VAL:HG11	3:C2:28:LYS:HD3	2.00	0.43
1:A4:26:VAL:HG11	3:C8:28:LYS:HD3	2.00	0.43
1:A4:225:PRO:HA	1:A4:226:PRO:HD3	1.78	0.43
1:A6:225:PRO:HA	1:A6:226:PRO:HD3	1.78	0.43
1:A9:26:VAL:HG11	3:Cd:28:LYS:HD3	2.00	0.43
1:Ad:221:PRO:HD3	3:Ce:40:PHE:CD2	2.54	0.43
1:Af:1:VAL:C	1:Af:3:ASN:H	2.24	0.43
1:Ah:1:VAL:C	1:Ah:3:ASN:H	2.24	0.43
1:Al:26:VAL:HG11	3:Cj:28:LYS:HD3	2.00	0.43
1:An:240:PRO:HG2	1:Ao:114:LYS:HB2	2.01	0.43
1:Ao:165:ARG:HA	3:Cp:32:PRO:HG2	2.00	0.43
2:BA:152:TYR:CB	2:BA:197:LEU:HD11	2.49	0.43
2:BB:84:PRO:CD	2:BB:85:SER:H	2.31	0.43
2:BB:166:ARG:HB3	3:CB:112:GLY:O	2.19	0.43
2:BF:152:TYR:CB	2:BF:197:LEU:HD11	2.49	0.43
2:BF:156:SER:HB2	3:CF:51:TYR:O	2.18	0.43
2:BG:166:ARG:HB3	3:CG:112:GLY:O	2.19	0.43
2:BH:86:ASP:CB	2:BH:141:LYS:HA	2.49	0.43
2:BJ:156:SER:HB2	3:CJ:51:TYR:O	2.18	0.43
2:BK:152:TYR:CB	2:BK:197:LEU:HD11	2.49	0.43
2:BO:152:TYR:CB	2:BO:197:LEU:HD11	2.49	0.43
2:BQ:86:ASP:CB	2:BQ:141:LYS:HA	2.49	0.43
2:BW:84:PRO:CD	2:BW:85:SER:H	2.31	0.43
2:BX:152:TYR:CB	2:BX:197:LEU:HD11	2.49	0.43
2:BY:166:ARG:HB3	3:CY:112:GLY:O	2.19	0.43
2:B1:152:TYR:CB	2:B1:197:LEU:HD11	2.49	0.43
2:B2:152:TYR:CB	2:B2:197:LEU:HD11	2.49	0.43
2:B2:166:ARG:HB3	3:C2:112:GLY:O	2.19	0.43
2:B6:124:LEU:HD23	2:B6:198:ILE:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:152:TYR:CB	2:B7:197:LEU:HD11	2.49	0.43
2:Bd:152:TYR:CB	2:Bd:197:LEU:HD11	2.49	0.43
2:Bi:224:GLY:HA2	2:Bi:225:PRO:HD2	1.81	0.43
2:Bj:84:PRO:CD	2:Bj:85:SER:H	2.31	0.43
2:Bj:86:ASP:CB	2:Bj:141:LYS:HA	2.49	0.43
2:Bj:224:GLY:HA2	2:Bj:225:PRO:HD2	1.81	0.43
2:Bl:84:PRO:CD	2:Bl:85:SER:H	2.31	0.43
2:Bq:152:TYR:CB	2:Bq:197:LEU:HD11	2.49	0.43
2:Bu:83:LEU:HA	2:Bu:84:PRO:HA	1.60	0.43
2:Bw:86:ASP:CB	2:Bw:141:LYS:HA	2.49	0.43
3:CA:128:HIS:O	3:CA:129:SER:C	2.61	0.43
3:CN:74:PHE:HE2	3:CN:183:LEU:HD13	1.84	0.43
3:CO:175:THR:HG23	3:CO:176:VAL:N	2.34	0.43
3:CX:76:MET:O	3:CX:76:MET:HG3	2.18	0.43
3:C3:74:PHE:HE2	3:C3:183:LEU:HD13	1.83	0.43
3:C9:175:THR:HG23	3:C9:176:VAL:N	2.34	0.43
3:Cd:128:HIS:O	3:Cd:129:SER:C	2.61	0.43
3:Cg:74:PHE:HE2	3:Cg:183:LEU:HD13	1.83	0.43
3:Ch:175:THR:HG23	3:Ch:176:VAL:N	2.34	0.43
3:Ci:175:THR:HG23	3:Ci:176:VAL:N	2.34	0.43
3:Cj:175:THR:HG23	3:Cj:176:VAL:N	2.34	0.43
3:Cl:175:THR:HG23	3:Cl:176:VAL:N	2.34	0.43
3:Ct:40:PHE:CD2	1:DF:221:PRO:HD3	2.54	0.43
3:Cv:28:LYS:HD3	1:DF:26:VAL:HG11	2.00	0.43
3:Cx:83:ALA:CB	1:DJ:231:PRO:HG2	2.48	0.43
3:DB:175:THR:HG23	3:DB:176:VAL:N	2.34	0.43
1:DF:114:LYS:HB2	1:DI:240:PRO:HG2	2.01	0.43
1:DI:1:VAL:C	1:DI:3:ASN:H	2.24	0.43
1:AA:1:VAL:C	1:AA:3:ASN:H	2.24	0.43
1:AA:219:TYR:CD2	3:CA:36:VAL:HG22	2.53	0.43
1:AC:114:LYS:HB2	1:AE:240:PRO:HG2	2.01	0.43
1:AE:221:PRO:HD3	3:CE:40:PHE:CD1	2.54	0.43
1:AF:74:THR:HG21	3:CF:43:PHE:CE1	2.45	0.43
1:AF:221:PRO:HD3	3:CF:40:PHE:CD1	2.54	0.43
1:AH:231:PRO:HG2	3:CH:83:ALA:CB	2.48	0.43
1:AJ:26:VAL:HG11	3:CL:28:LYS:HD3	2.00	0.43
1:AK:165:ARG:HA	3:CL:32:PRO:HG2	2.01	0.43
1:AK:221:PRO:HD3	3:CL:40:PHE:CD1	2.54	0.43
1:AM:165:ARG:HA	3:CN:32:PRO:HG2	2.00	0.43
1:AO:221:PRO:HD3	3:CP:40:PHE:CD1	2.54	0.43
1:AP:209:LEU:HA	1:AP:209:LEU:HD22	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:165:ARG:HA	3:CR:32:PRO:HG2	2.01	0.43
1:AS:165:ARG:HA	3:CT:32:PRO:HG2	2.00	0.43
1:AV:1:VAL:C	1:AV:3:ASN:H	2.24	0.43
1:A0:221:PRO:HD3	3:C1:40:PHE:CD2	2.54	0.43
1:A1:74:THR:HG21	3:C2:43:PHE:CE2	2.45	0.43
1:A3:240:PRO:HG2	1:A4:114:LYS:HB2	2.01	0.43
1:A6:87:GLN:HE21	1:A6:210:ARG:NH2	2.12	0.43
1:A7:221:PRO:HD3	3:C8:40:PHE:CD2	2.54	0.43
1:A9:212:ARG:NH2	3:DA:18:VAL:O	2.46	0.43
1:Ab:246:GLN:CD	1:Ab:246:GLN:H	2.26	0.43
1:Ac:221:PRO:HD3	3:Cd:40:PHE:CD2	2.54	0.43
1:Ah:187:LEU:HD23	1:Ah:187:LEU:HA	1.91	0.43
1:Aj:246:GLN:CD	1:Aj:246:GLN:H	2.26	0.43
1:Ak:221:PRO:HD3	3:Cl:40:PHE:CD2	2.54	0.43
1:Am:1:VAL:C	1:Am:3:ASN:H	2.24	0.43
1:An:165:ARG:HA	3:Co:32:PRO:HG2	2.00	0.43
1:Ao:219:TYR:CD2	3:Cp:36:VAL:HG22	2.53	0.43
2:BE:84:PRO:CD	2:BE:85:SER:H	2.31	0.43
2:BE:152:TYR:HB3	2:BE:197:LEU:HD11	2.01	0.43
2:BF:84:PRO:CD	2:BF:85:SER:H	2.31	0.43
2:BH:152:TYR:CB	2:BH:197:LEU:HD11	2.49	0.43
2:BI:86:ASP:CB	2:BI:141:LYS:HA	2.49	0.43
2:BK:83:LEU:HA	2:BK:84:PRO:HA	1.60	0.43
2:BM:156:SER:HB2	3:CM:51:TYR:O	2.18	0.43
2:BS:166:ARG:HB3	3:CQ:112:GLY:O	2.19	0.43
2:BU:152:TYR:CB	2:BU:197:LEU:HD11	2.49	0.43
2:Bv:86:ASP:CB	2:Bv:141:LYS:HA	2.49	0.43
2:BW:156:SER:HB2	3:CW:51:TYR:O	2.18	0.43
2:BY:124:LEU:HD23	2:BY:198:ILE:HA	2.00	0.43
2:B1:86:ASP:CB	2:B1:141:LYS:HA	2.49	0.43
2:B3:86:ASP:CB	2:B3:141:LYS:HA	2.49	0.43
2:B6:86:ASP:CB	2:B6:141:LYS:HA	2.49	0.43
2:B8:84:PRO:CD	2:B8:85:SER:H	2.31	0.43
2:Be:86:ASP:CB	2:Be:141:LYS:HA	2.49	0.43
2:Bg:152:TYR:CB	2:Bg:197:LEU:HD11	2.49	0.43
2:Bh:124:LEU:HD23	2:Bh:198:ILE:HA	2.00	0.43
2:Bi:83:LEU:HA	2:Bi:84:PRO:HA	1.60	0.43
2:Bi:86:ASP:CB	2:Bi:141:LYS:HA	2.49	0.43
2:Bl:86:ASP:CB	2:Bl:141:LYS:HA	2.49	0.43
2:Bp:156:SER:HB2	3:Cq:51:TYR:O	2.18	0.43
2:Br:86:ASP:CB	2:Br:141:LYS:HA	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Br:152:TYR:HB3	2:Br:197:LEU:HD11	2.01	0.43
2:Br:166:ARG:HB3	3:Cs:112:GLY:O	2.19	0.43
2:Bs:86:ASP:CB	2:Bs:141:LYS:HA	2.49	0.43
2:Bv:152:TYR:CB	2:Bv:197:LEU:HD11	2.49	0.43
2:Bx:152:TYR:CB	2:Bx:197:LEU:HD11	2.49	0.43
3:CB:175:THR:HG23	3:CB:176:VAL:N	2.34	0.43
3:CC:175:THR:HG23	3:CC:176:VAL:N	2.34	0.43
3:CE:74:PHE:HE2	3:CE:183:LEU:HD13	1.83	0.43
3:CH:175:THR:HG23	3:CH:176:VAL:N	2.34	0.43
3:CO:74:PHE:HE2	3:CO:183:LEU:HD13	1.84	0.43
3:CQ:175:THR:HG23	3:CQ:176:VAL:N	2.34	0.43
3:CT:175:THR:HG23	3:CT:176:VAL:N	2.34	0.43
3:CV:175:THR:HG23	3:CV:176:VAL:N	2.34	0.43
3:CW:175:THR:HG23	3:CW:176:VAL:N	2.34	0.43
3:Ck:76:MET:O	3:Ck:76:MET:HG3	2.18	0.43
3:Ck:175:THR:HG23	3:Ck:176:VAL:N	2.34	0.43
3:Cu:32:PRO:HG2	1:DG:165:ARG:HA	2.01	0.43
3:Cu:40:PHE:CD2	1:DG:221:PRO:HD3	2.54	0.43
3:Cu:175:THR:HG23	3:Cu:176:VAL:N	2.34	0.43
3:Cx:36:VAL:HA	3:Cx:37:PRO:HD3	1.64	0.43
1:AB:221:PRO:HD3	3:CB:40:PHE:CD1	2.54	0.42
1:AC:221:PRO:HD3	3:CC:40:PHE:CD1	2.54	0.42
1:AG:246:GLN:CD	1:AG:246:GLN:H	2.25	0.42
1:AK:87:GLN:HE21	1:AK:210:ARG:NH2	2.12	0.42
1:AL:207:CYS:O	1:AL:208:TYR:CB	2.57	0.42
1:AM:207:CYS:O	1:AM:208:TYR:CB	2.57	0.42
1:AS:202:HIS:C	1:AS:203:ASP:O	2.62	0.42
1:AZ:187:LEU:HA	1:AZ:188:PRO:HD2	1.95	0.42
1:A3:1:VAL:C	1:A3:3:ASN:H	2.24	0.42
1:A5:221:PRO:HD3	3:C6:40:PHE:CD2	2.54	0.42
1:A8:114:LYS:HB2	1:Ab:240:PRO:HG2	2.01	0.42
1:A8:209:LEU:HA	1:A8:209:LEU:HD22	1.74	0.42
1:Ab:1:VAL:C	1:Ab:3:ASN:H	2.24	0.42
1:Af:165:ARG:HA	3:Cg:32:PRO:HG2	2.00	0.42
1:Ai:114:LYS:HB2	1:Al:240:PRO:HG2	2.01	0.42
1:Ak:87:GLN:HE21	1:Ak:210:ARG:NH2	2.12	0.42
2:BE:166:ARG:HB3	3:CE:112:GLY:O	2.19	0.42
2:BF:166:ARG:HB3	3:CF:112:GLY:O	2.19	0.42
2:BI:137:GLU:O	2:BI:139:ALA:N	2.41	0.42
2:BK:152:TYR:HB3	2:BK:197:LEU:HD11	2.02	0.42
2:BL:86:ASP:CB	2:BL:141:LYS:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:86:ASP:CB	2:BM:141:LYS:HA	2.49	0.42
2:BN:86:ASP:CB	2:BN:141:LYS:HA	2.49	0.42
2:BQ:166:ARG:HB3	3:CS:112:GLY:O	2.19	0.42
2:BT:157:VAL:CG2	3:CT:50:THR:HG21	2.43	0.42
2:B3:84:PRO:CD	2:B3:85:SER:H	2.31	0.42
2:B5:85:SER:HB2	2:B5:190:ASN:ND2	2.31	0.42
2:Bb:166:ARG:HB3	3:Cc:112:GLY:O	2.19	0.42
2:Be:152:TYR:CB	2:Be:197:LEU:HD11	2.49	0.42
2:Bf:152:TYR:CB	2:Bf:197:LEU:HD11	2.49	0.42
2:Bf:166:ARG:HB3	3:Cg:112:GLY:O	2.19	0.42
2:Bj:166:ARG:HB3	3:Ck:112:GLY:O	2.19	0.42
2:Bk:166:ARG:HB3	3:Cl:112:GLY:O	2.19	0.42
2:Br:152:TYR:CB	2:Br:197:LEU:HD11	2.49	0.42
2:Br:156:SER:HB2	3:Cs:51:TYR:O	2.18	0.42
2:Bu:86:ASP:CB	2:Bu:141:LYS:HA	2.49	0.42
2:Bw:152:TYR:HB3	2:Bw:197:LEU:HD11	2.01	0.42
3:CA:44:ILE:HD12	3:CA:44:ILE:HA	1.88	0.42
3:CD:74:PHE:HE2	3:CD:183:LEU:HD13	1.84	0.42
3:CK:175:THR:HG23	3:CK:176:VAL:N	2.34	0.42
3:CO:44:ILE:HD12	3:CO:44:ILE:HA	1.88	0.42
3:CS:175:THR:HG23	3:CS:176:VAL:N	2.34	0.42
3:CY:175:THR:HG23	3:CY:176:VAL:N	2.34	0.42
3:CZ:175:THR:HG23	3:CZ:176:VAL:N	2.34	0.42
3:C7:128:HIS:O	3:C7:129:SER:C	2.61	0.42
3:Cd:74:PHE:HE2	3:Cd:183:LEU:HD13	1.83	0.42
3:Cd:175:THR:HG23	3:Cd:176:VAL:N	2.34	0.42
3:Cn:128:HIS:O	3:Cn:129:SER:C	2.61	0.42
3:Cq:61:TYR:CD1	3:Cq:61:TYR:C	2.98	0.42
3:Cs:76:MET:O	3:Cs:76:MET:HG3	2.18	0.42
3:Cs:175:THR:HG23	3:Cs:176:VAL:N	2.34	0.42
3:Ct:74:PHE:HE2	3:Ct:183:LEU:HD13	1.83	0.42
1:DC:114:LYS:HB2	1:DE:240:PRO:HG2	2.01	0.42
1:DJ:246:GLN:H	1:DJ:246:GLN:CD	2.25	0.42
1:DK:1:VAL:C	1:DK:3:ASN:H	2.24	0.42
1:AB:191:HIS:HD2	1:AB:193:GLY:N	2.08	0.42
1:AL:242:ASN:HD22	1:AM:110:GLY:N	2.09	0.42
1:AP:231:PRO:HG2	3:CQ:83:ALA:CB	2.48	0.42
1:AP:240:PRO:HG2	1:AS:114:LYS:HB2	2.01	0.42
1:AP:246:GLN:H	1:AP:246:GLN:CD	2.26	0.42
1:AQ:221:PRO:HD3	3:CR:40:PHE:CD1	2.54	0.42
1:AT:240:PRO:HG2	1:AU:114:LYS:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:240:PRO:HG2	1:AX:114:LYS:HB2	2.01	0.42
1:AY:246:GLN:H	1:AY:246:GLN:CD	2.26	0.42
1:A0:240:PRO:HG2	1:A1:114:LYS:HB2	2.01	0.42
1:A2:221:PRO:HD3	3:C3:40:PHE:CD2	2.54	0.42
1:A2:246:GLN:H	1:A2:246:GLN:CD	2.26	0.42
1:A3:221:PRO:HD3	3:C4:40:PHE:CD2	2.54	0.42
1:A8:165:ARG:HA	3:C9:32:PRO:HG2	2.01	0.42
1:Ab:165:ARG:HA	3:Cc:32:PRO:HG2	2.01	0.42
1:Ac:87:GLN:HE21	1:Ac:210:ARG:NH2	2.12	0.42
1:Ae:165:ARG:HA	3:Cf:32:PRO:HG2	2.00	0.42
1:Af:146:ILE:O	1:Af:147:ALA:CB	2.62	0.42
1:Aj:187:LEU:HD23	1:Aj:187:LEU:HA	1.91	0.42
1:Ak:26:VAL:HG11	3:Cm:28:LYS:HD3	2.00	0.42
1:Ak:246:GLN:CD	1:Ak:246:GLN:H	2.26	0.42
1:Al:165:ARG:HA	3:Cm:32:PRO:HG2	2.01	0.42
1:Am:209:LEU:HD22	1:Am:209:LEU:HA	1.74	0.42
1:An:26:VAL:HG11	3:Cp:28:LYS:HD3	2.00	0.42
1:Ao:26:VAL:HG11	3:Cs:28:LYS:HD3	2.00	0.42
1:Ao:221:PRO:HD3	3:Cp:40:PHE:CD2	2.54	0.42
1:Ao:231:PRO:HG2	3:Cp:83:ALA:CB	2.48	0.42
2:BB:152:TYR:HB3	2:BB:197:LEU:HD11	2.02	0.42
2:BI:124:LEU:HD23	2:BI:198:ILE:HA	2.00	0.42
2:BK:86:ASP:CB	2:BK:141:LYS:HA	2.49	0.42
2:BM:152:TYR:CB	2:BM:197:LEU:HD11	2.49	0.42
2:BO:166:ARG:HB3	3:CP:112:GLY:O	2.19	0.42
2:BS:86:ASP:CB	2:BS:141:LYS:HA	2.49	0.42
2:BP:166:ARG:HB3	3:CR:112:GLY:O	2.19	0.42
2:BY:152:TYR:HB3	2:BY:197:LEU:HD11	2.01	0.42
2:BZ:70:PRO:HG2	2:BZ:73:GLN:HB2	2.02	0.42
2:BZ:86:ASP:CB	2:BZ:141:LYS:HA	2.49	0.42
2:B2:86:ASP:CB	2:B2:141:LYS:HA	2.49	0.42
2:B6:152:TYR:CB	2:B6:197:LEU:HD11	2.49	0.42
2:Be:224:GLY:HA2	2:Be:225:PRO:HD2	1.81	0.42
2:Bg:166:ARG:HB3	3:Ch:112:GLY:O	2.19	0.42
2:Bi:166:ARG:HB3	3:Cj:112:GLY:O	2.19	0.42
2:Bk:86:ASP:CB	2:Bk:141:LYS:HA	2.49	0.42
2:Bl:166:ARG:HB3	3:Cm:112:GLY:O	2.19	0.42
2:Bm:115:ASN:HB3	2:Bm:210:PRO:HG2	2.01	0.42
2:Bn:152:TYR:CB	2:Bn:197:LEU:HD11	2.49	0.42
2:Bn:152:TYR:HB3	2:Bn:197:LEU:HD11	2.02	0.42
2:Bo:152:TYR:HB3	2:Bo:197:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:76:MET:O	3:CD:76:MET:HG3	2.18	0.42
3:CF:76:MET:O	3:CF:76:MET:HG3	2.18	0.42
3:CJ:40:PHE:CD1	1:DK:221:PRO:HD3	2.54	0.42
3:CP:76:MET:O	3:CP:76:MET:HG3	2.18	0.42
3:CX:74:PHE:HE2	3:CX:183:LEU:HD13	1.84	0.42
3:CY:76:MET:O	3:CY:76:MET:HG3	2.18	0.42
3:C2:150:LEU:HD12	3:C2:150:LEU:HA	1.79	0.42
3:C8:61:TYR:CD1	3:C8:61:TYR:C	2.97	0.42
3:C8:128:HIS:O	3:C8:129:SER:C	2.61	0.42
3:Cg:150:LEU:HD12	3:Cg:150:LEU:HA	1.79	0.42
3:Cn:175:THR:HG23	3:Cn:176:VAL:N	2.34	0.42
3:Co:74:PHE:HE2	3:Co:183:LEU:HD13	1.83	0.42
3:Co:175:THR:HG23	3:Co:176:VAL:N	2.34	0.42
3:Cr:175:THR:HG23	3:Cr:176:VAL:N	2.34	0.42
3:Cv:40:PHE:CD2	1:DH:221:PRO:HD3	2.54	0.42
1:DF:191:HIS:HD2	1:DF:193:GLY:N	2.08	0.42
1:DI:246:GLN:CD	1:DI:246:GLN:H	2.26	0.42
1:AA:191:HIS:HD2	1:AA:193:GLY:N	2.08	0.42
1:AD:207:CYS:O	1:AD:208:TYR:CB	2.57	0.42
1:AD:212:ARG:NH2	3:CD:18:VAL:O	2.46	0.42
1:AE:212:ARG:NH2	3:CE:18:VAL:O	2.46	0.42
1:AJ:165:ARG:HA	3:CK:32:PRO:HG2	2.00	0.42
1:AK:212:ARG:NH2	3:CL:18:VAL:O	2.46	0.42
1:AQ:110:GLY:N	1:AS:242:ASN:HD22	2.10	0.42
1:AT:165:ARG:HA	3:CU:32:PRO:HG2	2.01	0.42
1:AY:110:GLY:N	1:A1:242:ASN:HD22	2.10	0.42
1:AY:209:LEU:HA	1:AY:209:LEU:HD22	1.74	0.42
1:AZ:221:PRO:HD3	3:C0:40:PHE:CD2	2.54	0.42
1:A2:187:LEU:HD23	1:A2:187:LEU:HA	1.91	0.42
1:A6:209:LEU:HA	1:A6:209:LEU:HD22	1.74	0.42
1:A9:221:PRO:HD3	3:DA:40:PHE:CD1	2.54	0.42
1:Ac:165:ARG:HA	3:Cd:32:PRO:HG2	2.00	0.42
1:Ad:87:GLN:HE21	1:Ad:210:ARG:NH2	2.12	0.42
1:Ad:246:GLN:H	1:Ad:246:GLN:CD	2.26	0.42
1:Af:221:PRO:HD3	3:Cg:40:PHE:CD2	2.54	0.42
1:Ai:240:PRO:HG2	1:Aj:114:LYS:HB2	2.01	0.42
1:Aj:26:VAL:HG11	3:Cn:28:LYS:HD3	2.00	0.42
1:Aj:212:ARG:NH2	3:Ck:18:VAL:O	2.46	0.42
1:Am:165:ARG:HA	3:Cn:32:PRO:HG2	2.00	0.42
1:Am:219:TYR:CD2	3:Cn:36:VAL:HG22	2.53	0.42
1:Am:221:PRO:HD3	3:Cn:40:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:240:PRO:HG2	1:DE:114:LYS:HB2	2.01	0.42
2:BA:85:SER:HB2	2:BA:190:ASN:ND2	2.31	0.42
2:BC:152:TYR:CB	2:BC:197:LEU:HD11	2.49	0.42
2:BG:86:ASP:CB	2:BG:141:LYS:HA	2.49	0.42
2:BK:70:PRO:HG2	2:BK:73:GLN:HB2	2.02	0.42
2:BN:70:PRO:HG2	2:BN:73:GLN:HB2	2.01	0.42
2:BR:166:ARG:HB3	3:CO:112:GLY:O	2.19	0.42
2:BS:115:ASN:HB3	2:BS:210:PRO:HG2	2.02	0.42
2:BQ:84:PRO:CD	2:BQ:85:SER:H	2.31	0.42
2:BT:86:ASP:CB	2:BT:141:LYS:HA	2.49	0.42
2:BV:152:TYR:CB	2:BV:197:LEU:HD11	2.49	0.42
2:BZ:152:TYR:HB3	2:BZ:197:LEU:HD11	2.02	0.42
2:B4:85:SER:HB2	2:B4:190:ASN:ND2	2.31	0.42
2:Bb:85:SER:HB2	2:Bb:190:ASN:ND2	2.31	0.42
2:Bf:86:ASP:CB	2:Bf:141:LYS:HA	2.49	0.42
2:Bg:115:ASN:HB3	2:Bg:210:PRO:HG2	2.02	0.42
2:Bk:152:TYR:HB3	2:Bk:197:LEU:HD11	2.02	0.42
2:Bm:85:SER:HB2	2:Bm:190:ASN:ND2	2.31	0.42
2:Bm:152:TYR:CB	2:Bm:197:LEU:HD11	2.49	0.42
2:Bt:115:ASN:HB3	2:Bt:210:PRO:HG2	2.01	0.42
2:Bu:224:GLY:HA2	2:Bu:225:PRO:HD2	1.81	0.42
2:Bv:166:ARG:HB3	3:Cw:112:GLY:O	2.19	0.42
2:Bw:152:TYR:CB	2:Bw:197:LEU:HD11	2.49	0.42
2:Bx:70:PRO:HG2	2:Bx:73:GLN:HB2	2.01	0.42
3:CC:61:TYR:C	3:CC:61:TYR:CD1	2.98	0.42
3:CE:128:HIS:O	3:CE:129:SER:C	2.61	0.42
3:CH:61:TYR:CD1	3:CH:61:TYR:C	2.98	0.42
3:CI:175:THR:HG23	3:CI:176:VAL:N	2.34	0.42
3:CK:61:TYR:CD1	3:CK:61:TYR:C	2.97	0.42
3:CM:175:THR:HG23	3:CM:176:VAL:N	2.34	0.42
3:CS:74:PHE:HE2	3:CS:183:LEU:HD13	1.83	0.42
3:CT:74:PHE:HE2	3:CT:183:LEU:HD13	1.84	0.42
3:CU:76:MET:O	3:CU:76:MET:HG3	2.18	0.42
3:CU:150:LEU:HD12	3:CU:150:LEU:HA	1.79	0.42
3:CU:175:THR:HG23	3:CU:176:VAL:N	2.34	0.42
3:CX:175:THR:HG23	3:CX:176:VAL:N	2.34	0.42
3:CY:61:TYR:CD1	3:CY:61:TYR:C	2.98	0.42
3:C2:76:MET:O	3:C2:76:MET:HG3	2.18	0.42
3:C8:44:ILE:HD12	3:C8:44:ILE:HA	1.88	0.42
3:C8:175:THR:HG23	3:C8:176:VAL:N	2.34	0.42
3:C9:74:PHE:HE2	3:C9:183:LEU:HD13	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cc:74:PHE:HE2	3:Cc:183:LEU:HD13	1.84	0.42
3:Ce:61:TYR:C	3:Ce:61:TYR:CD1	2.98	0.42
3:Cf:61:TYR:CD1	3:Cf:61:TYR:C	2.98	0.42
3:Cg:61:TYR:CD1	3:Cg:61:TYR:C	2.98	0.42
3:Cq:128:HIS:O	3:Cq:129:SER:C	2.61	0.42
3:Cq:175:THR:HG23	3:Cq:176:VAL:N	2.34	0.42
3:Cs:32:PRO:HG2	1:DE:165:ARG:HA	2.00	0.42
3:Cs:74:PHE:HE2	3:Cs:183:LEU:HD13	1.83	0.42
3:Cu:128:HIS:O	3:Cu:129:SER:C	2.61	0.42
3:Cx:175:THR:HG23	3:Cx:176:VAL:N	2.34	0.42
3:DB:61:TYR:CD1	3:DB:61:TYR:C	2.98	0.42
1:DG:1:VAL:C	1:DG:3:ASN:H	2.24	0.42
1:AC:240:PRO:HG2	1:AD:114:LYS:HB2	2.01	0.42
1:AD:191:HIS:HD2	1:AD:193:GLY:N	2.08	0.42
1:AF:79:PHE:CD1	1:AF:79:PHE:C	2.96	0.42
1:AH:240:PRO:HG2	1:AI:114:LYS:HB2	2.01	0.42
1:AI:165:ARG:HA	3:CI:32:PRO:HG2	2.01	0.42
1:AK:1:VAL:C	1:AK:3:ASN:H	2.24	0.42
1:AM:221:PRO:HD3	3:CN:40:PHE:CD1	2.54	0.42
1:AO:240:PRO:HG2	1:AP:114:LYS:HB2	2.01	0.42
1:AT:1:VAL:C	1:AT:3:ASN:H	2.24	0.42
1:AU:26:VAL:HG11	3:CY:28:LYS:HD3	2.00	0.42
1:AU:191:HIS:HD2	1:AU:193:GLY:N	2.08	0.42
1:A3:165:ARG:HA	3:C4:32:PRO:HG2	2.01	0.42
1:A7:26:VAL:HG11	3:C6:28:LYS:HD3	2.00	0.42
1:Ac:191:HIS:HD2	1:Ac:193:GLY:N	2.09	0.42
1:Ae:26:VAL:HG11	3:Ci:28:LYS:HD3	2.00	0.42
1:Af:191:HIS:HD2	1:Af:193:GLY:N	2.08	0.42
1:Ak:187:LEU:HD23	1:Ak:187:LEU:HA	1.91	0.42
1:An:209:LEU:HD22	1:An:209:LEU:HA	1.74	0.42
2:BC:152:TYR:HB3	2:BC:197:LEU:HD11	2.02	0.42
2:BD:83:LEU:HA	2:BD:84:PRO:HA	1.60	0.42
2:BE:115:ASN:HB3	2:BE:210:PRO:HG2	2.02	0.42
2:BE:152:TYR:CB	2:BE:197:LEU:HD11	2.49	0.42
2:BG:224:GLY:HA2	2:BG:225:PRO:HD2	1.81	0.42
2:BI:152:TYR:HB3	2:BI:197:LEU:HD11	2.02	0.42
2:BL:115:ASN:HB3	2:BL:210:PRO:HG2	2.02	0.42
2:BS:83:LEU:HA	2:BS:84:PRO:HA	1.60	0.42
2:BP:86:ASP:CB	2:BP:141:LYS:HA	2.49	0.42
2:BT:152:TYR:HB3	2:BT:197:LEU:HD11	2.02	0.42
2:BU:86:ASP:CB	2:BU:141:LYS:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BY:70:PRO:HG2	2:BY:73:GLN:HB2	2.02	0.42
2:BZ:152:TYR:CB	2:BZ:197:LEU:HD11	2.49	0.42
2:B2:70:PRO:HG2	2:B2:73:GLN:HB2	2.01	0.42
2:B2:115:ASN:HB3	2:B2:210:PRO:HG2	2.02	0.42
2:B9:152:TYR:HB3	2:B9:197:LEU:HD11	2.02	0.42
2:Be:152:TYR:HB3	2:Be:197:LEU:HD11	2.02	0.42
2:Bh:70:PRO:HG2	2:Bh:73:GLN:HB2	2.01	0.42
2:Bi:152:TYR:CB	2:Bi:197:LEU:HD11	2.49	0.42
2:Bm:86:ASP:CB	2:Bm:141:LYS:HA	2.49	0.42
2:Bn:86:ASP:CB	2:Bn:141:LYS:HA	2.49	0.42
2:Bp:115:ASN:HB3	2:Bp:210:PRO:HG2	2.02	0.42
2:Bp:224:GLY:HA2	2:Bp:225:PRO:HD2	1.81	0.42
2:Bv:86:ASP:CB	2:Bv:141:LYS:HA	2.49	0.42
3:CA:61:TYR:CD1	3:CA:61:TYR:C	2.98	0.42
3:CB:148:VAL:CG1	3:CB:149:GLY:N	2.83	0.42
3:CD:61:TYR:CD1	3:CD:61:TYR:C	2.98	0.42
3:CD:175:THR:HG23	3:CD:176:VAL:N	2.34	0.42
3:CH:44:ILE:HD12	3:CH:44:ILE:HA	1.88	0.42
3:CP:61:TYR:CD1	3:CP:61:TYR:C	2.97	0.42
3:CQ:61:TYR:C	3:CQ:61:TYR:CD1	2.98	0.42
3:CT:61:TYR:C	3:CT:61:TYR:CD1	2.98	0.42
3:Ch:148:VAL:CG1	3:Ch:149:GLY:N	2.83	0.42
3:Cl:61:TYR:CD1	3:Cl:61:TYR:C	2.98	0.42
3:Cm:74:PHE:HE2	3:Cm:183:LEU:HD13	1.84	0.42
3:Co:61:TYR:CD1	3:Co:61:TYR:C	2.97	0.42
3:Cp:150:LEU:HD12	3:Cp:150:LEU:HA	1.79	0.42
3:Cr:61:TYR:CD1	3:Cr:61:TYR:C	2.98	0.42
3:Ct:175:THR:HG23	3:Ct:176:VAL:N	2.34	0.42
3:Cx:40:PHE:CD2	1:DJ:221:PRO:HD3	2.54	0.42
1:DF:1:VAL:C	1:DF:3:ASN:H	2.24	0.42
1:AA:187:LEU:HD23	1:AA:187:LEU:HA	1.91	0.42
1:AB:240:PRO:HG2	1:AE:114:LYS:HB2	2.01	0.42
1:AD:174:TRP:CH2	2:BD:139:ALA:HB3	2.55	0.42
1:AE:165:ARG:HA	3:CE:32:PRO:HG2	2.00	0.42
1:AF:240:PRO:HG2	1:AG:114:LYS:HB2	2.01	0.42
1:AH:114:LYS:HB2	1:DK:240:PRO:HG2	2.01	0.42
1:AK:225:PRO:HA	1:AK:226:PRO:HD3	1.78	0.42
1:AP:74:THR:HG21	3:CQ:43:PHE:CE1	2.45	0.42
1:AR:26:VAL:HG11	3:CP:28:LYS:HD3	2.00	0.42
1:AS:225:PRO:HA	1:AS:226:PRO:HD3	1.78	0.42
1:AW:220:CYS:HA	1:AW:221:PRO:HD2	1.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:1:VAL:C	1:AX:3:ASN:H	2.24	0.42
1:A1:1:VAL:C	1:A1:3:ASN:H	2.24	0.42
1:A5:1:VAL:C	1:A5:3:ASN:H	2.24	0.42
1:A5:246:GLN:CD	1:A5:246:GLN:H	2.26	0.42
1:Aa:26:VAL:HG11	3:Cc:28:LYS:HD3	2.00	0.42
1:Aa:221:PRO:HD3	3:DB:40:PHE:CD1	2.54	0.42
1:Ab:219:TYR:CD2	3:Cc:36:VAL:HG22	2.53	0.42
1:Ae:174:TRP:CH2	2:Be:139:ALA:HB3	2.55	0.42
1:Ag:212:ARG:NH2	3:Ch:18:VAL:O	2.46	0.42
1:Ai:221:PRO:HD3	3:Cj:40:PHE:CD2	2.54	0.42
1:Aj:191:HIS:HD2	1:Aj:193:GLY:N	2.08	0.42
1:Am:26:VAL:HG11	3:Cl:28:LYS:HD3	2.00	0.42
1:An:221:PRO:HD3	3:Co:40:PHE:CD2	2.54	0.42
2:BA:86:ASP:CB	2:BA:141:LYS:HA	2.49	0.42
2:BA:152:TYR:HB3	2:BA:197:LEU:HD11	2.02	0.42
2:BB:86:ASP:CB	2:BB:141:LYS:HA	2.49	0.42
2:BC:115:ASN:HB3	2:BC:210:PRO:HG2	2.02	0.42
2:BJ:115:ASN:HB3	2:BJ:210:PRO:HG2	2.02	0.42
2:BM:115:ASN:HB3	2:BM:210:PRO:HG2	2.02	0.42
2:BS:152:TYR:CB	2:BS:197:LEU:HD11	2.49	0.42
2:BT:152:TYR:CB	2:BT:197:LEU:HD11	2.49	0.42
2:BU:115:ASN:HB3	2:BU:210:PRO:HG2	2.02	0.42
2:BW:152:TYR:CB	2:BW:197:LEU:HD11	2.49	0.42
2:B0:70:PRO:HG2	2:B0:73:GLN:HB2	2.01	0.42
2:B4:152:TYR:HB3	2:B4:197:LEU:HD11	2.01	0.42
2:B5:152:TYR:HB3	2:B5:197:LEU:HD11	2.01	0.42
2:Bb:152:TYR:CB	2:Bb:197:LEU:HD11	2.49	0.42
2:Bc:166:ARG:HB3	3:Cd:112:GLY:O	2.19	0.42
2:Bf:152:TYR:HB3	2:Bf:197:LEU:HD11	2.01	0.42
2:Bh:152:TYR:HB3	2:Bh:197:LEU:HD11	2.01	0.42
2:Bp:152:TYR:CB	2:Bp:197:LEU:HD11	2.49	0.42
2:Br:115:ASN:HB3	2:Br:210:PRO:HG2	2.02	0.42
2:Bu:152:TYR:CB	2:Bu:197:LEU:HD11	2.49	0.42
2:Bu:166:ARG:HB3	3:Cv:112:GLY:O	2.19	0.42
3:CD:148:VAL:CG1	3:CD:149:GLY:N	2.83	0.42
3:CE:148:VAL:CG1	3:CE:149:GLY:N	2.83	0.42
3:CF:61:TYR:C	3:CF:61:TYR:CD1	2.97	0.42
3:CG:148:VAL:CG1	3:CG:149:GLY:N	2.83	0.42
3:CJ:32:PRO:HG2	1:DK:165:ARG:HA	2.01	0.42
3:CL:61:TYR:CD1	3:CL:61:TYR:C	2.98	0.42
3:CO:61:TYR:CD1	3:CO:61:TYR:C	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:74:PHE:HE2	3:CP:183:LEU:HD13	1.84	0.42
3:CX:128:HIS:O	3:CX:129:SER:C	2.61	0.42
3:C0:148:VAL:CG1	3:C0:149:GLY:N	2.83	0.42
3:C1:150:LEU:HA	3:C1:150:LEU:HD12	1.79	0.42
3:C5:150:LEU:HD12	3:C5:150:LEU:HA	1.79	0.42
3:C6:61:TYR:CD1	3:C6:61:TYR:C	2.98	0.42
3:C9:148:VAL:CG1	3:C9:149:GLY:N	2.83	0.42
3:Cf:175:THR:HG23	3:Cf:176:VAL:N	2.34	0.42
3:Ck:61:TYR:CD1	3:Ck:61:TYR:C	2.98	0.42
3:Cm:175:THR:HG23	3:Cm:176:VAL:N	2.34	0.42
3:Cw:61:TYR:CD1	3:Cw:61:TYR:C	2.97	0.42
1:DK:87:GLN:HE21	1:DK:210:ARG:NH2	2.12	0.42
1:AA:165:ARG:HA	3:CA:32:PRO:HG2	2.00	0.42
1:AB:26:VAL:HG11	3:CE:28:LYS:HD3	2.00	0.42
1:AE:174:TRP:CH2	2:BE:139:ALA:HB3	2.55	0.42
1:AI:174:TRP:CH2	2:BI:139:ALA:HB3	2.55	0.42
1:AL:165:ARG:HA	3:CM:32:PRO:HG2	2.01	0.42
1:AM:26:VAL:HG11	3:CK:28:LYS:HD3	2.00	0.42
1:AO:114:LYS:HB2	1:AR:240:PRO:HG2	2.01	0.42
1:AQ:246:GLN:CD	1:AQ:246:GLN:H	2.26	0.42
1:AW:212:ARG:NH2	3:CX:18:VAL:O	2.46	0.42
1:AY:174:TRP:CH2	2:BZ:139:ALA:HB3	2.55	0.42
1:AZ:174:TRP:CH2	2:B0:139:ALA:HB3	2.55	0.42
1:A1:165:ARG:HA	3:C2:32:PRO:HG2	2.01	0.42
1:A1:221:PRO:HD3	3:C2:40:PHE:CD2	2.54	0.42
1:A3:114:LYS:HB2	1:A6:240:PRO:HG2	2.01	0.42
1:A9:72:LEU:HD23	1:A9:72:LEU:HA	1.82	0.42
1:A9:240:PRO:HG2	1:Ac:114:LYS:HB2	2.01	0.42
1:Ab:221:PRO:HD3	3:Cc:40:PHE:CD2	2.54	0.42
1:Ah:165:ARG:HA	3:Ci:32:PRO:HG2	2.00	0.42
1:Ah:174:TRP:CH2	2:Bh:139:ALA:HB3	2.55	0.42
1:Ao:174:TRP:CH2	2:Bo:139:ALA:HB3	2.55	0.42
2:BB:70:PRO:HG2	2:BB:73:GLN:HB2	2.01	0.42
2:BD:152:TYR:HB3	2:BD:197:LEU:HD11	2.01	0.42
2:BE:86:ASP:CB	2:BE:141:LYS:HA	2.49	0.42
2:BF:83:LEU:HA	2:BF:84:PRO:HA	1.60	0.42
2:BI:70:PRO:HG2	2:BI:73:GLN:HB2	2.02	0.42
2:BS:152:TYR:HB3	2:BS:197:LEU:HD11	2.02	0.42
2:BP:152:TYR:HB3	2:BP:197:LEU:HD11	2.02	0.42
2:BV:70:PRO:HG2	2:BV:73:GLN:HB2	2.02	0.42
2:BW:86:ASP:CB	2:BW:141:LYS:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:115:ASN:HB3	2:BW:210:PRO:HG2	2.02	0.42
2:BZ:115:ASN:HB3	2:BZ:210:PRO:HG2	2.02	0.42
2:B0:115:ASN:HB3	2:B0:210:PRO:HG2	2.02	0.42
2:B3:152:TYR:CB	2:B3:197:LEU:HD11	2.49	0.42
2:B5:166:ARG:HB3	3:C6:112:GLY:O	2.19	0.42
2:B8:86:ASP:CB	2:B8:141:LYS:HA	2.49	0.42
2:B9:166:ARG:HB3	3:DA:112:GLY:O	2.19	0.42
2:Bd:152:TYR:HB3	2:Bd:197:LEU:HD11	2.01	0.42
2:Bh:152:TYR:CB	2:Bh:197:LEU:HD11	2.49	0.42
2:Bl:115:ASN:HB3	2:Bl:210:PRO:HG2	2.02	0.42
2:Bo:70:PRO:HG2	2:Bo:73:GLN:HB2	2.02	0.42
2:Bo:86:ASP:CB	2:Bo:141:LYS:HA	2.49	0.42
2:Bo:152:TYR:CB	2:Bo:197:LEU:HD11	2.49	0.42
2:Bp:152:TYR:HB3	2:Bp:197:LEU:HD11	2.02	0.42
2:Bq:152:TYR:HB3	2:Bq:197:LEU:HD11	2.01	0.42
2:Bs:152:TYR:CB	2:Bs:197:LEU:HD11	2.49	0.42
2:Bu:70:PRO:HG2	2:Bu:73:GLN:HB2	2.01	0.42
2:Bu:152:TYR:HB3	2:Bu:197:LEU:HD11	2.01	0.42
2:Bw:70:PRO:HG2	2:Bw:73:GLN:HB2	2.02	0.42
3:CA:110:PHE:CD2	3:CA:148:VAL:HG11	2.55	0.42
3:CA:148:VAL:CG1	3:CA:149:GLY:N	2.83	0.42
3:CH:128:HIS:O	3:CH:129:SER:C	2.61	0.42
3:CN:150:LEU:HD12	3:CN:150:LEU:HA	1.79	0.42
3:CT:128:HIS:O	3:CT:129:SER:C	2.61	0.42
3:CZ:110:PHE:CD2	3:CZ:148:VAL:HG11	2.55	0.42
3:C0:74:PHE:HE2	3:C0:183:LEU:HD13	1.84	0.42
3:C0:175:THR:HG23	3:C0:176:VAL:N	2.34	0.42
3:C3:61:TYR:CD1	3:C3:61:TYR:C	2.97	0.42
3:C5:44:ILE:HD12	3:C5:44:ILE:HA	1.87	0.42
3:C5:61:TYR:C	3:C5:61:TYR:CD1	2.97	0.42
3:C5:175:THR:HG23	3:C5:176:VAL:N	2.34	0.42
3:C7:74:PHE:HE2	3:C7:183:LEU:HD13	1.84	0.42
3:C7:110:PHE:CD2	3:C7:148:VAL:HG11	2.55	0.42
3:C9:110:PHE:CD2	3:C9:148:VAL:HG11	2.55	0.42
3:Cc:128:HIS:O	3:Cc:129:SER:C	2.61	0.42
3:Cd:76:MET:O	3:Cd:76:MET:HG3	2.18	0.42
3:Ce:175:THR:HG23	3:Ce:176:VAL:N	2.34	0.42
3:Cg:148:VAL:CG1	3:Cg:149:GLY:N	2.83	0.42
3:Cm:36:VAL:HA	3:Cm:37:PRO:HD3	1.64	0.42
3:Cm:110:PHE:CD2	3:Cm:148:VAL:HG11	2.55	0.42
3:Cn:61:TYR:CD1	3:Cn:61:TYR:C	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cn:110:PHE:CD2	3:Cn:148:VAL:HG11	2.55	0.42
3:Cq:40:PHE:CD2	1:DC:221:PRO:HD3	2.54	0.42
3:Cr:74:PHE:HE2	3:Cr:183:LEU:HD13	1.83	0.42
3:Cr:110:PHE:CD2	3:Cr:148:VAL:HG11	2.55	0.42
3:Ct:61:TYR:CD1	3:Ct:61:TYR:C	2.97	0.42
3:Ct:148:VAL:CG1	3:Ct:149:GLY:N	2.83	0.42
3:DA:61:TYR:CD1	3:DA:61:TYR:C	2.98	0.42
3:DA:74:PHE:HE2	3:DA:183:LEU:HD13	1.84	0.42
3:DA:148:VAL:CG1	3:DA:149:GLY:N	2.83	0.42
3:DB:76:MET:O	3:DB:76:MET:HG3	2.18	0.42
1:DF:240:PRO:HG2	1:DG:114:LYS:HB2	2.01	0.42
1:DH:240:PRO:HG2	1:DI:114:LYS:HB2	2.01	0.42
1:AA:221:PRO:HD3	3:CA:40:PHE:CD1	2.54	0.42
1:AB:242:ASN:HD22	1:AE:110:GLY:N	2.10	0.42
1:AD:146:ILE:O	1:AD:147:ALA:CB	2.62	0.42
1:AH:26:VAL:HG11	3:CI:28:LYS:HD3	2.00	0.42
1:AJ:114:LYS:HB2	1:AM:240:PRO:HG2	2.01	0.42
1:AL:146:ILE:O	1:AL:147:ALA:CB	2.62	0.42
1:AL:174:TRP:CH2	2:BM:139:ALA:HB3	2.55	0.42
1:AO:242:ASN:HD22	1:AP:110:GLY:N	2.10	0.42
1:AT:221:PRO:HD3	3:CU:40:PHE:CD2	2.54	0.42
1:AU:1:VAL:C	1:AU:3:ASN:H	2.24	0.42
1:AU:165:ARG:HA	3:CV:32:PRO:HG2	2.01	0.42
1:AU:221:PRO:HD3	3:CV:40:PHE:CD2	2.54	0.42
1:AU:231:PRO:HG2	3:CV:83:ALA:CB	2.48	0.42
1:AV:240:PRO:HG2	1:AW:114:LYS:HB2	2.01	0.42
1:AX:174:TRP:CH2	2:BY:139:ALA:HB3	2.55	0.42
1:AY:221:PRO:HD3	3:CZ:40:PHE:CD2	2.54	0.42
1:A5:114:LYS:HB2	1:A7:240:PRO:HG2	2.01	0.42
1:A9:174:TRP:CH2	2:B9:139:ALA:HB3	2.55	0.42
1:Aa:202:HIS:C	1:Aa:203:ASP:O	2.62	0.42
1:Aa:225:PRO:HA	1:Aa:226:PRO:HD3	1.78	0.42
1:Ad:114:LYS:HB2	1:Ag:240:PRO:HG2	2.01	0.42
1:Ae:221:PRO:HD3	3:Cf:40:PHE:CD2	2.54	0.42
1:Ae:240:PRO:HG2	1:Ah:114:LYS:HB2	2.01	0.42
1:Af:212:ARG:NH2	3:Cg:18:VAL:O	2.46	0.42
1:Ag:26:VAL:HG11	3:Ce:28:LYS:HD3	2.00	0.42
1:Aj:202:HIS:C	1:Aj:203:ASP:O	2.62	0.42
1:Aj:240:PRO:HG2	1:Am:114:LYS:HB2	2.01	0.42
2:BD:152:TYR:CB	2:BD:197:LEU:HD11	2.49	0.42
2:BI:152:TYR:CB	2:BI:197:LEU:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:124:LEU:HD23	2:BN:198:ILE:HA	2.00	0.42
2:BN:152:TYR:CB	2:BN:197:LEU:HD11	2.49	0.42
2:BO:152:TYR:HB3	2:BO:197:LEU:HD11	2.02	0.42
2:BQ:152:TYR:CB	2:BQ:197:LEU:HD11	2.49	0.42
2:BQ:152:TYR:HB3	2:BQ:197:LEU:HD11	2.02	0.42
2:BT:70:PRO:HG2	2:BT:73:GLN:HB2	2.01	0.42
2:BW:166:ARG:HB3	3:CW:112:GLY:O	2.19	0.42
2:BX:115:ASN:HB3	2:BX:210:PRO:HG2	2.02	0.42
2:B1:70:PRO:HG2	2:B1:73:GLN:HB2	2.01	0.42
2:B2:149:ALA:O	2:B2:153:GLN:HG3	2.20	0.42
2:B4:149:ALA:O	2:B4:153:GLN:HG3	2.20	0.42
2:B4:152:TYR:CB	2:B4:197:LEU:HD11	2.49	0.42
2:B8:115:ASN:HB3	2:B8:210:PRO:HG2	2.02	0.42
2:B8:124:LEU:HD23	2:B8:198:ILE:HA	2.00	0.42
2:B9:70:PRO:HG2	2:B9:73:GLN:HB2	2.02	0.42
2:B9:149:ALA:O	2:B9:153:GLN:HG3	2.20	0.42
2:Bb:152:TYR:HB3	2:Bb:197:LEU:HD11	2.01	0.42
2:Bc:70:PRO:HG2	2:Bc:73:GLN:HB2	2.01	0.42
2:Bg:152:TYR:HB3	2:Bg:197:LEU:HD11	2.01	0.42
2:Bh:149:ALA:O	2:Bh:153:GLN:HG3	2.20	0.42
2:Bj:152:TYR:CB	2:Bj:197:LEU:HD11	2.49	0.42
2:Bl:70:PRO:HG2	2:Bl:73:GLN:HB2	2.02	0.42
2:Bo:115:ASN:HB3	2:Bo:210:PRO:HG2	2.02	0.42
2:Bs:139:ALA:HB3	1:DF:174:TRP:CH2	2.55	0.42
3:CG:110:PHE:CD2	3:CG:148:VAL:HG11	2.55	0.42
3:CG:128:HIS:O	3:CG:129:SER:C	2.61	0.42
3:Cl:61:TYR:CD1	3:Cl:61:TYR:C	2.98	0.42
3:CJ:175:THR:HG23	3:CJ:176:VAL:N	2.34	0.42
3:CM:44:ILE:HD12	3:CM:44:ILE:HA	1.88	0.42
3:CN:175:THR:HG23	3:CN:176:VAL:N	2.34	0.42
3:CP:148:VAL:CG1	3:CP:149:GLY:N	2.83	0.42
3:CX:61:TYR:CD1	3:CX:61:TYR:C	2.98	0.42
3:C6:175:THR:HG23	3:C6:176:VAL:N	2.34	0.42
3:C9:128:HIS:O	3:C9:129:SER:C	2.61	0.42
3:Ce:110:PHE:CD2	3:Ce:148:VAL:HG11	2.55	0.42
3:Ci:110:PHE:CD2	3:Ci:148:VAL:HG11	2.55	0.42
3:Ck:150:LEU:HA	3:Ck:150:LEU:HD12	1.79	0.42
3:Cq:32:PRO:HG2	1:DC:165:ARG:HA	2.01	0.42
3:Cr:18:VAL:O	1:DD:212:ARG:NH2	2.46	0.42
3:Ct:128:HIS:O	3:Ct:129:SER:C	2.61	0.42
3:Cu:74:PHE:HE2	3:Cu:183:LEU:HD13	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cv:61:TYR:CD1	3:Cv:61:TYR:C	2.98	0.42
1:DC:240:PRO:HG2	1:DD:114:LYS:HB2	2.01	0.42
1:DI:92:THR:CG2	1:DI:93:THR:H	2.26	0.42
1:AD:221:PRO:HD3	3:CD:40:PHE:CD1	2.54	0.42
1:AD:231:PRO:HG2	3:CD:83:ALA:CB	2.48	0.42
1:AH:209:LEU:HA	1:AH:209:LEU:HD22	1.74	0.42
1:AJ:202:HIS:C	1:AJ:203:ASP:O	2.62	0.42
1:AJ:221:PRO:HD3	3:CK:40:PHE:CD1	2.54	0.42
1:AL:221:PRO:HD3	3:CM:40:PHE:CD1	2.54	0.42
1:AM:231:PRO:HG2	3:CN:83:ALA:CB	2.48	0.42
1:AN:231:PRO:HG2	3:CO:83:ALA:CB	2.48	0.42
1:AR:221:PRO:HD3	3:CS:40:PHE:CD2	2.54	0.42
1:AT:212:ARG:NH2	3:CU:18:VAL:O	2.46	0.42
1:AY:72:LEU:HD23	1:AY:72:LEU:HA	1.82	0.42
1:A1:174:TRP:CH2	2:B2:139:ALA:HB3	2.55	0.42
1:A2:202:HIS:C	1:A2:203:ASP:O	2.62	0.42
1:A3:174:TRP:CH2	2:B4:139:ALA:HB3	2.55	0.42
1:A7:174:TRP:CH2	2:B7:139:ALA:HB3	2.55	0.42
1:A8:110:GLY:N	1:Ab:242:ASN:HD22	2.10	0.42
1:A8:212:ARG:NH2	3:C9:18:VAL:O	2.46	0.42
1:Aa:240:PRO:HG2	1:Ab:114:LYS:HB2	2.01	0.42
1:Ab:174:TRP:CH2	2:Bb:139:ALA:HB3	2.55	0.42
1:Ad:165:ARG:HA	3:Ce:32:PRO:HG2	2.00	0.42
1:Ae:231:PRO:HG2	3:Cf:83:ALA:CB	2.48	0.42
1:Af:26:VAL:HG11	3:Ch:28:LYS:HD3	2.00	0.42
1:Aj:174:TRP:CH2	2:Bj:139:ALA:HB3	2.55	0.42
1:Am:174:TRP:CH2	2:Bm:139:ALA:HB3	2.55	0.42
2:BD:115:ASN:HB3	2:BD:210:PRO:HG2	2.02	0.42
2:BE:70:PRO:HG2	2:BE:73:GLN:HB2	2.02	0.42
2:BG:115:ASN:HB3	2:BG:210:PRO:HG2	2.02	0.42
2:BJ:139:ALA:HB3	1:DK:174:TRP:CH2	2.55	0.42
2:BL:152:TYR:CB	2:BL:197:LEU:HD11	2.49	0.42
2:BR:115:ASN:HB3	2:BR:210:PRO:HG2	2.02	0.42
2:BO:86:ASP:CB	2:BO:141:LYS:HA	2.49	0.42
2:BO:115:ASN:HB3	2:BO:210:PRO:HG2	2.02	0.42
2:BV:224:GLY:HA2	2:BV:225:PRO:HD2	1.81	0.42
2:B3:85:SER:HB2	2:B3:190:ASN:ND2	2.31	0.42
2:B4:86:ASP:CB	2:B4:141:LYS:HA	2.49	0.42
2:B6:70:PRO:HG2	2:B6:73:GLN:HB2	2.02	0.42
2:Bb:70:PRO:HG2	2:Bb:73:GLN:HB2	2.02	0.42
2:Bc:115:ASN:HB3	2:Bc:210:PRO:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bd:115:ASN:HB3	2:Bd:210:PRO:HG2	2.02	0.42
2:Be:70:PRO:HG2	2:Be:73:GLN:HB2	2.02	0.42
2:Bh:86:ASP:CB	2:Bh:141:LYS:HA	2.49	0.42
2:Bj:70:PRO:HG2	2:Bj:73:GLN:HB2	2.02	0.42
2:Bk:152:TYR:CB	2:Bk:197:LEU:HD11	2.49	0.42
2:Bm:149:ALA:O	2:Bm:153:GLN:HG3	2.20	0.42
2:Bq:139:ALA:HB3	1:DD:174:TRP:CH2	2.55	0.42
2:Bq:157:VAL:CG2	3:Cr:50:THR:HG21	2.43	0.42
2:Br:149:ALA:O	2:Br:153:GLN:HG3	2.20	0.42
2:Bv:139:ALA:HB3	1:DI:174:TRP:CH2	2.55	0.42
2:Bv:152:TYR:HB3	2:Bv:197:LEU:HD11	2.01	0.42
2:Bw:139:ALA:HB3	1:DJ:174:TRP:CH2	2.55	0.42
3:CE:175:THR:HG23	3:CE:176:VAL:N	2.34	0.42
3:CI:110:PHE:CD2	3:CI:148:VAL:HG11	2.55	0.42
3:CJ:61:TYR:CD1	3:CJ:61:TYR:C	2.98	0.42
3:CJ:110:PHE:CD2	3:CJ:148:VAL:HG11	2.55	0.42
3:CO:110:PHE:CD2	3:CO:148:VAL:HG11	2.55	0.42
3:CR:61:TYR:CD1	3:CR:61:TYR:C	2.98	0.42
3:CV:76:MET:O	3:CV:76:MET:HG3	2.18	0.42
3:CY:110:PHE:CD2	3:CY:148:VAL:HG11	2.55	0.42
3:C1:61:TYR:CD1	3:C1:61:TYR:C	2.98	0.42
3:C2:175:THR:HG23	3:C2:176:VAL:N	2.34	0.42
3:C3:76:MET:O	3:C3:76:MET:HG3	2.18	0.42
3:C3:175:THR:HG23	3:C3:176:VAL:N	2.34	0.42
3:C7:148:VAL:CG1	3:C7:149:GLY:N	2.83	0.42
3:Cc:110:PHE:CD2	3:Cc:148:VAL:HG11	2.55	0.42
3:Cf:76:MET:O	3:Cf:76:MET:HG3	2.18	0.42
3:Ch:110:PHE:CD2	3:Ch:148:VAL:HG11	2.55	0.42
3:Ct:76:MET:O	3:Ct:76:MET:HG3	2.18	0.42
3:Ct:110:PHE:CD2	3:Ct:148:VAL:HG11	2.55	0.42
1:AE:225:PRO:HA	1:AE:226:PRO:HD3	1.78	0.42
1:AF:212:ARG:NH2	3:CF:18:VAL:O	2.46	0.42
1:AI:187:LEU:HD23	1:AI:187:LEU:HA	1.91	0.42
1:AJ:225:PRO:HA	1:AJ:226:PRO:HD3	1.78	0.42
1:AL:87:GLN:HE21	1:AL:210:ARG:NH2	2.11	0.42
1:AN:221:PRO:HD3	3:CO:40:PHE:CD1	2.54	0.42
1:AQ:207:CYS:O	1:AQ:208:TYR:CB	2.57	0.42
1:AR:231:PRO:HG2	3:CS:83:ALA:CB	2.48	0.42
1:AY:165:ARG:HA	3:CZ:32:PRO:HG2	2.00	0.42
1:A0:114:LYS:HB2	1:A2:240:PRO:HG2	2.01	0.42
1:A2:174:TRP:CH2	2:B3:139:ALA:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:231:PRO:HG2	3:C5:83:ALA:CB	2.48	0.42
1:A4:240:PRO:HG2	1:A7:114:LYS:HB2	2.01	0.42
1:Aa:114:LYS:HB2	1:Ac:240:PRO:HG2	2.01	0.42
1:Ab:187:LEU:HA	1:Ab:188:PRO:HD2	1.95	0.42
1:Af:209:LEU:HD22	1:Af:209:LEU:HA	1.74	0.42
1:Ag:221:PRO:HD3	3:Ch:40:PHE:CD2	2.54	0.42
1:Ai:202:HIS:C	1:Ai:203:ASP:O	2.62	0.42
1:Al:174:TRP:CH2	2:Bl:139:ALA:HB3	2.55	0.42
1:Am:87:GLN:HE21	1:Am:210:ARG:NH2	2.12	0.42
2:BB:152:TYR:CB	2:BB:197:LEU:HD11	2.49	0.42
2:BE:149:ALA:O	2:BE:153:GLN:HG3	2.20	0.42
2:BH:152:TYR:HB3	2:BH:197:LEU:HD11	2.02	0.42
2:BK:85:SER:HB2	2:BK:190:ASN:ND2	2.31	0.42
2:BS:85:SER:HB2	2:BS:190:ASN:ND2	2.32	0.42
2:BP:70:PRO:HG2	2:BP:73:GLN:HB2	2.02	0.42
2:BP:115:ASN:HB3	2:BP:210:PRO:HG2	2.02	0.42
2:BP:152:TYR:CB	2:BP:197:LEU:HD11	2.49	0.42
2:BP:157:VAL:CG2	3:CR:50:THR:HG21	2.42	0.42
2:BU:149:ALA:O	2:BU:153:GLN:HG3	2.20	0.42
2:B5:115:ASN:HB3	2:B5:210:PRO:HG2	2.02	0.42
2:B6:115:ASN:HB3	2:B6:210:PRO:HG2	2.02	0.42
2:Ba:115:ASN:HB3	2:Ba:210:PRO:HG2	2.02	0.42
2:Bd:86:ASP:CB	2:Bd:141:LYS:HA	2.49	0.42
2:Bh:115:ASN:HB3	2:Bh:210:PRO:HG2	2.02	0.42
2:Bk:70:PRO:HG2	2:Bk:73:GLN:HB2	2.02	0.42
2:Bk:115:ASN:HB3	2:Bk:210:PRO:HG2	2.02	0.42
2:Bn:166:ARG:HB3	3:Co:112:GLY:O	2.19	0.42
2:Bo:224:GLY:HA2	2:Bo:225:PRO:HD2	1.81	0.42
2:Bt:149:ALA:O	2:Bt:153:GLN:HG3	2.20	0.42
2:Bw:115:ASN:HB3	2:Bw:210:PRO:HG2	2.02	0.42
3:CA:74:PHE:HE2	3:CA:183:LEU:HD13	1.83	0.42
3:CA:150:LEU:HD12	3:CA:150:LEU:HA	1.79	0.42
3:CF:175:THR:HG23	3:CF:176:VAL:N	2.34	0.42
3:CK:110:PHE:CD2	3:CK:148:VAL:HG11	2.55	0.42
3:CK:128:HIS:O	3:CK:129:SER:C	2.61	0.42
3:CM:110:PHE:CD2	3:CM:148:VAL:HG11	2.55	0.42
3:CS:61:TYR:CD1	3:CS:61:TYR:C	2.98	0.42
3:CV:148:VAL:CG1	3:CV:149:GLY:N	2.83	0.42
3:C6:128:HIS:O	3:C6:129:SER:C	2.61	0.42
3:Ci:148:VAL:CG1	3:Ci:149:GLY:N	2.83	0.42
3:Cr:32:PRO:HG2	1:DD:165:ARG:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cr:40:PHE:CD2	1:DD:221:PRO:HD3	2.54	0.42
3:Cs:61:TYR:CD1	3:Cs:61:TYR:C	2.98	0.42
3:Ct:44:ILE:HD12	3:Ct:44:ILE:HA	1.88	0.42
3:Cu:148:VAL:CG1	3:Cu:149:GLY:N	2.83	0.42
3:Cx:61:TYR:C	3:Cx:61:TYR:CD1	2.97	0.42
1:DJ:1:VAL:C	1:DJ:3:ASN:H	2.24	0.42
1:AA:146:ILE:O	1:AA:147:ALA:CB	2.62	0.42
1:AB:74:THR:HG21	3:CB:43:PHE:CE1	2.45	0.42
1:AB:174:TRP:CH2	2:BB:139:ALA:HB3	2.55	0.42
1:AH:165:ARG:HA	3:CH:32:PRO:HG2	2.01	0.42
1:AH:174:TRP:CH2	2:BH:139:ALA:HB3	2.55	0.42
1:AN:212:ARG:NH2	3:CO:18:VAL:O	2.46	0.42
1:AP:165:ARG:HA	3:CQ:32:PRO:HG2	2.01	0.42
1:AS:174:TRP:CH2	2:BT:139:ALA:HB3	2.55	0.42
1:AS:221:PRO:HD3	3:CT:40:PHE:CD2	2.54	0.42
1:AU:174:TRP:CH2	2:BV:139:ALA:HB3	2.55	0.42
1:A0:202:HIS:C	1:A0:203:ASP:O	2.62	0.42
1:Ah:221:PRO:HD3	3:Ci:40:PHE:CD2	2.54	0.42
1:Ak:1:VAL:C	1:Ak:3:ASN:H	2.24	0.42
1:Ak:220:CYS:HA	1:Ak:221:PRO:HD2	1.95	0.42
2:BG:152:TYR:CB	2:BG:197:LEU:HD11	2.49	0.42
2:BL:70:PRO:HG2	2:BL:73:GLN:HB2	2.02	0.42
2:BM:70:PRO:HG2	2:BM:73:GLN:HB2	2.02	0.42
2:BN:115:ASN:HB3	2:BN:210:PRO:HG2	2.02	0.42
2:B3:157:VAL:CG2	3:C3:50:THR:HG21	2.42	0.42
2:B5:83:LEU:HA	2:B5:84:PRO:HA	1.60	0.42
2:B7:115:ASN:HB3	2:B7:210:PRO:HG2	2.02	0.42
2:B8:152:TYR:CB	2:B8:197:LEU:HD11	2.49	0.42
2:B9:86:ASP:CB	2:B9:141:LYS:HA	2.49	0.42
2:B9:152:TYR:CB	2:B9:197:LEU:HD11	2.49	0.42
2:Bb:115:ASN:HB3	2:Bb:210:PRO:HG2	2.02	0.42
2:Be:137:GLU:O	2:Be:139:ALA:N	2.42	0.42
2:Bm:70:PRO:HG2	2:Bm:73:GLN:HB2	2.02	0.42
2:Bp:86:ASP:CB	2:Bp:141:LYS:HA	2.49	0.42
2:Bp:166:ARG:HB3	3:Cq:112:GLY:O	2.19	0.42
2:Bq:224:GLY:HA2	2:Bq:225:PRO:HD2	1.81	0.42
2:Bs:149:ALA:O	2:Bs:153:GLN:HG3	2.20	0.42
2:Bt:86:ASP:CB	2:Bt:141:LYS:HA	2.49	0.42
2:Bw:149:ALA:O	2:Bw:153:GLN:HG3	2.20	0.42
2:Bx:115:ASN:HB3	2:Bx:210:PRO:HG2	2.02	0.42
3:CB:61:TYR:CD1	3:CB:61:TYR:C	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:61:TYR:CD1	3:CG:61:TYR:C	2.98	0.42
3:CI:150:LEU:HD12	3:CI:150:LEU:HA	1.79	0.42
3:CQ:110:PHE:CD2	3:CQ:148:VAL:HG11	2.55	0.42
3:CQ:148:VAL:CG1	3:CQ:149:GLY:N	2.83	0.42
3:CR:76:MET:O	3:CR:76:MET:HG3	2.18	0.42
3:CR:110:PHE:CD2	3:CR:148:VAL:HG11	2.55	0.42
3:CV:61:TYR:CD1	3:CV:61:TYR:C	2.98	0.42
3:CW:148:VAL:CG1	3:CW:149:GLY:N	2.83	0.42
3:CZ:61:TYR:CD1	3:CZ:61:TYR:C	2.97	0.42
3:C0:110:PHE:CD2	3:C0:148:VAL:HG11	2.55	0.42
3:C1:110:PHE:CD2	3:C1:148:VAL:HG11	2.55	0.42
3:C2:110:PHE:CD2	3:C2:148:VAL:HG11	2.55	0.42
3:C3:110:PHE:CD2	3:C3:148:VAL:HG11	2.55	0.42
3:C4:36:VAL:HA	3:C4:37:PRO:HD3	1.64	0.42
3:Cc:175:THR:HG23	3:Cc:176:VAL:N	2.34	0.42
3:Cf:128:HIS:O	3:Cf:129:SER:C	2.61	0.42
3:Cj:76:MET:O	3:Cj:76:MET:HG3	2.18	0.42
3:Cj:110:PHE:CD2	3:Cj:148:VAL:HG11	2.55	0.42
3:Cj:148:VAL:CG1	3:Cj:149:GLY:N	2.83	0.42
3:Ck:148:VAL:CG1	3:Ck:149:GLY:N	2.83	0.42
3:Cu:110:PHE:CD2	3:Cu:148:VAL:HG11	2.55	0.42
1:DC:187:LEU:HA	1:DC:188:PRO:HD2	1.95	0.42
1:DG:209:LEU:HA	1:DG:209:LEU:HD22	1.74	0.42
1:AD:165:ARG:HA	3:CD:32:PRO:HG2	2.01	0.41
1:AD:187:LEU:HA	1:AD:188:PRO:HD2	1.95	0.41
1:AE:202:HIS:C	1:AE:203:ASP:O	2.62	0.41
1:AP:72:LEU:HD23	1:AP:72:LEU:HA	1.82	0.41
1:AT:174:TRP:CH2	2:BU:139:ALA:HB3	2.55	0.41
1:AV:221:PRO:HD3	3:CW:40:PHE:CD2	2.54	0.41
1:AW:231:PRO:HG2	3:CX:83:ALA:CB	2.48	0.41
1:AX:221:PRO:HD3	3:CY:40:PHE:CD2	2.54	0.41
1:A0:1:VAL:C	1:A0:3:ASN:H	2.24	0.41
1:A2:220:CYS:HA	1:A2:221:PRO:HD2	1.95	0.41
1:A6:165:ARG:HA	3:C7:32:PRO:HG2	2.01	0.41
1:Ak:174:TRP:CH2	2:Bk:139:ALA:HB3	2.55	0.41
2:BG:153:GLN:CD	3:CG:87:GLY:HA3	2.45	0.41
2:BH:153:GLN:CD	3:CH:87:GLY:HA3	2.46	0.41
2:BJ:86:ASP:CB	2:BJ:141:LYS:HA	2.49	0.41
2:BR:70:PRO:HG2	2:BR:73:GLN:HB2	2.01	0.41
2:BX:86:ASP:CB	2:BX:141:LYS:HA	2.49	0.41
2:B0:152:TYR:CB	2:B0:197:LEU:HD11	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:149:ALA:O	2:B3:153:GLN:HG3	2.20	0.41
2:B8:70:PRO:HG2	2:B8:73:GLN:HB2	2.02	0.41
2:B8:153:GLN:CD	3:C9:87:GLY:HA3	2.45	0.41
2:Bj:115:ASN:HB3	2:Bj:210:PRO:HG2	2.02	0.41
2:Bp:139:ALA:HB3	1:DC:174:TRP:CH2	2.55	0.41
2:Bq:153:GLN:CD	3:Cr:87:GLY:HA3	2.45	0.41
2:Bt:70:PRO:HG2	2:Bt:73:GLN:HB2	2.02	0.41
2:Bv:115:ASN:HB3	2:Bv:210:PRO:HG2	2.02	0.41
3:CC:110:PHE:CD2	3:CC:148:VAL:HG11	2.55	0.41
3:CD:4:ARG:HH11	3:CD:4:ARG:HD3	1.74	0.41
3:CF:110:PHE:CD2	3:CF:148:VAL:HG11	2.55	0.41
3:CS:110:PHE:CD2	3:CS:148:VAL:HG11	2.55	0.41
3:CU:61:TYR:CD1	3:CU:61:TYR:C	2.98	0.41
3:CW:128:HIS:O	3:CW:129:SER:C	2.61	0.41
3:CX:148:VAL:CG1	3:CX:149:GLY:N	2.83	0.41
3:CY:128:HIS:O	3:CY:129:SER:C	2.61	0.41
3:C0:61:TYR:C	3:C0:61:TYR:CD1	2.98	0.41
3:C4:61:TYR:CD1	3:C4:61:TYR:C	2.97	0.41
3:C5:128:HIS:O	3:C5:129:SER:C	2.61	0.41
3:C6:36:VAL:HA	3:C6:37:PRO:HD3	1.64	0.41
3:C8:4:ARG:HH11	3:C8:4:ARG:HD3	1.75	0.41
3:Cm:148:VAL:CG1	3:Cm:149:GLY:N	2.83	0.41
3:Cn:44:ILE:HD12	3:Cn:44:ILE:HA	1.88	0.41
3:Cp:4:ARG:HH11	3:Cp:4:ARG:HD3	1.75	0.41
3:Cq:110:PHE:CD2	3:Cq:148:VAL:HG11	2.55	0.41
3:Cw:148:VAL:CG1	3:Cw:149:GLY:N	2.83	0.41
3:DB:110:PHE:CD2	3:DB:148:VAL:HG11	2.55	0.41
1:DH:114:LYS:HB2	1:DJ:240:PRO:HG2	2.01	0.41
1:AE:231:PRO:HG2	3:CE:83:ALA:CB	2.48	0.41
1:AG:221:PRO:HD3	3:CG:40:PHE:CD1	2.54	0.41
1:AH:221:PRO:HD3	3:CH:40:PHE:CD1	2.54	0.41
1:AJ:174:TRP:CH2	2:BK:139:ALA:HB3	2.55	0.41
1:AM:174:TRP:CH2	2:BN:139:ALA:HB3	2.55	0.41
1:AQ:174:TRP:CH2	2:BP:139:ALA:HB3	2.55	0.41
1:AW:174:TRP:CH2	2:BX:139:ALA:HB3	2.55	0.41
1:AX:202:HIS:C	1:AX:203:ASP:O	2.62	0.41
1:A0:174:TRP:CH2	2:B1:139:ALA:HB3	2.55	0.41
1:A4:1:VAL:C	1:A4:3:ASN:H	2.24	0.41
1:A4:174:TRP:CH2	2:Bx:139:ALA:HB3	2.55	0.41
1:A8:174:TRP:CH2	2:B8:139:ALA:HB3	2.55	0.41
1:A8:240:PRO:HG2	1:A9:114:LYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:209:LEU:HD22	1:Ab:209:LEU:HA	1.74	0.41
1:Ac:1:VAL:C	1:Ac:3:ASN:H	2.24	0.41
1:Ae:202:HIS:C	1:Ae:203:ASP:O	2.62	0.41
1:Af:240:PRO:HG2	1:Ag:114:LYS:HB2	2.01	0.41
1:Aj:221:PRO:HD3	3:Ck:40:PHE:CD2	2.54	0.41
1:An:174:TRP:CH2	2:Bn:139:ALA:HB3	2.55	0.41
1:Ao:202:HIS:C	1:Ao:203:ASP:O	2.62	0.41
2:BA:153:GLN:CD	3:CA:87:GLY:HA3	2.45	0.41
2:BC:153:GLN:CD	3:CC:87:GLY:HA3	2.46	0.41
2:BF:86:ASP:CB	2:BF:141:LYS:HA	2.49	0.41
2:BI:115:ASN:HB3	2:BI:210:PRO:HG2	2.02	0.41
2:BJ:152:TYR:HB3	2:BJ:197:LEU:HD11	2.01	0.41
2:BS:153:GLN:CD	3:CQ:87:GLY:HA3	2.46	0.41
2:BT:153:GLN:CD	3:CT:87:GLY:HA3	2.46	0.41
2:BU:137:GLU:O	2:BU:139:ALA:N	2.41	0.41
2:BV:149:ALA:O	2:BV:153:GLN:HG3	2.20	0.41
2:B6:153:GLN:CD	3:C7:87:GLY:HA3	2.45	0.41
2:B7:153:GLN:CD	3:C8:87:GLY:HA3	2.46	0.41
2:Bg:86:ASP:CB	2:Bg:141:LYS:HA	2.49	0.41
2:Bi:152:TYR:HB3	2:Bi:197:LEU:HD11	2.02	0.41
2:Bj:149:ALA:O	2:Bj:153:GLN:HG3	2.20	0.41
2:Bn:149:ALA:O	2:Bn:153:GLN:HG3	2.20	0.41
2:Bo:129:VAL:HA	2:Bo:130:PRO:HD3	1.98	0.41
2:Bq:70:PRO:HG2	2:Bq:73:GLN:HB2	2.02	0.41
2:Br:139:ALA:HB3	1:DE:174:TRP:CH2	2.55	0.41
2:Bu:139:ALA:HB3	1:DH:174:TRP:CH2	2.55	0.41
2:Bv:149:ALA:O	2:Bv:153:GLN:HG3	2.20	0.41
3:CB:4:ARG:HH11	3:CB:4:ARG:HD3	1.75	0.41
3:CC:44:ILE:HD12	3:CC:44:ILE:HA	1.88	0.41
3:CC:128:HIS:O	3:CC:129:SER:C	2.61	0.41
3:CH:76:MET:O	3:CH:76:MET:HG3	2.18	0.41
3:CJ:148:VAL:CG1	3:CJ:149:GLY:N	2.83	0.41
3:CL:148:VAL:CG1	3:CL:149:GLY:N	2.83	0.41
3:CM:91:ALA:O	3:CM:94:SER:HB2	2.21	0.41
3:CN:148:VAL:CG1	3:CN:149:GLY:N	2.83	0.41
3:CQ:8:VAL:CG1	3:CQ:10:GLU:CD	2.94	0.41
3:CT:91:ALA:O	3:CT:94:SER:HB2	2.21	0.41
3:CU:91:ALA:O	3:CU:94:SER:HB2	2.21	0.41
3:CU:148:VAL:CG1	3:CU:149:GLY:N	2.83	0.41
3:CW:110:PHE:CD2	3:CW:148:VAL:HG11	2.55	0.41
3:C8:110:PHE:CD2	3:C8:148:VAL:HG11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cd:110:PHE:CD2	3:Cd:148:VAL:HG11	2.55	0.41
3:Cd:150:LEU:HD12	3:Cd:150:LEU:HA	1.79	0.41
3:Ce:8:VAL:CG1	3:Ce:10:GLU:CD	2.93	0.41
3:Ce:148:VAL:CG1	3:Ce:149:GLY:N	2.83	0.41
3:Ch:61:TYR:CD1	3:Ch:61:TYR:C	2.98	0.41
3:Cm:128:HIS:O	3:Cm:129:SER:C	2.61	0.41
3:Cn:8:VAL:CG1	3:Cn:10:GLU:CD	2.94	0.41
3:Co:110:PHE:CD2	3:Co:148:VAL:HG11	2.55	0.41
3:Cs:36:VAL:HA	3:Cs:37:PRO:HD3	1.64	0.41
3:Cv:110:PHE:CD2	3:Cv:148:VAL:HG11	2.55	0.41
3:Cx:32:PRO:HG2	1:DJ:165:ARG:HA	2.01	0.41
1:DG:202:HIS:C	1:DG:203:ASP:O	2.62	0.41
1:DK:209:LEU:HD22	1:DK:209:LEU:HA	1.74	0.41
1:AA:114:LYS:HB2	1:AD:240:PRO:HG2	2.01	0.41
1:AA:174:TRP:CH2	2:BA:139:ALA:HB3	2.55	0.41
1:AE:74:THR:HG21	3:CE:43:PHE:CE1	2.45	0.41
1:AG:174:TRP:CH2	2:BG:139:ALA:HB3	2.55	0.41
1:AG:212:ARG:NH2	3:CG:18:VAL:O	2.46	0.41
1:AJ:240:PRO:HG2	1:AK:114:LYS:HB2	2.01	0.41
1:AK:174:TRP:CH2	2:BL:139:ALA:HB3	2.55	0.41
1:AL:114:LYS:HB2	1:AN:240:PRO:HG2	2.01	0.41
1:AW:209:LEU:HA	1:AW:209:LEU:HD22	1.74	0.41
1:A2:146:ILE:O	1:A2:147:ALA:CB	2.62	0.41
1:A5:202:HIS:C	1:A5:203:ASP:O	2.62	0.41
1:A6:74:THR:HG21	3:C7:43:PHE:CE2	2.45	0.41
1:A7:202:HIS:C	1:A7:203:ASP:O	2.62	0.41
1:A9:74:THR:O	1:A9:74:THR:CG2	2.68	0.41
1:A9:165:ARG:HA	3:DA:32:PRO:HG2	2.01	0.41
1:Ab:225:PRO:HA	1:Ab:226:PRO:HD3	1.78	0.41
1:Ac:212:ARG:NH2	3:Cd:18:VAL:O	2.46	0.41
1:Ad:220:CYS:HA	1:Ad:221:PRO:HD2	1.95	0.41
1:Aj:1:VAL:C	1:Aj:3:ASN:H	2.24	0.41
1:Ak:225:PRO:HA	1:Ak:226:PRO:HD3	1.78	0.41
1:An:212:ARG:NH2	3:Co:18:VAL:O	2.46	0.41
2:BA:149:ALA:O	2:BA:153:GLN:HG3	2.20	0.41
2:BB:115:ASN:HB3	2:BB:210:PRO:HG2	2.02	0.41
2:BF:153:GLN:CD	3:CF:87:GLY:HA3	2.46	0.41
2:BJ:149:ALA:O	2:BJ:153:GLN:HG3	2.20	0.41
2:BL:129:VAL:HA	2:BL:130:PRO:HD3	1.98	0.41
2:BP:153:GLN:CD	3:CR:87:GLY:HA3	2.46	0.41
2:BU:70:PRO:HG2	2:BU:73:GLN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BY:149:ALA:O	2:BY:153:GLN:HG3	2.20	0.41
2:B0:101:HIS:CG	2:B0:222:VAL:HG13	2.56	0.41
2:B0:152:TYR:HB3	2:B0:197:LEU:HD11	2.02	0.41
2:B1:153:GLN:CD	3:C1:87:GLY:HA3	2.45	0.41
2:B3:152:TYR:HB3	2:B3:197:LEU:HD11	2.02	0.41
2:B4:70:PRO:HG2	2:B4:73:GLN:HB2	2.02	0.41
2:B5:152:TYR:CB	2:B5:197:LEU:HD11	2.49	0.41
2:Ba:153:GLN:CD	3:DB:87:GLY:HA3	2.46	0.41
2:Bb:153:GLN:CD	3:Cc:87:GLY:HA3	2.45	0.41
2:Be:149:ALA:O	2:Be:153:GLN:HG3	2.20	0.41
2:Bg:149:ALA:O	2:Bg:153:GLN:HG3	2.20	0.41
2:Bg:153:GLN:CD	3:Ch:87:GLY:HA3	2.46	0.41
2:Bh:83:LEU:HA	2:Bh:84:PRO:HA	1.60	0.41
2:Bl:85:SER:HB2	2:Bl:190:ASN:ND2	2.31	0.41
2:Bl:153:GLN:CD	3:Cm:87:GLY:HA3	2.46	0.41
2:Bm:224:GLY:HA2	2:Bm:225:PRO:HD2	1.81	0.41
2:Bq:115:ASN:HB3	2:Bq:210:PRO:HG2	2.02	0.41
2:Br:157:VAL:CG2	3:Cs:50:THR:HG21	2.43	0.41
2:Bs:152:TYR:HB3	2:Bs:197:LEU:HD11	2.01	0.41
2:Bs:153:GLN:CD	3:Ct:87:GLY:HA3	2.45	0.41
2:Bv:101:HIS:CG	2:Bv:222:VAL:HG13	2.56	0.41
2:Bv:153:GLN:CD	3:Cw:87:GLY:HA3	2.45	0.41
2:Bv:224:GLY:HA2	2:Bv:225:PRO:HD2	1.81	0.41
2:Bx:149:ALA:O	2:Bx:153:GLN:HG3	2.20	0.41
3:CC:101:ARG:O	3:CC:214:PHE:HA	2.21	0.41
3:CD:110:PHE:CD2	3:CD:148:VAL:HG11	2.55	0.41
3:CF:148:VAL:CG1	3:CF:149:GLY:N	2.83	0.41
3:CG:8:VAL:CG1	3:CG:10:GLU:CD	2.94	0.41
3:CH:148:VAL:CG1	3:CH:149:GLY:N	2.83	0.41
3:CJ:18:VAL:O	1:DK:212:ARG:NH2	2.46	0.41
3:CK:8:VAL:CG1	3:CK:10:GLU:CD	2.94	0.41
3:CK:74:PHE:HE2	3:CK:183:LEU:HD13	1.84	0.41
3:CP:91:ALA:O	3:CP:94:SER:HB2	2.21	0.41
3:CS:8:VAL:CG1	3:CS:10:GLU:CD	2.94	0.41
3:CU:110:PHE:CD2	3:CU:148:VAL:HG11	2.55	0.41
3:CX:110:PHE:CD2	3:CX:148:VAL:HG11	2.55	0.41
3:CY:91:ALA:O	3:CY:94:SER:HB2	2.21	0.41
3:C1:148:VAL:CG1	3:C1:149:GLY:N	2.83	0.41
3:C2:8:VAL:CG1	3:C2:10:GLU:CD	2.93	0.41
3:C4:8:VAL:CG1	3:C4:10:GLU:CD	2.94	0.41
3:C6:110:PHE:CD2	3:C6:148:VAL:HG11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:8:VAL:CG1	3:C7:10:GLU:CD	2.94	0.41
3:C7:101:ARG:O	3:C7:214:PHE:HA	2.21	0.41
3:C9:61:TYR:CD1	3:C9:61:TYR:C	2.97	0.41
3:Cd:61:TYR:CD1	3:Cd:61:TYR:C	2.98	0.41
3:Cg:91:ALA:O	3:Cg:94:SER:HB2	2.21	0.41
3:Cg:110:PHE:CD2	3:Cg:148:VAL:HG11	2.55	0.41
3:Ci:36:VAL:HA	3:Ci:37:PRO:HD3	1.64	0.41
3:Ci:61:TYR:CD1	3:Ci:61:TYR:C	2.98	0.41
3:Cj:61:TYR:CD1	3:Cj:61:TYR:C	2.97	0.41
3:Cl:101:ARG:O	3:Cl:214:PHE:HA	2.21	0.41
3:Cl:110:PHE:CD2	3:Cl:148:VAL:HG11	2.55	0.41
3:Cm:178:ASN:HD22	3:Cm:178:ASN:HA	1.66	0.41
3:Cp:101:ARG:O	3:Cp:214:PHE:HA	2.21	0.41
3:Cu:61:TYR:CD1	3:Cu:61:TYR:C	2.98	0.41
3:Cw:8:VAL:CG1	3:Cw:10:GLU:CD	2.94	0.41
3:Cx:101:ARG:O	3:Cx:214:PHE:HA	2.21	0.41
3:DA:101:ARG:O	3:DA:214:PHE:HA	2.20	0.41
3:DA:128:HIS:O	3:DA:129:SER:C	2.61	0.41
1:DJ:202:HIS:C	1:DJ:203:ASP:O	2.62	0.41
1:AA:212:ARG:NH2	3:CA:18:VAL:O	2.46	0.41
1:AC:1:VAL:C	1:AC:3:ASN:H	2.24	0.41
1:AI:221:PRO:HD3	3:CI:40:PHE:CD1	2.54	0.41
1:AK:240:PRO:HG2	1:AN:114:LYS:HB2	2.01	0.41
1:AM:202:HIS:C	1:AM:203:ASP:O	2.62	0.41
1:AN:202:HIS:C	1:AN:203:ASP:O	2.62	0.41
1:AO:191:HIS:HD2	1:AO:193:GLY:N	2.08	0.41
1:AQ:114:LYS:HB2	1:AS:240:PRO:HG2	2.01	0.41
1:AR:220:CYS:HA	1:AR:221:PRO:HD2	1.95	0.41
1:AS:146:ILE:O	1:AS:147:ALA:CB	2.62	0.41
1:AW:191:HIS:HD2	1:AW:193:GLY:N	2.08	0.41
1:AY:240:PRO:HG2	1:AZ:114:LYS:HB2	2.01	0.41
1:A1:209:LEU:HD22	1:A1:209:LEU:HA	1.75	0.41
1:A6:221:PRO:HD3	3:C7:40:PHE:CD2	2.54	0.41
1:A8:221:PRO:HD3	3:C9:40:PHE:CD2	2.54	0.41
1:Af:174:TRP:CH2	2:Bf:139:ALA:HB3	2.55	0.41
1:Aj:225:PRO:HA	1:Aj:226:PRO:HD3	1.78	0.41
1:Al:231:PRO:HG2	3:Cm:83:ALA:CB	2.48	0.41
2:BA:101:HIS:CG	2:BA:222:VAL:HG13	2.56	0.41
2:BA:115:ASN:HB3	2:BA:210:PRO:HG2	2.02	0.41
2:BC:149:ALA:O	2:BC:153:GLN:HG3	2.20	0.41
2:BD:70:PRO:HG2	2:BD:73:GLN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:115:ASN:HB3	2:BF:210:PRO:HG2	2.02	0.41
2:BJ:70:PRO:HG2	2:BJ:73:GLN:HB2	2.02	0.41
2:BL:152:TYR:HB3	2:BL:197:LEU:HD11	2.02	0.41
2:BW:152:TYR:HB3	2:BW:197:LEU:HD11	2.02	0.41
2:B6:101:HIS:CG	2:B6:222:VAL:HG13	2.56	0.41
2:B6:152:TYR:HB3	2:B6:197:LEU:HD11	2.01	0.41
2:Ba:70:PRO:HG2	2:Ba:73:GLN:HB2	2.02	0.41
2:Ba:149:ALA:O	2:Ba:153:GLN:HG3	2.20	0.41
2:Ba:152:TYR:HB3	2:Ba:197:LEU:HD11	2.02	0.41
2:Bc:152:TYR:CB	2:Bc:197:LEU:HD11	2.49	0.41
2:Bd:153:GLN:CD	3:Ce:87:GLY:HA3	2.46	0.41
2:Bf:70:PRO:HG2	2:Bf:73:GLN:HB2	2.01	0.41
2:Bg:70:PRO:HG2	2:Bg:73:GLN:HB2	2.02	0.41
2:Bh:101:HIS:CG	2:Bh:222:VAL:HG13	2.56	0.41
2:Bl:149:ALA:O	2:Bl:153:GLN:HG3	2.20	0.41
2:Bm:153:GLN:CD	3:Cn:87:GLY:HA3	2.46	0.41
2:Bn:70:PRO:HG2	2:Bn:73:GLN:HB2	2.02	0.41
2:Bn:115:ASN:HB3	2:Bn:210:PRO:HG2	2.02	0.41
2:Br:70:PRO:HG2	2:Br:73:GLN:HB2	2.01	0.41
2:Bu:115:ASN:HB3	2:Bu:210:PRO:HG2	2.02	0.41
3:CD:8:VAL:CG1	3:CD:10:GLU:CD	2.94	0.41
3:CE:8:VAL:CG1	3:CE:10:GLU:CD	2.94	0.41
3:CF:150:LEU:HD12	3:CF:150:LEU:HA	1.79	0.41
3:CJ:44:ILE:HD12	3:CJ:44:ILE:HA	1.88	0.41
3:CJ:91:ALA:O	3:CJ:94:SER:HB2	2.21	0.41
3:CM:148:VAL:CG1	3:CM:149:GLY:N	2.83	0.41
3:CN:8:VAL:CG1	3:CN:10:GLU:CD	2.94	0.41
3:CN:61:TYR:C	3:CN:61:TYR:CD1	2.98	0.41
3:CN:76:MET:O	3:CN:76:MET:HG3	2.18	0.41
3:CN:110:PHE:CD2	3:CN:148:VAL:HG11	2.55	0.41
3:CQ:101:ARG:O	3:CQ:214:PHE:HA	2.21	0.41
3:CR:8:VAL:CG1	3:CR:10:GLU:CD	2.94	0.41
3:CR:175:THR:HG23	3:CR:176:VAL:N	2.34	0.41
3:CS:101:ARG:O	3:CS:214:PHE:HA	2.21	0.41
3:CV:8:VAL:CG1	3:CV:10:GLU:CD	2.94	0.41
3:CW:61:TYR:C	3:CW:61:TYR:CD1	2.98	0.41
3:CX:8:VAL:CG1	3:CX:10:GLU:CD	2.94	0.41
3:C0:127:PRO:HD3	3:C0:180:SER:O	2.21	0.41
3:C1:36:VAL:HA	3:C1:37:PRO:HD3	1.64	0.41
3:C2:36:VAL:HA	3:C2:37:PRO:HD3	1.64	0.41
3:C2:127:PRO:HD3	3:C2:180:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:148:VAL:CG1	3:C2:149:GLY:N	2.83	0.41
3:C4:101:ARG:O	3:C4:214:PHE:HA	2.21	0.41
3:C5:148:VAL:CG1	3:C5:149:GLY:N	2.83	0.41
3:C6:101:ARG:O	3:C6:214:PHE:HA	2.21	0.41
3:C8:8:VAL:CG1	3:C8:10:GLU:CD	2.94	0.41
3:Cc:61:TYR:CD1	3:Cc:61:TYR:C	2.98	0.41
3:Cc:148:VAL:CG1	3:Cc:149:GLY:N	2.83	0.41
3:Cd:91:ALA:O	3:Cd:94:SER:HB2	2.21	0.41
3:Cf:8:VAL:CG1	3:Cf:10:GLU:CD	2.94	0.41
3:Cg:8:VAL:CG1	3:Cg:10:GLU:CD	2.94	0.41
3:Ch:8:VAL:CG1	3:Ch:10:GLU:CD	2.94	0.41
3:Ch:91:ALA:O	3:Ch:94:SER:HB2	2.21	0.41
3:Cj:101:ARG:O	3:Cj:214:PHE:HA	2.21	0.41
3:Cm:101:ARG:O	3:Cm:214:PHE:HA	2.21	0.41
3:Cn:127:PRO:HD3	3:Cn:180:SER:O	2.21	0.41
3:Cp:8:VAL:CG1	3:Cp:10:GLU:CD	2.94	0.41
3:Cq:148:VAL:CG1	3:Cq:149:GLY:N	2.83	0.41
3:Cs:148:VAL:CG1	3:Cs:149:GLY:N	2.83	0.41
3:Cu:91:ALA:O	3:Cu:94:SER:HB2	2.21	0.41
3:Cw:110:PHE:CD2	3:Cw:148:VAL:HG11	2.55	0.41
3:Cx:43:PHE:CE2	1:DJ:74:THR:HG21	2.45	0.41
3:Cx:44:ILE:HD12	3:Cx:44:ILE:HA	1.88	0.41
3:Cx:148:VAL:CG1	3:Cx:149:GLY:N	2.83	0.41
3:DB:150:LEU:HA	3:DB:150:LEU:HD12	1.79	0.41
1:DD:87:GLN:HE21	1:DD:210:ARG:NH2	2.12	0.41
1:DE:1:VAL:C	1:DE:3:ASN:H	2.24	0.41
1:DI:202:HIS:C	1:DI:203:ASP:O	2.62	0.41
1:AL:212:ARG:NH2	3:CM:18:VAL:O	2.46	0.41
1:AO:174:TRP:CH2	2:BO:139:ALA:HB3	2.55	0.41
1:AP:174:TRP:CH2	2:BS:139:ALA:HB3	2.55	0.41
1:AR:191:HIS:HD2	1:AR:193:GLY:N	2.08	0.41
1:AW:221:PRO:HD3	3:CX:40:PHE:CD2	2.54	0.41
1:AX:209:LEU:HD22	1:AX:209:LEU:HA	1.74	0.41
1:AY:74:THR:O	1:AY:74:THR:CG2	2.68	0.41
1:AY:202:HIS:C	1:AY:203:ASP:O	2.62	0.41
1:A6:74:THR:O	1:A6:74:THR:CG2	2.69	0.41
1:Ac:174:TRP:CH2	2:Bc:139:ALA:HB3	2.55	0.41
1:Ac:231:PRO:HG2	3:Cd:83:ALA:CB	2.48	0.41
1:Ag:146:ILE:O	1:Ag:147:ALA:CB	2.62	0.41
1:Al:72:LEU:HD23	1:Al:72:LEU:HA	1.83	0.41
1:Al:221:PRO:HD3	3:Cm:40:PHE:CD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:152:TYR:HB3	2:BF:197:LEU:HD11	2.02	0.41
2:BG:149:ALA:O	2:BG:153:GLN:HG3	2.20	0.41
2:BJ:101:HIS:CG	2:BJ:222:VAL:HG13	2.56	0.41
2:BN:152:TYR:HB3	2:BN:197:LEU:HD11	2.01	0.41
2:BR:152:TYR:HB3	2:BR:197:LEU:HD11	2.01	0.41
2:BO:101:HIS:CG	2:BO:222:VAL:HG13	2.56	0.41
2:BU:152:TYR:HB3	2:BU:197:LEU:HD11	2.02	0.41
2:BW:101:HIS:CG	2:BW:222:VAL:HG13	2.56	0.41
2:BX:70:PRO:HG2	2:BX:73:GLN:HB2	2.02	0.41
2:BX:101:HIS:CG	2:BX:222:VAL:HG13	2.56	0.41
2:BX:153:GLN:CD	3:CX:87:GLY:HA3	2.45	0.41
2:B1:149:ALA:O	2:B1:153:GLN:HG3	2.20	0.41
2:B2:152:TYR:HB3	2:B2:197:LEU:HD11	2.01	0.41
2:B5:70:PRO:HG2	2:B5:73:GLN:HB2	2.01	0.41
2:B7:152:TYR:HB3	2:B7:197:LEU:HD11	2.01	0.41
2:Bb:101:HIS:CG	2:Bb:222:VAL:HG13	2.56	0.41
2:Bd:70:PRO:HG2	2:Bd:73:GLN:HB2	2.02	0.41
2:Bd:101:HIS:CG	2:Bd:222:VAL:HG13	2.56	0.41
2:Be:153:GLN:CD	3:Cf:87:GLY:HA3	2.45	0.41
2:Bf:153:GLN:CD	3:Cg:87:GLY:HA3	2.46	0.41
2:Bi:43:PRO:HA	2:Bi:44:PRO:HD3	1.96	0.41
2:Bk:149:ALA:O	2:Bk:153:GLN:HG3	2.20	0.41
2:Bm:152:TYR:HB3	2:Bm:197:LEU:HD11	2.01	0.41
2:Bn:153:GLN:CD	3:Co:87:GLY:HA3	2.46	0.41
2:Bp:153:GLN:CD	3:Cq:87:GLY:HA3	2.45	0.41
2:Br:153:GLN:CD	3:Cs:87:GLY:HA3	2.46	0.41
2:Bt:152:TYR:HB3	2:Bt:197:LEU:HD11	2.02	0.41
2:Bv:70:PRO:HG2	2:Bv:73:GLN:HB2	2.02	0.41
2:Bx:152:TYR:HB3	2:Bx:197:LEU:HD11	2.02	0.41
3:CB:178:ASN:HD22	3:CB:178:ASN:HA	1.65	0.41
3:CE:61:TYR:CD1	3:CE:61:TYR:C	2.98	0.41
3:CH:127:PRO:HD3	3:CH:180:SER:O	2.21	0.41
3:CI:91:ALA:O	3:CI:94:SER:HB2	2.21	0.41
3:CI:101:ARG:O	3:CI:214:PHE:HA	2.21	0.41
3:CL:110:PHE:CD2	3:CL:148:VAL:HG11	2.55	0.41
3:CL:175:THR:HG23	3:CL:176:VAL:N	2.34	0.41
3:CN:127:PRO:HD3	3:CN:180:SER:O	2.21	0.41
3:CO:91:ALA:O	3:CO:94:SER:HB2	2.21	0.41
3:CP:110:PHE:CD2	3:CP:148:VAL:HG11	2.55	0.41
3:CT:110:PHE:CD2	3:CT:148:VAL:HG11	2.55	0.41
3:CU:101:ARG:O	3:CU:214:PHE:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:91:ALA:O	3:CV:94:SER:HB2	2.21	0.41
3:CY:148:VAL:CG1	3:CY:149:GLY:N	2.83	0.41
3:CZ:148:VAL:CG1	3:CZ:149:GLY:N	2.83	0.41
3:C4:74:PHE:HE2	3:C4:183:LEU:HD13	1.84	0.41
3:C4:91:ALA:O	3:C4:94:SER:HB2	2.21	0.41
3:C5:91:ALA:O	3:C5:94:SER:HB2	2.21	0.41
3:C9:101:ARG:O	3:C9:214:PHE:HA	2.21	0.41
3:Cd:101:ARG:O	3:Cd:214:PHE:HA	2.21	0.41
3:Cd:127:PRO:HD3	3:Cd:180:SER:O	2.21	0.41
3:Ch:127:PRO:HD3	3:Ch:180:SER:O	2.21	0.41
3:Ck:110:PHE:CD2	3:Ck:148:VAL:HG11	2.55	0.41
3:Ck:127:PRO:HD3	3:Ck:180:SER:O	2.21	0.41
3:Cm:91:ALA:O	3:Cm:94:SER:HB2	2.21	0.41
3:Cm:127:PRO:HD3	3:Cm:180:SER:O	2.21	0.41
3:Co:91:ALA:O	3:Co:94:SER:HB2	2.20	0.41
3:Co:101:ARG:O	3:Co:214:PHE:HA	2.21	0.41
3:Cp:148:VAL:CG1	3:Cp:149:GLY:N	2.83	0.41
3:Cq:91:ALA:O	3:Cq:94:SER:HB2	2.21	0.41
3:Cq:101:ARG:O	3:Cq:214:PHE:HA	2.21	0.41
3:Cr:128:HIS:O	3:Cr:129:SER:C	2.61	0.41
3:Cu:8:VAL:CG1	3:Cu:10:GLU:CD	2.94	0.41
3:Cu:101:ARG:O	3:Cu:214:PHE:HA	2.21	0.41
3:DA:8:VAL:CG1	3:DA:10:GLU:CD	2.94	0.41
3:DA:110:PHE:CD2	3:DA:148:VAL:HG11	2.55	0.41
1:DD:187:LEU:HA	1:DD:188:PRO:HD2	1.95	0.41
1:DE:202:HIS:C	1:DE:203:ASP:O	2.62	0.41
1:AB:202:HIS:C	1:AB:203:ASP:O	2.62	0.41
1:AF:174:TRP:CH2	2:BF:139:ALA:HB3	2.55	0.41
1:AG:240:PRO:HG2	1:DK:114:LYS:HB2	2.01	0.41
1:AH:220:CYS:HA	1:AH:221:PRO:HD2	1.95	0.41
1:AN:174:TRP:CH2	2:BR:139:ALA:HB3	2.55	0.41
1:AN:187:LEU:HA	1:AN:188:PRO:HD2	1.95	0.41
1:AO:1:VAL:C	1:AO:3:ASN:H	2.24	0.41
1:AV:174:TRP:CH2	2:BW:139:ALA:HB3	2.55	0.41
1:A4:74:THR:O	1:A4:74:THR:CG2	2.68	0.41
1:A5:174:TRP:CH2	2:B5:139:ALA:HB3	2.55	0.41
1:A6:174:TRP:CH2	2:B6:139:ALA:HB3	2.55	0.41
1:Aa:174:TRP:CH2	2:Ba:139:ALA:HB3	2.55	0.41
1:Ag:1:VAL:C	1:Ag:3:ASN:H	2.24	0.41
1:Ag:174:TRP:CH2	2:Bg:139:ALA:HB3	2.55	0.41
2:BC:86:ASP:CB	2:BC:141:LYS:HA	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:153:GLN:CD	3:CD:87:GLY:HA3	2.45	0.41
2:BH:43:PRO:HA	2:BH:44:PRO:HD3	1.96	0.41
2:BK:149:ALA:O	2:BK:153:GLN:HG3	2.20	0.41
2:BM:149:ALA:O	2:BM:153:GLN:HG3	2.20	0.41
2:BM:152:TYR:HB3	2:BM:197:LEU:HD11	2.02	0.41
2:BM:153:GLN:CD	3:CM:87:GLY:HA3	2.46	0.41
2:BN:101:HIS:CG	2:BN:222:VAL:HG13	2.56	0.41
2:BR:149:ALA:O	2:BR:153:GLN:HG3	2.20	0.41
2:BS:149:ALA:O	2:BS:153:GLN:HG3	2.20	0.41
2:BP:149:ALA:O	2:BP:153:GLN:HG3	2.20	0.41
2:BQ:149:ALA:O	2:BQ:153:GLN:HG3	2.20	0.41
2:BU:101:HIS:CG	2:BU:222:VAL:HG13	2.56	0.41
2:BV:152:TYR:HB3	2:BV:197:LEU:HD11	2.02	0.41
2:BV:153:GLN:CD	3:CV:87:GLY:HA3	2.46	0.41
2:B0:149:ALA:O	2:B0:153:GLN:HG3	2.20	0.41
2:B5:149:ALA:O	2:B5:153:GLN:HG3	2.20	0.41
2:B6:149:ALA:O	2:B6:153:GLN:HG3	2.20	0.41
2:B7:137:GLU:O	2:B7:139:ALA:N	2.42	0.41
2:B8:101:HIS:CG	2:B8:222:VAL:HG13	2.56	0.41
2:Bi:115:ASN:HB3	2:Bi:210:PRO:HG2	2.02	0.41
2:Bi:149:ALA:O	2:Bi:153:GLN:HG3	2.20	0.41
2:Bo:149:ALA:O	2:Bo:153:GLN:HG3	2.20	0.41
2:Bu:101:HIS:CG	2:Bu:222:VAL:HG13	2.56	0.41
3:CA:127:PRO:HD3	3:CA:180:SER:O	2.21	0.41
3:CC:127:PRO:HD3	3:CC:180:SER:O	2.21	0.41
3:CD:101:ARG:O	3:CD:214:PHE:HA	2.21	0.41
3:CF:101:ARG:O	3:CF:214:PHE:HA	2.21	0.41
3:CH:91:ALA:O	3:CH:94:SER:HB2	2.21	0.41
3:CL:8:VAL:CG1	3:CL:10:GLU:CD	2.94	0.41
3:CL:101:ARG:O	3:CL:214:PHE:HA	2.21	0.41
3:CN:101:ARG:O	3:CN:214:PHE:HA	2.21	0.41
3:CR:127:PRO:HD3	3:CR:180:SER:O	2.21	0.41
3:CS:127:PRO:HD3	3:CS:180:SER:O	2.21	0.41
3:CS:148:VAL:CG1	3:CS:149:GLY:N	2.83	0.41
3:CT:76:MET:O	3:CT:76:MET:HG3	2.18	0.41
3:CT:148:VAL:CG1	3:CT:149:GLY:N	2.83	0.41
3:CU:8:VAL:CG1	3:CU:10:GLU:CD	2.94	0.41
3:CW:101:ARG:O	3:CW:214:PHE:HA	2.21	0.41
3:CY:8:VAL:CG1	3:CY:10:GLU:CD	2.94	0.41
3:CZ:101:ARG:O	3:CZ:214:PHE:HA	2.21	0.41
3:C1:91:ALA:O	3:C1:94:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:101:ARG:O	3:C1:214:PHE:HA	2.21	0.41
3:C4:148:VAL:CG1	3:C4:149:GLY:N	2.83	0.41
3:C5:101:ARG:O	3:C5:214:PHE:HA	2.21	0.41
3:C5:110:PHE:CD2	3:C5:148:VAL:HG11	2.55	0.41
3:C5:127:PRO:HD3	3:C5:180:SER:O	2.21	0.41
3:C7:91:ALA:O	3:C7:94:SER:HB2	2.21	0.41
3:C8:76:MET:O	3:C8:76:MET:HG3	2.18	0.41
3:Cd:8:VAL:CG1	3:Cd:10:GLU:CD	2.94	0.41
3:Ce:91:ALA:O	3:Ce:94:SER:HB2	2.21	0.41
3:Cg:4:ARG:HH11	3:Cg:4:ARG:HD3	1.75	0.41
3:Cj:8:VAL:CG1	3:Cj:10:GLU:CD	2.94	0.41
3:Cn:76:MET:O	3:Cn:76:MET:HG3	2.18	0.41
3:Cp:110:PHE:CD2	3:Cp:148:VAL:HG11	2.55	0.41
3:Cp:128:HIS:O	3:Cp:129:SER:C	2.61	0.41
3:Cr:8:VAL:CG1	3:Cr:10:GLU:CD	2.94	0.41
3:Cs:110:PHE:CD2	3:Cs:148:VAL:HG11	2.55	0.41
3:Cx:8:VAL:CG1	3:Cx:10:GLU:CD	2.94	0.41
3:Cx:110:PHE:CD2	3:Cx:148:VAL:HG11	2.55	0.41
3:DA:91:ALA:O	3:DA:94:SER:HB2	2.21	0.41
1:AC:187:LEU:HD23	1:AC:187:LEU:HA	1.90	0.41
1:AF:146:ILE:O	1:AF:147:ALA:CB	2.62	0.41
1:AL:191:HIS:HD2	1:AL:193:GLY:N	2.08	0.41
1:AN:225:PRO:HA	1:AN:226:PRO:HD3	1.78	0.41
1:AW:202:HIS:C	1:AW:203:ASP:O	2.62	0.41
1:AX:187:LEU:HD23	1:AX:187:LEU:HA	1.91	0.41
1:AZ:191:HIS:HD2	1:AZ:193:GLY:N	2.08	0.41
1:A1:72:LEU:HD23	1:A1:72:LEU:HA	1.83	0.41
1:Ag:187:LEU:HD23	1:Ag:187:LEU:HA	1.91	0.41
1:Am:202:HIS:C	1:Am:203:ASP:O	2.62	0.41
1:An:87:GLN:HE21	1:An:210:ARG:NH2	2.12	0.41
2:BB:82:PRO:HA	2:BB:193:THR:HA	2.03	0.41
2:BF:101:HIS:CG	2:BF:222:VAL:HG13	2.56	0.41
2:BG:129:VAL:HA	2:BG:130:PRO:HD3	1.98	0.41
2:BI:149:ALA:O	2:BI:153:GLN:HG3	2.20	0.41
2:BK:115:ASN:HB3	2:BK:210:PRO:HG2	2.02	0.41
2:BK:153:GLN:CD	3:CK:87:GLY:HA3	2.46	0.41
2:BN:149:ALA:O	2:BN:153:GLN:HG3	2.20	0.41
2:BQ:70:PRO:HG2	2:BQ:73:GLN:HB2	2.02	0.41
2:BU:153:GLN:CD	3:CU:87:GLY:HA3	2.46	0.41
2:BW:153:GLN:CD	3:CW:87:GLY:HA3	2.46	0.41
2:BY:153:GLN:CD	3:CY:87:GLY:HA3	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:153:GLN:CD	3:C2:87:GLY:HA3	2.46	0.41
2:B3:115:ASN:HB3	2:B3:210:PRO:HG2	2.02	0.41
2:B3:153:GLN:CD	3:C3:87:GLY:HA3	2.46	0.41
2:B8:152:TYR:HB3	2:B8:197:LEU:HD11	2.02	0.41
2:Ba:83:LEU:HA	2:Ba:84:PRO:HA	1.60	0.41
2:Bj:152:TYR:HB3	2:Bj:197:LEU:HD11	2.02	0.41
2:Bk:101:HIS:CG	2:Bk:222:VAL:HG13	2.56	0.41
2:Bl:152:TYR:HB3	2:Bl:197:LEU:HD11	2.02	0.41
2:Bu:153:GLN:CD	3:Cv:87:GLY:HA3	2.46	0.41
3:CA:101:ARG:O	3:CA:214:PHE:HA	2.21	0.41
3:CB:8:VAL:CG1	3:CB:10:GLU:CD	2.94	0.41
3:CD:91:ALA:O	3:CD:94:SER:HB2	2.21	0.41
3:CE:91:ALA:O	3:CE:94:SER:HB2	2.21	0.41
3:CK:91:ALA:O	3:CK:94:SER:HB2	2.21	0.41
3:CL:127:PRO:HD3	3:CL:180:SER:O	2.21	0.41
3:CN:91:ALA:O	3:CN:94:SER:HB2	2.21	0.41
3:CP:8:VAL:CG1	3:CP:10:GLU:CD	2.94	0.41
3:CS:91:ALA:O	3:CS:94:SER:HB2	2.21	0.41
3:CT:8:VAL:CG1	3:CT:10:GLU:CD	2.94	0.41
3:CY:101:ARG:O	3:CY:214:PHE:HA	2.21	0.41
3:C0:8:VAL:CG1	3:C0:10:GLU:CD	2.94	0.41
3:C3:178:ASN:HD22	3:C3:178:ASN:HA	1.66	0.41
3:C4:127:PRO:HD3	3:C4:180:SER:O	2.21	0.41
3:C5:36:VAL:HA	3:C5:37:PRO:HD3	1.64	0.41
3:C6:8:VAL:CG1	3:C6:10:GLU:CD	2.94	0.41
3:C6:127:PRO:HD3	3:C6:180:SER:O	2.21	0.41
3:C7:76:MET:O	3:C7:76:MET:HG3	2.18	0.41
3:Cc:91:ALA:O	3:Cc:94:SER:HB2	2.21	0.41
3:Cc:127:PRO:HD3	3:Cc:180:SER:O	2.21	0.41
3:Cd:148:VAL:CG1	3:Cd:149:GLY:N	2.83	0.41
3:Cf:110:PHE:CD2	3:Cf:148:VAL:HG11	2.55	0.41
3:Cl:128:HIS:O	3:Cl:129:SER:C	2.61	0.41
3:Cl:148:VAL:CG1	3:Cl:149:GLY:N	2.83	0.41
3:Cp:61:TYR:C	3:Cp:61:TYR:CD1	2.98	0.41
3:Cr:127:PRO:HD3	3:Cr:180:SER:O	2.21	0.41
3:Cs:8:VAL:CG1	3:Cs:10:GLU:CD	2.94	0.41
3:Ct:8:VAL:CG1	3:Ct:10:GLU:CD	2.94	0.41
3:Cx:91:ALA:O	3:Cx:94:SER:HB2	2.21	0.41
1:DE:146:ILE:O	1:DE:147:ALA:CB	2.62	0.41
1:DH:87:GLN:HE21	1:DH:210:ARG:NH2	2.12	0.41
1:AB:1:VAL:C	1:AB:3:ASN:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:240:PRO:HG2	1:A6:114:LYS:HB2	2.01	0.41
1:A7:224:ILE:HA	1:A7:225:PRO:HD2	1.95	0.41
1:Ad:174:TRP:CH2	2:Bd:139:ALA:HB3	2.55	0.41
1:Ad:212:ARG:NH2	3:Ce:18:VAL:O	2.46	0.41
1:Ai:174:TRP:CH2	2:Bi:139:ALA:HB3	2.55	0.41
1:Al:187:LEU:HA	1:Al:187:LEU:HD23	1.90	0.41
2:BF:82:PRO:HA	2:BF:193:THR:HA	2.03	0.41
2:BG:101:HIS:CG	2:BG:222:VAL:HG13	2.56	0.41
2:BH:70:PRO:HG2	2:BH:73:GLN:HB2	2.02	0.41
2:BJ:224:GLY:HA2	2:BJ:225:PRO:HD2	1.81	0.41
2:BM:82:PRO:HA	2:BM:193:THR:HA	2.03	0.41
2:BM:101:HIS:CG	2:BM:222:VAL:HG13	2.56	0.41
2:BN:153:GLN:CD	3:CN:87:GLY:HA3	2.45	0.41
2:BO:153:GLN:CD	3:CP:87:GLY:HA3	2.46	0.41
2:BV:115:ASN:HB3	2:BV:210:PRO:HG2	2.02	0.41
2:BW:82:PRO:HA	2:BW:193:THR:HA	2.03	0.41
2:BW:83:LEU:HA	2:BW:84:PRO:HA	1.60	0.41
2:BX:152:TYR:HB3	2:BX:197:LEU:HD11	2.02	0.41
2:BY:115:ASN:HB3	2:BY:210:PRO:HG2	2.02	0.41
2:BZ:149:ALA:O	2:BZ:153:GLN:HG3	2.20	0.41
2:Bc:149:ALA:O	2:Bc:153:GLN:HG3	2.20	0.41
2:Bc:152:TYR:HB3	2:Bc:197:LEU:HD11	2.01	0.41
2:Bg:101:HIS:CG	2:Bg:222:VAL:HG13	2.56	0.41
2:Bh:153:GLN:CD	3:Ci:87:GLY:HA3	2.46	0.41
2:Bi:101:HIS:CG	2:Bi:222:VAL:HG13	2.56	0.41
2:Bp:82:PRO:HA	2:Bp:193:THR:HA	2.03	0.41
2:Bw:101:HIS:CG	2:Bw:222:VAL:HG13	2.56	0.41
2:Bx:82:PRO:HA	2:Bx:193:THR:HA	2.03	0.41
3:CC:148:VAL:CG1	3:CC:149:GLY:N	2.83	0.41
3:CE:101:ARG:O	3:CE:214:PHE:HA	2.21	0.41
3:CF:91:ALA:O	3:CF:94:SER:HB2	2.21	0.41
3:CF:128:HIS:O	3:CF:129:SER:C	2.61	0.41
3:CJ:8:VAL:CG1	3:CJ:10:GLU:CD	2.94	0.41
3:CJ:101:ARG:O	3:CJ:214:PHE:HA	2.21	0.41
3:CK:76:MET:O	3:CK:76:MET:HG3	2.18	0.41
3:CO:8:VAL:CG1	3:CO:10:GLU:CD	2.94	0.41
3:CO:127:PRO:HD3	3:CO:180:SER:O	2.21	0.41
3:CW:8:VAL:CG1	3:CW:10:GLU:CD	2.94	0.41
3:CX:91:ALA:O	3:CX:94:SER:HB2	2.21	0.41
3:C1:8:VAL:CG1	3:C1:10:GLU:CD	2.94	0.41
3:C2:91:ALA:O	3:C2:94:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:8:VAL:CG1	3:C3:10:GLU:CD	2.94	0.41
3:C3:101:ARG:O	3:C3:214:PHE:HA	2.21	0.41
3:C3:127:PRO:HD3	3:C3:180:SER:O	2.21	0.41
3:C3:148:VAL:CG1	3:C3:149:GLY:N	2.83	0.41
3:C4:110:PHE:CD2	3:C4:148:VAL:HG11	2.55	0.41
3:C6:148:VAL:CG1	3:C6:149:GLY:N	2.83	0.41
3:C7:36:VAL:HA	3:C7:37:PRO:HD3	1.64	0.41
3:Cg:127:PRO:HD3	3:Cg:180:SER:O	2.21	0.41
3:Ci:127:PRO:HD3	3:Ci:180:SER:O	2.21	0.41
3:Ci:150:LEU:HA	3:Ci:150:LEU:HD12	1.79	0.41
3:Cj:127:PRO:HD3	3:Cj:180:SER:O	2.21	0.41
3:Ck:101:ARG:O	3:Ck:214:PHE:HA	2.21	0.41
3:Cl:8:VAL:CG1	3:Cl:10:GLU:CD	2.94	0.41
3:Cm:8:VAL:CG1	3:Cm:10:GLU:CD	2.94	0.41
3:Cm:61:TYR:C	3:Cm:61:TYR:CD1	2.98	0.41
3:Co:127:PRO:HD3	3:Co:180:SER:O	2.21	0.41
3:Cq:8:VAL:CG1	3:Cq:10:GLU:CD	2.94	0.41
3:Cq:127:PRO:HD3	3:Cq:180:SER:O	2.21	0.41
3:Cs:91:ALA:O	3:Cs:94:SER:HB2	2.21	0.41
3:Ct:127:PRO:HD3	3:Ct:180:SER:O	2.21	0.41
3:Cv:8:VAL:CG1	3:Cv:10:GLU:CD	2.94	0.41
3:Cv:127:PRO:HD3	3:Cv:180:SER:O	2.21	0.41
3:Cv:148:VAL:CG1	3:Cv:149:GLY:N	2.83	0.41
3:DB:8:VAL:CG1	3:DB:10:GLU:CD	2.94	0.41
3:DB:44:ILE:HD12	3:DB:44:ILE:HA	1.88	0.41
1:DC:209:LEU:HA	1:DC:209:LEU:HD22	1.74	0.41
1:AC:207:CYS:O	1:AC:208:TYR:CB	2.57	0.41
1:AE:87:GLN:HE21	1:AE:210:ARG:NH2	2.12	0.41
1:AG:231:PRO:HG2	3:CG:83:ALA:CB	2.48	0.41
1:AH:72:LEU:HD23	1:AH:72:LEU:HA	1.82	0.41
1:AI:202:HIS:C	1:AI:203:ASP:O	2.62	0.41
1:AJ:187:LEU:HD23	1:AJ:187:LEU:HA	1.91	0.41
1:AJ:220:CYS:HA	1:AJ:221:PRO:HD2	1.95	0.41
1:AO:72:LEU:HD23	1:AO:72:LEU:HA	1.83	0.41
1:AP:187:LEU:HA	1:AP:188:PRO:HD2	1.95	0.41
1:AS:231:PRO:HG2	3:CT:83:ALA:CB	2.48	0.41
1:AV:74:THR:O	1:AV:74:THR:CG2	2.69	0.41
1:A7:72:LEU:HD23	1:A7:72:LEU:HA	1.82	0.41
1:A8:87:GLN:HE21	1:A8:210:ARG:NH2	2.12	0.41
1:Ab:87:GLN:HE21	1:Ab:210:ARG:NH2	2.12	0.41
1:Ae:87:GLN:HE21	1:Ae:210:ARG:NH2	2.12	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:225:PRO:HA	1:Af:226:PRO:HD3	1.78	0.41
1:Ai:212:ARG:NH2	3:Cj:18:VAL:O	2.46	0.41
1:Ak:202:HIS:C	1:Ak:203:ASP:O	2.62	0.41
1:Ak:240:PRO:HG2	1:Al:114:LYS:HB2	2.01	0.41
1:An:1:VAL:C	1:An:3:ASN:H	2.24	0.41
2:BB:149:ALA:O	2:BB:153:GLN:HG3	2.20	0.41
2:BB:166:ARG:NH2	3:CB:116:THR:O	2.54	0.41
2:BC:82:PRO:HA	2:BC:193:THR:HA	2.03	0.41
2:BF:70:PRO:HG2	2:BF:73:GLN:HB2	2.01	0.41
2:BG:70:PRO:HG2	2:BG:73:GLN:HB2	2.02	0.41
2:BG:152:TYR:HB3	2:BG:197:LEU:HD11	2.02	0.41
2:BI:153:GLN:CD	3:CI:87:GLY:HA3	2.46	0.41
2:BR:134:HIS:C	2:BR:136:HIS:H	2.29	0.41
2:BR:153:GLN:CD	3:CO:87:GLY:HA3	2.46	0.41
2:BO:82:PRO:HA	2:BO:193:THR:HA	2.03	0.41
2:BS:82:PRO:HA	2:BS:193:THR:HA	2.03	0.41
2:BT:115:ASN:HB3	2:BT:210:PRO:HG2	2.02	0.41
2:BU:82:PRO:HA	2:BU:193:THR:HA	2.03	0.41
2:BV:68:GLU:O	2:BV:70:PRO:HD3	2.21	0.41
2:BW:149:ALA:O	2:BW:153:GLN:HG3	2.20	0.41
2:BX:149:ALA:O	2:BX:153:GLN:HG3	2.20	0.41
2:B0:83:LEU:HA	2:B0:84:PRO:HA	1.60	0.41
2:B1:115:ASN:HB3	2:B1:210:PRO:HG2	2.02	0.41
2:B4:129:VAL:HA	2:B4:130:PRO:HD3	1.98	0.41
2:B5:82:PRO:HA	2:B5:193:THR:HA	2.03	0.41
2:B5:153:GLN:CD	3:C6:87:GLY:HA3	2.46	0.41
2:B7:101:HIS:CG	2:B7:222:VAL:HG13	2.56	0.41
2:B7:149:ALA:O	2:B7:153:GLN:HG3	2.20	0.41
2:B8:134:HIS:C	2:B8:136:HIS:H	2.29	0.41
2:B9:153:GLN:CD	3:DA:87:GLY:HA3	2.45	0.41
2:Ba:43:PRO:HA	2:Ba:44:PRO:HD3	1.96	0.41
2:Bb:82:PRO:HA	2:Bb:193:THR:HA	2.03	0.41
2:Bb:129:VAL:HA	2:Bb:130:PRO:HD3	1.98	0.41
2:Bc:82:PRO:HA	2:Bc:193:THR:HA	2.03	0.41
2:Bd:82:PRO:HA	2:Bd:193:THR:HA	2.03	0.41
2:Bf:82:PRO:HA	2:Bf:193:THR:HA	2.03	0.41
2:Bf:149:ALA:O	2:Bf:153:GLN:HG3	2.20	0.41
2:Bj:82:PRO:HA	2:Bj:193:THR:HA	2.03	0.41
2:Bj:153:GLN:CD	3:Ck:87:GLY:HA3	2.46	0.41
2:Bl:134:HIS:C	2:Bl:136:HIS:H	2.29	0.41
2:Bm:101:HIS:CG	2:Bm:222:VAL:HG13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bo:82:PRO:HA	2:Bo:193:THR:HA	2.03	0.41
2:Bp:149:ALA:O	2:Bp:153:GLN:HG3	2.20	0.41
2:Bq:101:HIS:CG	2:Bq:222:VAL:HG13	2.56	0.41
2:Bs:70:PRO:HG2	2:Bs:73:GLN:HB2	2.02	0.41
2:Bt:224:GLY:HA2	2:Bt:225:PRO:HD2	1.81	0.41
2:Bw:82:PRO:HA	2:Bw:193:THR:HA	2.03	0.41
2:Bw:153:GLN:CD	3:Cx:87:GLY:HA3	2.46	0.41
2:Bx:101:HIS:CG	2:Bx:222:VAL:HG13	2.56	0.41
3:CA:8:VAL:CG1	3:CA:10:GLU:CD	2.94	0.41
3:CA:91:ALA:O	3:CA:94:SER:HB2	2.21	0.41
3:CC:8:VAL:CG1	3:CC:10:GLU:CD	2.94	0.41
3:CE:110:PHE:CD2	3:CE:148:VAL:HG11	2.55	0.41
3:CH:36:VAL:HA	3:CH:37:PRO:HD3	1.64	0.41
3:CI:8:VAL:CG1	3:CI:10:GLU:CD	2.94	0.41
3:CI:148:VAL:CG1	3:CI:149:GLY:N	2.83	0.41
3:CK:148:VAL:CG1	3:CK:149:GLY:N	2.83	0.41
3:CM:8:VAL:CG1	3:CM:10:GLU:CD	2.94	0.41
3:CM:61:TYR:CD1	3:CM:61:TYR:C	2.98	0.41
3:CM:76:MET:O	3:CM:76:MET:HG3	2.18	0.41
3:CM:101:ARG:O	3:CM:214:PHE:HA	2.21	0.41
3:CP:101:ARG:O	3:CP:214:PHE:HA	2.21	0.41
3:CR:101:ARG:O	3:CR:214:PHE:HA	2.21	0.41
3:CT:101:ARG:O	3:CT:214:PHE:HA	2.21	0.41
3:CU:4:ARG:HH11	3:CU:4:ARG:HD3	1.75	0.41
3:CV:101:ARG:O	3:CV:214:PHE:HA	2.21	0.41
3:CV:110:PHE:CD2	3:CV:148:VAL:HG11	2.55	0.41
3:CV:128:HIS:O	3:CV:129:SER:C	2.61	0.41
3:CW:91:ALA:O	3:CW:94:SER:HB2	2.21	0.41
3:CW:127:PRO:HD3	3:CW:180:SER:O	2.21	0.41
3:CY:127:PRO:HD3	3:CY:180:SER:O	2.21	0.41
3:C0:91:ALA:O	3:C0:94:SER:HB2	2.21	0.41
3:C0:128:HIS:O	3:C0:129:SER:C	2.61	0.41
3:C1:76:MET:O	3:C1:76:MET:HG3	2.18	0.41
3:C2:61:TYR:C	3:C2:61:TYR:CD1	2.98	0.41
3:C9:29:VAL:O	3:C9:29:VAL:HG23	2.21	0.41
3:C9:76:MET:O	3:C9:76:MET:HG3	2.18	0.41
3:Cc:8:VAL:CG1	3:Cc:10:GLU:CD	2.94	0.41
3:Ci:8:VAL:CG1	3:Ci:10:GLU:CD	2.94	0.41
3:Ci:76:MET:O	3:Ci:76:MET:HG3	2.18	0.41
3:Ck:8:VAL:CG1	3:Ck:10:GLU:CD	2.94	0.41
3:Cl:127:PRO:HD3	3:Cl:180:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cn:91:ALA:O	3:Cn:94:SER:HB2	2.21	0.41
3:Co:148:VAL:CG1	3:Co:149:GLY:N	2.83	0.41
3:Cr:91:ALA:O	3:Cr:94:SER:HB2	2.21	0.41
3:Cr:148:VAL:CG1	3:Cr:149:GLY:N	2.83	0.41
3:Cs:101:ARG:O	3:Cs:214:PHE:HA	2.21	0.41
3:Ct:101:ARG:O	3:Ct:214:PHE:HA	2.21	0.41
3:Cv:128:HIS:O	3:Cv:129:SER:C	2.61	0.41
3:Cw:127:PRO:HD3	3:Cw:180:SER:O	2.21	0.41
3:DA:44:ILE:HD12	3:DA:44:ILE:HA	1.87	0.41
1:DG:72:LEU:HD23	1:DG:72:LEU:HA	1.83	0.41
1:AA:187:LEU:HA	1:AA:188:PRO:HD2	1.95	0.41
1:AC:174:TRP:CH2	2:BC:139:ALA:HB3	2.55	0.41
1:AF:202:HIS:C	1:AF:203:ASP:O	2.62	0.41
1:AT:87:GLN:HE21	1:AT:210:ARG:NH2	2.12	0.41
1:AT:114:LYS:HB2	1:AW:240:PRO:HG2	2.01	0.41
1:AX:187:LEU:HA	1:AX:188:PRO:HD2	1.95	0.41
1:Ab:74:THR:O	1:Ab:74:THR:CG2	2.68	0.41
1:Ab:202:HIS:C	1:Ab:203:ASP:O	2.62	0.41
1:Ae:191:HIS:HD2	1:Ae:193:GLY:N	2.08	0.41
1:Ag:72:LEU:HD23	1:Ag:72:LEU:HA	1.83	0.41
2:BA:70:PRO:HG2	2:BA:73:GLN:HB2	2.02	0.41
2:BB:153:GLN:CD	3:CB:87:GLY:HA3	2.46	0.41
2:BF:149:ALA:O	2:BF:153:GLN:HG3	2.20	0.41
2:BJ:153:GLN:CD	3:CJ:87:GLY:HA3	2.46	0.41
2:BL:82:PRO:HA	2:BL:193:THR:HA	2.03	0.41
2:BN:68:GLU:O	2:BN:70:PRO:HD3	2.21	0.41
2:BO:70:PRO:HG2	2:BO:73:GLN:HB2	2.02	0.41
2:BO:149:ALA:O	2:BO:153:GLN:HG3	2.20	0.41
2:BS:70:PRO:HG2	2:BS:73:GLN:HB2	2.02	0.41
2:BT:149:ALA:O	2:BT:153:GLN:HG3	2.20	0.41
2:BW:70:PRO:HG2	2:BW:73:GLN:HB2	2.02	0.41
2:BY:101:HIS:CG	2:BY:222:VAL:HG13	2.56	0.41
2:B0:166:ARG:NH2	3:C0:116:THR:O	2.54	0.41
2:B1:152:TYR:HB3	2:B1:197:LEU:HD11	2.01	0.41
2:B2:166:ARG:NH2	3:C2:116:THR:O	2.54	0.41
2:B3:43:PRO:HA	2:B3:44:PRO:HD3	1.96	0.41
2:B3:70:PRO:HG2	2:B3:73:GLN:HB2	2.02	0.41
2:B4:68:GLU:O	2:B4:70:PRO:HD3	2.21	0.41
2:B4:83:LEU:HA	2:B4:84:PRO:HA	1.60	0.41
2:B5:101:HIS:CG	2:B5:222:VAL:HG13	2.56	0.41
2:B7:70:PRO:HG2	2:B7:73:GLN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:166:ARG:NH2	3:C8:116:THR:O	2.54	0.41
2:B9:101:HIS:CG	2:B9:222:VAL:HG13	2.56	0.41
2:Be:129:VAL:HA	2:Be:130:PRO:HD3	1.98	0.41
2:Be:166:ARG:NH2	3:Cf:116:THR:O	2.54	0.41
2:Bf:68:GLU:O	2:Bf:70:PRO:HD3	2.21	0.41
2:Bi:70:PRO:HG2	2:Bi:73:GLN:HB2	2.01	0.41
2:Bn:82:PRO:HA	2:Bn:193:THR:HA	2.03	0.41
2:Bo:43:PRO:HA	2:Bo:44:PRO:HD3	1.96	0.41
2:Bq:68:GLU:O	2:Bq:70:PRO:HD3	2.21	0.41
2:Bt:166:ARG:NH2	3:Cu:116:THR:O	2.54	0.41
2:Bu:166:ARG:NH2	3:Cv:116:THR:O	2.54	0.41
2:Bx:166:ARG:NH2	3:C5:116:THR:O	2.54	0.41
3:CB:101:ARG:O	3:CB:214:PHE:HA	2.21	0.41
3:CB:110:PHE:CD2	3:CB:148:VAL:HG11	2.55	0.41
3:CK:127:PRO:HD3	3:CK:180:SER:O	2.21	0.41
3:CL:128:HIS:O	3:CL:129:SER:C	2.61	0.41
3:CQ:127:PRO:HD3	3:CQ:180:SER:O	2.21	0.41
3:CX:127:PRO:HD3	3:CX:180:SER:O	2.21	0.41
3:C3:150:LEU:HA	3:C3:150:LEU:HD12	1.79	0.41
3:C5:8:VAL:CG1	3:C5:10:GLU:CD	2.94	0.41
3:C5:29:VAL:HG23	3:C5:29:VAL:O	2.21	0.41
3:C6:29:VAL:HG23	3:C6:29:VAL:O	2.21	0.41
3:C6:91:ALA:O	3:C6:94:SER:HB2	2.21	0.41
3:C7:61:TYR:CD1	3:C7:61:TYR:C	2.98	0.41
3:C8:29:VAL:O	3:C8:29:VAL:HG23	2.21	0.41
3:C8:178:ASN:HD22	3:C8:178:ASN:HA	1.65	0.41
3:Cc:29:VAL:HG23	3:Cc:29:VAL:O	2.21	0.41
3:Cf:101:ARG:O	3:Cf:214:PHE:HA	2.21	0.41
3:Cf:127:PRO:HD3	3:Cf:180:SER:O	2.21	0.41
3:Cf:148:VAL:CG1	3:Cf:149:GLY:N	2.83	0.41
3:Co:8:VAL:CG1	3:Co:10:GLU:CD	2.94	0.41
3:Ct:91:ALA:O	3:Ct:94:SER:HB2	2.21	0.41
3:DA:29:VAL:O	3:DA:29:VAL:HG23	2.21	0.41
3:DB:91:ALA:O	3:DB:94:SER:HB2	2.21	0.41
1:DC:207:CYS:O	1:DC:208:TYR:CB	2.57	0.41
1:AC:202:HIS:C	1:AC:203:ASP:O	2.62	0.40
1:AK:191:HIS:HD2	1:AK:193:GLY:N	2.08	0.40
1:AN:146:ILE:O	1:AN:147:ALA:CB	2.62	0.40
1:AR:174:TRP:CH2	2:BQ:139:ALA:HB3	2.55	0.40
1:AW:187:LEU:HA	1:AW:188:PRO:HD2	1.95	0.40
1:AX:224:ILE:HA	1:AX:225:PRO:HD2	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:74:THR:O	1:A3:74:THR:CG2	2.69	0.40
1:Aa:187:LEU:HA	1:Aa:188:PRO:HD2	1.95	0.40
1:Aa:209:LEU:HA	1:Aa:209:LEU:HD22	1.74	0.40
1:Ac:202:HIS:C	1:Ac:203:ASP:O	2.62	0.40
1:Ad:74:THR:O	1:Ad:74:THR:CG2	2.69	0.40
1:Al:220:CYS:HA	1:Al:221:PRO:HD2	1.95	0.40
2:BC:70:PRO:HG2	2:BC:73:GLN:HB2	2.02	0.40
2:BE:224:GLY:HA2	2:BE:225:PRO:HD2	1.81	0.40
2:BF:68:GLU:O	2:BF:70:PRO:HD3	2.22	0.40
2:BH:68:GLU:O	2:BH:70:PRO:HD3	2.21	0.40
2:BI:166:ARG:NH2	3:CI:116:THR:O	2.54	0.40
2:BJ:82:PRO:HA	2:BJ:193:THR:HA	2.03	0.40
2:BL:149:ALA:O	2:BL:153:GLN:HG3	2.20	0.40
2:BL:153:GLN:CD	3:CL:87:GLY:HA3	2.46	0.40
2:BM:166:ARG:NH2	3:CM:116:THR:O	2.55	0.40
2:BO:166:ARG:NH2	3:CP:116:THR:O	2.54	0.40
2:BQ:153:GLN:CD	3:CS:87:GLY:HA3	2.45	0.40
2:BT:166:ARG:NH2	3:CT:116:THR:O	2.54	0.40
2:BX:68:GLU:O	2:BX:70:PRO:HD3	2.21	0.40
2:BZ:68:GLU:O	2:BZ:70:PRO:HD3	2.21	0.40
2:BZ:153:GLN:CD	3:CZ:87:GLY:HA3	2.45	0.40
2:BZ:166:ARG:NH2	3:CZ:116:THR:O	2.55	0.40
2:B0:68:GLU:O	2:B0:70:PRO:HD3	2.22	0.40
2:B0:153:GLN:CD	3:C0:87:GLY:HA3	2.46	0.40
2:B3:101:HIS:CG	2:B3:222:VAL:HG13	2.56	0.40
2:B4:115:ASN:HB3	2:B4:210:PRO:HG2	2.02	0.40
2:B4:153:GLN:CD	3:C4:87:GLY:HA3	2.45	0.40
2:B4:224:GLY:HA2	2:B4:225:PRO:HD2	1.81	0.40
2:B6:166:ARG:NH2	3:C7:116:THR:O	2.54	0.40
2:B8:149:ALA:O	2:B8:153:GLN:HG3	2.20	0.40
2:B9:115:ASN:HB3	2:B9:210:PRO:HG2	2.02	0.40
2:Bc:101:HIS:CG	2:Bc:222:VAL:HG13	2.56	0.40
2:Bd:149:ALA:O	2:Bd:153:GLN:HG3	2.20	0.40
2:Bf:115:ASN:HB3	2:Bf:210:PRO:HG2	2.02	0.40
2:Bi:153:GLN:CD	3:Cj:87:GLY:HA3	2.46	0.40
2:Bj:101:HIS:CG	2:Bj:222:VAL:HG13	2.56	0.40
2:Bk:154:GLN:O	2:Bk:157:VAL:HB	2.22	0.40
2:Bo:68:GLU:O	2:Bo:70:PRO:HD3	2.21	0.40
2:Bp:70:PRO:HG2	2:Bp:73:GLN:HB2	2.02	0.40
2:Bp:101:HIS:CG	2:Bp:222:VAL:HG13	2.56	0.40
2:Bs:154:GLN:O	2:Bs:157:VAL:HB	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bt:101:HIS:CG	2:Bt:222:VAL:HG13	2.56	0.40
3:CD:127:PRO:HD3	3:CD:180:SER:O	2.21	0.40
3:CF:8:VAL:CG1	3:CF:10:GLU:CD	2.94	0.40
3:CG:101:ARG:O	3:CG:214:PHE:HA	2.21	0.40
3:CI:29:VAL:HG23	3:CI:29:VAL:O	2.21	0.40
3:CI:128:HIS:O	3:CI:129:SER:C	2.61	0.40
3:CO:29:VAL:HG23	3:CO:29:VAL:O	2.21	0.40
3:CO:101:ARG:O	3:CO:214:PHE:HA	2.21	0.40
3:C1:127:PRO:HD3	3:C1:180:SER:O	2.21	0.40
3:C2:101:ARG:O	3:C2:214:PHE:HA	2.21	0.40
3:C3:29:VAL:HG23	3:C3:29:VAL:O	2.21	0.40
3:C7:127:PRO:HD3	3:C7:180:SER:O	2.21	0.40
3:C8:91:ALA:O	3:C8:94:SER:HB2	2.21	0.40
3:C8:148:VAL:CG1	3:C8:149:GLY:N	2.83	0.40
3:Cd:29:VAL:HG23	3:Cd:29:VAL:O	2.21	0.40
3:Ce:101:ARG:O	3:Ce:214:PHE:HA	2.21	0.40
3:Cg:128:HIS:O	3:Cg:129:SER:C	2.61	0.40
3:CI:29:VAL:HG23	3:CI:29:VAL:O	2.21	0.40
3:Cp:127:PRO:HD3	3:Cp:180:SER:O	2.21	0.40
3:Cu:127:PRO:HD3	3:Cu:180:SER:O	2.21	0.40
3:Cv:29:VAL:HG23	3:Cv:29:VAL:O	2.22	0.40
3:Cw:150:LEU:HA	3:Cw:150:LEU:HD12	1.79	0.40
1:DD:209:LEU:HA	1:DD:209:LEU:HD22	1.74	0.40
1:DK:220:CYS:HA	1:DK:221:PRO:HD2	1.95	0.40
1:AE:241:THR:CG2	1:AE:242:ASN:N	2.85	0.40
1:AL:202:HIS:C	1:AL:203:ASP:O	2.62	0.40
1:AL:241:THR:CG2	1:AL:242:ASN:N	2.85	0.40
1:AS:87:GLN:HE21	1:AS:210:ARG:NH2	2.12	0.40
1:A0:74:THR:O	1:A0:74:THR:CG2	2.68	0.40
1:A3:212:ARG:NH2	3:C4:18:VAL:O	2.46	0.40
1:Ad:241:THR:CG2	1:Ad:242:ASN:N	2.85	0.40
1:Ae:225:PRO:HA	1:Ae:226:PRO:HD3	1.78	0.40
1:Aj:187:LEU:HA	1:Aj:188:PRO:HD2	1.95	0.40
1:Am:74:THR:HG21	3:Cn:43:PHE:CE2	2.46	0.40
1:An:241:THR:CG2	1:An:242:ASN:N	2.85	0.40
2:BB:101:HIS:CG	2:BB:222:VAL:HG13	2.56	0.40
2:BE:153:GLN:CD	3:CE:87:GLY:HA3	2.46	0.40
2:BH:149:ALA:O	2:BH:153:GLN:HG3	2.20	0.40
2:BI:101:HIS:CG	2:BI:222:VAL:HG13	2.56	0.40
2:BM:154:GLN:O	2:BM:157:VAL:HB	2.22	0.40
2:BR:101:HIS:CG	2:BR:222:VAL:HG13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:134:HIS:C	2:BO:136:HIS:H	2.29	0.40
2:BP:224:GLY:HA2	2:BP:225:PRO:HD2	1.81	0.40
2:BQ:166:ARG:NH2	3:CS:116:THR:O	2.55	0.40
2:BU:166:ARG:NH2	3:CU:116:THR:O	2.54	0.40
2:B0:82:PRO:HA	2:B0:193:THR:HA	2.03	0.40
2:B2:68:GLU:O	2:B2:70:PRO:HD3	2.21	0.40
2:B3:68:GLU:O	2:B3:70:PRO:HD3	2.22	0.40
2:B8:68:GLU:O	2:B8:70:PRO:HD3	2.22	0.40
2:B9:68:GLU:O	2:B9:70:PRO:HD3	2.21	0.40
2:Bb:149:ALA:O	2:Bb:153:GLN:HG3	2.20	0.40
2:Bc:166:ARG:NH2	3:Cd:116:THR:O	2.54	0.40
2:Bg:82:PRO:HA	2:Bg:193:THR:HA	2.03	0.40
2:Bi:68:GLU:O	2:Bi:70:PRO:HD3	2.22	0.40
2:Bk:68:GLU:O	2:Bk:70:PRO:HD3	2.21	0.40
2:Bk:153:GLN:CD	3:Cl:87:GLY:HA3	2.45	0.40
2:Bl:101:HIS:CG	2:Bl:222:VAL:HG13	2.56	0.40
2:Bn:43:PRO:HA	2:Bn:44:PRO:HD3	1.96	0.40
2:Bo:101:HIS:CG	2:Bo:222:VAL:HG13	2.56	0.40
2:Bq:149:ALA:O	2:Bq:153:GLN:HG3	2.20	0.40
2:Bs:166:ARG:NH2	3:Ct:116:THR:O	2.54	0.40
3:CD:178:ASN:HD22	3:CD:178:ASN:HA	1.65	0.40
3:CI:127:PRO:HD3	3:CI:180:SER:O	2.21	0.40
3:CJ:127:PRO:HD3	3:CJ:180:SER:O	2.21	0.40
3:CK:178:ASN:HD22	3:CK:178:ASN:HA	1.65	0.40
3:CL:91:ALA:O	3:CL:94:SER:HB2	2.21	0.40
3:CM:29:VAL:HG23	3:CM:29:VAL:O	2.21	0.40
3:CN:44:ILE:HD12	3:CN:44:ILE:HA	1.87	0.40
3:CQ:91:ALA:O	3:CQ:94:SER:HB2	2.21	0.40
3:CR:148:VAL:CG1	3:CR:149:GLY:N	2.83	0.40
3:CS:128:HIS:O	3:CS:129:SER:C	2.61	0.40
3:CU:127:PRO:HD3	3:CU:180:SER:O	2.21	0.40
3:CX:101:ARG:O	3:CX:214:PHE:HA	2.21	0.40
3:C9:56:ILE:HD12	3:C9:74:PHE:CD1	2.57	0.40
3:Ce:127:PRO:HD3	3:Ce:180:SER:O	2.21	0.40
3:Ci:101:ARG:O	3:Ci:214:PHE:HA	2.21	0.40
3:Ci:128:HIS:O	3:Ci:129:SER:C	2.61	0.40
3:Co:44:ILE:HD12	3:Co:44:ILE:HA	1.88	0.40
3:Cp:56:ILE:HD12	3:Cp:74:PHE:CD1	2.57	0.40
3:Cp:91:ALA:O	3:Cp:94:SER:HB2	2.21	0.40
3:Cs:83:ALA:CB	1:DE:231:PRO:HG2	2.48	0.40
3:Cv:91:ALA:O	3:Cv:94:SER:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cx:29:VAL:HG23	3:Cx:29:VAL:O	2.21	0.40
1:DC:202:HIS:C	1:DC:203:ASP:O	2.62	0.40
1:DG:191:HIS:HD2	1:DG:193:GLY:N	2.08	0.40
1:DJ:146:ILE:O	1:DJ:147:ALA:CB	2.62	0.40
1:AC:187:LEU:HA	1:AC:188:PRO:HD2	1.95	0.40
1:AO:187:LEU:HA	1:AO:188:PRO:HD2	1.95	0.40
1:AQ:241:THR:CG2	1:AQ:242:ASN:N	2.85	0.40
1:AR:74:THR:O	1:AR:74:THR:CG2	2.68	0.40
1:AX:241:THR:CG2	1:AX:242:ASN:N	2.85	0.40
1:A1:241:THR:CG2	1:A1:242:ASN:N	2.85	0.40
1:A4:202:HIS:C	1:A4:203:ASP:O	2.62	0.40
1:A7:220:CYS:HA	1:A7:221:PRO:HD2	1.95	0.40
1:A8:74:THR:O	1:A8:74:THR:CG2	2.69	0.40
1:Ah:202:HIS:C	1:Ah:203:ASP:O	2.62	0.40
1:Ak:187:LEU:HA	1:Ak:188:PRO:HD2	1.95	0.40
2:BA:166:ARG:NH2	3:CA:116:THR:O	2.55	0.40
2:BC:101:HIS:CG	2:BC:222:VAL:HG13	2.56	0.40
2:BD:101:HIS:CG	2:BD:222:VAL:HG13	2.56	0.40
2:BE:166:ARG:NH2	3:CE:116:THR:O	2.54	0.40
2:BF:154:GLN:O	2:BF:157:VAL:HB	2.22	0.40
2:BR:68:GLU:O	2:BR:70:PRO:HD3	2.22	0.40
2:BR:129:VAL:HA	2:BR:130:PRO:HD3	1.98	0.40
2:BS:101:HIS:CG	2:BS:222:VAL:HG13	2.56	0.40
2:BQ:82:PRO:HA	2:BQ:193:THR:HA	2.03	0.40
2:BY:166:ARG:NH2	3:CY:116:THR:O	2.54	0.40
2:B8:83:LEU:HA	2:B8:84:PRO:HA	1.60	0.40
2:Ba:101:HIS:CG	2:Ba:222:VAL:HG13	2.56	0.40
2:Ba:166:ARG:NH2	3:DB:116:THR:O	2.54	0.40
2:Bc:68:GLU:O	2:Bc:70:PRO:HD3	2.22	0.40
2:Bg:154:GLN:O	2:Bg:157:VAL:HB	2.22	0.40
2:Bh:166:ARG:NH2	3:Ci:116:THR:O	2.55	0.40
2:Bl:82:PRO:HA	2:Bl:193:THR:HA	2.03	0.40
2:Bs:68:GLU:O	2:Bs:70:PRO:HD3	2.22	0.40
2:Bs:83:LEU:HA	2:Bs:84:PRO:HA	1.60	0.40
2:Bs:224:GLY:HA2	2:Bs:225:PRO:HD2	1.81	0.40
2:Bt:139:ALA:HB3	1:DG:174:TRP:CH2	2.55	0.40
3:CB:91:ALA:O	3:CB:94:SER:HB2	2.21	0.40
3:CC:15:MET:HB2	3:CD:25:LEU:HD21	2.04	0.40
3:CC:91:ALA:O	3:CC:94:SER:HB2	2.21	0.40
3:CD:56:ILE:HD12	3:CD:74:PHE:CD1	2.57	0.40
3:CF:36:VAL:HA	3:CF:37:PRO:HD3	1.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:8:VAL:CG1	3:CH:10:GLU:CD	2.94	0.40
3:CI:56:ILE:HD12	3:CI:74:PHE:CD1	2.57	0.40
3:CK:101:ARG:O	3:CK:214:PHE:HA	2.21	0.40
3:CL:150:LEU:HD12	3:CL:150:LEU:HA	1.79	0.40
3:CM:15:MET:HB2	3:CN:25:LEU:HD21	2.03	0.40
3:CM:127:PRO:HD3	3:CM:180:SER:O	2.21	0.40
3:CM:150:LEU:HD12	3:CM:150:LEU:HA	1.79	0.40
3:CX:29:VAL:HG23	3:CX:29:VAL:O	2.21	0.40
3:CZ:8:VAL:CG1	3:CZ:10:GLU:CD	2.94	0.40
3:C0:29:VAL:O	3:C0:29:VAL:HG23	2.21	0.40
3:C5:56:ILE:HD12	3:C5:74:PHE:CD1	2.57	0.40
3:C8:101:ARG:O	3:C8:214:PHE:HA	2.21	0.40
3:C8:127:PRO:HD3	3:C8:180:SER:O	2.21	0.40
3:C9:25:LEU:HD21	3:Cc:15:MET:HB2	2.04	0.40
3:Cc:56:ILE:HD12	3:Cc:74:PHE:CD1	2.57	0.40
3:Cc:101:ARG:O	3:Cc:214:PHE:HA	2.21	0.40
3:Cf:91:ALA:O	3:Cf:94:SER:HB2	2.21	0.40
3:Cg:56:ILE:HD12	3:Cg:74:PHE:CD1	2.57	0.40
3:Cm:29:VAL:O	3:Cm:29:VAL:HG23	2.21	0.40
3:Cn:101:ARG:O	3:Cn:214:PHE:HA	2.21	0.40
3:Cn:148:VAL:CG1	3:Cn:149:GLY:N	2.83	0.40
3:Cs:127:PRO:HD3	3:Cs:180:SER:O	2.21	0.40
3:Cw:29:VAL:HG23	3:Cw:29:VAL:O	2.21	0.40
3:Cw:91:ALA:O	3:Cw:94:SER:HB2	2.21	0.40
3:Cw:101:ARG:O	3:Cw:214:PHE:HA	2.21	0.40
3:DB:4:ARG:HH11	3:DB:4:ARG:HD3	1.75	0.40
3:DB:127:PRO:HD3	3:DB:180:SER:O	2.21	0.40
1:DI:74:THR:O	1:DI:74:THR:CG2	2.69	0.40
1:AE:1:VAL:C	1:AE:3:ASN:H	2.24	0.40
1:AE:72:LEU:HD23	1:AE:72:LEU:HA	1.83	0.40
1:AP:241:THR:CG2	1:AP:242:ASN:N	2.85	0.40
1:AW:72:LEU:HD23	1:AW:72:LEU:HA	1.83	0.40
1:A6:241:THR:CG2	1:A6:242:ASN:N	2.85	0.40
1:Ag:191:HIS:HD2	1:Ag:193:GLY:N	2.08	0.40
1:Ah:212:ARG:NH2	3:Ci:18:VAL:O	2.46	0.40
1:Al:146:ILE:O	1:Al:147:ALA:CB	2.62	0.40
1:Al:241:THR:CG2	1:Al:242:ASN:N	2.85	0.40
1:An:202:HIS:C	1:An:203:ASP:O	2.62	0.40
1:Ao:212:ARG:NH2	3:Cp:18:VAL:O	2.46	0.40
2:BA:68:GLU:O	2:BA:70:PRO:HD3	2.22	0.40
2:BD:149:ALA:O	2:BD:153:GLN:HG3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:224:GLY:HA2	2:BD:225:PRO:HD2	1.81	0.40
2:BH:115:ASN:HB3	2:BH:210:PRO:HG2	2.02	0.40
2:BH:154:GLN:O	2:BH:157:VAL:HB	2.22	0.40
2:BK:82:PRO:HA	2:BK:193:THR:HA	2.03	0.40
2:BS:68:GLU:O	2:BS:70:PRO:HD3	2.21	0.40
2:BP:82:PRO:HA	2:BP:193:THR:HA	2.03	0.40
2:BP:83:LEU:HA	2:BP:84:PRO:HA	1.60	0.40
2:BQ:68:GLU:O	2:BQ:70:PRO:HD3	2.21	0.40
2:BT:68:GLU:O	2:BT:70:PRO:HD3	2.22	0.40
2:BX:224:GLY:HA2	2:BX:225:PRO:HD2	1.81	0.40
2:BY:82:PRO:HA	2:BY:193:THR:HA	2.03	0.40
2:BZ:82:PRO:HA	2:BZ:193:THR:HA	2.03	0.40
2:B1:101:HIS:CG	2:B1:222:VAL:HG13	2.56	0.40
2:B1:129:VAL:HA	2:B1:130:PRO:HD3	1.98	0.40
2:Ba:154:GLN:O	2:Ba:157:VAL:HB	2.22	0.40
2:Bc:153:GLN:CD	3:Cd:87:GLY:HA3	2.46	0.40
2:Bd:68:GLU:O	2:Bd:70:PRO:HD3	2.22	0.40
2:Bf:101:HIS:CG	2:Bf:222:VAL:HG13	2.56	0.40
2:Bk:166:ARG:NH2	3:Cl:116:THR:O	2.54	0.40
2:Bq:154:GLN:O	2:Bq:157:VAL:HB	2.22	0.40
2:Bs:115:ASN:HB3	2:Bs:210:PRO:HG2	2.02	0.40
2:Bt:153:GLN:CD	3:Cu:87:GLY:HA3	2.46	0.40
2:Bv:68:GLU:O	2:Bv:70:PRO:HD3	2.22	0.40
3:CC:25:LEU:HD21	3:CE:15:MET:HB2	2.04	0.40
3:CE:56:ILE:HD12	3:CE:74:PHE:CD1	2.57	0.40
3:CE:127:PRO:HD3	3:CE:180:SER:O	2.21	0.40
3:CG:91:ALA:O	3:CG:94:SER:HB2	2.21	0.40
3:CH:110:PHE:CD2	3:CH:148:VAL:HG11	2.55	0.40
3:CL:15:MET:HB2	3:CO:25:LEU:HD21	2.04	0.40
3:CS:56:ILE:HD12	3:CS:74:PHE:CD1	2.57	0.40
3:CT:56:ILE:HD12	3:CT:74:PHE:CD1	2.57	0.40
3:CU:29:VAL:O	3:CU:29:VAL:HG23	2.21	0.40
3:CV:29:VAL:O	3:CV:29:VAL:HG23	2.21	0.40
3:CY:56:ILE:HD12	3:CY:74:PHE:CD1	2.57	0.40
3:C9:8:VAL:CG1	3:C9:10:GLU:CD	2.94	0.40
3:Ce:56:ILE:HD12	3:Ce:74:PHE:CD1	2.57	0.40
3:Cf:56:ILE:HD12	3:Cf:74:PHE:CD1	2.57	0.40
3:Cg:25:LEU:HD21	3:Ci:15:MET:HB2	2.04	0.40
3:Ch:56:ILE:HD12	3:Ch:74:PHE:CD1	2.57	0.40
3:Cl:29:VAL:O	3:Cl:29:VAL:HG23	2.21	0.40
3:Cl:91:ALA:O	3:Cl:94:SER:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cq:15:MET:HB2	3:Cr:25:LEU:HD21	2.04	0.40
3:Cr:29:VAL:HG23	3:Cr:29:VAL:O	2.21	0.40
3:Cr:56:ILE:HD12	3:Cr:74:PHE:CD1	2.57	0.40
3:Ct:25:LEU:HD21	3:Cw:15:MET:HB2	2.04	0.40
3:Ct:83:ALA:CB	1:DF:231:PRO:HG2	2.48	0.40
3:Cv:83:ALA:CB	1:DH:231:PRO:HG2	2.48	0.40
1:DI:146:ILE:O	1:DI:147:ALA:CB	2.62	0.40
1:AB:212:ARG:NH2	3:CB:18:VAL:O	2.46	0.40
1:AL:209:LEU:HA	1:AL:209:LEU:HD22	1.74	0.40
1:AT:74:THR:O	1:AT:74:THR:CG2	2.69	0.40
1:AY:187:LEU:HA	1:AY:188:PRO:HD2	1.95	0.40
1:A1:225:PRO:HA	1:A1:226:PRO:HD3	1.78	0.40
1:A2:224:ILE:HA	1:A2:225:PRO:HD2	1.95	0.40
1:Ae:241:THR:CG2	1:Ae:242:ASN:N	2.85	0.40
1:Af:220:CYS:HA	1:Af:221:PRO:HD2	1.95	0.40
1:Ag:220:CYS:HA	1:Ag:221:PRO:HD2	1.95	0.40
1:Ah:231:PRO:HG2	3:Ci:83:ALA:CB	2.48	0.40
2:BA:154:GLN:O	2:BA:157:VAL:HB	2.22	0.40
2:BC:68:GLU:O	2:BC:70:PRO:HD3	2.22	0.40
2:BC:154:GLN:O	2:BC:157:VAL:HB	2.22	0.40
2:BD:68:GLU:O	2:BD:70:PRO:HD3	2.21	0.40
2:BE:154:GLN:O	2:BE:157:VAL:HB	2.22	0.40
2:BJ:166:ARG:NH2	3:CJ:116:THR:O	2.54	0.40
2:BN:82:PRO:HA	2:BN:193:THR:HA	2.03	0.40
2:BN:118:PHE:HE2	2:Be:118:PHE:CD1	1.99	0.40
2:BR:154:GLN:O	2:BR:157:VAL:HB	2.22	0.40
2:BO:154:GLN:O	2:BO:157:VAL:HB	2.22	0.40
2:BP:154:GLN:O	2:BP:157:VAL:HB	2.22	0.40
2:BQ:154:GLN:O	2:BQ:157:VAL:HB	2.22	0.40
2:BX:82:PRO:HA	2:BX:193:THR:HA	2.03	0.40
2:B0:154:GLN:O	2:B0:157:VAL:HB	2.22	0.40
2:B1:82:PRO:HA	2:B1:193:THR:HA	2.03	0.40
2:B1:83:LEU:HA	2:B1:84:PRO:HA	1.60	0.40
2:B2:101:HIS:CG	2:B2:222:VAL:HG13	2.56	0.40
2:B4:43:PRO:HA	2:B4:44:PRO:HD3	1.96	0.40
2:B5:166:ARG:NH2	3:C6:116:THR:O	2.54	0.40
2:B8:129:VAL:HA	2:B8:130:PRO:HD3	1.98	0.40
2:Ba:68:GLU:O	2:Ba:70:PRO:HD3	2.21	0.40
2:Be:154:GLN:O	2:Be:157:VAL:HB	2.22	0.40
2:Bg:166:ARG:NH2	3:Ch:116:THR:O	2.54	0.40
2:Bj:134:HIS:C	2:Bj:136:HIS:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bk:82:PRO:HA	2:Bk:193:THR:HA	2.03	0.40
2:Bl:166:ARG:NH2	3:Cm:116:THR:O	2.54	0.40
2:Bm:68:GLU:O	2:Bm:70:PRO:HD3	2.22	0.40
2:Bn:101:HIS:CG	2:Bn:222:VAL:HG13	2.56	0.40
2:Bt:68:GLU:O	2:Bt:70:PRO:HD3	2.22	0.40
2:Bu:149:ALA:O	2:Bu:153:GLN:HG3	2.20	0.40
2:Bv:82:PRO:HA	2:Bv:193:THR:HA	2.03	0.40
2:Bw:68:GLU:O	2:Bw:70:PRO:HD3	2.22	0.40
2:Bw:129:VAL:HA	2:Bw:130:PRO:HD3	1.98	0.40
2:Bx:153:GLN:CD	3:C5:87:GLY:HA3	2.46	0.40
3:CA:25:LEU:HD21	3:CD:15:MET:HB2	2.04	0.40
3:CB:127:PRO:HD3	3:CB:180:SER:O	2.21	0.40
3:CF:25:LEU:HD21	3:CI:15:MET:HB2	2.04	0.40
3:CG:127:PRO:HD3	3:CG:180:SER:O	2.21	0.40
3:CH:101:ARG:O	3:CH:214:PHE:HA	2.21	0.40
3:CN:56:ILE:HD12	3:CN:74:PHE:CD1	2.57	0.40
3:CO:56:ILE:HD12	3:CO:74:PHE:CD1	2.57	0.40
3:CO:148:VAL:CG1	3:CO:149:GLY:N	2.83	0.40
3:CP:15:MET:HB2	3:CQ:25:LEU:HD21	2.04	0.40
3:CT:29:VAL:HG23	3:CT:29:VAL:O	2.21	0.40
3:CX:56:ILE:HD11	3:CX:206:VAL:HG13	2.04	0.40
3:CZ:127:PRO:HD3	3:CZ:180:SER:O	2.21	0.40
3:C4:56:ILE:HD12	3:C4:74:PHE:CD1	2.57	0.40
3:C6:56:ILE:HD12	3:C6:74:PHE:CD1	2.57	0.40
3:C7:56:ILE:HD12	3:C7:74:PHE:CD1	2.57	0.40
3:C9:91:ALA:O	3:C9:94:SER:HB2	2.21	0.40
3:Ce:15:MET:HB2	3:Cf:25:LEU:HD21	2.04	0.40
3:Cg:101:ARG:O	3:Cg:214:PHE:HA	2.21	0.40
3:Cj:56:ILE:HD12	3:Cj:74:PHE:CD1	2.57	0.40
3:Ck:29:VAL:HG23	3:Ck:29:VAL:O	2.21	0.40
3:Cp:29:VAL:O	3:Cp:29:VAL:HG23	2.21	0.40
3:Cq:25:LEU:HD21	3:Cs:15:MET:HB2	2.04	0.40
3:Cr:83:ALA:CB	1:DD:231:PRO:HG2	2.48	0.40
3:Cu:56:ILE:HD12	3:Cu:74:PHE:CD1	2.57	0.40
3:Cv:101:ARG:O	3:Cv:214:PHE:HA	2.21	0.40
3:DA:56:ILE:HD12	3:DA:74:PHE:CD1	2.57	0.40
3:DA:127:PRO:HD3	3:DA:180:SER:O	2.21	0.40
3:DB:29:VAL:HG23	3:DB:29:VAL:O	2.21	0.40
3:DB:56:ILE:HD12	3:DB:74:PHE:CD1	2.57	0.40
3:DB:101:ARG:O	3:DB:214:PHE:HA	2.21	0.40
1:DF:202:HIS:C	1:DF:203:ASP:O	2.62	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A0	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A1	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A2	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A3	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A4	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A5	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A6	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A7	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A8	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	A9	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AA	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AB	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AC	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AD	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AE	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AF	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AG	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AH	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AI	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AJ	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AK	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AL	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AM	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AN	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AO	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AP	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AQ	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AR	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AS	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AT	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AU	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AV	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AW	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AX	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AY	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	AZ	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Aa	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ab	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ac	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ad	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ae	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Af	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ag	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ah	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ai	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Aj	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ak	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Al	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Am	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	An	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	Ao	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DC	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DD	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DE	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DF	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DG	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DH	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DI	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DJ	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
1	DK	244/246 (99%)	206 (84%)	24 (10%)	14 (6%)	1	14
2	B0	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B1	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B2	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B3	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B4	198/200 (99%)	184 (93%)	6 (3%)	8 (4%)	2	18
2	B5	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B6	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B7	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B8	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	B9	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BA	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BB	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BC	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BD	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BE	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BF	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BG	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BH	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BI	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BJ	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BK	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BL	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BM	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BN	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	BO	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BP	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BQ	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BR	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BS	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BT	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BU	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BV	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BW	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BX	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BY	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	BZ	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Ba	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bb	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bc	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bd	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Be	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bf	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bg	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bh	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bi	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bj	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bk	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bl	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bm	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bn	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bo	198/200 (99%)	184 (93%)	6 (3%)	8 (4%)	2	18
2	Bp	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bq	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Br	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bs	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Bt	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bu	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bv	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bw	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
2	Bx	198/200 (99%)	183 (92%)	7 (4%)	8 (4%)	2	18
3	C0	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C1	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C2	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C3	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C4	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C5	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C6	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C7	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C8	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	C9	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CA	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CB	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CC	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CD	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CE	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CF	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CG	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CH	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CI	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CJ	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CK	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CL	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CM	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CN	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CO	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CP	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	CQ	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CR	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CS	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CT	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CU	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CV	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CW	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CX	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CY	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	CZ	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cc	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cd	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Ce	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cf	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cg	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Ch	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Ci	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cj	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Ck	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cl	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cm	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cn	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Co	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cp	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cq	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cr	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cs	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Ct	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cu	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cv	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	Cw	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Cx	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	DA	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
3	DB	224/226 (99%)	204 (91%)	14 (6%)	6 (3%)	4	25
All	All	39960/40320 (99%)	35582 (89%)	2698 (7%)	1680 (4%)	3	17

All (1680) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AA	2	THR
1	AA	5	GLY
1	AA	41	GLU
1	AA	202	HIS
1	AA	244	ASN
1	AB	2	THR
1	AB	5	GLY
1	AB	41	GLU
1	AB	202	HIS
1	AB	244	ASN
1	AC	2	THR
1	AC	5	GLY
1	AC	41	GLU
1	AC	202	HIS
1	AC	244	ASN
1	AD	2	THR
1	AD	5	GLY
1	AD	41	GLU
1	AD	202	HIS
1	AD	244	ASN
1	AE	2	THR
1	AE	5	GLY
1	AE	41	GLU
1	AE	202	HIS
1	AE	244	ASN
1	AF	2	THR
1	AF	5	GLY
1	AF	41	GLU
1	AF	202	HIS
1	AF	244	ASN
1	AG	2	THR
1	AG	5	GLY
1	AG	41	GLU

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Mol	Chain	Res	Type
1	AG	202	HIS
1	AG	244	ASN
1	AH	2	THR
1	AH	5	GLY
1	AH	41	GLU
1	AH	202	HIS
1	AH	244	ASN
1	AI	2	THR
1	AI	5	GLY
1	AI	41	GLU
1	AI	202	HIS
1	AI	244	ASN
1	AJ	2	THR
1	AJ	5	GLY
1	AJ	41	GLU
1	AJ	202	HIS
1	AJ	244	ASN
1	AK	2	THR
1	AK	5	GLY
1	AK	41	GLU
1	AK	202	HIS
1	AK	244	ASN
1	AL	2	THR
1	AL	5	GLY
1	AL	41	GLU
1	AL	202	HIS
1	AL	244	ASN
1	AM	2	THR
1	AM	5	GLY
1	AM	41	GLU
1	AM	202	HIS
1	AM	244	ASN
1	AN	2	THR
1	AN	5	GLY
1	AN	41	GLU
1	AN	202	HIS
1	AN	244	ASN
1	AO	2	THR
1	AO	5	GLY
1	AO	41	GLU
1	AO	202	HIS
1	AO	244	ASN

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Mol	Chain	Res	Type
1	AP	2	THR
1	AP	5	GLY
1	AP	41	GLU
1	AP	202	HIS
1	AP	244	ASN
1	AQ	2	THR
1	AQ	5	GLY
1	AQ	41	GLU
1	AQ	202	HIS
1	AQ	244	ASN
1	AR	2	THR
1	AR	5	GLY
1	AR	41	GLU
1	AR	202	HIS
1	AR	244	ASN
1	AS	2	THR
1	AS	5	GLY
1	AS	41	GLU
1	AS	202	HIS
1	AS	244	ASN
1	AT	2	THR
1	AT	5	GLY
1	AT	41	GLU
1	AT	202	HIS
1	AT	244	ASN
1	AU	2	THR
1	AU	5	GLY
1	AU	41	GLU
1	AU	202	HIS
1	AU	244	ASN
1	AV	2	THR
1	AV	5	GLY
1	AV	41	GLU
1	AV	202	HIS
1	AV	244	ASN
1	AW	2	THR
1	AW	5	GLY
1	AW	41	GLU
1	AW	202	HIS
1	AW	244	ASN
1	AX	2	THR
1	AX	5	GLY

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Mol	Chain	Res	Type
1	AX	41	GLU
1	AX	202	HIS
1	AX	244	ASN
1	AY	2	THR
1	AY	5	GLY
1	AY	41	GLU
1	AY	202	HIS
1	AY	244	ASN
1	AZ	2	THR
1	AZ	5	GLY
1	AZ	41	GLU
1	AZ	202	HIS
1	AZ	244	ASN
1	A0	2	THR
1	A0	5	GLY
1	A0	41	GLU
1	A0	202	HIS
1	A0	244	ASN
1	A1	2	THR
1	A1	5	GLY
1	A1	41	GLU
1	A1	202	HIS
1	A1	244	ASN
1	A2	2	THR
1	A2	5	GLY
1	A2	41	GLU
1	A2	202	HIS
1	A2	244	ASN
1	A3	2	THR
1	A3	5	GLY
1	A3	41	GLU
1	A3	202	HIS
1	A3	244	ASN
1	A4	2	THR
1	A4	5	GLY
1	A4	41	GLU
1	A4	202	HIS
1	A4	244	ASN
1	A5	2	THR
1	A5	5	GLY
1	A5	41	GLU
1	A5	202	HIS

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Mol	Chain	Res	Type
1	A5	244	ASN
1	A6	2	THR
1	A6	5	GLY
1	A6	41	GLU
1	A6	202	HIS
1	A6	244	ASN
1	A7	2	THR
1	A7	5	GLY
1	A7	41	GLU
1	A7	202	HIS
1	A7	244	ASN
1	A8	2	THR
1	A8	5	GLY
1	A8	41	GLU
1	A8	202	HIS
1	A8	244	ASN
1	A9	2	THR
1	A9	5	GLY
1	A9	41	GLU
1	A9	202	HIS
1	A9	244	ASN
1	Aa	2	THR
1	Aa	5	GLY
1	Aa	41	GLU
1	Aa	202	HIS
1	Aa	244	ASN
1	Ab	2	THR
1	Ab	5	GLY
1	Ab	41	GLU
1	Ab	202	HIS
1	Ab	244	ASN
1	Ac	2	THR
1	Ac	5	GLY
1	Ac	41	GLU
1	Ac	202	HIS
1	Ac	244	ASN
1	Ad	2	THR
1	Ad	5	GLY
1	Ad	41	GLU
1	Ad	202	HIS
1	Ad	244	ASN
1	Ae	2	THR

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Mol	Chain	Res	Type
1	Ae	5	GLY
1	Ae	41	GLU
1	Ae	202	HIS
1	Ae	244	ASN
1	Af	2	THR
1	Af	5	GLY
1	Af	41	GLU
1	Af	202	HIS
1	Af	244	ASN
1	Ag	2	THR
1	Ag	5	GLY
1	Ag	41	GLU
1	Ag	202	HIS
1	Ag	244	ASN
1	Ah	2	THR
1	Ah	5	GLY
1	Ah	41	GLU
1	Ah	202	HIS
1	Ah	244	ASN
1	Ai	2	THR
1	Ai	5	GLY
1	Ai	41	GLU
1	Ai	202	HIS
1	Ai	244	ASN
1	Aj	2	THR
1	Aj	5	GLY
1	Aj	41	GLU
1	Aj	202	HIS
1	Aj	244	ASN
1	Ak	2	THR
1	Ak	5	GLY
1	Ak	41	GLU
1	Ak	202	HIS
1	Ak	244	ASN
1	Al	2	THR
1	Al	5	GLY
1	Al	41	GLU
1	Al	202	HIS
1	Al	244	ASN
1	Am	2	THR
1	Am	5	GLY
1	Am	41	GLU

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Mol	Chain	Res	Type
1	Am	202	HIS
1	Am	244	ASN
1	An	2	THR
1	An	5	GLY
1	An	41	GLU
1	An	202	HIS
1	An	244	ASN
1	Ao	2	THR
1	Ao	5	GLY
1	Ao	41	GLU
1	Ao	202	HIS
1	Ao	244	ASN
2	BA	84	PRO
2	BA	85	SER
2	BA	134	HIS
2	BA	135	THR
2	BB	84	PRO
2	BB	85	SER
2	BB	134	HIS
2	BB	135	THR
2	BC	84	PRO
2	BC	85	SER
2	BC	134	HIS
2	BC	135	THR
2	BD	84	PRO
2	BD	85	SER
2	BD	134	HIS
2	BD	135	THR
2	BE	84	PRO
2	BE	85	SER
2	BE	134	HIS
2	BE	135	THR
2	BF	84	PRO
2	BF	85	SER
2	BF	134	HIS
2	BF	135	THR
2	BG	84	PRO
2	BG	85	SER
2	BG	134	HIS
2	BG	135	THR
2	BH	84	PRO
2	BH	85	SER

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Mol	Chain	Res	Type
2	BH	134	HIS
2	BH	135	THR
2	BI	84	PRO
2	BI	85	SER
2	BI	134	HIS
2	BI	135	THR
2	BJ	84	PRO
2	BJ	85	SER
2	BJ	134	HIS
2	BJ	135	THR
2	BK	84	PRO
2	BK	85	SER
2	BK	134	HIS
2	BK	135	THR
2	BL	84	PRO
2	BL	85	SER
2	BL	134	HIS
2	BL	135	THR
2	BM	84	PRO
2	BM	85	SER
2	BM	134	HIS
2	BM	135	THR
2	BN	84	PRO
2	BN	85	SER
2	BN	134	HIS
2	BN	135	THR
2	BR	84	PRO
2	BR	85	SER
2	BR	134	HIS
2	BR	135	THR
2	BO	84	PRO
2	BO	85	SER
2	BO	134	HIS
2	BO	135	THR
2	BS	84	PRO
2	BS	85	SER
2	BS	134	HIS
2	BS	135	THR
2	BP	84	PRO
2	BP	85	SER
2	BP	134	HIS
2	BP	135	THR

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Mol	Chain	Res	Type
2	BQ	84	PRO
2	BQ	85	SER
2	BQ	134	HIS
2	BQ	135	THR
2	BT	84	PRO
2	BT	85	SER
2	BT	134	HIS
2	BT	135	THR
2	BU	84	PRO
2	BU	85	SER
2	BU	134	HIS
2	BU	135	THR
2	BV	84	PRO
2	BV	85	SER
2	BV	134	HIS
2	BV	135	THR
2	BW	84	PRO
2	BW	85	SER
2	BW	134	HIS
2	BW	135	THR
2	BX	84	PRO
2	BX	85	SER
2	BX	134	HIS
2	BX	135	THR
2	BY	84	PRO
2	BY	85	SER
2	BY	134	HIS
2	BY	135	THR
2	BZ	84	PRO
2	BZ	85	SER
2	BZ	134	HIS
2	BZ	135	THR
2	B0	84	PRO
2	B0	85	SER
2	B0	134	HIS
2	B0	135	THR
2	B1	84	PRO
2	B1	85	SER
2	B1	134	HIS
2	B1	135	THR
2	B2	84	PRO
2	B2	85	SER

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Mol	Chain	Res	Type
2	B2	134	HIS
2	B2	135	THR
2	B3	84	PRO
2	B3	85	SER
2	B3	134	HIS
2	B3	135	THR
2	B4	84	PRO
2	B4	85	SER
2	B4	134	HIS
2	B4	135	THR
2	B5	84	PRO
2	B5	85	SER
2	B5	134	HIS
2	B5	135	THR
2	B6	84	PRO
2	B6	85	SER
2	B6	134	HIS
2	B6	135	THR
2	B7	84	PRO
2	B7	85	SER
2	B7	134	HIS
2	B7	135	THR
2	B8	84	PRO
2	B8	85	SER
2	B8	134	HIS
2	B8	135	THR
2	B9	84	PRO
2	B9	85	SER
2	B9	134	HIS
2	B9	135	THR
2	Ba	84	PRO
2	Ba	85	SER
2	Ba	134	HIS
2	Ba	135	THR
2	Bb	84	PRO
2	Bb	85	SER
2	Bb	134	HIS
2	Bb	135	THR
2	Bc	84	PRO
2	Bc	85	SER
2	Bc	134	HIS
2	Bc	135	THR

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Mol	Chain	Res	Type
2	Bd	84	PRO
2	Bd	85	SER
2	Bd	134	HIS
2	Bd	135	THR
2	Be	84	PRO
2	Be	85	SER
2	Be	134	HIS
2	Be	135	THR
2	Bf	84	PRO
2	Bf	85	SER
2	Bf	134	HIS
2	Bf	135	THR
2	Bg	84	PRO
2	Bg	85	SER
2	Bg	134	HIS
2	Bg	135	THR
2	Bh	84	PRO
2	Bh	85	SER
2	Bh	134	HIS
2	Bh	135	THR
2	Bi	84	PRO
2	Bi	85	SER
2	Bi	134	HIS
2	Bi	135	THR
2	Bj	84	PRO
2	Bj	85	SER
2	Bj	134	HIS
2	Bj	135	THR
2	Bk	84	PRO
2	Bk	85	SER
2	Bk	134	HIS
2	Bk	135	THR
2	Bl	84	PRO
2	Bl	85	SER
2	Bl	134	HIS
2	Bl	135	THR
2	Bm	84	PRO
2	Bm	85	SER
2	Bm	134	HIS
2	Bm	135	THR
2	Bn	84	PRO
2	Bn	85	SER

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Mol	Chain	Res	Type
2	Bn	134	HIS
2	Bn	135	THR
2	Bo	84	PRO
2	Bo	85	SER
2	Bo	134	HIS
2	Bo	135	THR
2	Bp	84	PRO
2	Bp	85	SER
2	Bp	134	HIS
2	Bp	135	THR
2	Bq	84	PRO
2	Bq	85	SER
2	Bq	134	HIS
2	Bq	135	THR
2	Br	84	PRO
2	Br	85	SER
2	Br	134	HIS
2	Br	135	THR
2	Bs	84	PRO
2	Bs	85	SER
2	Bs	134	HIS
2	Bs	135	THR
2	Bt	84	PRO
2	Bt	85	SER
2	Bt	134	HIS
2	Bt	135	THR
2	Bu	84	PRO
2	Bu	85	SER
2	Bu	134	HIS
2	Bu	135	THR
2	Bv	84	PRO
2	Bv	85	SER
2	Bv	134	HIS
2	Bv	135	THR
2	Bw	84	PRO
2	Bw	85	SER
2	Bw	134	HIS
2	Bw	135	THR
2	Bx	84	PRO
2	Bx	85	SER
2	Bx	134	HIS
2	Bx	135	THR

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Mol	Chain	Res	Type
3	CA	11	SER
3	CA	36	VAL
3	CB	11	SER
3	CB	36	VAL
3	CC	11	SER
3	CC	36	VAL
3	CD	11	SER
3	CD	36	VAL
3	CE	11	SER
3	CE	36	VAL
3	CF	11	SER
3	CF	36	VAL
3	CG	11	SER
3	CG	36	VAL
3	CH	11	SER
3	CH	36	VAL
3	CI	11	SER
3	CI	36	VAL
3	CJ	11	SER
3	CJ	36	VAL
3	CK	11	SER
3	CK	36	VAL
3	CL	11	SER
3	CL	36	VAL
3	CM	11	SER
3	CM	36	VAL
3	CN	11	SER
3	CN	36	VAL
3	CO	11	SER
3	CO	36	VAL
3	CP	11	SER
3	CP	36	VAL
3	CQ	11	SER
3	CQ	36	VAL
3	CR	11	SER
3	CR	36	VAL
3	CS	11	SER
3	CS	36	VAL
3	CT	11	SER
3	CT	36	VAL
3	CU	11	SER
3	CU	36	VAL

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Mol	Chain	Res	Type
3	CV	11	SER
3	CV	36	VAL
3	CW	11	SER
3	CW	36	VAL
3	CX	11	SER
3	CX	36	VAL
3	CY	11	SER
3	CY	36	VAL
3	CZ	11	SER
3	CZ	36	VAL
3	C0	11	SER
3	C0	36	VAL
3	C1	11	SER
3	C1	36	VAL
3	C2	11	SER
3	C2	36	VAL
3	C3	11	SER
3	C3	36	VAL
3	C4	11	SER
3	C4	36	VAL
3	C5	11	SER
3	C5	36	VAL
3	C6	11	SER
3	C6	36	VAL
3	C7	11	SER
3	C7	36	VAL
3	C8	11	SER
3	C8	36	VAL
3	C9	11	SER
3	C9	36	VAL
3	Cc	11	SER
3	Cc	36	VAL
3	Cd	11	SER
3	Cd	36	VAL
3	Ce	11	SER
3	Ce	36	VAL
3	Cf	11	SER
3	Cf	36	VAL
3	Cg	11	SER
3	Cg	36	VAL
3	Ch	11	SER
3	Ch	36	VAL

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Mol	Chain	Res	Type
3	Ci	11	SER
3	Ci	36	VAL
3	Cj	11	SER
3	Cj	36	VAL
3	Ck	11	SER
3	Ck	36	VAL
3	Cl	11	SER
3	Cl	36	VAL
3	Cm	11	SER
3	Cm	36	VAL
3	Cn	11	SER
3	Cn	36	VAL
3	Co	11	SER
3	Co	36	VAL
3	Cp	11	SER
3	Cp	36	VAL
3	Cq	11	SER
3	Cq	36	VAL
3	Cr	11	SER
3	Cr	36	VAL
3	Cs	11	SER
3	Cs	36	VAL
3	Ct	11	SER
3	Ct	36	VAL
3	Cu	11	SER
3	Cu	36	VAL
3	Cv	11	SER
3	Cv	36	VAL
3	Cw	11	SER
3	Cw	36	VAL
3	Cx	11	SER
3	Cx	36	VAL
3	DA	11	SER
3	DA	36	VAL
3	DB	11	SER
3	DB	36	VAL
1	DC	2	THR
1	DC	5	GLY
1	DC	41	GLU
1	DC	202	HIS
1	DC	244	ASN
1	DD	2	THR

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Mol	Chain	Res	Type
1	DD	5	GLY
1	DD	41	GLU
1	DD	202	HIS
1	DD	244	ASN
1	DE	2	THR
1	DE	5	GLY
1	DE	41	GLU
1	DE	202	HIS
1	DE	244	ASN
1	DF	2	THR
1	DF	5	GLY
1	DF	41	GLU
1	DF	202	HIS
1	DF	244	ASN
1	DG	2	THR
1	DG	5	GLY
1	DG	41	GLU
1	DG	202	HIS
1	DG	244	ASN
1	DH	2	THR
1	DH	5	GLY
1	DH	41	GLU
1	DH	202	HIS
1	DH	244	ASN
1	DI	2	THR
1	DI	5	GLY
1	DI	41	GLU
1	DI	202	HIS
1	DI	244	ASN
1	DJ	2	THR
1	DJ	5	GLY
1	DJ	41	GLU
1	DJ	202	HIS
1	DJ	244	ASN
1	DK	2	THR
1	DK	5	GLY
1	DK	41	GLU
1	DK	202	HIS
1	DK	244	ASN
1	AA	22	VAL
1	AA	71	LEU
1	AA	147	ALA

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Mol	Chain	Res	Type
1	AA	182	ALA
1	AA	184	TYR
1	AB	22	VAL
1	AB	71	LEU
1	AB	147	ALA
1	AB	182	ALA
1	AB	184	TYR
1	AC	22	VAL
1	AC	71	LEU
1	AC	147	ALA
1	AC	182	ALA
1	AC	184	TYR
1	AD	22	VAL
1	AD	71	LEU
1	AD	147	ALA
1	AD	182	ALA
1	AD	184	TYR
1	AE	22	VAL
1	AE	71	LEU
1	AE	147	ALA
1	AE	182	ALA
1	AE	184	TYR
1	AF	22	VAL
1	AF	71	LEU
1	AF	147	ALA
1	AF	182	ALA
1	AF	184	TYR
1	AG	22	VAL
1	AG	71	LEU
1	AG	147	ALA
1	AG	182	ALA
1	AG	184	TYR
1	AH	22	VAL
1	AH	71	LEU
1	AH	147	ALA
1	AH	182	ALA
1	AH	184	TYR
1	AI	22	VAL
1	AI	71	LEU
1	AI	147	ALA
1	AI	182	ALA
1	AI	184	TYR

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Mol	Chain	Res	Type
1	AJ	22	VAL
1	AJ	71	LEU
1	AJ	147	ALA
1	AJ	182	ALA
1	AJ	184	TYR
1	AK	22	VAL
1	AK	71	LEU
1	AK	147	ALA
1	AK	182	ALA
1	AK	184	TYR
1	AL	22	VAL
1	AL	71	LEU
1	AL	147	ALA
1	AL	182	ALA
1	AL	184	TYR
1	AM	22	VAL
1	AM	71	LEU
1	AM	147	ALA
1	AM	182	ALA
1	AM	184	TYR
1	AN	22	VAL
1	AN	71	LEU
1	AN	147	ALA
1	AN	182	ALA
1	AN	184	TYR
1	AO	22	VAL
1	AO	71	LEU
1	AO	147	ALA
1	AO	182	ALA
1	AO	184	TYR
1	AP	22	VAL
1	AP	71	LEU
1	AP	147	ALA
1	AP	182	ALA
1	AP	184	TYR
1	AQ	22	VAL
1	AQ	71	LEU
1	AQ	147	ALA
1	AQ	182	ALA
1	AQ	184	TYR
1	AR	22	VAL
1	AR	71	LEU

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Mol	Chain	Res	Type
1	AR	147	ALA
1	AR	182	ALA
1	AR	184	TYR
1	AS	22	VAL
1	AS	71	LEU
1	AS	147	ALA
1	AS	182	ALA
1	AS	184	TYR
1	AT	22	VAL
1	AT	71	LEU
1	AT	147	ALA
1	AT	182	ALA
1	AT	184	TYR
1	AU	22	VAL
1	AU	71	LEU
1	AU	147	ALA
1	AU	182	ALA
1	AU	184	TYR
1	AV	22	VAL
1	AV	71	LEU
1	AV	147	ALA
1	AV	182	ALA
1	AV	184	TYR
1	AW	22	VAL
1	AW	71	LEU
1	AW	147	ALA
1	AW	182	ALA
1	AW	184	TYR
1	AX	22	VAL
1	AX	71	LEU
1	AX	147	ALA
1	AX	182	ALA
1	AX	184	TYR
1	AY	22	VAL
1	AY	71	LEU
1	AY	147	ALA
1	AY	182	ALA
1	AY	184	TYR
1	AZ	22	VAL
1	AZ	71	LEU
1	AZ	147	ALA
1	AZ	182	ALA

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Mol	Chain	Res	Type
1	AZ	184	TYR
1	A0	22	VAL
1	A0	71	LEU
1	A0	147	ALA
1	A0	182	ALA
1	A0	184	TYR
1	A1	22	VAL
1	A1	71	LEU
1	A1	147	ALA
1	A1	182	ALA
1	A1	184	TYR
1	A2	22	VAL
1	A2	71	LEU
1	A2	147	ALA
1	A2	182	ALA
1	A2	184	TYR
1	A3	22	VAL
1	A3	71	LEU
1	A3	147	ALA
1	A3	182	ALA
1	A3	184	TYR
1	A4	22	VAL
1	A4	71	LEU
1	A4	147	ALA
1	A4	182	ALA
1	A4	184	TYR
1	A5	22	VAL
1	A5	71	LEU
1	A5	147	ALA
1	A5	182	ALA
1	A5	184	TYR
1	A6	22	VAL
1	A6	71	LEU
1	A6	147	ALA
1	A6	182	ALA
1	A6	184	TYR
1	A7	22	VAL
1	A7	71	LEU
1	A7	147	ALA
1	A7	182	ALA
1	A7	184	TYR
1	A8	22	VAL

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Mol	Chain	Res	Type
1	A8	71	LEU
1	A8	147	ALA
1	A8	182	ALA
1	A8	184	TYR
1	A9	22	VAL
1	A9	71	LEU
1	A9	147	ALA
1	A9	182	ALA
1	A9	184	TYR
1	Aa	22	VAL
1	Aa	71	LEU
1	Aa	147	ALA
1	Aa	182	ALA
1	Aa	184	TYR
1	Ab	22	VAL
1	Ab	71	LEU
1	Ab	147	ALA
1	Ab	182	ALA
1	Ab	184	TYR
1	Ac	22	VAL
1	Ac	71	LEU
1	Ac	147	ALA
1	Ac	182	ALA
1	Ac	184	TYR
1	Ad	22	VAL
1	Ad	71	LEU
1	Ad	147	ALA
1	Ad	182	ALA
1	Ad	184	TYR
1	Ae	22	VAL
1	Ae	71	LEU
1	Ae	147	ALA
1	Ae	182	ALA
1	Ae	184	TYR
1	Af	22	VAL
1	Af	71	LEU
1	Af	147	ALA
1	Af	182	ALA
1	Af	184	TYR
1	Ag	22	VAL
1	Ag	71	LEU
1	Ag	147	ALA

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Mol	Chain	Res	Type
1	Ag	182	ALA
1	Ag	184	TYR
1	Ah	22	VAL
1	Ah	71	LEU
1	Ah	147	ALA
1	Ah	182	ALA
1	Ah	184	TYR
1	Ai	22	VAL
1	Ai	71	LEU
1	Ai	147	ALA
1	Ai	182	ALA
1	Ai	184	TYR
1	Aj	22	VAL
1	Aj	71	LEU
1	Aj	147	ALA
1	Aj	182	ALA
1	Aj	184	TYR
1	Ak	22	VAL
1	Ak	71	LEU
1	Ak	147	ALA
1	Ak	182	ALA
1	Ak	184	TYR
1	Al	22	VAL
1	Al	71	LEU
1	Al	147	ALA
1	Al	182	ALA
1	Al	184	TYR
1	Am	22	VAL
1	Am	71	LEU
1	Am	147	ALA
1	Am	182	ALA
1	Am	184	TYR
1	An	22	VAL
1	An	71	LEU
1	An	147	ALA
1	An	182	ALA
1	An	184	TYR
1	Ao	22	VAL
1	Ao	71	LEU
1	Ao	147	ALA
1	Ao	182	ALA
1	Ao	184	TYR

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Mol	Chain	Res	Type
2	BA	92	GLY
2	BA	224	GLY
2	BB	92	GLY
2	BB	224	GLY
2	BC	92	GLY
2	BC	224	GLY
2	BD	92	GLY
2	BD	224	GLY
2	BE	92	GLY
2	BE	224	GLY
2	BF	92	GLY
2	BF	224	GLY
2	BG	92	GLY
2	BG	224	GLY
2	BH	92	GLY
2	BH	224	GLY
2	BI	92	GLY
2	BI	224	GLY
2	BJ	92	GLY
2	BJ	224	GLY
2	BK	92	GLY
2	BK	224	GLY
2	BL	92	GLY
2	BL	224	GLY
2	BM	92	GLY
2	BM	224	GLY
2	BN	92	GLY
2	BN	224	GLY
2	BR	92	GLY
2	BR	224	GLY
2	BO	92	GLY
2	BO	224	GLY
2	BS	92	GLY
2	BS	224	GLY
2	BP	92	GLY
2	BP	224	GLY
2	BQ	92	GLY
2	BQ	224	GLY
2	BT	92	GLY
2	BT	224	GLY
2	BU	92	GLY
2	BU	224	GLY

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Mol	Chain	Res	Type
2	BV	92	GLY
2	BV	224	GLY
2	BW	92	GLY
2	BW	224	GLY
2	BX	92	GLY
2	BX	224	GLY
2	BY	92	GLY
2	BY	224	GLY
2	BZ	92	GLY
2	BZ	224	GLY
2	B0	92	GLY
2	B0	224	GLY
2	B1	92	GLY
2	B1	224	GLY
2	B2	92	GLY
2	B2	224	GLY
2	B3	92	GLY
2	B3	224	GLY
2	B4	92	GLY
2	B4	224	GLY
2	B5	92	GLY
2	B5	224	GLY
2	B6	92	GLY
2	B6	224	GLY
2	B7	92	GLY
2	B7	224	GLY
2	B8	92	GLY
2	B8	224	GLY
2	B9	92	GLY
2	B9	224	GLY
2	Ba	92	GLY
2	Ba	224	GLY
2	Bb	92	GLY
2	Bb	224	GLY
2	Bc	92	GLY
2	Bc	224	GLY
2	Bd	92	GLY
2	Bd	224	GLY
2	Be	92	GLY
2	Be	224	GLY
2	Bf	92	GLY
2	Bf	224	GLY

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Mol	Chain	Res	Type
2	Bg	92	GLY
2	Bg	224	GLY
2	Bh	92	GLY
2	Bh	224	GLY
2	Bi	92	GLY
2	Bi	224	GLY
2	Bj	92	GLY
2	Bj	224	GLY
2	Bk	92	GLY
2	Bk	224	GLY
2	Bl	92	GLY
2	Bl	224	GLY
2	Bm	92	GLY
2	Bm	224	GLY
2	Bn	92	GLY
2	Bn	224	GLY
2	Bo	92	GLY
2	Bo	224	GLY
2	Bp	92	GLY
2	Bp	224	GLY
2	Bq	92	GLY
2	Bq	224	GLY
2	Br	92	GLY
2	Br	224	GLY
2	Bs	92	GLY
2	Bs	224	GLY
2	Bt	92	GLY
2	Bt	224	GLY
2	Bu	92	GLY
2	Bu	224	GLY
2	Bv	92	GLY
2	Bv	224	GLY
2	Bw	92	GLY
2	Bw	224	GLY
2	Bx	92	GLY
2	Bx	224	GLY
3	CA	15	MET
3	CA	35	GLN
3	CA	70	ASP
3	CB	15	MET
3	CB	35	GLN
3	CB	70	ASP

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Mol	Chain	Res	Type
3	CC	15	MET
3	CC	35	GLN
3	CC	70	ASP
3	CD	15	MET
3	CD	35	GLN
3	CD	70	ASP
3	CE	15	MET
3	CE	35	GLN
3	CE	70	ASP
3	CF	15	MET
3	CF	35	GLN
3	CF	70	ASP
3	CG	15	MET
3	CG	35	GLN
3	CG	70	ASP
3	CH	15	MET
3	CH	35	GLN
3	CH	70	ASP
3	CI	15	MET
3	CI	35	GLN
3	CI	70	ASP
3	CJ	15	MET
3	CJ	35	GLN
3	CJ	70	ASP
3	CK	15	MET
3	CK	35	GLN
3	CK	70	ASP
3	CL	15	MET
3	CL	35	GLN
3	CL	70	ASP
3	CM	15	MET
3	CM	35	GLN
3	CM	70	ASP
3	CN	15	MET
3	CN	35	GLN
3	CN	70	ASP
3	CO	15	MET
3	CO	35	GLN
3	CO	70	ASP
3	CP	15	MET
3	CP	35	GLN
3	CP	70	ASP

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Mol	Chain	Res	Type
3	CQ	15	MET
3	CQ	35	GLN
3	CQ	70	ASP
3	CR	15	MET
3	CR	35	GLN
3	CR	70	ASP
3	CS	15	MET
3	CS	35	GLN
3	CS	70	ASP
3	CT	15	MET
3	CT	35	GLN
3	CT	70	ASP
3	CU	15	MET
3	CU	35	GLN
3	CU	70	ASP
3	CV	15	MET
3	CV	35	GLN
3	CV	70	ASP
3	CW	15	MET
3	CW	35	GLN
3	CW	70	ASP
3	CX	15	MET
3	CX	35	GLN
3	CX	70	ASP
3	CY	15	MET
3	CY	35	GLN
3	CY	70	ASP
3	CZ	15	MET
3	CZ	35	GLN
3	CZ	70	ASP
3	C0	15	MET
3	C0	35	GLN
3	C0	70	ASP
3	C1	15	MET
3	C1	35	GLN
3	C1	70	ASP
3	C2	15	MET
3	C2	35	GLN
3	C2	70	ASP
3	C3	15	MET
3	C3	35	GLN
3	C3	70	ASP

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Mol	Chain	Res	Type
3	C4	15	MET
3	C4	35	GLN
3	C4	70	ASP
3	C5	15	MET
3	C5	35	GLN
3	C5	70	ASP
3	C6	15	MET
3	C6	35	GLN
3	C6	70	ASP
3	C7	15	MET
3	C7	35	GLN
3	C7	70	ASP
3	C8	15	MET
3	C8	35	GLN
3	C8	70	ASP
3	C9	15	MET
3	C9	35	GLN
3	C9	70	ASP
3	Cc	15	MET
3	Cc	35	GLN
3	Cc	70	ASP
3	Cd	15	MET
3	Cd	35	GLN
3	Cd	70	ASP
3	Ce	15	MET
3	Ce	35	GLN
3	Ce	70	ASP
3	Cf	15	MET
3	Cf	35	GLN
3	Cf	70	ASP
3	Cg	15	MET
3	Cg	35	GLN
3	Cg	70	ASP
3	Ch	15	MET
3	Ch	35	GLN
3	Ch	70	ASP
3	Ci	15	MET
3	Ci	35	GLN
3	Ci	70	ASP
3	Cj	15	MET
3	Cj	35	GLN
3	Cj	70	ASP

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Mol	Chain	Res	Type
3	Ck	15	MET
3	Ck	35	GLN
3	Ck	70	ASP
3	Cl	15	MET
3	Cl	35	GLN
3	Cl	70	ASP
3	Cm	15	MET
3	Cm	35	GLN
3	Cm	70	ASP
3	Cn	15	MET
3	Cn	35	GLN
3	Cn	70	ASP
3	Co	15	MET
3	Co	35	GLN
3	Co	70	ASP
3	Cp	15	MET
3	Cp	35	GLN
3	Cp	70	ASP
3	Cq	15	MET
3	Cq	35	GLN
3	Cq	70	ASP
3	Cr	15	MET
3	Cr	35	GLN
3	Cr	70	ASP
3	Cs	15	MET
3	Cs	35	GLN
3	Cs	70	ASP
3	Ct	15	MET
3	Ct	35	GLN
3	Ct	70	ASP
3	Cu	15	MET
3	Cu	35	GLN
3	Cu	70	ASP
3	Cv	15	MET
3	Cv	35	GLN
3	Cv	70	ASP
3	Cw	15	MET
3	Cw	35	GLN
3	Cw	70	ASP
3	Cx	15	MET
3	Cx	35	GLN
3	Cx	70	ASP

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Mol	Chain	Res	Type
3	DA	15	MET
3	DA	35	GLN
3	DA	70	ASP
3	DB	15	MET
3	DB	35	GLN
3	DB	70	ASP
1	DC	22	VAL
1	DC	71	LEU
1	DC	147	ALA
1	DC	182	ALA
1	DC	184	TYR
1	DD	22	VAL
1	DD	71	LEU
1	DD	147	ALA
1	DD	182	ALA
1	DD	184	TYR
1	DE	22	VAL
1	DE	71	LEU
1	DE	147	ALA
1	DE	182	ALA
1	DE	184	TYR
1	DF	22	VAL
1	DF	71	LEU
1	DF	147	ALA
1	DF	182	ALA
1	DF	184	TYR
1	DG	22	VAL
1	DG	71	LEU
1	DG	147	ALA
1	DG	182	ALA
1	DG	184	TYR
1	DH	22	VAL
1	DH	71	LEU
1	DH	147	ALA
1	DH	182	ALA
1	DH	184	TYR
1	DI	22	VAL
1	DI	71	LEU
1	DI	147	ALA
1	DI	182	ALA
1	DI	184	TYR
1	DJ	22	VAL

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Mol	Chain	Res	Type
1	DJ	71	LEU
1	DJ	147	ALA
1	DJ	182	ALA
1	DJ	184	TYR
1	DK	22	VAL
1	DK	71	LEU
1	DK	147	ALA
1	DK	182	ALA
1	DK	184	TYR
1	AA	3	ASN
1	AB	3	ASN
1	AC	3	ASN
1	AD	3	ASN
1	AE	3	ASN
1	AF	3	ASN
1	AG	3	ASN
1	AH	3	ASN
1	AI	3	ASN
1	AJ	3	ASN
1	AK	3	ASN
1	AL	3	ASN
1	AM	3	ASN
1	AN	3	ASN
1	AO	3	ASN
1	AP	3	ASN
1	AQ	3	ASN
1	AR	3	ASN
1	AS	3	ASN
1	AT	3	ASN
1	AU	3	ASN
1	AV	3	ASN
1	AW	3	ASN
1	AX	3	ASN
1	AY	3	ASN
1	AZ	3	ASN
1	A0	3	ASN
1	A1	3	ASN
1	A2	3	ASN
1	A3	3	ASN
1	A4	3	ASN
1	A5	3	ASN
1	A6	3	ASN

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Mol	Chain	Res	Type
1	A7	3	ASN
1	A8	3	ASN
1	A9	3	ASN
1	Aa	3	ASN
1	Ab	3	ASN
1	Ac	3	ASN
1	Ad	3	ASN
1	Ae	3	ASN
1	Af	3	ASN
1	Ag	3	ASN
1	Ah	3	ASN
1	Ai	3	ASN
1	Aj	3	ASN
1	Ak	3	ASN
1	Al	3	ASN
1	Am	3	ASN
1	An	3	ASN
1	Ao	3	ASN
1	DC	3	ASN
1	DD	3	ASN
1	DE	3	ASN
1	DF	3	ASN
1	DG	3	ASN
1	DH	3	ASN
1	DI	3	ASN
1	DJ	3	ASN
1	DK	3	ASN
1	AA	187	LEU
1	AA	208	TYR
1	AB	187	LEU
1	AB	208	TYR
1	AC	187	LEU
1	AC	208	TYR
1	AD	187	LEU
1	AD	208	TYR
1	AE	187	LEU
1	AE	208	TYR
1	AF	187	LEU
1	AF	208	TYR
1	AG	187	LEU
1	AG	208	TYR
1	AH	187	LEU

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Mol	Chain	Res	Type
1	AH	208	TYR
1	AI	187	LEU
1	AI	208	TYR
1	AJ	187	LEU
1	AJ	208	TYR
1	AK	187	LEU
1	AK	208	TYR
1	AL	187	LEU
1	AL	208	TYR
1	AM	187	LEU
1	AM	208	TYR
1	AN	187	LEU
1	AN	208	TYR
1	AO	187	LEU
1	AO	208	TYR
1	AP	187	LEU
1	AP	208	TYR
1	AQ	187	LEU
1	AQ	208	TYR
1	AR	187	LEU
1	AR	208	TYR
1	AS	187	LEU
1	AS	208	TYR
1	AT	187	LEU
1	AT	208	TYR
1	AU	187	LEU
1	AU	208	TYR
1	AV	187	LEU
1	AV	208	TYR
1	AW	187	LEU
1	AW	208	TYR
1	AX	187	LEU
1	AX	208	TYR
1	AY	187	LEU
1	AY	208	TYR
1	AZ	187	LEU
1	AZ	208	TYR
1	A0	187	LEU
1	A0	208	TYR
1	A1	187	LEU
1	A1	208	TYR
1	A2	187	LEU

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Mol	Chain	Res	Type
1	A2	208	TYR
1	A3	187	LEU
1	A3	208	TYR
1	A4	187	LEU
1	A4	208	TYR
1	A5	187	LEU
1	A5	208	TYR
1	A6	187	LEU
1	A6	208	TYR
1	A7	187	LEU
1	A7	208	TYR
1	A8	187	LEU
1	A8	208	TYR
1	A9	187	LEU
1	A9	208	TYR
1	Aa	187	LEU
1	Aa	208	TYR
1	Ab	187	LEU
1	Ab	208	TYR
1	Ac	187	LEU
1	Ac	208	TYR
1	Ad	187	LEU
1	Ad	208	TYR
1	Ae	187	LEU
1	Ae	208	TYR
1	Af	187	LEU
1	Af	208	TYR
1	Ag	187	LEU
1	Ag	208	TYR
1	Ah	187	LEU
1	Ah	208	TYR
1	Ai	187	LEU
1	Ai	208	TYR
1	Aj	187	LEU
1	Aj	208	TYR
1	Ak	187	LEU
1	Ak	208	TYR
1	Al	187	LEU
1	Al	208	TYR
1	Am	187	LEU
1	Am	208	TYR
1	An	187	LEU

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Mol	Chain	Res	Type
1	An	208	TYR
1	Ao	187	LEU
1	Ao	208	TYR
2	BA	149	ALA
2	BB	149	ALA
2	BC	149	ALA
2	BD	149	ALA
2	BE	149	ALA
2	BF	149	ALA
2	BG	149	ALA
2	BH	149	ALA
2	BI	149	ALA
2	BJ	149	ALA
2	BK	149	ALA
2	BL	149	ALA
2	BM	149	ALA
2	BN	149	ALA
2	BR	149	ALA
2	BO	149	ALA
2	BS	149	ALA
2	BP	149	ALA
2	BQ	149	ALA
2	BT	149	ALA
2	BU	149	ALA
2	BV	149	ALA
2	BW	149	ALA
2	BX	149	ALA
2	BY	149	ALA
2	BZ	149	ALA
2	B0	149	ALA
2	B1	149	ALA
2	B2	149	ALA
2	B3	149	ALA
2	B4	149	ALA
2	B5	149	ALA
2	B6	149	ALA
2	B7	149	ALA
2	B8	149	ALA
2	B9	149	ALA
2	Ba	149	ALA
2	Bb	149	ALA
2	Bc	149	ALA

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Mol	Chain	Res	Type
2	Bd	149	ALA
2	Be	149	ALA
2	Bf	149	ALA
2	Bg	149	ALA
2	Bh	149	ALA
2	Bi	149	ALA
2	Bj	149	ALA
2	Bk	149	ALA
2	Bl	149	ALA
2	Bm	149	ALA
2	Bn	149	ALA
2	Bo	149	ALA
2	Bp	149	ALA
2	Bq	149	ALA
2	Br	149	ALA
2	Bs	149	ALA
2	Bt	149	ALA
2	Bu	149	ALA
2	Bv	149	ALA
2	Bw	149	ALA
2	Bx	149	ALA
3	CA	131	ALA
3	CB	131	ALA
3	CC	131	ALA
3	CD	131	ALA
3	CE	131	ALA
3	CF	131	ALA
3	CG	131	ALA
3	CH	131	ALA
3	CI	131	ALA
3	CJ	131	ALA
3	CK	131	ALA
3	CL	131	ALA
3	CM	131	ALA
3	CN	131	ALA
3	CO	131	ALA
3	CP	131	ALA
3	CQ	131	ALA
3	CR	131	ALA
3	CS	131	ALA
3	CT	131	ALA
3	CU	131	ALA

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Mol	Chain	Res	Type
3	CV	131	ALA
3	CW	131	ALA
3	CX	131	ALA
3	CY	131	ALA
3	CZ	131	ALA
3	C0	131	ALA
3	C1	131	ALA
3	C2	131	ALA
3	C3	131	ALA
3	C4	131	ALA
3	C5	131	ALA
3	C6	131	ALA
3	C7	131	ALA
3	C8	131	ALA
3	C9	131	ALA
3	Cc	131	ALA
3	Cd	131	ALA
3	Ce	131	ALA
3	Cf	131	ALA
3	Cg	131	ALA
3	Ch	131	ALA
3	Ci	131	ALA
3	Cj	131	ALA
3	Ck	131	ALA
3	Cl	131	ALA
3	Cm	131	ALA
3	Cn	131	ALA
3	Co	131	ALA
3	Cp	131	ALA
3	Cq	131	ALA
3	Cr	131	ALA
3	Cs	131	ALA
3	Ct	131	ALA
3	Cu	131	ALA
3	Cv	131	ALA
3	Cw	131	ALA
3	Cx	131	ALA
3	DA	131	ALA
3	DB	131	ALA
1	DC	187	LEU
1	DC	208	TYR
1	DD	187	LEU

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Mol	Chain	Res	Type
1	DD	208	TYR
1	DE	187	LEU
1	DE	208	TYR
1	DF	187	LEU
1	DF	208	TYR
1	DG	187	LEU
1	DG	208	TYR
1	DH	187	LEU
1	DH	208	TYR
1	DI	187	LEU
1	DI	208	TYR
1	DJ	187	LEU
1	DJ	208	TYR
1	DK	187	LEU
1	DK	208	TYR
2	BA	60	ARG
2	BB	60	ARG
2	BC	60	ARG
2	BD	60	ARG
2	BE	60	ARG
2	BF	60	ARG
2	BG	60	ARG
2	BH	60	ARG
2	BI	60	ARG
2	BJ	60	ARG
2	BK	60	ARG
2	BL	60	ARG
2	BM	60	ARG
2	BN	60	ARG
2	BR	60	ARG
2	BO	60	ARG
2	BS	60	ARG
2	BP	60	ARG
2	BQ	60	ARG
2	BT	60	ARG
2	BU	60	ARG
2	BV	60	ARG
2	BW	60	ARG
2	BX	60	ARG
2	BY	60	ARG
2	BZ	60	ARG
2	B0	60	ARG

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Mol	Chain	Res	Type
2	B1	60	ARG
2	B2	60	ARG
2	B3	60	ARG
2	B4	60	ARG
2	B5	60	ARG
2	B6	60	ARG
2	B7	60	ARG
2	B8	60	ARG
2	B9	60	ARG
2	Ba	60	ARG
2	Bb	60	ARG
2	Bc	60	ARG
2	Bd	60	ARG
2	Be	60	ARG
2	Bf	60	ARG
2	Bg	60	ARG
2	Bh	60	ARG
2	Bi	60	ARG
2	Bj	60	ARG
2	Bk	60	ARG
2	Bl	60	ARG
2	Bm	60	ARG
2	Bn	60	ARG
2	Bo	60	ARG
2	Bp	60	ARG
2	Bq	60	ARG
2	Br	60	ARG
2	Bs	60	ARG
2	Bt	60	ARG
2	Bu	60	ARG
2	Bv	60	ARG
2	Bw	60	ARG
2	Bx	60	ARG
1	Ac	226	PRO
1	AA	226	PRO
1	AB	226	PRO
1	AC	226	PRO
1	AD	226	PRO
1	AE	226	PRO
1	AF	226	PRO
1	AG	226	PRO
1	AH	226	PRO

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Mol	Chain	Res	Type
1	AI	226	PRO
1	AJ	226	PRO
1	AK	226	PRO
1	AL	226	PRO
1	AM	226	PRO
1	AN	226	PRO
1	AO	226	PRO
1	AP	226	PRO
1	AQ	226	PRO
1	AR	226	PRO
1	AS	226	PRO
1	AT	226	PRO
1	AU	226	PRO
1	AV	226	PRO
1	AW	226	PRO
1	AX	226	PRO
1	AY	226	PRO
1	AZ	226	PRO
1	A0	226	PRO
1	A1	226	PRO
1	A2	226	PRO
1	A3	226	PRO
1	A4	226	PRO
1	A5	226	PRO
1	A6	226	PRO
1	A7	226	PRO
1	A8	226	PRO
1	A9	226	PRO
1	Aa	226	PRO
1	Ab	226	PRO
1	Ad	226	PRO
1	Ae	226	PRO
1	Af	226	PRO
1	Ag	226	PRO
1	Ah	226	PRO
1	Ai	226	PRO
1	Aj	226	PRO
1	Ak	226	PRO
1	Al	226	PRO
1	Am	226	PRO
1	An	226	PRO
1	Ao	226	PRO

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Mol	Chain	Res	Type
1	DC	226	PRO
1	DD	226	PRO
1	DE	226	PRO
1	DF	226	PRO
1	DG	226	PRO
1	DH	226	PRO
1	DI	226	PRO
1	DJ	226	PRO
1	DK	226	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A0	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A1	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A2	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A3	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A4	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A5	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A6	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A7	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A8	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	A9	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AA	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AB	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AC	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AD	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AE	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AF	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AG	208/208 (100%)	183 (88%)	25 (12%)	5	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AH	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AI	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AJ	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AK	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AL	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AM	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AN	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AO	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AP	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AQ	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AR	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AS	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AT	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AU	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AV	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AW	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AX	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AY	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	AZ	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Aa	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ab	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ac	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ad	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ae	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Af	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ag	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ah	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ai	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Aj	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ak	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Al	208/208 (100%)	183 (88%)	25 (12%)	5	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Am	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	An	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	Ao	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DC	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DD	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DE	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DF	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DG	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DH	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DI	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DJ	208/208 (100%)	183 (88%)	25 (12%)	5	17
1	DK	208/208 (100%)	183 (88%)	25 (12%)	5	17
2	B0	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B1	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B2	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B3	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B4	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B5	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B6	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B7	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B8	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	B9	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BA	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BB	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BC	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BD	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BE	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BF	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BG	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BH	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BI	176/176 (100%)	145 (82%)	31 (18%)	2	9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	BJ	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BK	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BL	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BM	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BN	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BO	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BP	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BQ	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BR	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BS	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BT	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BU	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BV	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BW	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BX	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BY	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	BZ	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Ba	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bb	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bc	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bd	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Be	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bf	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bg	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bh	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bi	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bj	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bk	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bl	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bm	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bn	176/176 (100%)	145 (82%)	31 (18%)	2	9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	Bo	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bp	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bq	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Br	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bs	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bt	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bu	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bv	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bw	176/176 (100%)	145 (82%)	31 (18%)	2	9
2	Bx	176/176 (100%)	145 (82%)	31 (18%)	2	9
3	C0	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C1	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C2	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C3	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C4	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C5	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C6	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C7	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C8	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	C9	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CA	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CB	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CC	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CD	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CE	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CF	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CG	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CH	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CI	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CJ	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CK	190/190 (100%)	150 (79%)	40 (21%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	CL	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CM	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CN	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CO	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CP	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CQ	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CR	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CS	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CT	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CU	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CV	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CW	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CX	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CY	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	CZ	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cc	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cd	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Ce	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cf	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cg	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Ch	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Ci	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cj	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Ck	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cl	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cm	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cn	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Co	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cp	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cq	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cr	190/190 (100%)	150 (79%)	40 (21%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Cs	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Ct	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cu	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cv	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cw	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	Cx	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	DA	190/190 (100%)	150 (79%)	40 (21%)	1	6
3	DB	190/190 (100%)	150 (79%)	40 (21%)	1	6
All	All	34440/34440 (100%)	28680 (83%)	5760 (17%)	4	10

All (5760) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	4	VAL
1	AA	28	THR
1	AA	39	ASP
1	AA	40	VAL
1	AA	42	THR
1	AA	49	THR
1	AA	62	SER
1	AA	71	LEU
1	AA	113	THR
1	AA	120	GLN
1	AA	150	ARG
1	AA	158	VAL
1	AA	163	MET
1	AA	166	VAL
1	AA	181	LYS
1	AA	187	LEU
1	AA	196	LEU
1	AA	198	THR
1	AA	203	ASP
1	AA	209	LEU
1	AA	223	PRO
1	AA	226	PRO
1	AA	237	HIS
1	AA	241	THR
1	AA	246	GLN
1	AB	4	VAL

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Mol	Chain	Res	Type
1	AB	28	THR
1	AB	39	ASP
1	AB	40	VAL
1	AB	42	THR
1	AB	49	THR
1	AB	62	SER
1	AB	71	LEU
1	AB	113	THR
1	AB	120	GLN
1	AB	150	ARG
1	AB	158	VAL
1	AB	163	MET
1	AB	166	VAL
1	AB	181	LYS
1	AB	187	LEU
1	AB	196	LEU
1	AB	198	THR
1	AB	203	ASP
1	AB	209	LEU
1	AB	223	PRO
1	AB	226	PRO
1	AB	237	HIS
1	AB	241	THR
1	AB	246	GLN
1	AC	4	VAL
1	AC	28	THR
1	AC	39	ASP
1	AC	40	VAL
1	AC	42	THR
1	AC	49	THR
1	AC	62	SER
1	AC	71	LEU
1	AC	113	THR
1	AC	120	GLN
1	AC	150	ARG
1	AC	158	VAL
1	AC	163	MET
1	AC	166	VAL
1	AC	181	LYS
1	AC	187	LEU
1	AC	196	LEU
1	AC	198	THR

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Mol	Chain	Res	Type
1	AC	203	ASP
1	AC	209	LEU
1	AC	223	PRO
1	AC	226	PRO
1	AC	237	HIS
1	AC	241	THR
1	AC	246	GLN
1	AD	4	VAL
1	AD	28	THR
1	AD	39	ASP
1	AD	40	VAL
1	AD	42	THR
1	AD	49	THR
1	AD	62	SER
1	AD	71	LEU
1	AD	113	THR
1	AD	120	GLN
1	AD	150	ARG
1	AD	158	VAL
1	AD	163	MET
1	AD	166	VAL
1	AD	181	LYS
1	AD	187	LEU
1	AD	196	LEU
1	AD	198	THR
1	AD	203	ASP
1	AD	209	LEU
1	AD	223	PRO
1	AD	226	PRO
1	AD	237	HIS
1	AD	241	THR
1	AD	246	GLN
1	AE	4	VAL
1	AE	28	THR
1	AE	39	ASP
1	AE	40	VAL
1	AE	42	THR
1	AE	49	THR
1	AE	62	SER
1	AE	71	LEU
1	AE	113	THR
1	AE	120	GLN

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Mol	Chain	Res	Type
1	AE	150	ARG
1	AE	158	VAL
1	AE	163	MET
1	AE	166	VAL
1	AE	181	LYS
1	AE	187	LEU
1	AE	196	LEU
1	AE	198	THR
1	AE	203	ASP
1	AE	209	LEU
1	AE	223	PRO
1	AE	226	PRO
1	AE	237	HIS
1	AE	241	THR
1	AE	246	GLN
1	AF	4	VAL
1	AF	28	THR
1	AF	39	ASP
1	AF	40	VAL
1	AF	42	THR
1	AF	49	THR
1	AF	62	SER
1	AF	71	LEU
1	AF	113	THR
1	AF	120	GLN
1	AF	150	ARG
1	AF	158	VAL
1	AF	163	MET
1	AF	166	VAL
1	AF	181	LYS
1	AF	187	LEU
1	AF	196	LEU
1	AF	198	THR
1	AF	203	ASP
1	AF	209	LEU
1	AF	223	PRO
1	AF	226	PRO
1	AF	237	HIS
1	AF	241	THR
1	AF	246	GLN
1	AG	4	VAL
1	AG	28	THR

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Mol	Chain	Res	Type
1	AG	39	ASP
1	AG	40	VAL
1	AG	42	THR
1	AG	49	THR
1	AG	62	SER
1	AG	71	LEU
1	AG	113	THR
1	AG	120	GLN
1	AG	150	ARG
1	AG	158	VAL
1	AG	163	MET
1	AG	166	VAL
1	AG	181	LYS
1	AG	187	LEU
1	AG	196	LEU
1	AG	198	THR
1	AG	203	ASP
1	AG	209	LEU
1	AG	223	PRO
1	AG	226	PRO
1	AG	237	HIS
1	AG	241	THR
1	AG	246	GLN
1	AH	4	VAL
1	AH	28	THR
1	AH	39	ASP
1	AH	40	VAL
1	AH	42	THR
1	AH	49	THR
1	AH	62	SER
1	AH	71	LEU
1	AH	113	THR
1	AH	120	GLN
1	AH	150	ARG
1	AH	158	VAL
1	AH	163	MET
1	AH	166	VAL
1	AH	181	LYS
1	AH	187	LEU
1	AH	196	LEU
1	AH	198	THR
1	AH	203	ASP

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Mol	Chain	Res	Type
1	AH	209	LEU
1	AH	223	PRO
1	AH	226	PRO
1	AH	237	HIS
1	AH	241	THR
1	AH	246	GLN
1	AI	4	VAL
1	AI	28	THR
1	AI	39	ASP
1	AI	40	VAL
1	AI	42	THR
1	AI	49	THR
1	AI	62	SER
1	AI	71	LEU
1	AI	113	THR
1	AI	120	GLN
1	AI	150	ARG
1	AI	158	VAL
1	AI	163	MET
1	AI	166	VAL
1	AI	181	LYS
1	AI	187	LEU
1	AI	196	LEU
1	AI	198	THR
1	AI	203	ASP
1	AI	209	LEU
1	AI	223	PRO
1	AI	226	PRO
1	AI	237	HIS
1	AI	241	THR
1	AI	246	GLN
1	AJ	4	VAL
1	AJ	28	THR
1	AJ	39	ASP
1	AJ	40	VAL
1	AJ	42	THR
1	AJ	49	THR
1	AJ	62	SER
1	AJ	71	LEU
1	AJ	113	THR
1	AJ	120	GLN
1	AJ	150	ARG

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Mol	Chain	Res	Type
1	AJ	158	VAL
1	AJ	163	MET
1	AJ	166	VAL
1	AJ	181	LYS
1	AJ	187	LEU
1	AJ	196	LEU
1	AJ	198	THR
1	AJ	203	ASP
1	AJ	209	LEU
1	AJ	223	PRO
1	AJ	226	PRO
1	AJ	237	HIS
1	AJ	241	THR
1	AJ	246	GLN
1	AK	4	VAL
1	AK	28	THR
1	AK	39	ASP
1	AK	40	VAL
1	AK	42	THR
1	AK	49	THR
1	AK	62	SER
1	AK	71	LEU
1	AK	113	THR
1	AK	120	GLN
1	AK	150	ARG
1	AK	158	VAL
1	AK	163	MET
1	AK	166	VAL
1	AK	181	LYS
1	AK	187	LEU
1	AK	196	LEU
1	AK	198	THR
1	AK	203	ASP
1	AK	209	LEU
1	AK	223	PRO
1	AK	226	PRO
1	AK	237	HIS
1	AK	241	THR
1	AK	246	GLN
1	AL	4	VAL
1	AL	28	THR
1	AL	39	ASP

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Mol	Chain	Res	Type
1	AL	40	VAL
1	AL	42	THR
1	AL	49	THR
1	AL	62	SER
1	AL	71	LEU
1	AL	113	THR
1	AL	120	GLN
1	AL	150	ARG
1	AL	158	VAL
1	AL	163	MET
1	AL	166	VAL
1	AL	181	LYS
1	AL	187	LEU
1	AL	196	LEU
1	AL	198	THR
1	AL	203	ASP
1	AL	209	LEU
1	AL	223	PRO
1	AL	226	PRO
1	AL	237	HIS
1	AL	241	THR
1	AL	246	GLN
1	AM	4	VAL
1	AM	28	THR
1	AM	39	ASP
1	AM	40	VAL
1	AM	42	THR
1	AM	49	THR
1	AM	62	SER
1	AM	71	LEU
1	AM	113	THR
1	AM	120	GLN
1	AM	150	ARG
1	AM	158	VAL
1	AM	163	MET
1	AM	166	VAL
1	AM	181	LYS
1	AM	187	LEU
1	AM	196	LEU
1	AM	198	THR
1	AM	203	ASP
1	AM	209	LEU

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Mol	Chain	Res	Type
1	AM	223	PRO
1	AM	226	PRO
1	AM	237	HIS
1	AM	241	THR
1	AM	246	GLN
1	AN	4	VAL
1	AN	28	THR
1	AN	39	ASP
1	AN	40	VAL
1	AN	42	THR
1	AN	49	THR
1	AN	62	SER
1	AN	71	LEU
1	AN	113	THR
1	AN	120	GLN
1	AN	150	ARG
1	AN	158	VAL
1	AN	163	MET
1	AN	166	VAL
1	AN	181	LYS
1	AN	187	LEU
1	AN	196	LEU
1	AN	198	THR
1	AN	203	ASP
1	AN	209	LEU
1	AN	223	PRO
1	AN	226	PRO
1	AN	237	HIS
1	AN	241	THR
1	AN	246	GLN
1	AO	4	VAL
1	AO	28	THR
1	AO	39	ASP
1	AO	40	VAL
1	AO	42	THR
1	AO	49	THR
1	AO	62	SER
1	AO	71	LEU
1	AO	113	THR
1	AO	120	GLN
1	AO	150	ARG
1	AO	158	VAL

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Mol	Chain	Res	Type
1	AO	163	MET
1	AO	166	VAL
1	AO	181	LYS
1	AO	187	LEU
1	AO	196	LEU
1	AO	198	THR
1	AO	203	ASP
1	AO	209	LEU
1	AO	223	PRO
1	AO	226	PRO
1	AO	237	HIS
1	AO	241	THR
1	AO	246	GLN
1	AP	4	VAL
1	AP	28	THR
1	AP	39	ASP
1	AP	40	VAL
1	AP	42	THR
1	AP	49	THR
1	AP	62	SER
1	AP	71	LEU
1	AP	113	THR
1	AP	120	GLN
1	AP	150	ARG
1	AP	158	VAL
1	AP	163	MET
1	AP	166	VAL
1	AP	181	LYS
1	AP	187	LEU
1	AP	196	LEU
1	AP	198	THR
1	AP	203	ASP
1	AP	209	LEU
1	AP	223	PRO
1	AP	226	PRO
1	AP	237	HIS
1	AP	241	THR
1	AP	246	GLN
1	AQ	4	VAL
1	AQ	28	THR
1	AQ	39	ASP
1	AQ	40	VAL

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Mol	Chain	Res	Type
1	AQ	42	THR
1	AQ	49	THR
1	AQ	62	SER
1	AQ	71	LEU
1	AQ	113	THR
1	AQ	120	GLN
1	AQ	150	ARG
1	AQ	158	VAL
1	AQ	163	MET
1	AQ	166	VAL
1	AQ	181	LYS
1	AQ	187	LEU
1	AQ	196	LEU
1	AQ	198	THR
1	AQ	203	ASP
1	AQ	209	LEU
1	AQ	223	PRO
1	AQ	226	PRO
1	AQ	237	HIS
1	AQ	241	THR
1	AQ	246	GLN
1	AR	4	VAL
1	AR	28	THR
1	AR	39	ASP
1	AR	40	VAL
1	AR	42	THR
1	AR	49	THR
1	AR	62	SER
1	AR	71	LEU
1	AR	113	THR
1	AR	120	GLN
1	AR	150	ARG
1	AR	158	VAL
1	AR	163	MET
1	AR	166	VAL
1	AR	181	LYS
1	AR	187	LEU
1	AR	196	LEU
1	AR	198	THR
1	AR	203	ASP
1	AR	209	LEU
1	AR	223	PRO

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Mol	Chain	Res	Type
1	AR	226	PRO
1	AR	237	HIS
1	AR	241	THR
1	AR	246	GLN
1	AS	4	VAL
1	AS	28	THR
1	AS	39	ASP
1	AS	40	VAL
1	AS	42	THR
1	AS	49	THR
1	AS	62	SER
1	AS	71	LEU
1	AS	113	THR
1	AS	120	GLN
1	AS	150	ARG
1	AS	158	VAL
1	AS	163	MET
1	AS	166	VAL
1	AS	181	LYS
1	AS	187	LEU
1	AS	196	LEU
1	AS	198	THR
1	AS	203	ASP
1	AS	209	LEU
1	AS	223	PRO
1	AS	226	PRO
1	AS	237	HIS
1	AS	241	THR
1	AS	246	GLN
1	AT	4	VAL
1	AT	28	THR
1	AT	39	ASP
1	AT	40	VAL
1	AT	42	THR
1	AT	49	THR
1	AT	62	SER
1	AT	71	LEU
1	AT	113	THR
1	AT	120	GLN
1	AT	150	ARG
1	AT	158	VAL
1	AT	163	MET

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Mol	Chain	Res	Type
1	AT	166	VAL
1	AT	181	LYS
1	AT	187	LEU
1	AT	196	LEU
1	AT	198	THR
1	AT	203	ASP
1	AT	209	LEU
1	AT	223	PRO
1	AT	226	PRO
1	AT	237	HIS
1	AT	241	THR
1	AT	246	GLN
1	AU	4	VAL
1	AU	28	THR
1	AU	39	ASP
1	AU	40	VAL
1	AU	42	THR
1	AU	49	THR
1	AU	62	SER
1	AU	71	LEU
1	AU	113	THR
1	AU	120	GLN
1	AU	150	ARG
1	AU	158	VAL
1	AU	163	MET
1	AU	166	VAL
1	AU	181	LYS
1	AU	187	LEU
1	AU	196	LEU
1	AU	198	THR
1	AU	203	ASP
1	AU	209	LEU
1	AU	223	PRO
1	AU	226	PRO
1	AU	237	HIS
1	AU	241	THR
1	AU	246	GLN
1	AV	4	VAL
1	AV	28	THR
1	AV	39	ASP
1	AV	40	VAL
1	AV	42	THR

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Mol	Chain	Res	Type
1	AV	49	THR
1	AV	62	SER
1	AV	71	LEU
1	AV	113	THR
1	AV	120	GLN
1	AV	150	ARG
1	AV	158	VAL
1	AV	163	MET
1	AV	166	VAL
1	AV	181	LYS
1	AV	187	LEU
1	AV	196	LEU
1	AV	198	THR
1	AV	203	ASP
1	AV	209	LEU
1	AV	223	PRO
1	AV	226	PRO
1	AV	237	HIS
1	AV	241	THR
1	AV	246	GLN
1	AW	4	VAL
1	AW	28	THR
1	AW	39	ASP
1	AW	40	VAL
1	AW	42	THR
1	AW	49	THR
1	AW	62	SER
1	AW	71	LEU
1	AW	113	THR
1	AW	120	GLN
1	AW	150	ARG
1	AW	158	VAL
1	AW	163	MET
1	AW	166	VAL
1	AW	181	LYS
1	AW	187	LEU
1	AW	196	LEU
1	AW	198	THR
1	AW	203	ASP
1	AW	209	LEU
1	AW	223	PRO
1	AW	226	PRO

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Mol	Chain	Res	Type
1	AW	237	HIS
1	AW	241	THR
1	AW	246	GLN
1	AX	4	VAL
1	AX	28	THR
1	AX	39	ASP
1	AX	40	VAL
1	AX	42	THR
1	AX	49	THR
1	AX	62	SER
1	AX	71	LEU
1	AX	113	THR
1	AX	120	GLN
1	AX	150	ARG
1	AX	158	VAL
1	AX	163	MET
1	AX	166	VAL
1	AX	181	LYS
1	AX	187	LEU
1	AX	196	LEU
1	AX	198	THR
1	AX	203	ASP
1	AX	209	LEU
1	AX	223	PRO
1	AX	226	PRO
1	AX	237	HIS
1	AX	241	THR
1	AX	246	GLN
1	AY	4	VAL
1	AY	28	THR
1	AY	39	ASP
1	AY	40	VAL
1	AY	42	THR
1	AY	49	THR
1	AY	62	SER
1	AY	71	LEU
1	AY	113	THR
1	AY	120	GLN
1	AY	150	ARG
1	AY	158	VAL
1	AY	163	MET
1	AY	166	VAL

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Mol	Chain	Res	Type
1	AY	181	LYS
1	AY	187	LEU
1	AY	196	LEU
1	AY	198	THR
1	AY	203	ASP
1	AY	209	LEU
1	AY	223	PRO
1	AY	226	PRO
1	AY	237	HIS
1	AY	241	THR
1	AY	246	GLN
1	AZ	4	VAL
1	AZ	28	THR
1	AZ	39	ASP
1	AZ	40	VAL
1	AZ	42	THR
1	AZ	49	THR
1	AZ	62	SER
1	AZ	71	LEU
1	AZ	113	THR
1	AZ	120	GLN
1	AZ	150	ARG
1	AZ	158	VAL
1	AZ	163	MET
1	AZ	166	VAL
1	AZ	181	LYS
1	AZ	187	LEU
1	AZ	196	LEU
1	AZ	198	THR
1	AZ	203	ASP
1	AZ	209	LEU
1	AZ	223	PRO
1	AZ	226	PRO
1	AZ	237	HIS
1	AZ	241	THR
1	AZ	246	GLN
1	A0	4	VAL
1	A0	28	THR
1	A0	39	ASP
1	A0	40	VAL
1	A0	42	THR
1	A0	49	THR

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Mol	Chain	Res	Type
1	A0	62	SER
1	A0	71	LEU
1	A0	113	THR
1	A0	120	GLN
1	A0	150	ARG
1	A0	158	VAL
1	A0	163	MET
1	A0	166	VAL
1	A0	181	LYS
1	A0	187	LEU
1	A0	196	LEU
1	A0	198	THR
1	A0	203	ASP
1	A0	209	LEU
1	A0	223	PRO
1	A0	226	PRO
1	A0	237	HIS
1	A0	241	THR
1	A0	246	GLN
1	A1	4	VAL
1	A1	28	THR
1	A1	39	ASP
1	A1	40	VAL
1	A1	42	THR
1	A1	49	THR
1	A1	62	SER
1	A1	71	LEU
1	A1	113	THR
1	A1	120	GLN
1	A1	150	ARG
1	A1	158	VAL
1	A1	163	MET
1	A1	166	VAL
1	A1	181	LYS
1	A1	187	LEU
1	A1	196	LEU
1	A1	198	THR
1	A1	203	ASP
1	A1	209	LEU
1	A1	223	PRO
1	A1	226	PRO
1	A1	237	HIS

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Mol	Chain	Res	Type
1	A1	241	THR
1	A1	246	GLN
1	A2	4	VAL
1	A2	28	THR
1	A2	39	ASP
1	A2	40	VAL
1	A2	42	THR
1	A2	49	THR
1	A2	62	SER
1	A2	71	LEU
1	A2	113	THR
1	A2	120	GLN
1	A2	150	ARG
1	A2	158	VAL
1	A2	163	MET
1	A2	166	VAL
1	A2	181	LYS
1	A2	187	LEU
1	A2	196	LEU
1	A2	198	THR
1	A2	203	ASP
1	A2	209	LEU
1	A2	223	PRO
1	A2	226	PRO
1	A2	237	HIS
1	A2	241	THR
1	A2	246	GLN
1	A3	4	VAL
1	A3	28	THR
1	A3	39	ASP
1	A3	40	VAL
1	A3	42	THR
1	A3	49	THR
1	A3	62	SER
1	A3	71	LEU
1	A3	113	THR
1	A3	120	GLN
1	A3	150	ARG
1	A3	158	VAL
1	A3	163	MET
1	A3	166	VAL
1	A3	181	LYS

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Mol	Chain	Res	Type
1	A3	187	LEU
1	A3	196	LEU
1	A3	198	THR
1	A3	203	ASP
1	A3	209	LEU
1	A3	223	PRO
1	A3	226	PRO
1	A3	237	HIS
1	A3	241	THR
1	A3	246	GLN
1	A4	4	VAL
1	A4	28	THR
1	A4	39	ASP
1	A4	40	VAL
1	A4	42	THR
1	A4	49	THR
1	A4	62	SER
1	A4	71	LEU
1	A4	113	THR
1	A4	120	GLN
1	A4	150	ARG
1	A4	158	VAL
1	A4	163	MET
1	A4	166	VAL
1	A4	181	LYS
1	A4	187	LEU
1	A4	196	LEU
1	A4	198	THR
1	A4	203	ASP
1	A4	209	LEU
1	A4	223	PRO
1	A4	226	PRO
1	A4	237	HIS
1	A4	241	THR
1	A4	246	GLN
1	A5	4	VAL
1	A5	28	THR
1	A5	39	ASP
1	A5	40	VAL
1	A5	42	THR
1	A5	49	THR
1	A5	62	SER

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Mol	Chain	Res	Type
1	A5	71	LEU
1	A5	113	THR
1	A5	120	GLN
1	A5	150	ARG
1	A5	158	VAL
1	A5	163	MET
1	A5	166	VAL
1	A5	181	LYS
1	A5	187	LEU
1	A5	196	LEU
1	A5	198	THR
1	A5	203	ASP
1	A5	209	LEU
1	A5	223	PRO
1	A5	226	PRO
1	A5	237	HIS
1	A5	241	THR
1	A5	246	GLN
1	A6	4	VAL
1	A6	28	THR
1	A6	39	ASP
1	A6	40	VAL
1	A6	42	THR
1	A6	49	THR
1	A6	62	SER
1	A6	71	LEU
1	A6	113	THR
1	A6	120	GLN
1	A6	150	ARG
1	A6	158	VAL
1	A6	163	MET
1	A6	166	VAL
1	A6	181	LYS
1	A6	187	LEU
1	A6	196	LEU
1	A6	198	THR
1	A6	203	ASP
1	A6	209	LEU
1	A6	223	PRO
1	A6	226	PRO
1	A6	237	HIS
1	A6	241	THR

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Mol	Chain	Res	Type
1	A6	246	GLN
1	A7	4	VAL
1	A7	28	THR
1	A7	39	ASP
1	A7	40	VAL
1	A7	42	THR
1	A7	49	THR
1	A7	62	SER
1	A7	71	LEU
1	A7	113	THR
1	A7	120	GLN
1	A7	150	ARG
1	A7	158	VAL
1	A7	163	MET
1	A7	166	VAL
1	A7	181	LYS
1	A7	187	LEU
1	A7	196	LEU
1	A7	198	THR
1	A7	203	ASP
1	A7	209	LEU
1	A7	223	PRO
1	A7	226	PRO
1	A7	237	HIS
1	A7	241	THR
1	A7	246	GLN
1	A8	4	VAL
1	A8	28	THR
1	A8	39	ASP
1	A8	40	VAL
1	A8	42	THR
1	A8	49	THR
1	A8	62	SER
1	A8	71	LEU
1	A8	113	THR
1	A8	120	GLN
1	A8	150	ARG
1	A8	158	VAL
1	A8	163	MET
1	A8	166	VAL
1	A8	181	LYS
1	A8	187	LEU

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Mol	Chain	Res	Type
1	A8	196	LEU
1	A8	198	THR
1	A8	203	ASP
1	A8	209	LEU
1	A8	223	PRO
1	A8	226	PRO
1	A8	237	HIS
1	A8	241	THR
1	A8	246	GLN
1	A9	4	VAL
1	A9	28	THR
1	A9	39	ASP
1	A9	40	VAL
1	A9	42	THR
1	A9	49	THR
1	A9	62	SER
1	A9	71	LEU
1	A9	113	THR
1	A9	120	GLN
1	A9	150	ARG
1	A9	158	VAL
1	A9	163	MET
1	A9	166	VAL
1	A9	181	LYS
1	A9	187	LEU
1	A9	196	LEU
1	A9	198	THR
1	A9	203	ASP
1	A9	209	LEU
1	A9	223	PRO
1	A9	226	PRO
1	A9	237	HIS
1	A9	241	THR
1	A9	246	GLN
1	Aa	4	VAL
1	Aa	28	THR
1	Aa	39	ASP
1	Aa	40	VAL
1	Aa	42	THR
1	Aa	49	THR
1	Aa	62	SER
1	Aa	71	LEU

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Mol	Chain	Res	Type
1	Aa	113	THR
1	Aa	120	GLN
1	Aa	150	ARG
1	Aa	158	VAL
1	Aa	163	MET
1	Aa	166	VAL
1	Aa	181	LYS
1	Aa	187	LEU
1	Aa	196	LEU
1	Aa	198	THR
1	Aa	203	ASP
1	Aa	209	LEU
1	Aa	223	PRO
1	Aa	226	PRO
1	Aa	237	HIS
1	Aa	241	THR
1	Aa	246	GLN
1	Ab	4	VAL
1	Ab	28	THR
1	Ab	39	ASP
1	Ab	40	VAL
1	Ab	42	THR
1	Ab	49	THR
1	Ab	62	SER
1	Ab	71	LEU
1	Ab	113	THR
1	Ab	120	GLN
1	Ab	150	ARG
1	Ab	158	VAL
1	Ab	163	MET
1	Ab	166	VAL
1	Ab	181	LYS
1	Ab	187	LEU
1	Ab	196	LEU
1	Ab	198	THR
1	Ab	203	ASP
1	Ab	209	LEU
1	Ab	223	PRO
1	Ab	226	PRO
1	Ab	237	HIS
1	Ab	241	THR
1	Ab	246	GLN

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Mol	Chain	Res	Type
1	Ac	4	VAL
1	Ac	28	THR
1	Ac	39	ASP
1	Ac	40	VAL
1	Ac	42	THR
1	Ac	49	THR
1	Ac	62	SER
1	Ac	71	LEU
1	Ac	113	THR
1	Ac	120	GLN
1	Ac	150	ARG
1	Ac	158	VAL
1	Ac	163	MET
1	Ac	166	VAL
1	Ac	181	LYS
1	Ac	187	LEU
1	Ac	196	LEU
1	Ac	198	THR
1	Ac	203	ASP
1	Ac	209	LEU
1	Ac	223	PRO
1	Ac	226	PRO
1	Ac	237	HIS
1	Ac	241	THR
1	Ac	246	GLN
1	Ad	4	VAL
1	Ad	28	THR
1	Ad	39	ASP
1	Ad	40	VAL
1	Ad	42	THR
1	Ad	49	THR
1	Ad	62	SER
1	Ad	71	LEU
1	Ad	113	THR
1	Ad	120	GLN
1	Ad	150	ARG
1	Ad	158	VAL
1	Ad	163	MET
1	Ad	166	VAL
1	Ad	181	LYS
1	Ad	187	LEU
1	Ad	196	LEU

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Mol	Chain	Res	Type
1	Ad	198	THR
1	Ad	203	ASP
1	Ad	209	LEU
1	Ad	223	PRO
1	Ad	226	PRO
1	Ad	237	HIS
1	Ad	241	THR
1	Ad	246	GLN
1	Ae	4	VAL
1	Ae	28	THR
1	Ae	39	ASP
1	Ae	40	VAL
1	Ae	42	THR
1	Ae	49	THR
1	Ae	62	SER
1	Ae	71	LEU
1	Ae	113	THR
1	Ae	120	GLN
1	Ae	150	ARG
1	Ae	158	VAL
1	Ae	163	MET
1	Ae	166	VAL
1	Ae	181	LYS
1	Ae	187	LEU
1	Ae	196	LEU
1	Ae	198	THR
1	Ae	203	ASP
1	Ae	209	LEU
1	Ae	223	PRO
1	Ae	226	PRO
1	Ae	237	HIS
1	Ae	241	THR
1	Ae	246	GLN
1	Af	4	VAL
1	Af	28	THR
1	Af	39	ASP
1	Af	40	VAL
1	Af	42	THR
1	Af	49	THR
1	Af	62	SER
1	Af	71	LEU
1	Af	113	THR

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Mol	Chain	Res	Type
1	Af	120	GLN
1	Af	150	ARG
1	Af	158	VAL
1	Af	163	MET
1	Af	166	VAL
1	Af	181	LYS
1	Af	187	LEU
1	Af	196	LEU
1	Af	198	THR
1	Af	203	ASP
1	Af	209	LEU
1	Af	223	PRO
1	Af	226	PRO
1	Af	237	HIS
1	Af	241	THR
1	Af	246	GLN
1	Ag	4	VAL
1	Ag	28	THR
1	Ag	39	ASP
1	Ag	40	VAL
1	Ag	42	THR
1	Ag	49	THR
1	Ag	62	SER
1	Ag	71	LEU
1	Ag	113	THR
1	Ag	120	GLN
1	Ag	150	ARG
1	Ag	158	VAL
1	Ag	163	MET
1	Ag	166	VAL
1	Ag	181	LYS
1	Ag	187	LEU
1	Ag	196	LEU
1	Ag	198	THR
1	Ag	203	ASP
1	Ag	209	LEU
1	Ag	223	PRO
1	Ag	226	PRO
1	Ag	237	HIS
1	Ag	241	THR
1	Ag	246	GLN
1	Ah	4	VAL

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Mol	Chain	Res	Type
1	Ah	28	THR
1	Ah	39	ASP
1	Ah	40	VAL
1	Ah	42	THR
1	Ah	49	THR
1	Ah	62	SER
1	Ah	71	LEU
1	Ah	113	THR
1	Ah	120	GLN
1	Ah	150	ARG
1	Ah	158	VAL
1	Ah	163	MET
1	Ah	166	VAL
1	Ah	181	LYS
1	Ah	187	LEU
1	Ah	196	LEU
1	Ah	198	THR
1	Ah	203	ASP
1	Ah	209	LEU
1	Ah	223	PRO
1	Ah	226	PRO
1	Ah	237	HIS
1	Ah	241	THR
1	Ah	246	GLN
1	Ai	4	VAL
1	Ai	28	THR
1	Ai	39	ASP
1	Ai	40	VAL
1	Ai	42	THR
1	Ai	49	THR
1	Ai	62	SER
1	Ai	71	LEU
1	Ai	113	THR
1	Ai	120	GLN
1	Ai	150	ARG
1	Ai	158	VAL
1	Ai	163	MET
1	Ai	166	VAL
1	Ai	181	LYS
1	Ai	187	LEU
1	Ai	196	LEU
1	Ai	198	THR

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Mol	Chain	Res	Type
1	Ai	203	ASP
1	Ai	209	LEU
1	Ai	223	PRO
1	Ai	226	PRO
1	Ai	237	HIS
1	Ai	241	THR
1	Ai	246	GLN
1	Aj	4	VAL
1	Aj	28	THR
1	Aj	39	ASP
1	Aj	40	VAL
1	Aj	42	THR
1	Aj	49	THR
1	Aj	62	SER
1	Aj	71	LEU
1	Aj	113	THR
1	Aj	120	GLN
1	Aj	150	ARG
1	Aj	158	VAL
1	Aj	163	MET
1	Aj	166	VAL
1	Aj	181	LYS
1	Aj	187	LEU
1	Aj	196	LEU
1	Aj	198	THR
1	Aj	203	ASP
1	Aj	209	LEU
1	Aj	223	PRO
1	Aj	226	PRO
1	Aj	237	HIS
1	Aj	241	THR
1	Aj	246	GLN
1	Ak	4	VAL
1	Ak	28	THR
1	Ak	39	ASP
1	Ak	40	VAL
1	Ak	42	THR
1	Ak	49	THR
1	Ak	62	SER
1	Ak	71	LEU
1	Ak	113	THR
1	Ak	120	GLN

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Mol	Chain	Res	Type
1	Ak	150	ARG
1	Ak	158	VAL
1	Ak	163	MET
1	Ak	166	VAL
1	Ak	181	LYS
1	Ak	187	LEU
1	Ak	196	LEU
1	Ak	198	THR
1	Ak	203	ASP
1	Ak	209	LEU
1	Ak	223	PRO
1	Ak	226	PRO
1	Ak	237	HIS
1	Ak	241	THR
1	Ak	246	GLN
1	Al	4	VAL
1	Al	28	THR
1	Al	39	ASP
1	Al	40	VAL
1	Al	42	THR
1	Al	49	THR
1	Al	62	SER
1	Al	71	LEU
1	Al	113	THR
1	Al	120	GLN
1	Al	150	ARG
1	Al	158	VAL
1	Al	163	MET
1	Al	166	VAL
1	Al	181	LYS
1	Al	187	LEU
1	Al	196	LEU
1	Al	198	THR
1	Al	203	ASP
1	Al	209	LEU
1	Al	223	PRO
1	Al	226	PRO
1	Al	237	HIS
1	Al	241	THR
1	Al	246	GLN
1	Am	4	VAL
1	Am	28	THR

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Mol	Chain	Res	Type
1	Am	39	ASP
1	Am	40	VAL
1	Am	42	THR
1	Am	49	THR
1	Am	62	SER
1	Am	71	LEU
1	Am	113	THR
1	Am	120	GLN
1	Am	150	ARG
1	Am	158	VAL
1	Am	163	MET
1	Am	166	VAL
1	Am	181	LYS
1	Am	187	LEU
1	Am	196	LEU
1	Am	198	THR
1	Am	203	ASP
1	Am	209	LEU
1	Am	223	PRO
1	Am	226	PRO
1	Am	237	HIS
1	Am	241	THR
1	Am	246	GLN
1	An	4	VAL
1	An	28	THR
1	An	39	ASP
1	An	40	VAL
1	An	42	THR
1	An	49	THR
1	An	62	SER
1	An	71	LEU
1	An	113	THR
1	An	120	GLN
1	An	150	ARG
1	An	158	VAL
1	An	163	MET
1	An	166	VAL
1	An	181	LYS
1	An	187	LEU
1	An	196	LEU
1	An	198	THR
1	An	203	ASP

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Mol	Chain	Res	Type
1	An	209	LEU
1	An	223	PRO
1	An	226	PRO
1	An	237	HIS
1	An	241	THR
1	An	246	GLN
1	Ao	4	VAL
1	Ao	28	THR
1	Ao	39	ASP
1	Ao	40	VAL
1	Ao	42	THR
1	Ao	49	THR
1	Ao	62	SER
1	Ao	71	LEU
1	Ao	113	THR
1	Ao	120	GLN
1	Ao	150	ARG
1	Ao	158	VAL
1	Ao	163	MET
1	Ao	166	VAL
1	Ao	181	LYS
1	Ao	187	LEU
1	Ao	196	LEU
1	Ao	198	THR
1	Ao	203	ASP
1	Ao	209	LEU
1	Ao	223	PRO
1	Ao	226	PRO
1	Ao	237	HIS
1	Ao	241	THR
1	Ao	246	GLN
2	BA	45	SER
2	BA	49	ASP
2	BA	53	ARG
2	BA	58	LEU
2	BA	70	PRO
2	BA	73	GLN
2	BA	86	ASP
2	BA	88	LEU
2	BA	93	SER
2	BA	99	LYS
2	BA	110	VAL

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Mol	Chain	Res	Type
2	BA	114	VAL
2	BA	126	VAL
2	BA	135	THR
2	BA	136	HIS
2	BA	140	LEU
2	BA	145	LEU
2	BA	146	GLU
2	BA	156	SER
2	BA	157	VAL
2	BA	166	ARG
2	BA	167	THR
2	BA	168	ASN
2	BA	184	THR
2	BA	193	THR
2	BA	194	ILE
2	BA	197	LEU
2	BA	203	THR
2	BA	212	THR
2	BA	218	ILE
2	BA	222	VAL
2	BB	45	SER
2	BB	49	ASP
2	BB	53	ARG
2	BB	58	LEU
2	BB	70	PRO
2	BB	73	GLN
2	BB	86	ASP
2	BB	88	LEU
2	BB	93	SER
2	BB	99	LYS
2	BB	110	VAL
2	BB	114	VAL
2	BB	126	VAL
2	BB	135	THR
2	BB	136	HIS
2	BB	140	LEU
2	BB	145	LEU
2	BB	146	GLU
2	BB	156	SER
2	BB	157	VAL
2	BB	166	ARG
2	BB	167	THR

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Mol	Chain	Res	Type
2	BB	168	ASN
2	BB	184	THR
2	BB	193	THR
2	BB	194	ILE
2	BB	197	LEU
2	BB	203	THR
2	BB	212	THR
2	BB	218	ILE
2	BB	222	VAL
2	BC	45	SER
2	BC	49	ASP
2	BC	53	ARG
2	BC	58	LEU
2	BC	70	PRO
2	BC	73	GLN
2	BC	86	ASP
2	BC	88	LEU
2	BC	93	SER
2	BC	99	LYS
2	BC	110	VAL
2	BC	114	VAL
2	BC	126	VAL
2	BC	135	THR
2	BC	136	HIS
2	BC	140	LEU
2	BC	145	LEU
2	BC	146	GLU
2	BC	156	SER
2	BC	157	VAL
2	BC	166	ARG
2	BC	167	THR
2	BC	168	ASN
2	BC	184	THR
2	BC	193	THR
2	BC	194	ILE
2	BC	197	LEU
2	BC	203	THR
2	BC	212	THR
2	BC	218	ILE
2	BC	222	VAL
2	BD	45	SER
2	BD	49	ASP

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Mol	Chain	Res	Type
2	BD	53	ARG
2	BD	58	LEU
2	BD	70	PRO
2	BD	73	GLN
2	BD	86	ASP
2	BD	88	LEU
2	BD	93	SER
2	BD	99	LYS
2	BD	110	VAL
2	BD	114	VAL
2	BD	126	VAL
2	BD	135	THR
2	BD	136	HIS
2	BD	140	LEU
2	BD	145	LEU
2	BD	146	GLU
2	BD	156	SER
2	BD	157	VAL
2	BD	166	ARG
2	BD	167	THR
2	BD	168	ASN
2	BD	184	THR
2	BD	193	THR
2	BD	194	ILE
2	BD	197	LEU
2	BD	203	THR
2	BD	212	THR
2	BD	218	ILE
2	BD	222	VAL
2	BE	45	SER
2	BE	49	ASP
2	BE	53	ARG
2	BE	58	LEU
2	BE	70	PRO
2	BE	73	GLN
2	BE	86	ASP
2	BE	88	LEU
2	BE	93	SER
2	BE	99	LYS
2	BE	110	VAL
2	BE	114	VAL
2	BE	126	VAL

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Mol	Chain	Res	Type
2	BE	135	THR
2	BE	136	HIS
2	BE	140	LEU
2	BE	145	LEU
2	BE	146	GLU
2	BE	156	SER
2	BE	157	VAL
2	BE	166	ARG
2	BE	167	THR
2	BE	168	ASN
2	BE	184	THR
2	BE	193	THR
2	BE	194	ILE
2	BE	197	LEU
2	BE	203	THR
2	BE	212	THR
2	BE	218	ILE
2	BE	222	VAL
2	BF	45	SER
2	BF	49	ASP
2	BF	53	ARG
2	BF	58	LEU
2	BF	70	PRO
2	BF	73	GLN
2	BF	86	ASP
2	BF	88	LEU
2	BF	93	SER
2	BF	99	LYS
2	BF	110	VAL
2	BF	114	VAL
2	BF	126	VAL
2	BF	135	THR
2	BF	136	HIS
2	BF	140	LEU
2	BF	145	LEU
2	BF	146	GLU
2	BF	156	SER
2	BF	157	VAL
2	BF	166	ARG
2	BF	167	THR
2	BF	168	ASN
2	BF	184	THR

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Mol	Chain	Res	Type
2	BF	193	THR
2	BF	194	ILE
2	BF	197	LEU
2	BF	203	THR
2	BF	212	THR
2	BF	218	ILE
2	BF	222	VAL
2	BG	45	SER
2	BG	49	ASP
2	BG	53	ARG
2	BG	58	LEU
2	BG	70	PRO
2	BG	73	GLN
2	BG	86	ASP
2	BG	88	LEU
2	BG	93	SER
2	BG	99	LYS
2	BG	110	VAL
2	BG	114	VAL
2	BG	126	VAL
2	BG	135	THR
2	BG	136	HIS
2	BG	140	LEU
2	BG	145	LEU
2	BG	146	GLU
2	BG	156	SER
2	BG	157	VAL
2	BG	166	ARG
2	BG	167	THR
2	BG	168	ASN
2	BG	184	THR
2	BG	193	THR
2	BG	194	ILE
2	BG	197	LEU
2	BG	203	THR
2	BG	212	THR
2	BG	218	ILE
2	BG	222	VAL
2	BH	45	SER
2	BH	49	ASP
2	BH	53	ARG
2	BH	58	LEU

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Mol	Chain	Res	Type
2	BH	70	PRO
2	BH	73	GLN
2	BH	86	ASP
2	BH	88	LEU
2	BH	93	SER
2	BH	99	LYS
2	BH	110	VAL
2	BH	114	VAL
2	BH	126	VAL
2	BH	135	THR
2	BH	136	HIS
2	BH	140	LEU
2	BH	145	LEU
2	BH	146	GLU
2	BH	156	SER
2	BH	157	VAL
2	BH	166	ARG
2	BH	167	THR
2	BH	168	ASN
2	BH	184	THR
2	BH	193	THR
2	BH	194	ILE
2	BH	197	LEU
2	BH	203	THR
2	BH	212	THR
2	BH	218	ILE
2	BH	222	VAL
2	BI	45	SER
2	BI	49	ASP
2	BI	53	ARG
2	BI	58	LEU
2	BI	70	PRO
2	BI	73	GLN
2	BI	86	ASP
2	BI	88	LEU
2	BI	93	SER
2	BI	99	LYS
2	BI	110	VAL
2	BI	114	VAL
2	BI	126	VAL
2	BI	135	THR
2	BI	136	HIS

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Mol	Chain	Res	Type
2	BI	140	LEU
2	BI	145	LEU
2	BI	146	GLU
2	BI	156	SER
2	BI	157	VAL
2	BI	166	ARG
2	BI	167	THR
2	BI	168	ASN
2	BI	184	THR
2	BI	193	THR
2	BI	194	ILE
2	BI	197	LEU
2	BI	203	THR
2	BI	212	THR
2	BI	218	ILE
2	BI	222	VAL
2	BJ	45	SER
2	BJ	49	ASP
2	BJ	53	ARG
2	BJ	58	LEU
2	BJ	70	PRO
2	BJ	73	GLN
2	BJ	86	ASP
2	BJ	88	LEU
2	BJ	93	SER
2	BJ	99	LYS
2	BJ	110	VAL
2	BJ	114	VAL
2	BJ	126	VAL
2	BJ	135	THR
2	BJ	136	HIS
2	BJ	140	LEU
2	BJ	145	LEU
2	BJ	146	GLU
2	BJ	156	SER
2	BJ	157	VAL
2	BJ	166	ARG
2	BJ	167	THR
2	BJ	168	ASN
2	BJ	184	THR
2	BJ	193	THR
2	BJ	194	ILE

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Mol	Chain	Res	Type
2	BJ	197	LEU
2	BJ	203	THR
2	BJ	212	THR
2	BJ	218	ILE
2	BJ	222	VAL
2	BK	45	SER
2	BK	49	ASP
2	BK	53	ARG
2	BK	58	LEU
2	BK	70	PRO
2	BK	73	GLN
2	BK	86	ASP
2	BK	88	LEU
2	BK	93	SER
2	BK	99	LYS
2	BK	110	VAL
2	BK	114	VAL
2	BK	126	VAL
2	BK	135	THR
2	BK	136	HIS
2	BK	140	LEU
2	BK	145	LEU
2	BK	146	GLU
2	BK	156	SER
2	BK	157	VAL
2	BK	166	ARG
2	BK	167	THR
2	BK	168	ASN
2	BK	184	THR
2	BK	193	THR
2	BK	194	ILE
2	BK	197	LEU
2	BK	203	THR
2	BK	212	THR
2	BK	218	ILE
2	BK	222	VAL
2	BL	45	SER
2	BL	49	ASP
2	BL	53	ARG
2	BL	58	LEU
2	BL	70	PRO
2	BL	73	GLN

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Mol	Chain	Res	Type
2	BL	86	ASP
2	BL	88	LEU
2	BL	93	SER
2	BL	99	LYS
2	BL	110	VAL
2	BL	114	VAL
2	BL	126	VAL
2	BL	135	THR
2	BL	136	HIS
2	BL	140	LEU
2	BL	145	LEU
2	BL	146	GLU
2	BL	156	SER
2	BL	157	VAL
2	BL	166	ARG
2	BL	167	THR
2	BL	168	ASN
2	BL	184	THR
2	BL	193	THR
2	BL	194	ILE
2	BL	197	LEU
2	BL	203	THR
2	BL	212	THR
2	BL	218	ILE
2	BL	222	VAL
2	BM	45	SER
2	BM	49	ASP
2	BM	53	ARG
2	BM	58	LEU
2	BM	70	PRO
2	BM	73	GLN
2	BM	86	ASP
2	BM	88	LEU
2	BM	93	SER
2	BM	99	LYS
2	BM	110	VAL
2	BM	114	VAL
2	BM	126	VAL
2	BM	135	THR
2	BM	136	HIS
2	BM	140	LEU
2	BM	145	LEU

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Mol	Chain	Res	Type
2	BM	146	GLU
2	BM	156	SER
2	BM	157	VAL
2	BM	166	ARG
2	BM	167	THR
2	BM	168	ASN
2	BM	184	THR
2	BM	193	THR
2	BM	194	ILE
2	BM	197	LEU
2	BM	203	THR
2	BM	212	THR
2	BM	218	ILE
2	BM	222	VAL
2	BN	45	SER
2	BN	49	ASP
2	BN	53	ARG
2	BN	58	LEU
2	BN	70	PRO
2	BN	73	GLN
2	BN	86	ASP
2	BN	88	LEU
2	BN	93	SER
2	BN	99	LYS
2	BN	110	VAL
2	BN	114	VAL
2	BN	126	VAL
2	BN	135	THR
2	BN	136	HIS
2	BN	140	LEU
2	BN	145	LEU
2	BN	146	GLU
2	BN	156	SER
2	BN	157	VAL
2	BN	166	ARG
2	BN	167	THR
2	BN	168	ASN
2	BN	184	THR
2	BN	193	THR
2	BN	194	ILE
2	BN	197	LEU
2	BN	203	THR

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Mol	Chain	Res	Type
2	BN	212	THR
2	BN	218	ILE
2	BN	222	VAL
2	BR	45	SER
2	BR	49	ASP
2	BR	53	ARG
2	BR	58	LEU
2	BR	70	PRO
2	BR	73	GLN
2	BR	86	ASP
2	BR	88	LEU
2	BR	93	SER
2	BR	99	LYS
2	BR	110	VAL
2	BR	114	VAL
2	BR	126	VAL
2	BR	135	THR
2	BR	136	HIS
2	BR	140	LEU
2	BR	145	LEU
2	BR	146	GLU
2	BR	156	SER
2	BR	157	VAL
2	BR	166	ARG
2	BR	167	THR
2	BR	168	ASN
2	BR	184	THR
2	BR	193	THR
2	BR	194	ILE
2	BR	197	LEU
2	BR	203	THR
2	BR	212	THR
2	BR	218	ILE
2	BR	222	VAL
2	BO	45	SER
2	BO	49	ASP
2	BO	53	ARG
2	BO	58	LEU
2	BO	70	PRO
2	BO	73	GLN
2	BO	86	ASP
2	BO	88	LEU

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Mol	Chain	Res	Type
2	BO	93	SER
2	BO	99	LYS
2	BO	110	VAL
2	BO	114	VAL
2	BO	126	VAL
2	BO	135	THR
2	BO	136	HIS
2	BO	140	LEU
2	BO	145	LEU
2	BO	146	GLU
2	BO	156	SER
2	BO	157	VAL
2	BO	166	ARG
2	BO	167	THR
2	BO	168	ASN
2	BO	184	THR
2	BO	193	THR
2	BO	194	ILE
2	BO	197	LEU
2	BO	203	THR
2	BO	212	THR
2	BO	218	ILE
2	BO	222	VAL
2	BS	45	SER
2	BS	49	ASP
2	BS	53	ARG
2	BS	58	LEU
2	BS	70	PRO
2	BS	73	GLN
2	BS	86	ASP
2	BS	88	LEU
2	BS	93	SER
2	BS	99	LYS
2	BS	110	VAL
2	BS	114	VAL
2	BS	126	VAL
2	BS	135	THR
2	BS	136	HIS
2	BS	140	LEU
2	BS	145	LEU
2	BS	146	GLU
2	BS	156	SER

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Mol	Chain	Res	Type
2	BS	157	VAL
2	BS	166	ARG
2	BS	167	THR
2	BS	168	ASN
2	BS	184	THR
2	BS	193	THR
2	BS	194	ILE
2	BS	197	LEU
2	BS	203	THR
2	BS	212	THR
2	BS	218	ILE
2	BS	222	VAL
2	BP	45	SER
2	BP	49	ASP
2	BP	53	ARG
2	BP	58	LEU
2	BP	70	PRO
2	BP	73	GLN
2	BP	86	ASP
2	BP	88	LEU
2	BP	93	SER
2	BP	99	LYS
2	BP	110	VAL
2	BP	114	VAL
2	BP	126	VAL
2	BP	135	THR
2	BP	136	HIS
2	BP	140	LEU
2	BP	145	LEU
2	BP	146	GLU
2	BP	156	SER
2	BP	157	VAL
2	BP	166	ARG
2	BP	167	THR
2	BP	168	ASN
2	BP	184	THR
2	BP	193	THR
2	BP	194	ILE
2	BP	197	LEU
2	BP	203	THR
2	BP	212	THR
2	BP	218	ILE

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Mol	Chain	Res	Type
2	BP	222	VAL
2	BQ	45	SER
2	BQ	49	ASP
2	BQ	53	ARG
2	BQ	58	LEU
2	BQ	70	PRO
2	BQ	73	GLN
2	BQ	86	ASP
2	BQ	88	LEU
2	BQ	93	SER
2	BQ	99	LYS
2	BQ	110	VAL
2	BQ	114	VAL
2	BQ	126	VAL
2	BQ	135	THR
2	BQ	136	HIS
2	BQ	140	LEU
2	BQ	145	LEU
2	BQ	146	GLU
2	BQ	156	SER
2	BQ	157	VAL
2	BQ	166	ARG
2	BQ	167	THR
2	BQ	168	ASN
2	BQ	184	THR
2	BQ	193	THR
2	BQ	194	ILE
2	BQ	197	LEU
2	BQ	203	THR
2	BQ	212	THR
2	BQ	218	ILE
2	BQ	222	VAL
2	BT	45	SER
2	BT	49	ASP
2	BT	53	ARG
2	BT	58	LEU
2	BT	70	PRO
2	BT	73	GLN
2	BT	86	ASP
2	BT	88	LEU
2	BT	93	SER
2	BT	99	LYS

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Mol	Chain	Res	Type
2	BT	110	VAL
2	BT	114	VAL
2	BT	126	VAL
2	BT	135	THR
2	BT	136	HIS
2	BT	140	LEU
2	BT	145	LEU
2	BT	146	GLU
2	BT	156	SER
2	BT	157	VAL
2	BT	166	ARG
2	BT	167	THR
2	BT	168	ASN
2	BT	184	THR
2	BT	193	THR
2	BT	194	ILE
2	BT	197	LEU
2	BT	203	THR
2	BT	212	THR
2	BT	218	ILE
2	BT	222	VAL
2	BU	45	SER
2	BU	49	ASP
2	BU	53	ARG
2	BU	58	LEU
2	BU	70	PRO
2	BU	73	GLN
2	BU	86	ASP
2	BU	88	LEU
2	BU	93	SER
2	BU	99	LYS
2	BU	110	VAL
2	BU	114	VAL
2	BU	126	VAL
2	BU	135	THR
2	BU	136	HIS
2	BU	140	LEU
2	BU	145	LEU
2	BU	146	GLU
2	BU	156	SER
2	BU	157	VAL
2	BU	166	ARG

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Mol	Chain	Res	Type
2	BU	167	THR
2	BU	168	ASN
2	BU	184	THR
2	BU	193	THR
2	BU	194	ILE
2	BU	197	LEU
2	BU	203	THR
2	BU	212	THR
2	BU	218	ILE
2	BU	222	VAL
2	BV	45	SER
2	BV	49	ASP
2	BV	53	ARG
2	BV	58	LEU
2	BV	70	PRO
2	BV	73	GLN
2	BV	86	ASP
2	BV	88	LEU
2	BV	93	SER
2	BV	99	LYS
2	BV	110	VAL
2	BV	114	VAL
2	BV	126	VAL
2	BV	135	THR
2	BV	136	HIS
2	BV	140	LEU
2	BV	145	LEU
2	BV	146	GLU
2	BV	156	SER
2	BV	157	VAL
2	BV	166	ARG
2	BV	167	THR
2	BV	168	ASN
2	BV	184	THR
2	BV	193	THR
2	BV	194	ILE
2	BV	197	LEU
2	BV	203	THR
2	BV	212	THR
2	BV	218	ILE
2	BV	222	VAL
2	BW	45	SER

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Mol	Chain	Res	Type
2	BW	49	ASP
2	BW	53	ARG
2	BW	58	LEU
2	BW	70	PRO
2	BW	73	GLN
2	BW	86	ASP
2	BW	88	LEU
2	BW	93	SER
2	BW	99	LYS
2	BW	110	VAL
2	BW	114	VAL
2	BW	126	VAL
2	BW	135	THR
2	BW	136	HIS
2	BW	140	LEU
2	BW	145	LEU
2	BW	146	GLU
2	BW	156	SER
2	BW	157	VAL
2	BW	166	ARG
2	BW	167	THR
2	BW	168	ASN
2	BW	184	THR
2	BW	193	THR
2	BW	194	ILE
2	BW	197	LEU
2	BW	203	THR
2	BW	212	THR
2	BW	218	ILE
2	BW	222	VAL
2	BX	45	SER
2	BX	49	ASP
2	BX	53	ARG
2	BX	58	LEU
2	BX	70	PRO
2	BX	73	GLN
2	BX	86	ASP
2	BX	88	LEU
2	BX	93	SER
2	BX	99	LYS
2	BX	110	VAL
2	BX	114	VAL

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Mol	Chain	Res	Type
2	BX	126	VAL
2	BX	135	THR
2	BX	136	HIS
2	BX	140	LEU
2	BX	145	LEU
2	BX	146	GLU
2	BX	156	SER
2	BX	157	VAL
2	BX	166	ARG
2	BX	167	THR
2	BX	168	ASN
2	BX	184	THR
2	BX	193	THR
2	BX	194	ILE
2	BX	197	LEU
2	BX	203	THR
2	BX	212	THR
2	BX	218	ILE
2	BX	222	VAL
2	BY	45	SER
2	BY	49	ASP
2	BY	53	ARG
2	BY	58	LEU
2	BY	70	PRO
2	BY	73	GLN
2	BY	86	ASP
2	BY	88	LEU
2	BY	93	SER
2	BY	99	LYS
2	BY	110	VAL
2	BY	114	VAL
2	BY	126	VAL
2	BY	135	THR
2	BY	136	HIS
2	BY	140	LEU
2	BY	145	LEU
2	BY	146	GLU
2	BY	156	SER
2	BY	157	VAL
2	BY	166	ARG
2	BY	167	THR
2	BY	168	ASN

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Mol	Chain	Res	Type
2	BY	184	THR
2	BY	193	THR
2	BY	194	ILE
2	BY	197	LEU
2	BY	203	THR
2	BY	212	THR
2	BY	218	ILE
2	BY	222	VAL
2	BZ	45	SER
2	BZ	49	ASP
2	BZ	53	ARG
2	BZ	58	LEU
2	BZ	70	PRO
2	BZ	73	GLN
2	BZ	86	ASP
2	BZ	88	LEU
2	BZ	93	SER
2	BZ	99	LYS
2	BZ	110	VAL
2	BZ	114	VAL
2	BZ	126	VAL
2	BZ	135	THR
2	BZ	136	HIS
2	BZ	140	LEU
2	BZ	145	LEU
2	BZ	146	GLU
2	BZ	156	SER
2	BZ	157	VAL
2	BZ	166	ARG
2	BZ	167	THR
2	BZ	168	ASN
2	BZ	184	THR
2	BZ	193	THR
2	BZ	194	ILE
2	BZ	197	LEU
2	BZ	203	THR
2	BZ	212	THR
2	BZ	218	ILE
2	BZ	222	VAL
2	B0	45	SER
2	B0	49	ASP
2	B0	53	ARG

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Mol	Chain	Res	Type
2	B0	58	LEU
2	B0	70	PRO
2	B0	73	GLN
2	B0	86	ASP
2	B0	88	LEU
2	B0	93	SER
2	B0	99	LYS
2	B0	110	VAL
2	B0	114	VAL
2	B0	126	VAL
2	B0	135	THR
2	B0	136	HIS
2	B0	140	LEU
2	B0	145	LEU
2	B0	146	GLU
2	B0	156	SER
2	B0	157	VAL
2	B0	166	ARG
2	B0	167	THR
2	B0	168	ASN
2	B0	184	THR
2	B0	193	THR
2	B0	194	ILE
2	B0	197	LEU
2	B0	203	THR
2	B0	212	THR
2	B0	218	ILE
2	B0	222	VAL
2	B1	45	SER
2	B1	49	ASP
2	B1	53	ARG
2	B1	58	LEU
2	B1	70	PRO
2	B1	73	GLN
2	B1	86	ASP
2	B1	88	LEU
2	B1	93	SER
2	B1	99	LYS
2	B1	110	VAL
2	B1	114	VAL
2	B1	126	VAL
2	B1	135	THR

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Mol	Chain	Res	Type
2	B1	136	HIS
2	B1	140	LEU
2	B1	145	LEU
2	B1	146	GLU
2	B1	156	SER
2	B1	157	VAL
2	B1	166	ARG
2	B1	167	THR
2	B1	168	ASN
2	B1	184	THR
2	B1	193	THR
2	B1	194	ILE
2	B1	197	LEU
2	B1	203	THR
2	B1	212	THR
2	B1	218	ILE
2	B1	222	VAL
2	B2	45	SER
2	B2	49	ASP
2	B2	53	ARG
2	B2	58	LEU
2	B2	70	PRO
2	B2	73	GLN
2	B2	86	ASP
2	B2	88	LEU
2	B2	93	SER
2	B2	99	LYS
2	B2	110	VAL
2	B2	114	VAL
2	B2	126	VAL
2	B2	135	THR
2	B2	136	HIS
2	B2	140	LEU
2	B2	145	LEU
2	B2	146	GLU
2	B2	156	SER
2	B2	157	VAL
2	B2	166	ARG
2	B2	167	THR
2	B2	168	ASN
2	B2	184	THR
2	B2	193	THR

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Mol	Chain	Res	Type
2	B2	194	ILE
2	B2	197	LEU
2	B2	203	THR
2	B2	212	THR
2	B2	218	ILE
2	B2	222	VAL
2	B3	45	SER
2	B3	49	ASP
2	B3	53	ARG
2	B3	58	LEU
2	B3	70	PRO
2	B3	73	GLN
2	B3	86	ASP
2	B3	88	LEU
2	B3	93	SER
2	B3	99	LYS
2	B3	110	VAL
2	B3	114	VAL
2	B3	126	VAL
2	B3	135	THR
2	B3	136	HIS
2	B3	140	LEU
2	B3	145	LEU
2	B3	146	GLU
2	B3	156	SER
2	B3	157	VAL
2	B3	166	ARG
2	B3	167	THR
2	B3	168	ASN
2	B3	184	THR
2	B3	193	THR
2	B3	194	ILE
2	B3	197	LEU
2	B3	203	THR
2	B3	212	THR
2	B3	218	ILE
2	B3	222	VAL
2	B4	45	SER
2	B4	49	ASP
2	B4	53	ARG
2	B4	58	LEU
2	B4	70	PRO

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Mol	Chain	Res	Type
2	B4	73	GLN
2	B4	86	ASP
2	B4	88	LEU
2	B4	93	SER
2	B4	99	LYS
2	B4	110	VAL
2	B4	114	VAL
2	B4	126	VAL
2	B4	135	THR
2	B4	136	HIS
2	B4	140	LEU
2	B4	145	LEU
2	B4	146	GLU
2	B4	156	SER
2	B4	157	VAL
2	B4	166	ARG
2	B4	167	THR
2	B4	168	ASN
2	B4	184	THR
2	B4	193	THR
2	B4	194	ILE
2	B4	197	LEU
2	B4	203	THR
2	B4	212	THR
2	B4	218	ILE
2	B4	222	VAL
2	B5	45	SER
2	B5	49	ASP
2	B5	53	ARG
2	B5	58	LEU
2	B5	70	PRO
2	B5	73	GLN
2	B5	86	ASP
2	B5	88	LEU
2	B5	93	SER
2	B5	99	LYS
2	B5	110	VAL
2	B5	114	VAL
2	B5	126	VAL
2	B5	135	THR
2	B5	136	HIS
2	B5	140	LEU

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Mol	Chain	Res	Type
2	B5	145	LEU
2	B5	146	GLU
2	B5	156	SER
2	B5	157	VAL
2	B5	166	ARG
2	B5	167	THR
2	B5	168	ASN
2	B5	184	THR
2	B5	193	THR
2	B5	194	ILE
2	B5	197	LEU
2	B5	203	THR
2	B5	212	THR
2	B5	218	ILE
2	B5	222	VAL
2	B6	45	SER
2	B6	49	ASP
2	B6	53	ARG
2	B6	58	LEU
2	B6	70	PRO
2	B6	73	GLN
2	B6	86	ASP
2	B6	88	LEU
2	B6	93	SER
2	B6	99	LYS
2	B6	110	VAL
2	B6	114	VAL
2	B6	126	VAL
2	B6	135	THR
2	B6	136	HIS
2	B6	140	LEU
2	B6	145	LEU
2	B6	146	GLU
2	B6	156	SER
2	B6	157	VAL
2	B6	166	ARG
2	B6	167	THR
2	B6	168	ASN
2	B6	184	THR
2	B6	193	THR
2	B6	194	ILE
2	B6	197	LEU

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Mol	Chain	Res	Type
2	B6	203	THR
2	B6	212	THR
2	B6	218	ILE
2	B6	222	VAL
2	B7	45	SER
2	B7	49	ASP
2	B7	53	ARG
2	B7	58	LEU
2	B7	70	PRO
2	B7	73	GLN
2	B7	86	ASP
2	B7	88	LEU
2	B7	93	SER
2	B7	99	LYS
2	B7	110	VAL
2	B7	114	VAL
2	B7	126	VAL
2	B7	135	THR
2	B7	136	HIS
2	B7	140	LEU
2	B7	145	LEU
2	B7	146	GLU
2	B7	156	SER
2	B7	157	VAL
2	B7	166	ARG
2	B7	167	THR
2	B7	168	ASN
2	B7	184	THR
2	B7	193	THR
2	B7	194	ILE
2	B7	197	LEU
2	B7	203	THR
2	B7	212	THR
2	B7	218	ILE
2	B7	222	VAL
2	B8	45	SER
2	B8	49	ASP
2	B8	53	ARG
2	B8	58	LEU
2	B8	70	PRO
2	B8	73	GLN
2	B8	86	ASP

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Mol	Chain	Res	Type
2	B8	88	LEU
2	B8	93	SER
2	B8	99	LYS
2	B8	110	VAL
2	B8	114	VAL
2	B8	126	VAL
2	B8	135	THR
2	B8	136	HIS
2	B8	140	LEU
2	B8	145	LEU
2	B8	146	GLU
2	B8	156	SER
2	B8	157	VAL
2	B8	166	ARG
2	B8	167	THR
2	B8	168	ASN
2	B8	184	THR
2	B8	193	THR
2	B8	194	ILE
2	B8	197	LEU
2	B8	203	THR
2	B8	212	THR
2	B8	218	ILE
2	B8	222	VAL
2	B9	45	SER
2	B9	49	ASP
2	B9	53	ARG
2	B9	58	LEU
2	B9	70	PRO
2	B9	73	GLN
2	B9	86	ASP
2	B9	88	LEU
2	B9	93	SER
2	B9	99	LYS
2	B9	110	VAL
2	B9	114	VAL
2	B9	126	VAL
2	B9	135	THR
2	B9	136	HIS
2	B9	140	LEU
2	B9	145	LEU
2	B9	146	GLU

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Mol	Chain	Res	Type
2	B9	156	SER
2	B9	157	VAL
2	B9	166	ARG
2	B9	167	THR
2	B9	168	ASN
2	B9	184	THR
2	B9	193	THR
2	B9	194	ILE
2	B9	197	LEU
2	B9	203	THR
2	B9	212	THR
2	B9	218	ILE
2	B9	222	VAL
2	Ba	45	SER
2	Ba	49	ASP
2	Ba	53	ARG
2	Ba	58	LEU
2	Ba	70	PRO
2	Ba	73	GLN
2	Ba	86	ASP
2	Ba	88	LEU
2	Ba	93	SER
2	Ba	99	LYS
2	Ba	110	VAL
2	Ba	114	VAL
2	Ba	126	VAL
2	Ba	135	THR
2	Ba	136	HIS
2	Ba	140	LEU
2	Ba	145	LEU
2	Ba	146	GLU
2	Ba	156	SER
2	Ba	157	VAL
2	Ba	166	ARG
2	Ba	167	THR
2	Ba	168	ASN
2	Ba	184	THR
2	Ba	193	THR
2	Ba	194	ILE
2	Ba	197	LEU
2	Ba	203	THR
2	Ba	212	THR

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Mol	Chain	Res	Type
2	Ba	218	ILE
2	Ba	222	VAL
2	Bb	45	SER
2	Bb	49	ASP
2	Bb	53	ARG
2	Bb	58	LEU
2	Bb	70	PRO
2	Bb	73	GLN
2	Bb	86	ASP
2	Bb	88	LEU
2	Bb	93	SER
2	Bb	99	LYS
2	Bb	110	VAL
2	Bb	114	VAL
2	Bb	126	VAL
2	Bb	135	THR
2	Bb	136	HIS
2	Bb	140	LEU
2	Bb	145	LEU
2	Bb	146	GLU
2	Bb	156	SER
2	Bb	157	VAL
2	Bb	166	ARG
2	Bb	167	THR
2	Bb	168	ASN
2	Bb	184	THR
2	Bb	193	THR
2	Bb	194	ILE
2	Bb	197	LEU
2	Bb	203	THR
2	Bb	212	THR
2	Bb	218	ILE
2	Bb	222	VAL
2	Bc	45	SER
2	Bc	49	ASP
2	Bc	53	ARG
2	Bc	58	LEU
2	Bc	70	PRO
2	Bc	73	GLN
2	Bc	86	ASP
2	Bc	88	LEU
2	Bc	93	SER

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Mol	Chain	Res	Type
2	Bc	99	LYS
2	Bc	110	VAL
2	Bc	114	VAL
2	Bc	126	VAL
2	Bc	135	THR
2	Bc	136	HIS
2	Bc	140	LEU
2	Bc	145	LEU
2	Bc	146	GLU
2	Bc	156	SER
2	Bc	157	VAL
2	Bc	166	ARG
2	Bc	167	THR
2	Bc	168	ASN
2	Bc	184	THR
2	Bc	193	THR
2	Bc	194	ILE
2	Bc	197	LEU
2	Bc	203	THR
2	Bc	212	THR
2	Bc	218	ILE
2	Bc	222	VAL
2	Bd	45	SER
2	Bd	49	ASP
2	Bd	53	ARG
2	Bd	58	LEU
2	Bd	70	PRO
2	Bd	73	GLN
2	Bd	86	ASP
2	Bd	88	LEU
2	Bd	93	SER
2	Bd	99	LYS
2	Bd	110	VAL
2	Bd	114	VAL
2	Bd	126	VAL
2	Bd	135	THR
2	Bd	136	HIS
2	Bd	140	LEU
2	Bd	145	LEU
2	Bd	146	GLU
2	Bd	156	SER
2	Bd	157	VAL

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Mol	Chain	Res	Type
2	Bd	166	ARG
2	Bd	167	THR
2	Bd	168	ASN
2	Bd	184	THR
2	Bd	193	THR
2	Bd	194	ILE
2	Bd	197	LEU
2	Bd	203	THR
2	Bd	212	THR
2	Bd	218	ILE
2	Bd	222	VAL
2	Be	45	SER
2	Be	49	ASP
2	Be	53	ARG
2	Be	58	LEU
2	Be	70	PRO
2	Be	73	GLN
2	Be	86	ASP
2	Be	88	LEU
2	Be	93	SER
2	Be	99	LYS
2	Be	110	VAL
2	Be	114	VAL
2	Be	126	VAL
2	Be	135	THR
2	Be	136	HIS
2	Be	140	LEU
2	Be	145	LEU
2	Be	146	GLU
2	Be	156	SER
2	Be	157	VAL
2	Be	166	ARG
2	Be	167	THR
2	Be	168	ASN
2	Be	184	THR
2	Be	193	THR
2	Be	194	ILE
2	Be	197	LEU
2	Be	203	THR
2	Be	212	THR
2	Be	218	ILE
2	Be	222	VAL

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Mol	Chain	Res	Type
2	Bf	45	SER
2	Bf	49	ASP
2	Bf	53	ARG
2	Bf	58	LEU
2	Bf	70	PRO
2	Bf	73	GLN
2	Bf	86	ASP
2	Bf	88	LEU
2	Bf	93	SER
2	Bf	99	LYS
2	Bf	110	VAL
2	Bf	114	VAL
2	Bf	126	VAL
2	Bf	135	THR
2	Bf	136	HIS
2	Bf	140	LEU
2	Bf	145	LEU
2	Bf	146	GLU
2	Bf	156	SER
2	Bf	157	VAL
2	Bf	166	ARG
2	Bf	167	THR
2	Bf	168	ASN
2	Bf	184	THR
2	Bf	193	THR
2	Bf	194	ILE
2	Bf	197	LEU
2	Bf	203	THR
2	Bf	212	THR
2	Bf	218	ILE
2	Bf	222	VAL
2	Bg	45	SER
2	Bg	49	ASP
2	Bg	53	ARG
2	Bg	58	LEU
2	Bg	70	PRO
2	Bg	73	GLN
2	Bg	86	ASP
2	Bg	88	LEU
2	Bg	93	SER
2	Bg	99	LYS
2	Bg	110	VAL

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Mol	Chain	Res	Type
2	Bg	114	VAL
2	Bg	126	VAL
2	Bg	135	THR
2	Bg	136	HIS
2	Bg	140	LEU
2	Bg	145	LEU
2	Bg	146	GLU
2	Bg	156	SER
2	Bg	157	VAL
2	Bg	166	ARG
2	Bg	167	THR
2	Bg	168	ASN
2	Bg	184	THR
2	Bg	193	THR
2	Bg	194	ILE
2	Bg	197	LEU
2	Bg	203	THR
2	Bg	212	THR
2	Bg	218	ILE
2	Bg	222	VAL
2	Bh	45	SER
2	Bh	49	ASP
2	Bh	53	ARG
2	Bh	58	LEU
2	Bh	70	PRO
2	Bh	73	GLN
2	Bh	86	ASP
2	Bh	88	LEU
2	Bh	93	SER
2	Bh	99	LYS
2	Bh	110	VAL
2	Bh	114	VAL
2	Bh	126	VAL
2	Bh	135	THR
2	Bh	136	HIS
2	Bh	140	LEU
2	Bh	145	LEU
2	Bh	146	GLU
2	Bh	156	SER
2	Bh	157	VAL
2	Bh	166	ARG
2	Bh	167	THR

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Mol	Chain	Res	Type
2	Bh	168	ASN
2	Bh	184	THR
2	Bh	193	THR
2	Bh	194	ILE
2	Bh	197	LEU
2	Bh	203	THR
2	Bh	212	THR
2	Bh	218	ILE
2	Bh	222	VAL
2	Bi	45	SER
2	Bi	49	ASP
2	Bi	53	ARG
2	Bi	58	LEU
2	Bi	70	PRO
2	Bi	73	GLN
2	Bi	86	ASP
2	Bi	88	LEU
2	Bi	93	SER
2	Bi	99	LYS
2	Bi	110	VAL
2	Bi	114	VAL
2	Bi	126	VAL
2	Bi	135	THR
2	Bi	136	HIS
2	Bi	140	LEU
2	Bi	145	LEU
2	Bi	146	GLU
2	Bi	156	SER
2	Bi	157	VAL
2	Bi	166	ARG
2	Bi	167	THR
2	Bi	168	ASN
2	Bi	184	THR
2	Bi	193	THR
2	Bi	194	ILE
2	Bi	197	LEU
2	Bi	203	THR
2	Bi	212	THR
2	Bi	218	ILE
2	Bi	222	VAL
2	Bj	45	SER
2	Bj	49	ASP

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Mol	Chain	Res	Type
2	Bj	53	ARG
2	Bj	58	LEU
2	Bj	70	PRO
2	Bj	73	GLN
2	Bj	86	ASP
2	Bj	88	LEU
2	Bj	93	SER
2	Bj	99	LYS
2	Bj	110	VAL
2	Bj	114	VAL
2	Bj	126	VAL
2	Bj	135	THR
2	Bj	136	HIS
2	Bj	140	LEU
2	Bj	145	LEU
2	Bj	146	GLU
2	Bj	156	SER
2	Bj	157	VAL
2	Bj	166	ARG
2	Bj	167	THR
2	Bj	168	ASN
2	Bj	184	THR
2	Bj	193	THR
2	Bj	194	ILE
2	Bj	197	LEU
2	Bj	203	THR
2	Bj	212	THR
2	Bj	218	ILE
2	Bj	222	VAL
2	Bk	45	SER
2	Bk	49	ASP
2	Bk	53	ARG
2	Bk	58	LEU
2	Bk	70	PRO
2	Bk	73	GLN
2	Bk	86	ASP
2	Bk	88	LEU
2	Bk	93	SER
2	Bk	99	LYS
2	Bk	110	VAL
2	Bk	114	VAL
2	Bk	126	VAL

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Mol	Chain	Res	Type
2	Bk	135	THR
2	Bk	136	HIS
2	Bk	140	LEU
2	Bk	145	LEU
2	Bk	146	GLU
2	Bk	156	SER
2	Bk	157	VAL
2	Bk	166	ARG
2	Bk	167	THR
2	Bk	168	ASN
2	Bk	184	THR
2	Bk	193	THR
2	Bk	194	ILE
2	Bk	197	LEU
2	Bk	203	THR
2	Bk	212	THR
2	Bk	218	ILE
2	Bk	222	VAL
2	Bl	45	SER
2	Bl	49	ASP
2	Bl	53	ARG
2	Bl	58	LEU
2	Bl	70	PRO
2	Bl	73	GLN
2	Bl	86	ASP
2	Bl	88	LEU
2	Bl	93	SER
2	Bl	99	LYS
2	Bl	110	VAL
2	Bl	114	VAL
2	Bl	126	VAL
2	Bl	135	THR
2	Bl	136	HIS
2	Bl	140	LEU
2	Bl	145	LEU
2	Bl	146	GLU
2	Bl	156	SER
2	Bl	157	VAL
2	Bl	166	ARG
2	Bl	167	THR
2	Bl	168	ASN
2	Bl	184	THR

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Mol	Chain	Res	Type
2	Bl	193	THR
2	Bl	194	ILE
2	Bl	197	LEU
2	Bl	203	THR
2	Bl	212	THR
2	Bl	218	ILE
2	Bl	222	VAL
2	Bm	45	SER
2	Bm	49	ASP
2	Bm	53	ARG
2	Bm	58	LEU
2	Bm	70	PRO
2	Bm	73	GLN
2	Bm	86	ASP
2	Bm	88	LEU
2	Bm	93	SER
2	Bm	99	LYS
2	Bm	110	VAL
2	Bm	114	VAL
2	Bm	126	VAL
2	Bm	135	THR
2	Bm	136	HIS
2	Bm	140	LEU
2	Bm	145	LEU
2	Bm	146	GLU
2	Bm	156	SER
2	Bm	157	VAL
2	Bm	166	ARG
2	Bm	167	THR
2	Bm	168	ASN
2	Bm	184	THR
2	Bm	193	THR
2	Bm	194	ILE
2	Bm	197	LEU
2	Bm	203	THR
2	Bm	212	THR
2	Bm	218	ILE
2	Bm	222	VAL
2	Bn	45	SER
2	Bn	49	ASP
2	Bn	53	ARG
2	Bn	58	LEU

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Mol	Chain	Res	Type
2	Bn	70	PRO
2	Bn	73	GLN
2	Bn	86	ASP
2	Bn	88	LEU
2	Bn	93	SER
2	Bn	99	LYS
2	Bn	110	VAL
2	Bn	114	VAL
2	Bn	126	VAL
2	Bn	135	THR
2	Bn	136	HIS
2	Bn	140	LEU
2	Bn	145	LEU
2	Bn	146	GLU
2	Bn	156	SER
2	Bn	157	VAL
2	Bn	166	ARG
2	Bn	167	THR
2	Bn	168	ASN
2	Bn	184	THR
2	Bn	193	THR
2	Bn	194	ILE
2	Bn	197	LEU
2	Bn	203	THR
2	Bn	212	THR
2	Bn	218	ILE
2	Bn	222	VAL
2	Bo	45	SER
2	Bo	49	ASP
2	Bo	53	ARG
2	Bo	58	LEU
2	Bo	70	PRO
2	Bo	73	GLN
2	Bo	86	ASP
2	Bo	88	LEU
2	Bo	93	SER
2	Bo	99	LYS
2	Bo	110	VAL
2	Bo	114	VAL
2	Bo	126	VAL
2	Bo	135	THR
2	Bo	136	HIS

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Mol	Chain	Res	Type
2	Bo	140	LEU
2	Bo	145	LEU
2	Bo	146	GLU
2	Bo	156	SER
2	Bo	157	VAL
2	Bo	166	ARG
2	Bo	167	THR
2	Bo	168	ASN
2	Bo	184	THR
2	Bo	193	THR
2	Bo	194	ILE
2	Bo	197	LEU
2	Bo	203	THR
2	Bo	212	THR
2	Bo	218	ILE
2	Bo	222	VAL
2	Bp	45	SER
2	Bp	49	ASP
2	Bp	53	ARG
2	Bp	58	LEU
2	Bp	70	PRO
2	Bp	73	GLN
2	Bp	86	ASP
2	Bp	88	LEU
2	Bp	93	SER
2	Bp	99	LYS
2	Bp	110	VAL
2	Bp	114	VAL
2	Bp	126	VAL
2	Bp	135	THR
2	Bp	136	HIS
2	Bp	140	LEU
2	Bp	145	LEU
2	Bp	146	GLU
2	Bp	156	SER
2	Bp	157	VAL
2	Bp	166	ARG
2	Bp	167	THR
2	Bp	168	ASN
2	Bp	184	THR
2	Bp	193	THR
2	Bp	194	ILE

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Mol	Chain	Res	Type
2	Bp	197	LEU
2	Bp	203	THR
2	Bp	212	THR
2	Bp	218	ILE
2	Bp	222	VAL
2	Bq	45	SER
2	Bq	49	ASP
2	Bq	53	ARG
2	Bq	58	LEU
2	Bq	70	PRO
2	Bq	73	GLN
2	Bq	86	ASP
2	Bq	88	LEU
2	Bq	93	SER
2	Bq	99	LYS
2	Bq	110	VAL
2	Bq	114	VAL
2	Bq	126	VAL
2	Bq	135	THR
2	Bq	136	HIS
2	Bq	140	LEU
2	Bq	145	LEU
2	Bq	146	GLU
2	Bq	156	SER
2	Bq	157	VAL
2	Bq	166	ARG
2	Bq	167	THR
2	Bq	168	ASN
2	Bq	184	THR
2	Bq	193	THR
2	Bq	194	ILE
2	Bq	197	LEU
2	Bq	203	THR
2	Bq	212	THR
2	Bq	218	ILE
2	Bq	222	VAL
2	Br	45	SER
2	Br	49	ASP
2	Br	53	ARG
2	Br	58	LEU
2	Br	70	PRO
2	Br	73	GLN

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Mol	Chain	Res	Type
2	Br	86	ASP
2	Br	88	LEU
2	Br	93	SER
2	Br	99	LYS
2	Br	110	VAL
2	Br	114	VAL
2	Br	126	VAL
2	Br	135	THR
2	Br	136	HIS
2	Br	140	LEU
2	Br	145	LEU
2	Br	146	GLU
2	Br	156	SER
2	Br	157	VAL
2	Br	166	ARG
2	Br	167	THR
2	Br	168	ASN
2	Br	184	THR
2	Br	193	THR
2	Br	194	ILE
2	Br	197	LEU
2	Br	203	THR
2	Br	212	THR
2	Br	218	ILE
2	Br	222	VAL
2	Bs	45	SER
2	Bs	49	ASP
2	Bs	53	ARG
2	Bs	58	LEU
2	Bs	70	PRO
2	Bs	73	GLN
2	Bs	86	ASP
2	Bs	88	LEU
2	Bs	93	SER
2	Bs	99	LYS
2	Bs	110	VAL
2	Bs	114	VAL
2	Bs	126	VAL
2	Bs	135	THR
2	Bs	136	HIS
2	Bs	140	LEU
2	Bs	145	LEU

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Mol	Chain	Res	Type
2	Bs	146	GLU
2	Bs	156	SER
2	Bs	157	VAL
2	Bs	166	ARG
2	Bs	167	THR
2	Bs	168	ASN
2	Bs	184	THR
2	Bs	193	THR
2	Bs	194	ILE
2	Bs	197	LEU
2	Bs	203	THR
2	Bs	212	THR
2	Bs	218	ILE
2	Bs	222	VAL
2	Bt	45	SER
2	Bt	49	ASP
2	Bt	53	ARG
2	Bt	58	LEU
2	Bt	70	PRO
2	Bt	73	GLN
2	Bt	86	ASP
2	Bt	88	LEU
2	Bt	93	SER
2	Bt	99	LYS
2	Bt	110	VAL
2	Bt	114	VAL
2	Bt	126	VAL
2	Bt	135	THR
2	Bt	136	HIS
2	Bt	140	LEU
2	Bt	145	LEU
2	Bt	146	GLU
2	Bt	156	SER
2	Bt	157	VAL
2	Bt	166	ARG
2	Bt	167	THR
2	Bt	168	ASN
2	Bt	184	THR
2	Bt	193	THR
2	Bt	194	ILE
2	Bt	197	LEU
2	Bt	203	THR

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Mol	Chain	Res	Type
2	Bt	212	THR
2	Bt	218	ILE
2	Bt	222	VAL
2	Bu	45	SER
2	Bu	49	ASP
2	Bu	53	ARG
2	Bu	58	LEU
2	Bu	70	PRO
2	Bu	73	GLN
2	Bu	86	ASP
2	Bu	88	LEU
2	Bu	93	SER
2	Bu	99	LYS
2	Bu	110	VAL
2	Bu	114	VAL
2	Bu	126	VAL
2	Bu	135	THR
2	Bu	136	HIS
2	Bu	140	LEU
2	Bu	145	LEU
2	Bu	146	GLU
2	Bu	156	SER
2	Bu	157	VAL
2	Bu	166	ARG
2	Bu	167	THR
2	Bu	168	ASN
2	Bu	184	THR
2	Bu	193	THR
2	Bu	194	ILE
2	Bu	197	LEU
2	Bu	203	THR
2	Bu	212	THR
2	Bu	218	ILE
2	Bu	222	VAL
2	Bv	45	SER
2	Bv	49	ASP
2	Bv	53	ARG
2	Bv	58	LEU
2	Bv	70	PRO
2	Bv	73	GLN
2	Bv	86	ASP
2	Bv	88	LEU

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Mol	Chain	Res	Type
2	Bv	93	SER
2	Bv	99	LYS
2	Bv	110	VAL
2	Bv	114	VAL
2	Bv	126	VAL
2	Bv	135	THR
2	Bv	136	HIS
2	Bv	140	LEU
2	Bv	145	LEU
2	Bv	146	GLU
2	Bv	156	SER
2	Bv	157	VAL
2	Bv	166	ARG
2	Bv	167	THR
2	Bv	168	ASN
2	Bv	184	THR
2	Bv	193	THR
2	Bv	194	ILE
2	Bv	197	LEU
2	Bv	203	THR
2	Bv	212	THR
2	Bv	218	ILE
2	Bv	222	VAL
2	Bw	45	SER
2	Bw	49	ASP
2	Bw	53	ARG
2	Bw	58	LEU
2	Bw	70	PRO
2	Bw	73	GLN
2	Bw	86	ASP
2	Bw	88	LEU
2	Bw	93	SER
2	Bw	99	LYS
2	Bw	110	VAL
2	Bw	114	VAL
2	Bw	126	VAL
2	Bw	135	THR
2	Bw	136	HIS
2	Bw	140	LEU
2	Bw	145	LEU
2	Bw	146	GLU
2	Bw	156	SER

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Mol	Chain	Res	Type
2	Bw	157	VAL
2	Bw	166	ARG
2	Bw	167	THR
2	Bw	168	ASN
2	Bw	184	THR
2	Bw	193	THR
2	Bw	194	ILE
2	Bw	197	LEU
2	Bw	203	THR
2	Bw	212	THR
2	Bw	218	ILE
2	Bw	222	VAL
2	Bx	45	SER
2	Bx	49	ASP
2	Bx	53	ARG
2	Bx	58	LEU
2	Bx	70	PRO
2	Bx	73	GLN
2	Bx	86	ASP
2	Bx	88	LEU
2	Bx	93	SER
2	Bx	99	LYS
2	Bx	110	VAL
2	Bx	114	VAL
2	Bx	126	VAL
2	Bx	135	THR
2	Bx	136	HIS
2	Bx	140	LEU
2	Bx	145	LEU
2	Bx	146	GLU
2	Bx	156	SER
2	Bx	157	VAL
2	Bx	166	ARG
2	Bx	167	THR
2	Bx	168	ASN
2	Bx	184	THR
2	Bx	193	THR
2	Bx	194	ILE
2	Bx	197	LEU
2	Bx	203	THR
2	Bx	212	THR
2	Bx	218	ILE

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Mol	Chain	Res	Type
2	Bx	222	VAL
3	CA	5	VAL
3	CA	8	VAL
3	CA	11	SER
3	CA	18	VAL
3	CA	23	THR
3	CA	31	VAL
3	CA	35	GLN
3	CA	36	VAL
3	CA	46	VAL
3	CA	50	THR
3	CA	56	ILE
3	CA	59	LYS
3	CA	64	VAL
3	CA	73	LEU
3	CA	76	MET
3	CA	77	ASP
3	CA	80	LEU
3	CA	84	GLU
3	CA	93	LEU
3	CA	116	THR
3	CA	122	VAL
3	CA	129	SER
3	CA	135	ARG
3	CA	139	MET
3	CA	151	ASN
3	CA	157	ASN
3	CA	161	SER
3	CA	175	THR
3	CA	176	VAL
3	CA	178	ASN
3	CA	179	VAL
3	CA	183	LEU
3	CA	188	LEU
3	CA	192	THR
3	CA	194	THR
3	CA	196	ILE
3	CA	206	VAL
3	CA	208	VAL
3	CA	216	LEU
3	CA	217	ARG
3	CB	5	VAL

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Mol	Chain	Res	Type
3	CB	8	VAL
3	CB	11	SER
3	CB	18	VAL
3	CB	23	THR
3	CB	31	VAL
3	CB	35	GLN
3	CB	36	VAL
3	CB	46	VAL
3	CB	50	THR
3	CB	56	ILE
3	CB	59	LYS
3	CB	64	VAL
3	CB	73	LEU
3	CB	76	MET
3	CB	77	ASP
3	CB	80	LEU
3	CB	84	GLU
3	CB	93	LEU
3	CB	116	THR
3	CB	122	VAL
3	CB	129	SER
3	CB	135	ARG
3	CB	139	MET
3	CB	151	ASN
3	CB	157	ASN
3	CB	161	SER
3	CB	175	THR
3	CB	176	VAL
3	CB	178	ASN
3	CB	179	VAL
3	CB	183	LEU
3	CB	188	LEU
3	CB	192	THR
3	CB	194	THR
3	CB	196	ILE
3	CB	206	VAL
3	CB	208	VAL
3	CB	216	LEU
3	CB	217	ARG
3	CC	5	VAL
3	CC	8	VAL
3	CC	11	SER

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Mol	Chain	Res	Type
3	CC	18	VAL
3	CC	23	THR
3	CC	31	VAL
3	CC	35	GLN
3	CC	36	VAL
3	CC	46	VAL
3	CC	50	THR
3	CC	56	ILE
3	CC	59	LYS
3	CC	64	VAL
3	CC	73	LEU
3	CC	76	MET
3	CC	77	ASP
3	CC	80	LEU
3	CC	84	GLU
3	CC	93	LEU
3	CC	116	THR
3	CC	122	VAL
3	CC	129	SER
3	CC	135	ARG
3	CC	139	MET
3	CC	151	ASN
3	CC	157	ASN
3	CC	161	SER
3	CC	175	THR
3	CC	176	VAL
3	CC	178	ASN
3	CC	179	VAL
3	CC	183	LEU
3	CC	188	LEU
3	CC	192	THR
3	CC	194	THR
3	CC	196	ILE
3	CC	206	VAL
3	CC	208	VAL
3	CC	216	LEU
3	CC	217	ARG
3	CD	5	VAL
3	CD	8	VAL
3	CD	11	SER
3	CD	18	VAL
3	CD	23	THR

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Mol	Chain	Res	Type
3	CD	31	VAL
3	CD	35	GLN
3	CD	36	VAL
3	CD	46	VAL
3	CD	50	THR
3	CD	56	ILE
3	CD	59	LYS
3	CD	64	VAL
3	CD	73	LEU
3	CD	76	MET
3	CD	77	ASP
3	CD	80	LEU
3	CD	84	GLU
3	CD	93	LEU
3	CD	116	THR
3	CD	122	VAL
3	CD	129	SER
3	CD	135	ARG
3	CD	139	MET
3	CD	151	ASN
3	CD	157	ASN
3	CD	161	SER
3	CD	175	THR
3	CD	176	VAL
3	CD	178	ASN
3	CD	179	VAL
3	CD	183	LEU
3	CD	188	LEU
3	CD	192	THR
3	CD	194	THR
3	CD	196	ILE
3	CD	206	VAL
3	CD	208	VAL
3	CD	216	LEU
3	CD	217	ARG
3	CE	5	VAL
3	CE	8	VAL
3	CE	11	SER
3	CE	18	VAL
3	CE	23	THR
3	CE	31	VAL
3	CE	35	GLN

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Mol	Chain	Res	Type
3	CE	36	VAL
3	CE	46	VAL
3	CE	50	THR
3	CE	56	ILE
3	CE	59	LYS
3	CE	64	VAL
3	CE	73	LEU
3	CE	76	MET
3	CE	77	ASP
3	CE	80	LEU
3	CE	84	GLU
3	CE	93	LEU
3	CE	116	THR
3	CE	122	VAL
3	CE	129	SER
3	CE	135	ARG
3	CE	139	MET
3	CE	151	ASN
3	CE	157	ASN
3	CE	161	SER
3	CE	175	THR
3	CE	176	VAL
3	CE	178	ASN
3	CE	179	VAL
3	CE	183	LEU
3	CE	188	LEU
3	CE	192	THR
3	CE	194	THR
3	CE	196	ILE
3	CE	206	VAL
3	CE	208	VAL
3	CE	216	LEU
3	CE	217	ARG
3	CF	5	VAL
3	CF	8	VAL
3	CF	11	SER
3	CF	18	VAL
3	CF	23	THR
3	CF	31	VAL
3	CF	35	GLN
3	CF	36	VAL
3	CF	46	VAL

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Mol	Chain	Res	Type
3	CF	50	THR
3	CF	56	ILE
3	CF	59	LYS
3	CF	64	VAL
3	CF	73	LEU
3	CF	76	MET
3	CF	77	ASP
3	CF	80	LEU
3	CF	84	GLU
3	CF	93	LEU
3	CF	116	THR
3	CF	122	VAL
3	CF	129	SER
3	CF	135	ARG
3	CF	139	MET
3	CF	151	ASN
3	CF	157	ASN
3	CF	161	SER
3	CF	175	THR
3	CF	176	VAL
3	CF	178	ASN
3	CF	179	VAL
3	CF	183	LEU
3	CF	188	LEU
3	CF	192	THR
3	CF	194	THR
3	CF	196	ILE
3	CF	206	VAL
3	CF	208	VAL
3	CF	216	LEU
3	CF	217	ARG
3	CG	5	VAL
3	CG	8	VAL
3	CG	11	SER
3	CG	18	VAL
3	CG	23	THR
3	CG	31	VAL
3	CG	35	GLN
3	CG	36	VAL
3	CG	46	VAL
3	CG	50	THR
3	CG	56	ILE

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Mol	Chain	Res	Type
3	CG	59	LYS
3	CG	64	VAL
3	CG	73	LEU
3	CG	76	MET
3	CG	77	ASP
3	CG	80	LEU
3	CG	84	GLU
3	CG	93	LEU
3	CG	116	THR
3	CG	122	VAL
3	CG	129	SER
3	CG	135	ARG
3	CG	139	MET
3	CG	151	ASN
3	CG	157	ASN
3	CG	161	SER
3	CG	175	THR
3	CG	176	VAL
3	CG	178	ASN
3	CG	179	VAL
3	CG	183	LEU
3	CG	188	LEU
3	CG	192	THR
3	CG	194	THR
3	CG	196	ILE
3	CG	206	VAL
3	CG	208	VAL
3	CG	216	LEU
3	CG	217	ARG
3	CH	5	VAL
3	CH	8	VAL
3	CH	11	SER
3	CH	18	VAL
3	CH	23	THR
3	CH	31	VAL
3	CH	35	GLN
3	CH	36	VAL
3	CH	46	VAL
3	CH	50	THR
3	CH	56	ILE
3	CH	59	LYS
3	CH	64	VAL

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Mol	Chain	Res	Type
3	CH	73	LEU
3	CH	76	MET
3	CH	77	ASP
3	CH	80	LEU
3	CH	84	GLU
3	CH	93	LEU
3	CH	116	THR
3	CH	122	VAL
3	CH	129	SER
3	CH	135	ARG
3	CH	139	MET
3	CH	151	ASN
3	CH	157	ASN
3	CH	161	SER
3	CH	175	THR
3	CH	176	VAL
3	CH	178	ASN
3	CH	179	VAL
3	CH	183	LEU
3	CH	188	LEU
3	CH	192	THR
3	CH	194	THR
3	CH	196	ILE
3	CH	206	VAL
3	CH	208	VAL
3	CH	216	LEU
3	CH	217	ARG
3	CI	5	VAL
3	CI	8	VAL
3	CI	11	SER
3	CI	18	VAL
3	CI	23	THR
3	CI	31	VAL
3	CI	35	GLN
3	CI	36	VAL
3	CI	46	VAL
3	CI	50	THR
3	CI	56	ILE
3	CI	59	LYS
3	CI	64	VAL
3	CI	73	LEU
3	CI	76	MET

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Mol	Chain	Res	Type
3	CI	77	ASP
3	CI	80	LEU
3	CI	84	GLU
3	CI	93	LEU
3	CI	116	THR
3	CI	122	VAL
3	CI	129	SER
3	CI	135	ARG
3	CI	139	MET
3	CI	151	ASN
3	CI	157	ASN
3	CI	161	SER
3	CI	175	THR
3	CI	176	VAL
3	CI	178	ASN
3	CI	179	VAL
3	CI	183	LEU
3	CI	188	LEU
3	CI	192	THR
3	CI	194	THR
3	CI	196	ILE
3	CI	206	VAL
3	CI	208	VAL
3	CI	216	LEU
3	CI	217	ARG
3	CJ	5	VAL
3	CJ	8	VAL
3	CJ	11	SER
3	CJ	18	VAL
3	CJ	23	THR
3	CJ	31	VAL
3	CJ	35	GLN
3	CJ	36	VAL
3	CJ	46	VAL
3	CJ	50	THR
3	CJ	56	ILE
3	CJ	59	LYS
3	CJ	64	VAL
3	CJ	73	LEU
3	CJ	76	MET
3	CJ	77	ASP
3	CJ	80	LEU

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Mol	Chain	Res	Type
3	CJ	84	GLU
3	CJ	93	LEU
3	CJ	116	THR
3	CJ	122	VAL
3	CJ	129	SER
3	CJ	135	ARG
3	CJ	139	MET
3	CJ	151	ASN
3	CJ	157	ASN
3	CJ	161	SER
3	CJ	175	THR
3	CJ	176	VAL
3	CJ	178	ASN
3	CJ	179	VAL
3	CJ	183	LEU
3	CJ	188	LEU
3	CJ	192	THR
3	CJ	194	THR
3	CJ	196	ILE
3	CJ	206	VAL
3	CJ	208	VAL
3	CJ	216	LEU
3	CJ	217	ARG
3	CK	5	VAL
3	CK	8	VAL
3	CK	11	SER
3	CK	18	VAL
3	CK	23	THR
3	CK	31	VAL
3	CK	35	GLN
3	CK	36	VAL
3	CK	46	VAL
3	CK	50	THR
3	CK	56	ILE
3	CK	59	LYS
3	CK	64	VAL
3	CK	73	LEU
3	CK	76	MET
3	CK	77	ASP
3	CK	80	LEU
3	CK	84	GLU
3	CK	93	LEU

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Mol	Chain	Res	Type
3	CK	116	THR
3	CK	122	VAL
3	CK	129	SER
3	CK	135	ARG
3	CK	139	MET
3	CK	151	ASN
3	CK	157	ASN
3	CK	161	SER
3	CK	175	THR
3	CK	176	VAL
3	CK	178	ASN
3	CK	179	VAL
3	CK	183	LEU
3	CK	188	LEU
3	CK	192	THR
3	CK	194	THR
3	CK	196	ILE
3	CK	206	VAL
3	CK	208	VAL
3	CK	216	LEU
3	CK	217	ARG
3	CL	5	VAL
3	CL	8	VAL
3	CL	11	SER
3	CL	18	VAL
3	CL	23	THR
3	CL	31	VAL
3	CL	35	GLN
3	CL	36	VAL
3	CL	46	VAL
3	CL	50	THR
3	CL	56	ILE
3	CL	59	LYS
3	CL	64	VAL
3	CL	73	LEU
3	CL	76	MET
3	CL	77	ASP
3	CL	80	LEU
3	CL	84	GLU
3	CL	93	LEU
3	CL	116	THR
3	CL	122	VAL

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Mol	Chain	Res	Type
3	CL	129	SER
3	CL	135	ARG
3	CL	139	MET
3	CL	151	ASN
3	CL	157	ASN
3	CL	161	SER
3	CL	175	THR
3	CL	176	VAL
3	CL	178	ASN
3	CL	179	VAL
3	CL	183	LEU
3	CL	188	LEU
3	CL	192	THR
3	CL	194	THR
3	CL	196	ILE
3	CL	206	VAL
3	CL	208	VAL
3	CL	216	LEU
3	CL	217	ARG
3	CM	5	VAL
3	CM	8	VAL
3	CM	11	SER
3	CM	18	VAL
3	CM	23	THR
3	CM	31	VAL
3	CM	35	GLN
3	CM	36	VAL
3	CM	46	VAL
3	CM	50	THR
3	CM	56	ILE
3	CM	59	LYS
3	CM	64	VAL
3	CM	73	LEU
3	CM	76	MET
3	CM	77	ASP
3	CM	80	LEU
3	CM	84	GLU
3	CM	93	LEU
3	CM	116	THR
3	CM	122	VAL
3	CM	129	SER
3	CM	135	ARG

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Mol	Chain	Res	Type
3	CM	139	MET
3	CM	151	ASN
3	CM	157	ASN
3	CM	161	SER
3	CM	175	THR
3	CM	176	VAL
3	CM	178	ASN
3	CM	179	VAL
3	CM	183	LEU
3	CM	188	LEU
3	CM	192	THR
3	CM	194	THR
3	CM	196	ILE
3	CM	206	VAL
3	CM	208	VAL
3	CM	216	LEU
3	CM	217	ARG
3	CN	5	VAL
3	CN	8	VAL
3	CN	11	SER
3	CN	18	VAL
3	CN	23	THR
3	CN	31	VAL
3	CN	35	GLN
3	CN	36	VAL
3	CN	46	VAL
3	CN	50	THR
3	CN	56	ILE
3	CN	59	LYS
3	CN	64	VAL
3	CN	73	LEU
3	CN	76	MET
3	CN	77	ASP
3	CN	80	LEU
3	CN	84	GLU
3	CN	93	LEU
3	CN	116	THR
3	CN	122	VAL
3	CN	129	SER
3	CN	135	ARG
3	CN	139	MET
3	CN	151	ASN

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Mol	Chain	Res	Type
3	CN	157	ASN
3	CN	161	SER
3	CN	175	THR
3	CN	176	VAL
3	CN	178	ASN
3	CN	179	VAL
3	CN	183	LEU
3	CN	188	LEU
3	CN	192	THR
3	CN	194	THR
3	CN	196	ILE
3	CN	206	VAL
3	CN	208	VAL
3	CN	216	LEU
3	CN	217	ARG
3	CO	5	VAL
3	CO	8	VAL
3	CO	11	SER
3	CO	18	VAL
3	CO	23	THR
3	CO	31	VAL
3	CO	35	GLN
3	CO	36	VAL
3	CO	46	VAL
3	CO	50	THR
3	CO	56	ILE
3	CO	59	LYS
3	CO	64	VAL
3	CO	73	LEU
3	CO	76	MET
3	CO	77	ASP
3	CO	80	LEU
3	CO	84	GLU
3	CO	93	LEU
3	CO	116	THR
3	CO	122	VAL
3	CO	129	SER
3	CO	135	ARG
3	CO	139	MET
3	CO	151	ASN
3	CO	157	ASN
3	CO	161	SER

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Mol	Chain	Res	Type
3	CO	175	THR
3	CO	176	VAL
3	CO	178	ASN
3	CO	179	VAL
3	CO	183	LEU
3	CO	188	LEU
3	CO	192	THR
3	CO	194	THR
3	CO	196	ILE
3	CO	206	VAL
3	CO	208	VAL
3	CO	216	LEU
3	CO	217	ARG
3	CP	5	VAL
3	CP	8	VAL
3	CP	11	SER
3	CP	18	VAL
3	CP	23	THR
3	CP	31	VAL
3	CP	35	GLN
3	CP	36	VAL
3	CP	46	VAL
3	CP	50	THR
3	CP	56	ILE
3	CP	59	LYS
3	CP	64	VAL
3	CP	73	LEU
3	CP	76	MET
3	CP	77	ASP
3	CP	80	LEU
3	CP	84	GLU
3	CP	93	LEU
3	CP	116	THR
3	CP	122	VAL
3	CP	129	SER
3	CP	135	ARG
3	CP	139	MET
3	CP	151	ASN
3	CP	157	ASN
3	CP	161	SER
3	CP	175	THR
3	CP	176	VAL

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Mol	Chain	Res	Type
3	CP	178	ASN
3	CP	179	VAL
3	CP	183	LEU
3	CP	188	LEU
3	CP	192	THR
3	CP	194	THR
3	CP	196	ILE
3	CP	206	VAL
3	CP	208	VAL
3	CP	216	LEU
3	CP	217	ARG
3	CQ	5	VAL
3	CQ	8	VAL
3	CQ	11	SER
3	CQ	18	VAL
3	CQ	23	THR
3	CQ	31	VAL
3	CQ	35	GLN
3	CQ	36	VAL
3	CQ	46	VAL
3	CQ	50	THR
3	CQ	56	ILE
3	CQ	59	LYS
3	CQ	64	VAL
3	CQ	73	LEU
3	CQ	76	MET
3	CQ	77	ASP
3	CQ	80	LEU
3	CQ	84	GLU
3	CQ	93	LEU
3	CQ	116	THR
3	CQ	122	VAL
3	CQ	129	SER
3	CQ	135	ARG
3	CQ	139	MET
3	CQ	151	ASN
3	CQ	157	ASN
3	CQ	161	SER
3	CQ	175	THR
3	CQ	176	VAL
3	CQ	178	ASN
3	CQ	179	VAL

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Mol	Chain	Res	Type
3	CQ	183	LEU
3	CQ	188	LEU
3	CQ	192	THR
3	CQ	194	THR
3	CQ	196	ILE
3	CQ	206	VAL
3	CQ	208	VAL
3	CQ	216	LEU
3	CQ	217	ARG
3	CR	5	VAL
3	CR	8	VAL
3	CR	11	SER
3	CR	18	VAL
3	CR	23	THR
3	CR	31	VAL
3	CR	35	GLN
3	CR	36	VAL
3	CR	46	VAL
3	CR	50	THR
3	CR	56	ILE
3	CR	59	LYS
3	CR	64	VAL
3	CR	73	LEU
3	CR	76	MET
3	CR	77	ASP
3	CR	80	LEU
3	CR	84	GLU
3	CR	93	LEU
3	CR	116	THR
3	CR	122	VAL
3	CR	129	SER
3	CR	135	ARG
3	CR	139	MET
3	CR	151	ASN
3	CR	157	ASN
3	CR	161	SER
3	CR	175	THR
3	CR	176	VAL
3	CR	178	ASN
3	CR	179	VAL
3	CR	183	LEU
3	CR	188	LEU

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Mol	Chain	Res	Type
3	CR	192	THR
3	CR	194	THR
3	CR	196	ILE
3	CR	206	VAL
3	CR	208	VAL
3	CR	216	LEU
3	CR	217	ARG
3	CS	5	VAL
3	CS	8	VAL
3	CS	11	SER
3	CS	18	VAL
3	CS	23	THR
3	CS	31	VAL
3	CS	35	GLN
3	CS	36	VAL
3	CS	46	VAL
3	CS	50	THR
3	CS	56	ILE
3	CS	59	LYS
3	CS	64	VAL
3	CS	73	LEU
3	CS	76	MET
3	CS	77	ASP
3	CS	80	LEU
3	CS	84	GLU
3	CS	93	LEU
3	CS	116	THR
3	CS	122	VAL
3	CS	129	SER
3	CS	135	ARG
3	CS	139	MET
3	CS	151	ASN
3	CS	157	ASN
3	CS	161	SER
3	CS	175	THR
3	CS	176	VAL
3	CS	178	ASN
3	CS	179	VAL
3	CS	183	LEU
3	CS	188	LEU
3	CS	192	THR
3	CS	194	THR

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Mol	Chain	Res	Type
3	CS	196	ILE
3	CS	206	VAL
3	CS	208	VAL
3	CS	216	LEU
3	CS	217	ARG
3	CT	5	VAL
3	CT	8	VAL
3	CT	11	SER
3	CT	18	VAL
3	CT	23	THR
3	CT	31	VAL
3	CT	35	GLN
3	CT	36	VAL
3	CT	46	VAL
3	CT	50	THR
3	CT	56	ILE
3	CT	59	LYS
3	CT	64	VAL
3	CT	73	LEU
3	CT	76	MET
3	CT	77	ASP
3	CT	80	LEU
3	CT	84	GLU
3	CT	93	LEU
3	CT	116	THR
3	CT	122	VAL
3	CT	129	SER
3	CT	135	ARG
3	CT	139	MET
3	CT	151	ASN
3	CT	157	ASN
3	CT	161	SER
3	CT	175	THR
3	CT	176	VAL
3	CT	178	ASN
3	CT	179	VAL
3	CT	183	LEU
3	CT	188	LEU
3	CT	192	THR
3	CT	194	THR
3	CT	196	ILE
3	CT	206	VAL

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Mol	Chain	Res	Type
3	CT	208	VAL
3	CT	216	LEU
3	CT	217	ARG
3	CU	5	VAL
3	CU	8	VAL
3	CU	11	SER
3	CU	18	VAL
3	CU	23	THR
3	CU	31	VAL
3	CU	35	GLN
3	CU	36	VAL
3	CU	46	VAL
3	CU	50	THR
3	CU	56	ILE
3	CU	59	LYS
3	CU	64	VAL
3	CU	73	LEU
3	CU	76	MET
3	CU	77	ASP
3	CU	80	LEU
3	CU	84	GLU
3	CU	93	LEU
3	CU	116	THR
3	CU	122	VAL
3	CU	129	SER
3	CU	135	ARG
3	CU	139	MET
3	CU	151	ASN
3	CU	157	ASN
3	CU	161	SER
3	CU	175	THR
3	CU	176	VAL
3	CU	178	ASN
3	CU	179	VAL
3	CU	183	LEU
3	CU	188	LEU
3	CU	192	THR
3	CU	194	THR
3	CU	196	ILE
3	CU	206	VAL
3	CU	208	VAL
3	CU	216	LEU

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Mol	Chain	Res	Type
3	CU	217	ARG
3	CV	5	VAL
3	CV	8	VAL
3	CV	11	SER
3	CV	18	VAL
3	CV	23	THR
3	CV	31	VAL
3	CV	35	GLN
3	CV	36	VAL
3	CV	46	VAL
3	CV	50	THR
3	CV	56	ILE
3	CV	59	LYS
3	CV	64	VAL
3	CV	73	LEU
3	CV	76	MET
3	CV	77	ASP
3	CV	80	LEU
3	CV	84	GLU
3	CV	93	LEU
3	CV	116	THR
3	CV	122	VAL
3	CV	129	SER
3	CV	135	ARG
3	CV	139	MET
3	CV	151	ASN
3	CV	157	ASN
3	CV	161	SER
3	CV	175	THR
3	CV	176	VAL
3	CV	178	ASN
3	CV	179	VAL
3	CV	183	LEU
3	CV	188	LEU
3	CV	192	THR
3	CV	194	THR
3	CV	196	ILE
3	CV	206	VAL
3	CV	208	VAL
3	CV	216	LEU
3	CV	217	ARG
3	CW	5	VAL

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Mol	Chain	Res	Type
3	CW	8	VAL
3	CW	11	SER
3	CW	18	VAL
3	CW	23	THR
3	CW	31	VAL
3	CW	35	GLN
3	CW	36	VAL
3	CW	46	VAL
3	CW	50	THR
3	CW	56	ILE
3	CW	59	LYS
3	CW	64	VAL
3	CW	73	LEU
3	CW	76	MET
3	CW	77	ASP
3	CW	80	LEU
3	CW	84	GLU
3	CW	93	LEU
3	CW	116	THR
3	CW	122	VAL
3	CW	129	SER
3	CW	135	ARG
3	CW	139	MET
3	CW	151	ASN
3	CW	157	ASN
3	CW	161	SER
3	CW	175	THR
3	CW	176	VAL
3	CW	178	ASN
3	CW	179	VAL
3	CW	183	LEU
3	CW	188	LEU
3	CW	192	THR
3	CW	194	THR
3	CW	196	ILE
3	CW	206	VAL
3	CW	208	VAL
3	CW	216	LEU
3	CW	217	ARG
3	CX	5	VAL
3	CX	8	VAL
3	CX	11	SER

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Mol	Chain	Res	Type
3	CX	18	VAL
3	CX	23	THR
3	CX	31	VAL
3	CX	35	GLN
3	CX	36	VAL
3	CX	46	VAL
3	CX	50	THR
3	CX	56	ILE
3	CX	59	LYS
3	CX	64	VAL
3	CX	73	LEU
3	CX	76	MET
3	CX	77	ASP
3	CX	80	LEU
3	CX	84	GLU
3	CX	93	LEU
3	CX	116	THR
3	CX	122	VAL
3	CX	129	SER
3	CX	135	ARG
3	CX	139	MET
3	CX	151	ASN
3	CX	157	ASN
3	CX	161	SER
3	CX	175	THR
3	CX	176	VAL
3	CX	178	ASN
3	CX	179	VAL
3	CX	183	LEU
3	CX	188	LEU
3	CX	192	THR
3	CX	194	THR
3	CX	196	ILE
3	CX	206	VAL
3	CX	208	VAL
3	CX	216	LEU
3	CX	217	ARG
3	CY	5	VAL
3	CY	8	VAL
3	CY	11	SER
3	CY	18	VAL
3	CY	23	THR

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Mol	Chain	Res	Type
3	CY	31	VAL
3	CY	35	GLN
3	CY	36	VAL
3	CY	46	VAL
3	CY	50	THR
3	CY	56	ILE
3	CY	59	LYS
3	CY	64	VAL
3	CY	73	LEU
3	CY	76	MET
3	CY	77	ASP
3	CY	80	LEU
3	CY	84	GLU
3	CY	93	LEU
3	CY	116	THR
3	CY	122	VAL
3	CY	129	SER
3	CY	135	ARG
3	CY	139	MET
3	CY	151	ASN
3	CY	157	ASN
3	CY	161	SER
3	CY	175	THR
3	CY	176	VAL
3	CY	178	ASN
3	CY	179	VAL
3	CY	183	LEU
3	CY	188	LEU
3	CY	192	THR
3	CY	194	THR
3	CY	196	ILE
3	CY	206	VAL
3	CY	208	VAL
3	CY	216	LEU
3	CY	217	ARG
3	CZ	5	VAL
3	CZ	8	VAL
3	CZ	11	SER
3	CZ	18	VAL
3	CZ	23	THR
3	CZ	31	VAL
3	CZ	35	GLN

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Mol	Chain	Res	Type
3	CZ	36	VAL
3	CZ	46	VAL
3	CZ	50	THR
3	CZ	56	ILE
3	CZ	59	LYS
3	CZ	64	VAL
3	CZ	73	LEU
3	CZ	76	MET
3	CZ	77	ASP
3	CZ	80	LEU
3	CZ	84	GLU
3	CZ	93	LEU
3	CZ	116	THR
3	CZ	122	VAL
3	CZ	129	SER
3	CZ	135	ARG
3	CZ	139	MET
3	CZ	151	ASN
3	CZ	157	ASN
3	CZ	161	SER
3	CZ	175	THR
3	CZ	176	VAL
3	CZ	178	ASN
3	CZ	179	VAL
3	CZ	183	LEU
3	CZ	188	LEU
3	CZ	192	THR
3	CZ	194	THR
3	CZ	196	ILE
3	CZ	206	VAL
3	CZ	208	VAL
3	CZ	216	LEU
3	CZ	217	ARG
3	C0	5	VAL
3	C0	8	VAL
3	C0	11	SER
3	C0	18	VAL
3	C0	23	THR
3	C0	31	VAL
3	C0	35	GLN
3	C0	36	VAL
3	C0	46	VAL

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Mol	Chain	Res	Type
3	C0	50	THR
3	C0	56	ILE
3	C0	59	LYS
3	C0	64	VAL
3	C0	73	LEU
3	C0	76	MET
3	C0	77	ASP
3	C0	80	LEU
3	C0	84	GLU
3	C0	93	LEU
3	C0	116	THR
3	C0	122	VAL
3	C0	129	SER
3	C0	135	ARG
3	C0	139	MET
3	C0	151	ASN
3	C0	157	ASN
3	C0	161	SER
3	C0	175	THR
3	C0	176	VAL
3	C0	178	ASN
3	C0	179	VAL
3	C0	183	LEU
3	C0	188	LEU
3	C0	192	THR
3	C0	194	THR
3	C0	196	ILE
3	C0	206	VAL
3	C0	208	VAL
3	C0	216	LEU
3	C0	217	ARG
3	C1	5	VAL
3	C1	8	VAL
3	C1	11	SER
3	C1	18	VAL
3	C1	23	THR
3	C1	31	VAL
3	C1	35	GLN
3	C1	36	VAL
3	C1	46	VAL
3	C1	50	THR
3	C1	56	ILE

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Mol	Chain	Res	Type
3	C1	59	LYS
3	C1	64	VAL
3	C1	73	LEU
3	C1	76	MET
3	C1	77	ASP
3	C1	80	LEU
3	C1	84	GLU
3	C1	93	LEU
3	C1	116	THR
3	C1	122	VAL
3	C1	129	SER
3	C1	135	ARG
3	C1	139	MET
3	C1	151	ASN
3	C1	157	ASN
3	C1	161	SER
3	C1	175	THR
3	C1	176	VAL
3	C1	178	ASN
3	C1	179	VAL
3	C1	183	LEU
3	C1	188	LEU
3	C1	192	THR
3	C1	194	THR
3	C1	196	ILE
3	C1	206	VAL
3	C1	208	VAL
3	C1	216	LEU
3	C1	217	ARG
3	C2	5	VAL
3	C2	8	VAL
3	C2	11	SER
3	C2	18	VAL
3	C2	23	THR
3	C2	31	VAL
3	C2	35	GLN
3	C2	36	VAL
3	C2	46	VAL
3	C2	50	THR
3	C2	56	ILE
3	C2	59	LYS
3	C2	64	VAL

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Mol	Chain	Res	Type
3	C2	73	LEU
3	C2	76	MET
3	C2	77	ASP
3	C2	80	LEU
3	C2	84	GLU
3	C2	93	LEU
3	C2	116	THR
3	C2	122	VAL
3	C2	129	SER
3	C2	135	ARG
3	C2	139	MET
3	C2	151	ASN
3	C2	157	ASN
3	C2	161	SER
3	C2	175	THR
3	C2	176	VAL
3	C2	178	ASN
3	C2	179	VAL
3	C2	183	LEU
3	C2	188	LEU
3	C2	192	THR
3	C2	194	THR
3	C2	196	ILE
3	C2	206	VAL
3	C2	208	VAL
3	C2	216	LEU
3	C2	217	ARG
3	C3	5	VAL
3	C3	8	VAL
3	C3	11	SER
3	C3	18	VAL
3	C3	23	THR
3	C3	31	VAL
3	C3	35	GLN
3	C3	36	VAL
3	C3	46	VAL
3	C3	50	THR
3	C3	56	ILE
3	C3	59	LYS
3	C3	64	VAL
3	C3	73	LEU
3	C3	76	MET

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Mol	Chain	Res	Type
3	C3	77	ASP
3	C3	80	LEU
3	C3	84	GLU
3	C3	93	LEU
3	C3	116	THR
3	C3	122	VAL
3	C3	129	SER
3	C3	135	ARG
3	C3	139	MET
3	C3	151	ASN
3	C3	157	ASN
3	C3	161	SER
3	C3	175	THR
3	C3	176	VAL
3	C3	178	ASN
3	C3	179	VAL
3	C3	183	LEU
3	C3	188	LEU
3	C3	192	THR
3	C3	194	THR
3	C3	196	ILE
3	C3	206	VAL
3	C3	208	VAL
3	C3	216	LEU
3	C3	217	ARG
3	C4	5	VAL
3	C4	8	VAL
3	C4	11	SER
3	C4	18	VAL
3	C4	23	THR
3	C4	31	VAL
3	C4	35	GLN
3	C4	36	VAL
3	C4	46	VAL
3	C4	50	THR
3	C4	56	ILE
3	C4	59	LYS
3	C4	64	VAL
3	C4	73	LEU
3	C4	76	MET
3	C4	77	ASP
3	C4	80	LEU

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Mol	Chain	Res	Type
3	C4	84	GLU
3	C4	93	LEU
3	C4	116	THR
3	C4	122	VAL
3	C4	129	SER
3	C4	135	ARG
3	C4	139	MET
3	C4	151	ASN
3	C4	157	ASN
3	C4	161	SER
3	C4	175	THR
3	C4	176	VAL
3	C4	178	ASN
3	C4	179	VAL
3	C4	183	LEU
3	C4	188	LEU
3	C4	192	THR
3	C4	194	THR
3	C4	196	ILE
3	C4	206	VAL
3	C4	208	VAL
3	C4	216	LEU
3	C4	217	ARG
3	C5	5	VAL
3	C5	8	VAL
3	C5	11	SER
3	C5	18	VAL
3	C5	23	THR
3	C5	31	VAL
3	C5	35	GLN
3	C5	36	VAL
3	C5	46	VAL
3	C5	50	THR
3	C5	56	ILE
3	C5	59	LYS
3	C5	64	VAL
3	C5	73	LEU
3	C5	76	MET
3	C5	77	ASP
3	C5	80	LEU
3	C5	84	GLU
3	C5	93	LEU

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Mol	Chain	Res	Type
3	C5	116	THR
3	C5	122	VAL
3	C5	129	SER
3	C5	135	ARG
3	C5	139	MET
3	C5	151	ASN
3	C5	157	ASN
3	C5	161	SER
3	C5	175	THR
3	C5	176	VAL
3	C5	178	ASN
3	C5	179	VAL
3	C5	183	LEU
3	C5	188	LEU
3	C5	192	THR
3	C5	194	THR
3	C5	196	ILE
3	C5	206	VAL
3	C5	208	VAL
3	C5	216	LEU
3	C5	217	ARG
3	C6	5	VAL
3	C6	8	VAL
3	C6	11	SER
3	C6	18	VAL
3	C6	23	THR
3	C6	31	VAL
3	C6	35	GLN
3	C6	36	VAL
3	C6	46	VAL
3	C6	50	THR
3	C6	56	ILE
3	C6	59	LYS
3	C6	64	VAL
3	C6	73	LEU
3	C6	76	MET
3	C6	77	ASP
3	C6	80	LEU
3	C6	84	GLU
3	C6	93	LEU
3	C6	116	THR
3	C6	122	VAL

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Mol	Chain	Res	Type
3	C6	129	SER
3	C6	135	ARG
3	C6	139	MET
3	C6	151	ASN
3	C6	157	ASN
3	C6	161	SER
3	C6	175	THR
3	C6	176	VAL
3	C6	178	ASN
3	C6	179	VAL
3	C6	183	LEU
3	C6	188	LEU
3	C6	192	THR
3	C6	194	THR
3	C6	196	ILE
3	C6	206	VAL
3	C6	208	VAL
3	C6	216	LEU
3	C6	217	ARG
3	C7	5	VAL
3	C7	8	VAL
3	C7	11	SER
3	C7	18	VAL
3	C7	23	THR
3	C7	31	VAL
3	C7	35	GLN
3	C7	36	VAL
3	C7	46	VAL
3	C7	50	THR
3	C7	56	ILE
3	C7	59	LYS
3	C7	64	VAL
3	C7	73	LEU
3	C7	76	MET
3	C7	77	ASP
3	C7	80	LEU
3	C7	84	GLU
3	C7	93	LEU
3	C7	116	THR
3	C7	122	VAL
3	C7	129	SER
3	C7	135	ARG

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Mol	Chain	Res	Type
3	C7	139	MET
3	C7	151	ASN
3	C7	157	ASN
3	C7	161	SER
3	C7	175	THR
3	C7	176	VAL
3	C7	178	ASN
3	C7	179	VAL
3	C7	183	LEU
3	C7	188	LEU
3	C7	192	THR
3	C7	194	THR
3	C7	196	ILE
3	C7	206	VAL
3	C7	208	VAL
3	C7	216	LEU
3	C7	217	ARG
3	C8	5	VAL
3	C8	8	VAL
3	C8	11	SER
3	C8	18	VAL
3	C8	23	THR
3	C8	31	VAL
3	C8	35	GLN
3	C8	36	VAL
3	C8	46	VAL
3	C8	50	THR
3	C8	56	ILE
3	C8	59	LYS
3	C8	64	VAL
3	C8	73	LEU
3	C8	76	MET
3	C8	77	ASP
3	C8	80	LEU
3	C8	84	GLU
3	C8	93	LEU
3	C8	116	THR
3	C8	122	VAL
3	C8	129	SER
3	C8	135	ARG
3	C8	139	MET
3	C8	151	ASN

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Mol	Chain	Res	Type
3	C8	157	ASN
3	C8	161	SER
3	C8	175	THR
3	C8	176	VAL
3	C8	178	ASN
3	C8	179	VAL
3	C8	183	LEU
3	C8	188	LEU
3	C8	192	THR
3	C8	194	THR
3	C8	196	ILE
3	C8	206	VAL
3	C8	208	VAL
3	C8	216	LEU
3	C8	217	ARG
3	C9	5	VAL
3	C9	8	VAL
3	C9	11	SER
3	C9	18	VAL
3	C9	23	THR
3	C9	31	VAL
3	C9	35	GLN
3	C9	36	VAL
3	C9	46	VAL
3	C9	50	THR
3	C9	56	ILE
3	C9	59	LYS
3	C9	64	VAL
3	C9	73	LEU
3	C9	76	MET
3	C9	77	ASP
3	C9	80	LEU
3	C9	84	GLU
3	C9	93	LEU
3	C9	116	THR
3	C9	122	VAL
3	C9	129	SER
3	C9	135	ARG
3	C9	139	MET
3	C9	151	ASN
3	C9	157	ASN
3	C9	161	SER

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Mol	Chain	Res	Type
3	C9	175	THR
3	C9	176	VAL
3	C9	178	ASN
3	C9	179	VAL
3	C9	183	LEU
3	C9	188	LEU
3	C9	192	THR
3	C9	194	THR
3	C9	196	ILE
3	C9	206	VAL
3	C9	208	VAL
3	C9	216	LEU
3	C9	217	ARG
3	Cc	5	VAL
3	Cc	8	VAL
3	Cc	11	SER
3	Cc	18	VAL
3	Cc	23	THR
3	Cc	31	VAL
3	Cc	35	GLN
3	Cc	36	VAL
3	Cc	46	VAL
3	Cc	50	THR
3	Cc	56	ILE
3	Cc	59	LYS
3	Cc	64	VAL
3	Cc	73	LEU
3	Cc	76	MET
3	Cc	77	ASP
3	Cc	80	LEU
3	Cc	84	GLU
3	Cc	93	LEU
3	Cc	116	THR
3	Cc	122	VAL
3	Cc	129	SER
3	Cc	135	ARG
3	Cc	139	MET
3	Cc	151	ASN
3	Cc	157	ASN
3	Cc	161	SER
3	Cc	175	THR
3	Cc	176	VAL

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Mol	Chain	Res	Type
3	Cc	178	ASN
3	Cc	179	VAL
3	Cc	183	LEU
3	Cc	188	LEU
3	Cc	192	THR
3	Cc	194	THR
3	Cc	196	ILE
3	Cc	206	VAL
3	Cc	208	VAL
3	Cc	216	LEU
3	Cc	217	ARG
3	Cd	5	VAL
3	Cd	8	VAL
3	Cd	11	SER
3	Cd	18	VAL
3	Cd	23	THR
3	Cd	31	VAL
3	Cd	35	GLN
3	Cd	36	VAL
3	Cd	46	VAL
3	Cd	50	THR
3	Cd	56	ILE
3	Cd	59	LYS
3	Cd	64	VAL
3	Cd	73	LEU
3	Cd	76	MET
3	Cd	77	ASP
3	Cd	80	LEU
3	Cd	84	GLU
3	Cd	93	LEU
3	Cd	116	THR
3	Cd	122	VAL
3	Cd	129	SER
3	Cd	135	ARG
3	Cd	139	MET
3	Cd	151	ASN
3	Cd	157	ASN
3	Cd	161	SER
3	Cd	175	THR
3	Cd	176	VAL
3	Cd	178	ASN
3	Cd	179	VAL

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Mol	Chain	Res	Type
3	Cd	183	LEU
3	Cd	188	LEU
3	Cd	192	THR
3	Cd	194	THR
3	Cd	196	ILE
3	Cd	206	VAL
3	Cd	208	VAL
3	Cd	216	LEU
3	Cd	217	ARG
3	Ce	5	VAL
3	Ce	8	VAL
3	Ce	11	SER
3	Ce	18	VAL
3	Ce	23	THR
3	Ce	31	VAL
3	Ce	35	GLN
3	Ce	36	VAL
3	Ce	46	VAL
3	Ce	50	THR
3	Ce	56	ILE
3	Ce	59	LYS
3	Ce	64	VAL
3	Ce	73	LEU
3	Ce	76	MET
3	Ce	77	ASP
3	Ce	80	LEU
3	Ce	84	GLU
3	Ce	93	LEU
3	Ce	116	THR
3	Ce	122	VAL
3	Ce	129	SER
3	Ce	135	ARG
3	Ce	139	MET
3	Ce	151	ASN
3	Ce	157	ASN
3	Ce	161	SER
3	Ce	175	THR
3	Ce	176	VAL
3	Ce	178	ASN
3	Ce	179	VAL
3	Ce	183	LEU
3	Ce	188	LEU

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Mol	Chain	Res	Type
3	Ce	192	THR
3	Ce	194	THR
3	Ce	196	ILE
3	Ce	206	VAL
3	Ce	208	VAL
3	Ce	216	LEU
3	Ce	217	ARG
3	Cf	5	VAL
3	Cf	8	VAL
3	Cf	11	SER
3	Cf	18	VAL
3	Cf	23	THR
3	Cf	31	VAL
3	Cf	35	GLN
3	Cf	36	VAL
3	Cf	46	VAL
3	Cf	50	THR
3	Cf	56	ILE
3	Cf	59	LYS
3	Cf	64	VAL
3	Cf	73	LEU
3	Cf	76	MET
3	Cf	77	ASP
3	Cf	80	LEU
3	Cf	84	GLU
3	Cf	93	LEU
3	Cf	116	THR
3	Cf	122	VAL
3	Cf	129	SER
3	Cf	135	ARG
3	Cf	139	MET
3	Cf	151	ASN
3	Cf	157	ASN
3	Cf	161	SER
3	Cf	175	THR
3	Cf	176	VAL
3	Cf	178	ASN
3	Cf	179	VAL
3	Cf	183	LEU
3	Cf	188	LEU
3	Cf	192	THR
3	Cf	194	THR

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Mol	Chain	Res	Type
3	Cf	196	ILE
3	Cf	206	VAL
3	Cf	208	VAL
3	Cf	216	LEU
3	Cf	217	ARG
3	Cg	5	VAL
3	Cg	8	VAL
3	Cg	11	SER
3	Cg	18	VAL
3	Cg	23	THR
3	Cg	31	VAL
3	Cg	35	GLN
3	Cg	36	VAL
3	Cg	46	VAL
3	Cg	50	THR
3	Cg	56	ILE
3	Cg	59	LYS
3	Cg	64	VAL
3	Cg	73	LEU
3	Cg	76	MET
3	Cg	77	ASP
3	Cg	80	LEU
3	Cg	84	GLU
3	Cg	93	LEU
3	Cg	116	THR
3	Cg	122	VAL
3	Cg	129	SER
3	Cg	135	ARG
3	Cg	139	MET
3	Cg	151	ASN
3	Cg	157	ASN
3	Cg	161	SER
3	Cg	175	THR
3	Cg	176	VAL
3	Cg	178	ASN
3	Cg	179	VAL
3	Cg	183	LEU
3	Cg	188	LEU
3	Cg	192	THR
3	Cg	194	THR
3	Cg	196	ILE
3	Cg	206	VAL

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Mol	Chain	Res	Type
3	Cg	208	VAL
3	Cg	216	LEU
3	Cg	217	ARG
3	Ch	5	VAL
3	Ch	8	VAL
3	Ch	11	SER
3	Ch	18	VAL
3	Ch	23	THR
3	Ch	31	VAL
3	Ch	35	GLN
3	Ch	36	VAL
3	Ch	46	VAL
3	Ch	50	THR
3	Ch	56	ILE
3	Ch	59	LYS
3	Ch	64	VAL
3	Ch	73	LEU
3	Ch	76	MET
3	Ch	77	ASP
3	Ch	80	LEU
3	Ch	84	GLU
3	Ch	93	LEU
3	Ch	116	THR
3	Ch	122	VAL
3	Ch	129	SER
3	Ch	135	ARG
3	Ch	139	MET
3	Ch	151	ASN
3	Ch	157	ASN
3	Ch	161	SER
3	Ch	175	THR
3	Ch	176	VAL
3	Ch	178	ASN
3	Ch	179	VAL
3	Ch	183	LEU
3	Ch	188	LEU
3	Ch	192	THR
3	Ch	194	THR
3	Ch	196	ILE
3	Ch	206	VAL
3	Ch	208	VAL
3	Ch	216	LEU

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Mol	Chain	Res	Type
3	Ch	217	ARG
3	Ci	5	VAL
3	Ci	8	VAL
3	Ci	11	SER
3	Ci	18	VAL
3	Ci	23	THR
3	Ci	31	VAL
3	Ci	35	GLN
3	Ci	36	VAL
3	Ci	46	VAL
3	Ci	50	THR
3	Ci	56	ILE
3	Ci	59	LYS
3	Ci	64	VAL
3	Ci	73	LEU
3	Ci	76	MET
3	Ci	77	ASP
3	Ci	80	LEU
3	Ci	84	GLU
3	Ci	93	LEU
3	Ci	116	THR
3	Ci	122	VAL
3	Ci	129	SER
3	Ci	135	ARG
3	Ci	139	MET
3	Ci	151	ASN
3	Ci	157	ASN
3	Ci	161	SER
3	Ci	175	THR
3	Ci	176	VAL
3	Ci	178	ASN
3	Ci	179	VAL
3	Ci	183	LEU
3	Ci	188	LEU
3	Ci	192	THR
3	Ci	194	THR
3	Ci	196	ILE
3	Ci	206	VAL
3	Ci	208	VAL
3	Ci	216	LEU
3	Ci	217	ARG
3	Cj	5	VAL

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Mol	Chain	Res	Type
3	Cj	8	VAL
3	Cj	11	SER
3	Cj	18	VAL
3	Cj	23	THR
3	Cj	31	VAL
3	Cj	35	GLN
3	Cj	36	VAL
3	Cj	46	VAL
3	Cj	50	THR
3	Cj	56	ILE
3	Cj	59	LYS
3	Cj	64	VAL
3	Cj	73	LEU
3	Cj	76	MET
3	Cj	77	ASP
3	Cj	80	LEU
3	Cj	84	GLU
3	Cj	93	LEU
3	Cj	116	THR
3	Cj	122	VAL
3	Cj	129	SER
3	Cj	135	ARG
3	Cj	139	MET
3	Cj	151	ASN
3	Cj	157	ASN
3	Cj	161	SER
3	Cj	175	THR
3	Cj	176	VAL
3	Cj	178	ASN
3	Cj	179	VAL
3	Cj	183	LEU
3	Cj	188	LEU
3	Cj	192	THR
3	Cj	194	THR
3	Cj	196	ILE
3	Cj	206	VAL
3	Cj	208	VAL
3	Cj	216	LEU
3	Cj	217	ARG
3	Ck	5	VAL
3	Ck	8	VAL
3	Ck	11	SER

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Mol	Chain	Res	Type
3	Ck	18	VAL
3	Ck	23	THR
3	Ck	31	VAL
3	Ck	35	GLN
3	Ck	36	VAL
3	Ck	46	VAL
3	Ck	50	THR
3	Ck	56	ILE
3	Ck	59	LYS
3	Ck	64	VAL
3	Ck	73	LEU
3	Ck	76	MET
3	Ck	77	ASP
3	Ck	80	LEU
3	Ck	84	GLU
3	Ck	93	LEU
3	Ck	116	THR
3	Ck	122	VAL
3	Ck	129	SER
3	Ck	135	ARG
3	Ck	139	MET
3	Ck	151	ASN
3	Ck	157	ASN
3	Ck	161	SER
3	Ck	175	THR
3	Ck	176	VAL
3	Ck	178	ASN
3	Ck	179	VAL
3	Ck	183	LEU
3	Ck	188	LEU
3	Ck	192	THR
3	Ck	194	THR
3	Ck	196	ILE
3	Ck	206	VAL
3	Ck	208	VAL
3	Ck	216	LEU
3	Ck	217	ARG
3	Cl	5	VAL
3	Cl	8	VAL
3	Cl	11	SER
3	Cl	18	VAL
3	Cl	23	THR

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Mol	Chain	Res	Type
3	Cl	31	VAL
3	Cl	35	GLN
3	Cl	36	VAL
3	Cl	46	VAL
3	Cl	50	THR
3	Cl	56	ILE
3	Cl	59	LYS
3	Cl	64	VAL
3	Cl	73	LEU
3	Cl	76	MET
3	Cl	77	ASP
3	Cl	80	LEU
3	Cl	84	GLU
3	Cl	93	LEU
3	Cl	116	THR
3	Cl	122	VAL
3	Cl	129	SER
3	Cl	135	ARG
3	Cl	139	MET
3	Cl	151	ASN
3	Cl	157	ASN
3	Cl	161	SER
3	Cl	175	THR
3	Cl	176	VAL
3	Cl	178	ASN
3	Cl	179	VAL
3	Cl	183	LEU
3	Cl	188	LEU
3	Cl	192	THR
3	Cl	194	THR
3	Cl	196	ILE
3	Cl	206	VAL
3	Cl	208	VAL
3	Cl	216	LEU
3	Cl	217	ARG
3	Cm	5	VAL
3	Cm	8	VAL
3	Cm	11	SER
3	Cm	18	VAL
3	Cm	23	THR
3	Cm	31	VAL
3	Cm	35	GLN

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Mol	Chain	Res	Type
3	Cm	36	VAL
3	Cm	46	VAL
3	Cm	50	THR
3	Cm	56	ILE
3	Cm	59	LYS
3	Cm	64	VAL
3	Cm	73	LEU
3	Cm	76	MET
3	Cm	77	ASP
3	Cm	80	LEU
3	Cm	84	GLU
3	Cm	93	LEU
3	Cm	116	THR
3	Cm	122	VAL
3	Cm	129	SER
3	Cm	135	ARG
3	Cm	139	MET
3	Cm	151	ASN
3	Cm	157	ASN
3	Cm	161	SER
3	Cm	175	THR
3	Cm	176	VAL
3	Cm	178	ASN
3	Cm	179	VAL
3	Cm	183	LEU
3	Cm	188	LEU
3	Cm	192	THR
3	Cm	194	THR
3	Cm	196	ILE
3	Cm	206	VAL
3	Cm	208	VAL
3	Cm	216	LEU
3	Cm	217	ARG
3	Cn	5	VAL
3	Cn	8	VAL
3	Cn	11	SER
3	Cn	18	VAL
3	Cn	23	THR
3	Cn	31	VAL
3	Cn	35	GLN
3	Cn	36	VAL
3	Cn	46	VAL

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Mol	Chain	Res	Type
3	Cn	50	THR
3	Cn	56	ILE
3	Cn	59	LYS
3	Cn	64	VAL
3	Cn	73	LEU
3	Cn	76	MET
3	Cn	77	ASP
3	Cn	80	LEU
3	Cn	84	GLU
3	Cn	93	LEU
3	Cn	116	THR
3	Cn	122	VAL
3	Cn	129	SER
3	Cn	135	ARG
3	Cn	139	MET
3	Cn	151	ASN
3	Cn	157	ASN
3	Cn	161	SER
3	Cn	175	THR
3	Cn	176	VAL
3	Cn	178	ASN
3	Cn	179	VAL
3	Cn	183	LEU
3	Cn	188	LEU
3	Cn	192	THR
3	Cn	194	THR
3	Cn	196	ILE
3	Cn	206	VAL
3	Cn	208	VAL
3	Cn	216	LEU
3	Cn	217	ARG
3	Co	5	VAL
3	Co	8	VAL
3	Co	11	SER
3	Co	18	VAL
3	Co	23	THR
3	Co	31	VAL
3	Co	35	GLN
3	Co	36	VAL
3	Co	46	VAL
3	Co	50	THR
3	Co	56	ILE

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Mol	Chain	Res	Type
3	Co	59	LYS
3	Co	64	VAL
3	Co	73	LEU
3	Co	76	MET
3	Co	77	ASP
3	Co	80	LEU
3	Co	84	GLU
3	Co	93	LEU
3	Co	116	THR
3	Co	122	VAL
3	Co	129	SER
3	Co	135	ARG
3	Co	139	MET
3	Co	151	ASN
3	Co	157	ASN
3	Co	161	SER
3	Co	175	THR
3	Co	176	VAL
3	Co	178	ASN
3	Co	179	VAL
3	Co	183	LEU
3	Co	188	LEU
3	Co	192	THR
3	Co	194	THR
3	Co	196	ILE
3	Co	206	VAL
3	Co	208	VAL
3	Co	216	LEU
3	Co	217	ARG
3	Cp	5	VAL
3	Cp	8	VAL
3	Cp	11	SER
3	Cp	18	VAL
3	Cp	23	THR
3	Cp	31	VAL
3	Cp	35	GLN
3	Cp	36	VAL
3	Cp	46	VAL
3	Cp	50	THR
3	Cp	56	ILE
3	Cp	59	LYS
3	Cp	64	VAL

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Mol	Chain	Res	Type
3	Cp	73	LEU
3	Cp	76	MET
3	Cp	77	ASP
3	Cp	80	LEU
3	Cp	84	GLU
3	Cp	93	LEU
3	Cp	116	THR
3	Cp	122	VAL
3	Cp	129	SER
3	Cp	135	ARG
3	Cp	139	MET
3	Cp	151	ASN
3	Cp	157	ASN
3	Cp	161	SER
3	Cp	175	THR
3	Cp	176	VAL
3	Cp	178	ASN
3	Cp	179	VAL
3	Cp	183	LEU
3	Cp	188	LEU
3	Cp	192	THR
3	Cp	194	THR
3	Cp	196	ILE
3	Cp	206	VAL
3	Cp	208	VAL
3	Cp	216	LEU
3	Cp	217	ARG
3	Cq	5	VAL
3	Cq	8	VAL
3	Cq	11	SER
3	Cq	18	VAL
3	Cq	23	THR
3	Cq	31	VAL
3	Cq	35	GLN
3	Cq	36	VAL
3	Cq	46	VAL
3	Cq	50	THR
3	Cq	56	ILE
3	Cq	59	LYS
3	Cq	64	VAL
3	Cq	73	LEU
3	Cq	76	MET

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Mol	Chain	Res	Type
3	Cq	77	ASP
3	Cq	80	LEU
3	Cq	84	GLU
3	Cq	93	LEU
3	Cq	116	THR
3	Cq	122	VAL
3	Cq	129	SER
3	Cq	135	ARG
3	Cq	139	MET
3	Cq	151	ASN
3	Cq	157	ASN
3	Cq	161	SER
3	Cq	175	THR
3	Cq	176	VAL
3	Cq	178	ASN
3	Cq	179	VAL
3	Cq	183	LEU
3	Cq	188	LEU
3	Cq	192	THR
3	Cq	194	THR
3	Cq	196	ILE
3	Cq	206	VAL
3	Cq	208	VAL
3	Cq	216	LEU
3	Cq	217	ARG
3	Cr	5	VAL
3	Cr	8	VAL
3	Cr	11	SER
3	Cr	18	VAL
3	Cr	23	THR
3	Cr	31	VAL
3	Cr	35	GLN
3	Cr	36	VAL
3	Cr	46	VAL
3	Cr	50	THR
3	Cr	56	ILE
3	Cr	59	LYS
3	Cr	64	VAL
3	Cr	73	LEU
3	Cr	76	MET
3	Cr	77	ASP
3	Cr	80	LEU

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Mol	Chain	Res	Type
3	Cr	84	GLU
3	Cr	93	LEU
3	Cr	116	THR
3	Cr	122	VAL
3	Cr	129	SER
3	Cr	135	ARG
3	Cr	139	MET
3	Cr	151	ASN
3	Cr	157	ASN
3	Cr	161	SER
3	Cr	175	THR
3	Cr	176	VAL
3	Cr	178	ASN
3	Cr	179	VAL
3	Cr	183	LEU
3	Cr	188	LEU
3	Cr	192	THR
3	Cr	194	THR
3	Cr	196	ILE
3	Cr	206	VAL
3	Cr	208	VAL
3	Cr	216	LEU
3	Cr	217	ARG
3	Cs	5	VAL
3	Cs	8	VAL
3	Cs	11	SER
3	Cs	18	VAL
3	Cs	23	THR
3	Cs	31	VAL
3	Cs	35	GLN
3	Cs	36	VAL
3	Cs	46	VAL
3	Cs	50	THR
3	Cs	56	ILE
3	Cs	59	LYS
3	Cs	64	VAL
3	Cs	73	LEU
3	Cs	76	MET
3	Cs	77	ASP
3	Cs	80	LEU
3	Cs	84	GLU
3	Cs	93	LEU

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Mol	Chain	Res	Type
3	Cs	116	THR
3	Cs	122	VAL
3	Cs	129	SER
3	Cs	135	ARG
3	Cs	139	MET
3	Cs	151	ASN
3	Cs	157	ASN
3	Cs	161	SER
3	Cs	175	THR
3	Cs	176	VAL
3	Cs	178	ASN
3	Cs	179	VAL
3	Cs	183	LEU
3	Cs	188	LEU
3	Cs	192	THR
3	Cs	194	THR
3	Cs	196	ILE
3	Cs	206	VAL
3	Cs	208	VAL
3	Cs	216	LEU
3	Cs	217	ARG
3	Ct	5	VAL
3	Ct	8	VAL
3	Ct	11	SER
3	Ct	18	VAL
3	Ct	23	THR
3	Ct	31	VAL
3	Ct	35	GLN
3	Ct	36	VAL
3	Ct	46	VAL
3	Ct	50	THR
3	Ct	56	ILE
3	Ct	59	LYS
3	Ct	64	VAL
3	Ct	73	LEU
3	Ct	76	MET
3	Ct	77	ASP
3	Ct	80	LEU
3	Ct	84	GLU
3	Ct	93	LEU
3	Ct	116	THR
3	Ct	122	VAL

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Mol	Chain	Res	Type
3	Ct	129	SER
3	Ct	135	ARG
3	Ct	139	MET
3	Ct	151	ASN
3	Ct	157	ASN
3	Ct	161	SER
3	Ct	175	THR
3	Ct	176	VAL
3	Ct	178	ASN
3	Ct	179	VAL
3	Ct	183	LEU
3	Ct	188	LEU
3	Ct	192	THR
3	Ct	194	THR
3	Ct	196	ILE
3	Ct	206	VAL
3	Ct	208	VAL
3	Ct	216	LEU
3	Ct	217	ARG
3	Cu	5	VAL
3	Cu	8	VAL
3	Cu	11	SER
3	Cu	18	VAL
3	Cu	23	THR
3	Cu	31	VAL
3	Cu	35	GLN
3	Cu	36	VAL
3	Cu	46	VAL
3	Cu	50	THR
3	Cu	56	ILE
3	Cu	59	LYS
3	Cu	64	VAL
3	Cu	73	LEU
3	Cu	76	MET
3	Cu	77	ASP
3	Cu	80	LEU
3	Cu	84	GLU
3	Cu	93	LEU
3	Cu	116	THR
3	Cu	122	VAL
3	Cu	129	SER
3	Cu	135	ARG

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Mol	Chain	Res	Type
3	Cu	139	MET
3	Cu	151	ASN
3	Cu	157	ASN
3	Cu	161	SER
3	Cu	175	THR
3	Cu	176	VAL
3	Cu	178	ASN
3	Cu	179	VAL
3	Cu	183	LEU
3	Cu	188	LEU
3	Cu	192	THR
3	Cu	194	THR
3	Cu	196	ILE
3	Cu	206	VAL
3	Cu	208	VAL
3	Cu	216	LEU
3	Cu	217	ARG
3	Cv	5	VAL
3	Cv	8	VAL
3	Cv	11	SER
3	Cv	18	VAL
3	Cv	23	THR
3	Cv	31	VAL
3	Cv	35	GLN
3	Cv	36	VAL
3	Cv	46	VAL
3	Cv	50	THR
3	Cv	56	ILE
3	Cv	59	LYS
3	Cv	64	VAL
3	Cv	73	LEU
3	Cv	76	MET
3	Cv	77	ASP
3	Cv	80	LEU
3	Cv	84	GLU
3	Cv	93	LEU
3	Cv	116	THR
3	Cv	122	VAL
3	Cv	129	SER
3	Cv	135	ARG
3	Cv	139	MET
3	Cv	151	ASN

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Mol	Chain	Res	Type
3	Cv	157	ASN
3	Cv	161	SER
3	Cv	175	THR
3	Cv	176	VAL
3	Cv	178	ASN
3	Cv	179	VAL
3	Cv	183	LEU
3	Cv	188	LEU
3	Cv	192	THR
3	Cv	194	THR
3	Cv	196	ILE
3	Cv	206	VAL
3	Cv	208	VAL
3	Cv	216	LEU
3	Cv	217	ARG
3	Cw	5	VAL
3	Cw	8	VAL
3	Cw	11	SER
3	Cw	18	VAL
3	Cw	23	THR
3	Cw	31	VAL
3	Cw	35	GLN
3	Cw	36	VAL
3	Cw	46	VAL
3	Cw	50	THR
3	Cw	56	ILE
3	Cw	59	LYS
3	Cw	64	VAL
3	Cw	73	LEU
3	Cw	76	MET
3	Cw	77	ASP
3	Cw	80	LEU
3	Cw	84	GLU
3	Cw	93	LEU
3	Cw	116	THR
3	Cw	122	VAL
3	Cw	129	SER
3	Cw	135	ARG
3	Cw	139	MET
3	Cw	151	ASN
3	Cw	157	ASN
3	Cw	161	SER

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Mol	Chain	Res	Type
3	Cw	175	THR
3	Cw	176	VAL
3	Cw	178	ASN
3	Cw	179	VAL
3	Cw	183	LEU
3	Cw	188	LEU
3	Cw	192	THR
3	Cw	194	THR
3	Cw	196	ILE
3	Cw	206	VAL
3	Cw	208	VAL
3	Cw	216	LEU
3	Cw	217	ARG
3	Cx	5	VAL
3	Cx	8	VAL
3	Cx	11	SER
3	Cx	18	VAL
3	Cx	23	THR
3	Cx	31	VAL
3	Cx	35	GLN
3	Cx	36	VAL
3	Cx	46	VAL
3	Cx	50	THR
3	Cx	56	ILE
3	Cx	59	LYS
3	Cx	64	VAL
3	Cx	73	LEU
3	Cx	76	MET
3	Cx	77	ASP
3	Cx	80	LEU
3	Cx	84	GLU
3	Cx	93	LEU
3	Cx	116	THR
3	Cx	122	VAL
3	Cx	129	SER
3	Cx	135	ARG
3	Cx	139	MET
3	Cx	151	ASN
3	Cx	157	ASN
3	Cx	161	SER
3	Cx	175	THR
3	Cx	176	VAL

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Mol	Chain	Res	Type
3	Cx	178	ASN
3	Cx	179	VAL
3	Cx	183	LEU
3	Cx	188	LEU
3	Cx	192	THR
3	Cx	194	THR
3	Cx	196	ILE
3	Cx	206	VAL
3	Cx	208	VAL
3	Cx	216	LEU
3	Cx	217	ARG
3	DA	5	VAL
3	DA	8	VAL
3	DA	11	SER
3	DA	18	VAL
3	DA	23	THR
3	DA	31	VAL
3	DA	35	GLN
3	DA	36	VAL
3	DA	46	VAL
3	DA	50	THR
3	DA	56	ILE
3	DA	59	LYS
3	DA	64	VAL
3	DA	73	LEU
3	DA	76	MET
3	DA	77	ASP
3	DA	80	LEU
3	DA	84	GLU
3	DA	93	LEU
3	DA	116	THR
3	DA	122	VAL
3	DA	129	SER
3	DA	135	ARG
3	DA	139	MET
3	DA	151	ASN
3	DA	157	ASN
3	DA	161	SER
3	DA	175	THR
3	DA	176	VAL
3	DA	178	ASN
3	DA	179	VAL

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Mol	Chain	Res	Type
3	DA	183	LEU
3	DA	188	LEU
3	DA	192	THR
3	DA	194	THR
3	DA	196	ILE
3	DA	206	VAL
3	DA	208	VAL
3	DA	216	LEU
3	DA	217	ARG
3	DB	5	VAL
3	DB	8	VAL
3	DB	11	SER
3	DB	18	VAL
3	DB	23	THR
3	DB	31	VAL
3	DB	35	GLN
3	DB	36	VAL
3	DB	46	VAL
3	DB	50	THR
3	DB	56	ILE
3	DB	59	LYS
3	DB	64	VAL
3	DB	73	LEU
3	DB	76	MET
3	DB	77	ASP
3	DB	80	LEU
3	DB	84	GLU
3	DB	93	LEU
3	DB	116	THR
3	DB	122	VAL
3	DB	129	SER
3	DB	135	ARG
3	DB	139	MET
3	DB	151	ASN
3	DB	157	ASN
3	DB	161	SER
3	DB	175	THR
3	DB	176	VAL
3	DB	178	ASN
3	DB	179	VAL
3	DB	183	LEU
3	DB	188	LEU

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Mol	Chain	Res	Type
3	DB	192	THR
3	DB	194	THR
3	DB	196	ILE
3	DB	206	VAL
3	DB	208	VAL
3	DB	216	LEU
3	DB	217	ARG
1	DC	4	VAL
1	DC	28	THR
1	DC	39	ASP
1	DC	40	VAL
1	DC	42	THR
1	DC	49	THR
1	DC	62	SER
1	DC	71	LEU
1	DC	113	THR
1	DC	120	GLN
1	DC	150	ARG
1	DC	158	VAL
1	DC	163	MET
1	DC	166	VAL
1	DC	181	LYS
1	DC	187	LEU
1	DC	196	LEU
1	DC	198	THR
1	DC	203	ASP
1	DC	209	LEU
1	DC	223	PRO
1	DC	226	PRO
1	DC	237	HIS
1	DC	241	THR
1	DC	246	GLN
1	DD	4	VAL
1	DD	28	THR
1	DD	39	ASP
1	DD	40	VAL
1	DD	42	THR
1	DD	49	THR
1	DD	62	SER
1	DD	71	LEU
1	DD	113	THR
1	DD	120	GLN

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Mol	Chain	Res	Type
1	DD	150	ARG
1	DD	158	VAL
1	DD	163	MET
1	DD	166	VAL
1	DD	181	LYS
1	DD	187	LEU
1	DD	196	LEU
1	DD	198	THR
1	DD	203	ASP
1	DD	209	LEU
1	DD	223	PRO
1	DD	226	PRO
1	DD	237	HIS
1	DD	241	THR
1	DD	246	GLN
1	DE	4	VAL
1	DE	28	THR
1	DE	39	ASP
1	DE	40	VAL
1	DE	42	THR
1	DE	49	THR
1	DE	62	SER
1	DE	71	LEU
1	DE	113	THR
1	DE	120	GLN
1	DE	150	ARG
1	DE	158	VAL
1	DE	163	MET
1	DE	166	VAL
1	DE	181	LYS
1	DE	187	LEU
1	DE	196	LEU
1	DE	198	THR
1	DE	203	ASP
1	DE	209	LEU
1	DE	223	PRO
1	DE	226	PRO
1	DE	237	HIS
1	DE	241	THR
1	DE	246	GLN
1	DF	4	VAL
1	DF	28	THR

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Mol	Chain	Res	Type
1	DF	39	ASP
1	DF	40	VAL
1	DF	42	THR
1	DF	49	THR
1	DF	62	SER
1	DF	71	LEU
1	DF	113	THR
1	DF	120	GLN
1	DF	150	ARG
1	DF	158	VAL
1	DF	163	MET
1	DF	166	VAL
1	DF	181	LYS
1	DF	187	LEU
1	DF	196	LEU
1	DF	198	THR
1	DF	203	ASP
1	DF	209	LEU
1	DF	223	PRO
1	DF	226	PRO
1	DF	237	HIS
1	DF	241	THR
1	DF	246	GLN
1	DG	4	VAL
1	DG	28	THR
1	DG	39	ASP
1	DG	40	VAL
1	DG	42	THR
1	DG	49	THR
1	DG	62	SER
1	DG	71	LEU
1	DG	113	THR
1	DG	120	GLN
1	DG	150	ARG
1	DG	158	VAL
1	DG	163	MET
1	DG	166	VAL
1	DG	181	LYS
1	DG	187	LEU
1	DG	196	LEU
1	DG	198	THR
1	DG	203	ASP

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Mol	Chain	Res	Type
1	DG	209	LEU
1	DG	223	PRO
1	DG	226	PRO
1	DG	237	HIS
1	DG	241	THR
1	DG	246	GLN
1	DH	4	VAL
1	DH	28	THR
1	DH	39	ASP
1	DH	40	VAL
1	DH	42	THR
1	DH	49	THR
1	DH	62	SER
1	DH	71	LEU
1	DH	113	THR
1	DH	120	GLN
1	DH	150	ARG
1	DH	158	VAL
1	DH	163	MET
1	DH	166	VAL
1	DH	181	LYS
1	DH	187	LEU
1	DH	196	LEU
1	DH	198	THR
1	DH	203	ASP
1	DH	209	LEU
1	DH	223	PRO
1	DH	226	PRO
1	DH	237	HIS
1	DH	241	THR
1	DH	246	GLN
1	DI	4	VAL
1	DI	28	THR
1	DI	39	ASP
1	DI	40	VAL
1	DI	42	THR
1	DI	49	THR
1	DI	62	SER
1	DI	71	LEU
1	DI	113	THR
1	DI	120	GLN
1	DI	150	ARG

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Mol	Chain	Res	Type
1	DI	158	VAL
1	DI	163	MET
1	DI	166	VAL
1	DI	181	LYS
1	DI	187	LEU
1	DI	196	LEU
1	DI	198	THR
1	DI	203	ASP
1	DI	209	LEU
1	DI	223	PRO
1	DI	226	PRO
1	DI	237	HIS
1	DI	241	THR
1	DI	246	GLN
1	DJ	4	VAL
1	DJ	28	THR
1	DJ	39	ASP
1	DJ	40	VAL
1	DJ	42	THR
1	DJ	49	THR
1	DJ	62	SER
1	DJ	71	LEU
1	DJ	113	THR
1	DJ	120	GLN
1	DJ	150	ARG
1	DJ	158	VAL
1	DJ	163	MET
1	DJ	166	VAL
1	DJ	181	LYS
1	DJ	187	LEU
1	DJ	196	LEU
1	DJ	198	THR
1	DJ	203	ASP
1	DJ	209	LEU
1	DJ	223	PRO
1	DJ	226	PRO
1	DJ	237	HIS
1	DJ	241	THR
1	DJ	246	GLN
1	DK	4	VAL
1	DK	28	THR
1	DK	39	ASP

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Mol	Chain	Res	Type
1	DK	40	VAL
1	DK	42	THR
1	DK	49	THR
1	DK	62	SER
1	DK	71	LEU
1	DK	113	THR
1	DK	120	GLN
1	DK	150	ARG
1	DK	158	VAL
1	DK	163	MET
1	DK	166	VAL
1	DK	181	LYS
1	DK	187	LEU
1	DK	196	LEU
1	DK	198	THR
1	DK	203	ASP
1	DK	209	LEU
1	DK	223	PRO
1	DK	226	PRO
1	DK	237	HIS
1	DK	241	THR
1	DK	246	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1284) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	25	HIS
1	AA	47	ASN
1	AA	87	GLN
1	AA	132	GLN
1	AA	191	HIS
1	AA	217	ASN
1	AA	242	ASN
1	AA	246	GLN
1	AB	25	HIS
1	AB	47	ASN
1	AB	87	GLN
1	AB	132	GLN
1	AB	191	HIS
1	AB	217	ASN
1	AB	242	ASN
1	AB	246	GLN

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Mol	Chain	Res	Type
1	AC	25	HIS
1	AC	47	ASN
1	AC	87	GLN
1	AC	132	GLN
1	AC	191	HIS
1	AC	217	ASN
1	AC	242	ASN
1	AC	246	GLN
1	AD	25	HIS
1	AD	47	ASN
1	AD	87	GLN
1	AD	132	GLN
1	AD	191	HIS
1	AD	217	ASN
1	AD	242	ASN
1	AD	246	GLN
1	AE	25	HIS
1	AE	47	ASN
1	AE	87	GLN
1	AE	132	GLN
1	AE	191	HIS
1	AE	217	ASN
1	AE	242	ASN
1	AE	246	GLN
1	AF	25	HIS
1	AF	47	ASN
1	AF	87	GLN
1	AF	132	GLN
1	AF	191	HIS
1	AF	217	ASN
1	AF	242	ASN
1	AF	246	GLN
1	AG	25	HIS
1	AG	47	ASN
1	AG	87	GLN
1	AG	132	GLN
1	AG	191	HIS
1	AG	217	ASN
1	AG	242	ASN
1	AG	246	GLN
1	AH	25	HIS
1	AH	47	ASN

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Mol	Chain	Res	Type
1	AH	87	GLN
1	AH	132	GLN
1	AH	191	HIS
1	AH	217	ASN
1	AH	242	ASN
1	AH	246	GLN
1	AI	25	HIS
1	AI	47	ASN
1	AI	87	GLN
1	AI	132	GLN
1	AI	191	HIS
1	AI	217	ASN
1	AI	242	ASN
1	AI	246	GLN
1	AJ	25	HIS
1	AJ	47	ASN
1	AJ	87	GLN
1	AJ	132	GLN
1	AJ	191	HIS
1	AJ	217	ASN
1	AJ	242	ASN
1	AJ	246	GLN
1	AK	25	HIS
1	AK	47	ASN
1	AK	87	GLN
1	AK	132	GLN
1	AK	191	HIS
1	AK	217	ASN
1	AK	242	ASN
1	AK	246	GLN
1	AL	25	HIS
1	AL	47	ASN
1	AL	87	GLN
1	AL	132	GLN
1	AL	191	HIS
1	AL	217	ASN
1	AL	242	ASN
1	AL	246	GLN
1	AM	25	HIS
1	AM	47	ASN
1	AM	87	GLN
1	AM	132	GLN

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Mol	Chain	Res	Type
1	AM	191	HIS
1	AM	217	ASN
1	AM	242	ASN
1	AM	246	GLN
1	AN	25	HIS
1	AN	47	ASN
1	AN	87	GLN
1	AN	132	GLN
1	AN	152	GLN
1	AN	191	HIS
1	AN	217	ASN
1	AN	242	ASN
1	AN	246	GLN
1	AO	25	HIS
1	AO	47	ASN
1	AO	87	GLN
1	AO	132	GLN
1	AO	152	GLN
1	AO	191	HIS
1	AO	217	ASN
1	AO	242	ASN
1	AO	246	GLN
1	AP	25	HIS
1	AP	47	ASN
1	AP	87	GLN
1	AP	132	GLN
1	AP	191	HIS
1	AP	217	ASN
1	AP	242	ASN
1	AP	246	GLN
1	AQ	25	HIS
1	AQ	47	ASN
1	AQ	87	GLN
1	AQ	132	GLN
1	AQ	191	HIS
1	AQ	217	ASN
1	AQ	242	ASN
1	AQ	246	GLN
1	AR	25	HIS
1	AR	47	ASN
1	AR	87	GLN
1	AR	132	GLN

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Mol	Chain	Res	Type
1	AR	152	GLN
1	AR	191	HIS
1	AR	217	ASN
1	AR	242	ASN
1	AR	246	GLN
1	AS	25	HIS
1	AS	47	ASN
1	AS	87	GLN
1	AS	132	GLN
1	AS	191	HIS
1	AS	217	ASN
1	AS	242	ASN
1	AS	246	GLN
1	AT	25	HIS
1	AT	47	ASN
1	AT	87	GLN
1	AT	132	GLN
1	AT	191	HIS
1	AT	217	ASN
1	AT	242	ASN
1	AT	246	GLN
1	AU	25	HIS
1	AU	47	ASN
1	AU	87	GLN
1	AU	132	GLN
1	AU	191	HIS
1	AU	217	ASN
1	AU	242	ASN
1	AU	246	GLN
1	AV	25	HIS
1	AV	47	ASN
1	AV	87	GLN
1	AV	132	GLN
1	AV	191	HIS
1	AV	217	ASN
1	AV	242	ASN
1	AV	246	GLN
1	AW	25	HIS
1	AW	47	ASN
1	AW	87	GLN
1	AW	132	GLN
1	AW	191	HIS

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Mol	Chain	Res	Type
1	AW	217	ASN
1	AW	242	ASN
1	AW	246	GLN
1	AX	25	HIS
1	AX	47	ASN
1	AX	87	GLN
1	AX	132	GLN
1	AX	191	HIS
1	AX	217	ASN
1	AX	242	ASN
1	AX	246	GLN
1	AY	25	HIS
1	AY	47	ASN
1	AY	87	GLN
1	AY	132	GLN
1	AY	191	HIS
1	AY	217	ASN
1	AY	242	ASN
1	AY	246	GLN
1	AZ	25	HIS
1	AZ	47	ASN
1	AZ	87	GLN
1	AZ	132	GLN
1	AZ	191	HIS
1	AZ	217	ASN
1	AZ	242	ASN
1	AZ	246	GLN
1	A0	25	HIS
1	A0	47	ASN
1	A0	87	GLN
1	A0	132	GLN
1	A0	191	HIS
1	A0	217	ASN
1	A0	242	ASN
1	A0	246	GLN
1	A1	25	HIS
1	A1	47	ASN
1	A1	87	GLN
1	A1	132	GLN
1	A1	191	HIS
1	A1	217	ASN
1	A1	242	ASN

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Mol	Chain	Res	Type
1	A1	246	GLN
1	A2	25	HIS
1	A2	47	ASN
1	A2	87	GLN
1	A2	132	GLN
1	A2	191	HIS
1	A2	217	ASN
1	A2	242	ASN
1	A2	246	GLN
1	A3	25	HIS
1	A3	47	ASN
1	A3	87	GLN
1	A3	132	GLN
1	A3	191	HIS
1	A3	217	ASN
1	A3	242	ASN
1	A3	246	GLN
1	A4	25	HIS
1	A4	47	ASN
1	A4	87	GLN
1	A4	132	GLN
1	A4	191	HIS
1	A4	217	ASN
1	A4	242	ASN
1	A4	246	GLN
1	A5	25	HIS
1	A5	47	ASN
1	A5	87	GLN
1	A5	132	GLN
1	A5	191	HIS
1	A5	217	ASN
1	A5	242	ASN
1	A5	246	GLN
1	A6	25	HIS
1	A6	47	ASN
1	A6	87	GLN
1	A6	132	GLN
1	A6	191	HIS
1	A6	217	ASN
1	A6	242	ASN
1	A6	246	GLN
1	A7	25	HIS

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Mol	Chain	Res	Type
1	A7	47	ASN
1	A7	87	GLN
1	A7	132	GLN
1	A7	152	GLN
1	A7	191	HIS
1	A7	217	ASN
1	A7	242	ASN
1	A7	246	GLN
1	A8	25	HIS
1	A8	47	ASN
1	A8	87	GLN
1	A8	132	GLN
1	A8	191	HIS
1	A8	217	ASN
1	A8	242	ASN
1	A8	246	GLN
1	A9	25	HIS
1	A9	47	ASN
1	A9	87	GLN
1	A9	132	GLN
1	A9	191	HIS
1	A9	217	ASN
1	A9	242	ASN
1	A9	246	GLN
1	Aa	25	HIS
1	Aa	47	ASN
1	Aa	87	GLN
1	Aa	132	GLN
1	Aa	191	HIS
1	Aa	217	ASN
1	Aa	242	ASN
1	Aa	246	GLN
1	Ab	25	HIS
1	Ab	47	ASN
1	Ab	87	GLN
1	Ab	132	GLN
1	Ab	191	HIS
1	Ab	217	ASN
1	Ab	242	ASN
1	Ab	246	GLN
1	Ac	25	HIS
1	Ac	47	ASN

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Mol	Chain	Res	Type
1	Ac	87	GLN
1	Ac	132	GLN
1	Ac	191	HIS
1	Ac	217	ASN
1	Ac	242	ASN
1	Ac	246	GLN
1	Ad	25	HIS
1	Ad	47	ASN
1	Ad	87	GLN
1	Ad	132	GLN
1	Ad	191	HIS
1	Ad	217	ASN
1	Ad	242	ASN
1	Ad	246	GLN
1	Ae	25	HIS
1	Ae	47	ASN
1	Ae	87	GLN
1	Ae	132	GLN
1	Ae	191	HIS
1	Ae	217	ASN
1	Ae	242	ASN
1	Ae	246	GLN
1	Af	25	HIS
1	Af	47	ASN
1	Af	87	GLN
1	Af	132	GLN
1	Af	191	HIS
1	Af	217	ASN
1	Af	242	ASN
1	Af	246	GLN
1	Ag	25	HIS
1	Ag	47	ASN
1	Ag	87	GLN
1	Ag	132	GLN
1	Ag	191	HIS
1	Ag	217	ASN
1	Ag	242	ASN
1	Ag	246	GLN
1	Ah	25	HIS
1	Ah	47	ASN
1	Ah	87	GLN
1	Ah	132	GLN

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Mol	Chain	Res	Type
1	Ah	191	HIS
1	Ah	217	ASN
1	Ah	242	ASN
1	Ah	246	GLN
1	Ai	25	HIS
1	Ai	47	ASN
1	Ai	87	GLN
1	Ai	132	GLN
1	Ai	191	HIS
1	Ai	217	ASN
1	Ai	242	ASN
1	Ai	246	GLN
1	Aj	25	HIS
1	Aj	47	ASN
1	Aj	87	GLN
1	Aj	132	GLN
1	Aj	191	HIS
1	Aj	217	ASN
1	Aj	242	ASN
1	Aj	246	GLN
1	Ak	25	HIS
1	Ak	47	ASN
1	Ak	87	GLN
1	Ak	132	GLN
1	Ak	191	HIS
1	Ak	217	ASN
1	Ak	242	ASN
1	Ak	246	GLN
1	Al	25	HIS
1	Al	47	ASN
1	Al	87	GLN
1	Al	132	GLN
1	Al	191	HIS
1	Al	217	ASN
1	Al	242	ASN
1	Al	246	GLN
1	Am	25	HIS
1	Am	47	ASN
1	Am	87	GLN
1	Am	132	GLN
1	Am	191	HIS
1	Am	217	ASN

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Mol	Chain	Res	Type
1	Am	242	ASN
1	Am	246	GLN
1	An	25	HIS
1	An	47	ASN
1	An	87	GLN
1	An	132	GLN
1	An	191	HIS
1	An	217	ASN
1	An	242	ASN
1	An	246	GLN
1	Ao	25	HIS
1	Ao	47	ASN
1	Ao	87	GLN
1	Ao	132	GLN
1	Ao	191	HIS
1	Ao	217	ASN
1	Ao	242	ASN
1	Ao	246	GLN
2	BA	101	HIS
2	BA	134	HIS
2	BA	136	HIS
2	BA	168	ASN
2	BA	190	ASN
2	BA	207	GLN
2	BB	101	HIS
2	BB	134	HIS
2	BB	136	HIS
2	BB	168	ASN
2	BB	190	ASN
2	BB	207	GLN
2	BC	73	GLN
2	BC	101	HIS
2	BC	134	HIS
2	BC	136	HIS
2	BC	168	ASN
2	BC	190	ASN
2	BC	207	GLN
2	BD	101	HIS
2	BD	134	HIS
2	BD	136	HIS
2	BD	168	ASN
2	BD	190	ASN

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Mol	Chain	Res	Type
2	BD	207	GLN
2	BE	73	GLN
2	BE	77	HIS
2	BE	101	HIS
2	BE	134	HIS
2	BE	136	HIS
2	BE	168	ASN
2	BE	190	ASN
2	BE	207	GLN
2	BF	77	HIS
2	BF	101	HIS
2	BF	134	HIS
2	BF	136	HIS
2	BF	168	ASN
2	BF	190	ASN
2	BF	207	GLN
2	BG	77	HIS
2	BG	101	HIS
2	BG	134	HIS
2	BG	136	HIS
2	BG	168	ASN
2	BG	190	ASN
2	BG	207	GLN
2	BH	73	GLN
2	BH	77	HIS
2	BH	101	HIS
2	BH	134	HIS
2	BH	136	HIS
2	BH	168	ASN
2	BH	190	ASN
2	BH	207	GLN
2	BI	101	HIS
2	BI	134	HIS
2	BI	136	HIS
2	BI	168	ASN
2	BI	190	ASN
2	BI	207	GLN
2	BJ	101	HIS
2	BJ	134	HIS
2	BJ	136	HIS
2	BJ	168	ASN
2	BJ	190	ASN

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Mol	Chain	Res	Type
2	BJ	207	GLN
2	BK	101	HIS
2	BK	134	HIS
2	BK	136	HIS
2	BK	168	ASN
2	BK	190	ASN
2	BK	207	GLN
2	BL	101	HIS
2	BL	134	HIS
2	BL	136	HIS
2	BL	168	ASN
2	BL	190	ASN
2	BL	207	GLN
2	BM	73	GLN
2	BM	77	HIS
2	BM	101	HIS
2	BM	134	HIS
2	BM	136	HIS
2	BM	168	ASN
2	BM	190	ASN
2	BM	207	GLN
2	BN	77	HIS
2	BN	101	HIS
2	BN	134	HIS
2	BN	136	HIS
2	BN	168	ASN
2	BN	190	ASN
2	BN	207	GLN
2	BR	101	HIS
2	BR	134	HIS
2	BR	136	HIS
2	BR	168	ASN
2	BR	190	ASN
2	BR	207	GLN
2	BO	77	HIS
2	BO	101	HIS
2	BO	134	HIS
2	BO	136	HIS
2	BO	168	ASN
2	BO	190	ASN
2	BO	207	GLN
2	BS	101	HIS

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Mol	Chain	Res	Type
2	BS	134	HIS
2	BS	136	HIS
2	BS	168	ASN
2	BS	190	ASN
2	BS	207	GLN
2	BP	101	HIS
2	BP	134	HIS
2	BP	136	HIS
2	BP	168	ASN
2	BP	190	ASN
2	BP	207	GLN
2	BQ	101	HIS
2	BQ	134	HIS
2	BQ	136	HIS
2	BQ	168	ASN
2	BQ	190	ASN
2	BQ	207	GLN
2	BT	101	HIS
2	BT	134	HIS
2	BT	136	HIS
2	BT	168	ASN
2	BT	190	ASN
2	BT	207	GLN
2	BU	101	HIS
2	BU	134	HIS
2	BU	136	HIS
2	BU	168	ASN
2	BU	190	ASN
2	BU	207	GLN
2	BV	77	HIS
2	BV	101	HIS
2	BV	134	HIS
2	BV	136	HIS
2	BV	168	ASN
2	BV	190	ASN
2	BV	207	GLN
2	BW	101	HIS
2	BW	134	HIS
2	BW	136	HIS
2	BW	168	ASN
2	BW	190	ASN
2	BW	207	GLN

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Mol	Chain	Res	Type
2	BX	101	HIS
2	BX	134	HIS
2	BX	136	HIS
2	BX	168	ASN
2	BX	190	ASN
2	BX	207	GLN
2	BY	101	HIS
2	BY	134	HIS
2	BY	136	HIS
2	BY	168	ASN
2	BY	190	ASN
2	BY	207	GLN
2	BZ	101	HIS
2	BZ	134	HIS
2	BZ	136	HIS
2	BZ	168	ASN
2	BZ	190	ASN
2	BZ	207	GLN
2	B0	101	HIS
2	B0	134	HIS
2	B0	136	HIS
2	B0	168	ASN
2	B0	190	ASN
2	B0	207	GLN
2	B1	77	HIS
2	B1	101	HIS
2	B1	134	HIS
2	B1	136	HIS
2	B1	168	ASN
2	B1	190	ASN
2	B1	207	GLN
2	B2	101	HIS
2	B2	134	HIS
2	B2	136	HIS
2	B2	168	ASN
2	B2	190	ASN
2	B2	207	GLN
2	B3	101	HIS
2	B3	134	HIS
2	B3	136	HIS
2	B3	168	ASN
2	B3	190	ASN

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Mol	Chain	Res	Type
2	B3	207	GLN
2	B4	101	HIS
2	B4	134	HIS
2	B4	136	HIS
2	B4	168	ASN
2	B4	190	ASN
2	B4	207	GLN
2	B5	101	HIS
2	B5	134	HIS
2	B5	136	HIS
2	B5	168	ASN
2	B5	190	ASN
2	B5	207	GLN
2	B6	77	HIS
2	B6	101	HIS
2	B6	134	HIS
2	B6	136	HIS
2	B6	168	ASN
2	B6	190	ASN
2	B6	207	GLN
2	B7	77	HIS
2	B7	101	HIS
2	B7	134	HIS
2	B7	136	HIS
2	B7	168	ASN
2	B7	190	ASN
2	B7	207	GLN
2	B8	101	HIS
2	B8	134	HIS
2	B8	136	HIS
2	B8	168	ASN
2	B8	190	ASN
2	B8	207	GLN
2	B9	77	HIS
2	B9	101	HIS
2	B9	134	HIS
2	B9	136	HIS
2	B9	168	ASN
2	B9	190	ASN
2	B9	207	GLN
2	Ba	101	HIS
2	Ba	134	HIS

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Mol	Chain	Res	Type
2	Ba	136	HIS
2	Ba	168	ASN
2	Ba	190	ASN
2	Ba	207	GLN
2	Bb	101	HIS
2	Bb	134	HIS
2	Bb	136	HIS
2	Bb	168	ASN
2	Bb	190	ASN
2	Bb	207	GLN
2	Bc	101	HIS
2	Bc	134	HIS
2	Bc	136	HIS
2	Bc	168	ASN
2	Bc	190	ASN
2	Bc	207	GLN
2	Bd	101	HIS
2	Bd	134	HIS
2	Bd	136	HIS
2	Bd	168	ASN
2	Bd	190	ASN
2	Bd	207	GLN
2	Be	101	HIS
2	Be	134	HIS
2	Be	136	HIS
2	Be	168	ASN
2	Be	190	ASN
2	Be	207	GLN
2	Bf	101	HIS
2	Bf	134	HIS
2	Bf	136	HIS
2	Bf	168	ASN
2	Bf	190	ASN
2	Bf	207	GLN
2	Bg	101	HIS
2	Bg	134	HIS
2	Bg	136	HIS
2	Bg	168	ASN
2	Bg	190	ASN
2	Bg	207	GLN
2	Bh	101	HIS
2	Bh	134	HIS

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Mol	Chain	Res	Type
2	Bh	136	HIS
2	Bh	168	ASN
2	Bh	190	ASN
2	Bh	207	GLN
2	Bi	101	HIS
2	Bi	134	HIS
2	Bi	136	HIS
2	Bi	168	ASN
2	Bi	190	ASN
2	Bi	207	GLN
2	Bj	101	HIS
2	Bj	134	HIS
2	Bj	136	HIS
2	Bj	168	ASN
2	Bj	190	ASN
2	Bj	207	GLN
2	Bk	101	HIS
2	Bk	134	HIS
2	Bk	136	HIS
2	Bk	168	ASN
2	Bk	190	ASN
2	Bk	207	GLN
2	Bl	101	HIS
2	Bl	134	HIS
2	Bl	136	HIS
2	Bl	168	ASN
2	Bl	190	ASN
2	Bl	207	GLN
2	Bm	101	HIS
2	Bm	134	HIS
2	Bm	136	HIS
2	Bm	168	ASN
2	Bm	190	ASN
2	Bm	207	GLN
2	Bn	101	HIS
2	Bn	134	HIS
2	Bn	136	HIS
2	Bn	168	ASN
2	Bn	190	ASN
2	Bn	207	GLN
2	Bo	101	HIS
2	Bo	134	HIS

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Mol	Chain	Res	Type
2	Bo	136	HIS
2	Bo	168	ASN
2	Bo	190	ASN
2	Bo	207	GLN
2	Bp	101	HIS
2	Bp	134	HIS
2	Bp	136	HIS
2	Bp	168	ASN
2	Bp	190	ASN
2	Bp	207	GLN
2	Bq	101	HIS
2	Bq	134	HIS
2	Bq	136	HIS
2	Bq	168	ASN
2	Bq	190	ASN
2	Bq	207	GLN
2	Br	73	GLN
2	Br	77	HIS
2	Br	101	HIS
2	Br	134	HIS
2	Br	136	HIS
2	Br	168	ASN
2	Br	190	ASN
2	Br	207	GLN
2	Bs	73	GLN
2	Bs	77	HIS
2	Bs	101	HIS
2	Bs	134	HIS
2	Bs	136	HIS
2	Bs	168	ASN
2	Bs	190	ASN
2	Bs	207	GLN
2	Bt	101	HIS
2	Bt	134	HIS
2	Bt	136	HIS
2	Bt	168	ASN
2	Bt	190	ASN
2	Bt	207	GLN
2	Bu	101	HIS
2	Bu	134	HIS
2	Bu	136	HIS
2	Bu	168	ASN

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Mol	Chain	Res	Type
2	Bu	190	ASN
2	Bu	207	GLN
2	Bv	101	HIS
2	Bv	134	HIS
2	Bv	136	HIS
2	Bv	168	ASN
2	Bv	190	ASN
2	Bv	207	GLN
2	Bw	101	HIS
2	Bw	134	HIS
2	Bw	136	HIS
2	Bw	168	ASN
2	Bw	190	ASN
2	Bw	207	GLN
2	Bx	101	HIS
2	Bx	134	HIS
2	Bx	136	HIS
2	Bx	168	ASN
2	Bx	190	ASN
2	Bx	207	GLN
3	CA	35	GLN
3	CA	42	ASN
3	CA	75	GLN
3	CA	157	ASN
3	CA	178	ASN
3	CA	184	GLN
3	CA	226	GLN
3	CB	35	GLN
3	CB	42	ASN
3	CB	75	GLN
3	CB	157	ASN
3	CB	178	ASN
3	CB	184	GLN
3	CB	226	GLN
3	CC	35	GLN
3	CC	42	ASN
3	CC	75	GLN
3	CC	157	ASN
3	CC	178	ASN
3	CC	184	GLN
3	CC	226	GLN
3	CD	35	GLN

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Mol	Chain	Res	Type
3	CD	42	ASN
3	CD	75	GLN
3	CD	157	ASN
3	CD	178	ASN
3	CD	184	GLN
3	CD	226	GLN
3	CE	35	GLN
3	CE	42	ASN
3	CE	75	GLN
3	CE	157	ASN
3	CE	178	ASN
3	CE	184	GLN
3	CE	226	GLN
3	CF	35	GLN
3	CF	42	ASN
3	CF	75	GLN
3	CF	157	ASN
3	CF	178	ASN
3	CF	184	GLN
3	CF	226	GLN
3	CG	35	GLN
3	CG	42	ASN
3	CG	75	GLN
3	CG	157	ASN
3	CG	178	ASN
3	CG	184	GLN
3	CG	226	GLN
3	CH	35	GLN
3	CH	42	ASN
3	CH	75	GLN
3	CH	157	ASN
3	CH	178	ASN
3	CH	184	GLN
3	CH	226	GLN
3	CI	35	GLN
3	CI	42	ASN
3	CI	75	GLN
3	CI	157	ASN
3	CI	178	ASN
3	CI	184	GLN
3	CI	226	GLN
3	CJ	35	GLN

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Mol	Chain	Res	Type
3	CJ	42	ASN
3	CJ	75	GLN
3	CJ	157	ASN
3	CJ	178	ASN
3	CJ	184	GLN
3	CJ	226	GLN
3	CK	35	GLN
3	CK	42	ASN
3	CK	75	GLN
3	CK	157	ASN
3	CK	178	ASN
3	CK	184	GLN
3	CK	226	GLN
3	CL	35	GLN
3	CL	42	ASN
3	CL	75	GLN
3	CL	157	ASN
3	CL	178	ASN
3	CL	184	GLN
3	CL	226	GLN
3	CM	35	GLN
3	CM	42	ASN
3	CM	75	GLN
3	CM	157	ASN
3	CM	178	ASN
3	CM	184	GLN
3	CM	226	GLN
3	CN	35	GLN
3	CN	42	ASN
3	CN	75	GLN
3	CN	157	ASN
3	CN	178	ASN
3	CN	184	GLN
3	CN	226	GLN
3	CO	35	GLN
3	CO	42	ASN
3	CO	75	GLN
3	CO	157	ASN
3	CO	178	ASN
3	CO	184	GLN
3	CO	226	GLN
3	CP	35	GLN

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Mol	Chain	Res	Type
3	CP	42	ASN
3	CP	75	GLN
3	CP	157	ASN
3	CP	178	ASN
3	CP	184	GLN
3	CP	226	GLN
3	CQ	35	GLN
3	CQ	42	ASN
3	CQ	75	GLN
3	CQ	157	ASN
3	CQ	178	ASN
3	CQ	184	GLN
3	CQ	226	GLN
3	CR	35	GLN
3	CR	42	ASN
3	CR	75	GLN
3	CR	157	ASN
3	CR	178	ASN
3	CR	184	GLN
3	CR	226	GLN
3	CS	35	GLN
3	CS	42	ASN
3	CS	75	GLN
3	CS	157	ASN
3	CS	178	ASN
3	CS	184	GLN
3	CS	226	GLN
3	CT	35	GLN
3	CT	42	ASN
3	CT	75	GLN
3	CT	157	ASN
3	CT	178	ASN
3	CT	184	GLN
3	CT	226	GLN
3	CU	35	GLN
3	CU	42	ASN
3	CU	75	GLN
3	CU	157	ASN
3	CU	178	ASN
3	CU	184	GLN
3	CU	226	GLN
3	CV	35	GLN

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Mol	Chain	Res	Type
3	CV	42	ASN
3	CV	75	GLN
3	CV	157	ASN
3	CV	178	ASN
3	CV	184	GLN
3	CV	226	GLN
3	CW	35	GLN
3	CW	42	ASN
3	CW	75	GLN
3	CW	157	ASN
3	CW	178	ASN
3	CW	184	GLN
3	CW	226	GLN
3	CX	35	GLN
3	CX	42	ASN
3	CX	75	GLN
3	CX	157	ASN
3	CX	178	ASN
3	CX	184	GLN
3	CX	226	GLN
3	CY	35	GLN
3	CY	42	ASN
3	CY	75	GLN
3	CY	157	ASN
3	CY	178	ASN
3	CY	184	GLN
3	CY	226	GLN
3	CZ	35	GLN
3	CZ	42	ASN
3	CZ	75	GLN
3	CZ	157	ASN
3	CZ	178	ASN
3	CZ	184	GLN
3	CZ	226	GLN
3	C0	35	GLN
3	C0	42	ASN
3	C0	75	GLN
3	C0	157	ASN
3	C0	178	ASN
3	C0	184	GLN
3	C0	226	GLN
3	C1	35	GLN

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Mol	Chain	Res	Type
3	C1	42	ASN
3	C1	75	GLN
3	C1	157	ASN
3	C1	178	ASN
3	C1	184	GLN
3	C1	226	GLN
3	C2	35	GLN
3	C2	42	ASN
3	C2	75	GLN
3	C2	157	ASN
3	C2	178	ASN
3	C2	184	GLN
3	C2	226	GLN
3	C3	35	GLN
3	C3	42	ASN
3	C3	75	GLN
3	C3	157	ASN
3	C3	178	ASN
3	C3	184	GLN
3	C3	226	GLN
3	C4	35	GLN
3	C4	42	ASN
3	C4	75	GLN
3	C4	157	ASN
3	C4	178	ASN
3	C4	184	GLN
3	C4	226	GLN
3	C5	35	GLN
3	C5	42	ASN
3	C5	75	GLN
3	C5	157	ASN
3	C5	178	ASN
3	C5	184	GLN
3	C5	226	GLN
3	C6	35	GLN
3	C6	42	ASN
3	C6	75	GLN
3	C6	157	ASN
3	C6	178	ASN
3	C6	184	GLN
3	C6	226	GLN
3	C7	35	GLN

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Mol	Chain	Res	Type
3	C7	42	ASN
3	C7	75	GLN
3	C7	157	ASN
3	C7	178	ASN
3	C7	184	GLN
3	C7	226	GLN
3	C8	35	GLN
3	C8	42	ASN
3	C8	75	GLN
3	C8	157	ASN
3	C8	178	ASN
3	C8	184	GLN
3	C8	226	GLN
3	C9	35	GLN
3	C9	42	ASN
3	C9	75	GLN
3	C9	157	ASN
3	C9	178	ASN
3	C9	184	GLN
3	C9	226	GLN
3	Cc	35	GLN
3	Cc	42	ASN
3	Cc	75	GLN
3	Cc	157	ASN
3	Cc	178	ASN
3	Cc	184	GLN
3	Cc	226	GLN
3	Cd	35	GLN
3	Cd	42	ASN
3	Cd	75	GLN
3	Cd	157	ASN
3	Cd	178	ASN
3	Cd	184	GLN
3	Cd	226	GLN
3	Ce	35	GLN
3	Ce	42	ASN
3	Ce	75	GLN
3	Ce	157	ASN
3	Ce	178	ASN
3	Ce	184	GLN
3	Ce	226	GLN
3	Cf	35	GLN

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Mol	Chain	Res	Type
3	Cf	42	ASN
3	Cf	75	GLN
3	Cf	157	ASN
3	Cf	178	ASN
3	Cf	184	GLN
3	Cf	226	GLN
3	Cg	35	GLN
3	Cg	42	ASN
3	Cg	75	GLN
3	Cg	157	ASN
3	Cg	178	ASN
3	Cg	184	GLN
3	Cg	226	GLN
3	Ch	35	GLN
3	Ch	42	ASN
3	Ch	75	GLN
3	Ch	157	ASN
3	Ch	178	ASN
3	Ch	184	GLN
3	Ch	226	GLN
3	Ci	35	GLN
3	Ci	42	ASN
3	Ci	75	GLN
3	Ci	157	ASN
3	Ci	178	ASN
3	Ci	184	GLN
3	Ci	226	GLN
3	Cj	35	GLN
3	Cj	42	ASN
3	Cj	75	GLN
3	Cj	157	ASN
3	Cj	178	ASN
3	Cj	184	GLN
3	Cj	226	GLN
3	Ck	35	GLN
3	Ck	42	ASN
3	Ck	75	GLN
3	Ck	157	ASN
3	Ck	178	ASN
3	Ck	184	GLN
3	Ck	226	GLN
3	Cl	35	GLN

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Mol	Chain	Res	Type
3	Cl	42	ASN
3	Cl	75	GLN
3	Cl	157	ASN
3	Cl	178	ASN
3	Cl	184	GLN
3	Cl	226	GLN
3	Cm	35	GLN
3	Cm	42	ASN
3	Cm	75	GLN
3	Cm	157	ASN
3	Cm	178	ASN
3	Cm	184	GLN
3	Cm	226	GLN
3	Cn	35	GLN
3	Cn	42	ASN
3	Cn	75	GLN
3	Cn	157	ASN
3	Cn	178	ASN
3	Cn	184	GLN
3	Cn	226	GLN
3	Co	35	GLN
3	Co	42	ASN
3	Co	75	GLN
3	Co	157	ASN
3	Co	178	ASN
3	Co	184	GLN
3	Co	226	GLN
3	Cp	35	GLN
3	Cp	42	ASN
3	Cp	75	GLN
3	Cp	157	ASN
3	Cp	178	ASN
3	Cp	184	GLN
3	Cp	226	GLN
3	Cq	35	GLN
3	Cq	42	ASN
3	Cq	75	GLN
3	Cq	157	ASN
3	Cq	178	ASN
3	Cq	184	GLN
3	Cq	226	GLN
3	Cr	35	GLN

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Mol	Chain	Res	Type
3	Cr	42	ASN
3	Cr	75	GLN
3	Cr	157	ASN
3	Cr	178	ASN
3	Cr	184	GLN
3	Cr	226	GLN
3	Cs	35	GLN
3	Cs	42	ASN
3	Cs	75	GLN
3	Cs	157	ASN
3	Cs	178	ASN
3	Cs	184	GLN
3	Cs	226	GLN
3	Ct	35	GLN
3	Ct	42	ASN
3	Ct	75	GLN
3	Ct	157	ASN
3	Ct	178	ASN
3	Ct	184	GLN
3	Ct	226	GLN
3	Cu	35	GLN
3	Cu	42	ASN
3	Cu	75	GLN
3	Cu	157	ASN
3	Cu	178	ASN
3	Cu	184	GLN
3	Cu	226	GLN
3	Cv	35	GLN
3	Cv	42	ASN
3	Cv	75	GLN
3	Cv	157	ASN
3	Cv	178	ASN
3	Cv	184	GLN
3	Cv	226	GLN
3	Cw	35	GLN
3	Cw	42	ASN
3	Cw	75	GLN
3	Cw	157	ASN
3	Cw	178	ASN
3	Cw	184	GLN
3	Cw	226	GLN
3	Cx	35	GLN

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Mol	Chain	Res	Type
3	Cx	42	ASN
3	Cx	75	GLN
3	Cx	157	ASN
3	Cx	178	ASN
3	Cx	184	GLN
3	Cx	226	GLN
3	DA	35	GLN
3	DA	42	ASN
3	DA	75	GLN
3	DA	157	ASN
3	DA	178	ASN
3	DA	184	GLN
3	DA	226	GLN
3	DB	35	GLN
3	DB	42	ASN
3	DB	75	GLN
3	DB	157	ASN
3	DB	178	ASN
3	DB	184	GLN
3	DB	226	GLN
1	DC	25	HIS
1	DC	47	ASN
1	DC	87	GLN
1	DC	132	GLN
1	DC	191	HIS
1	DC	217	ASN
1	DC	242	ASN
1	DC	246	GLN
1	DD	25	HIS
1	DD	47	ASN
1	DD	87	GLN
1	DD	132	GLN
1	DD	191	HIS
1	DD	217	ASN
1	DD	242	ASN
1	DD	246	GLN
1	DE	25	HIS
1	DE	47	ASN
1	DE	87	GLN
1	DE	132	GLN
1	DE	191	HIS
1	DE	217	ASN

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Mol	Chain	Res	Type
1	DE	242	ASN
1	DE	246	GLN
1	DF	25	HIS
1	DF	47	ASN
1	DF	87	GLN
1	DF	132	GLN
1	DF	191	HIS
1	DF	217	ASN
1	DF	242	ASN
1	DF	246	GLN
1	DG	25	HIS
1	DG	47	ASN
1	DG	87	GLN
1	DG	132	GLN
1	DG	191	HIS
1	DG	217	ASN
1	DG	242	ASN
1	DG	246	GLN
1	DH	25	HIS
1	DH	47	ASN
1	DH	87	GLN
1	DH	132	GLN
1	DH	191	HIS
1	DH	217	ASN
1	DH	242	ASN
1	DH	246	GLN
1	DI	25	HIS
1	DI	47	ASN
1	DI	87	GLN
1	DI	132	GLN
1	DI	191	HIS
1	DI	217	ASN
1	DI	242	ASN
1	DI	246	GLN
1	DJ	25	HIS
1	DJ	47	ASN
1	DJ	87	GLN
1	DJ	132	GLN
1	DJ	191	HIS
1	DJ	217	ASN
1	DJ	242	ASN
1	DJ	246	GLN

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Mol	Chain	Res	Type
1	DK	25	HIS
1	DK	47	ASN
1	DK	87	GLN
1	DK	132	GLN
1	DK	191	HIS
1	DK	217	ASN
1	DK	242	ASN
1	DK	246	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2390. These allow visual inspection of the internal detail of the map and identification of artifacts.

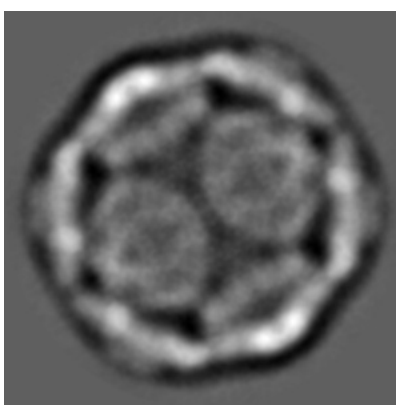
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y

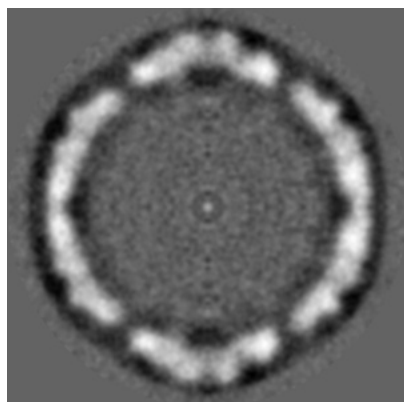


Z

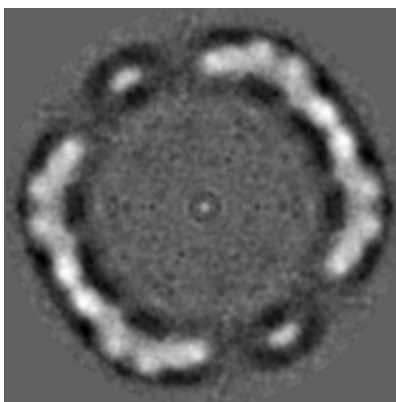
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

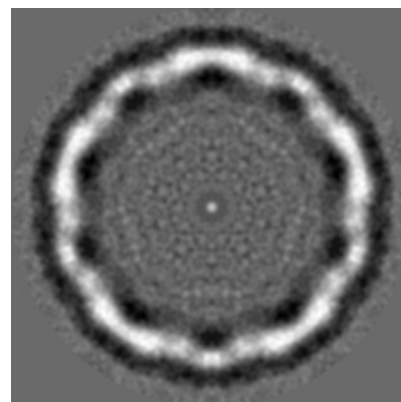
6.2.1 Primary map



X Index: 120



Y Index: 120

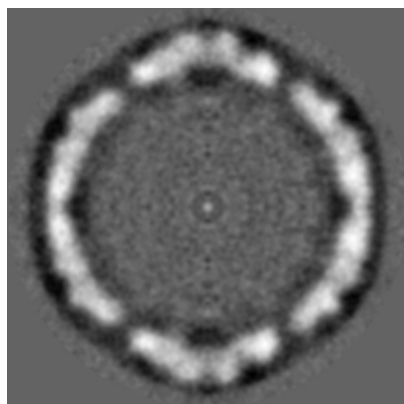


Z Index: 120

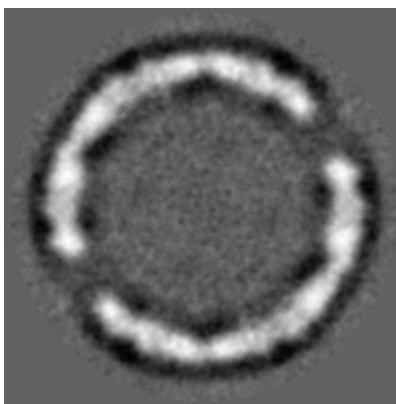
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

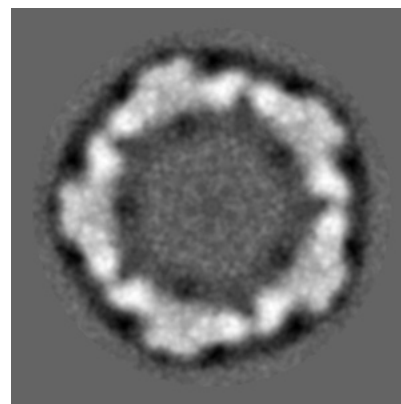
6.3.1 Primary map



X Index: 120



Y Index: 92

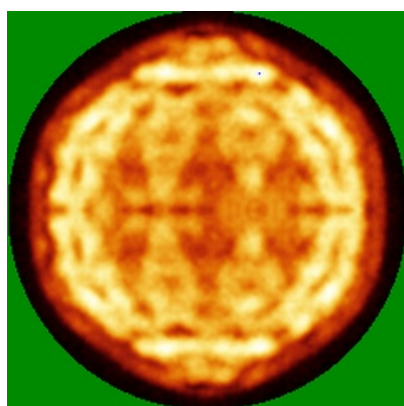


Z Index: 67

The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

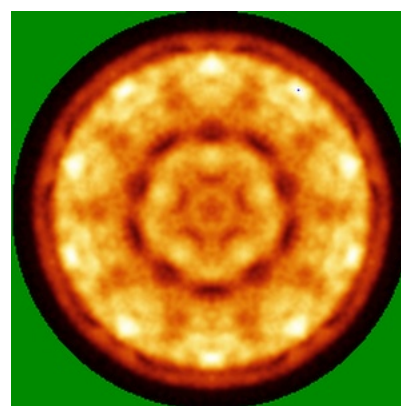
6.4.1 Primary map



X



Y

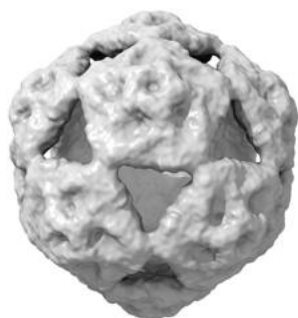


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

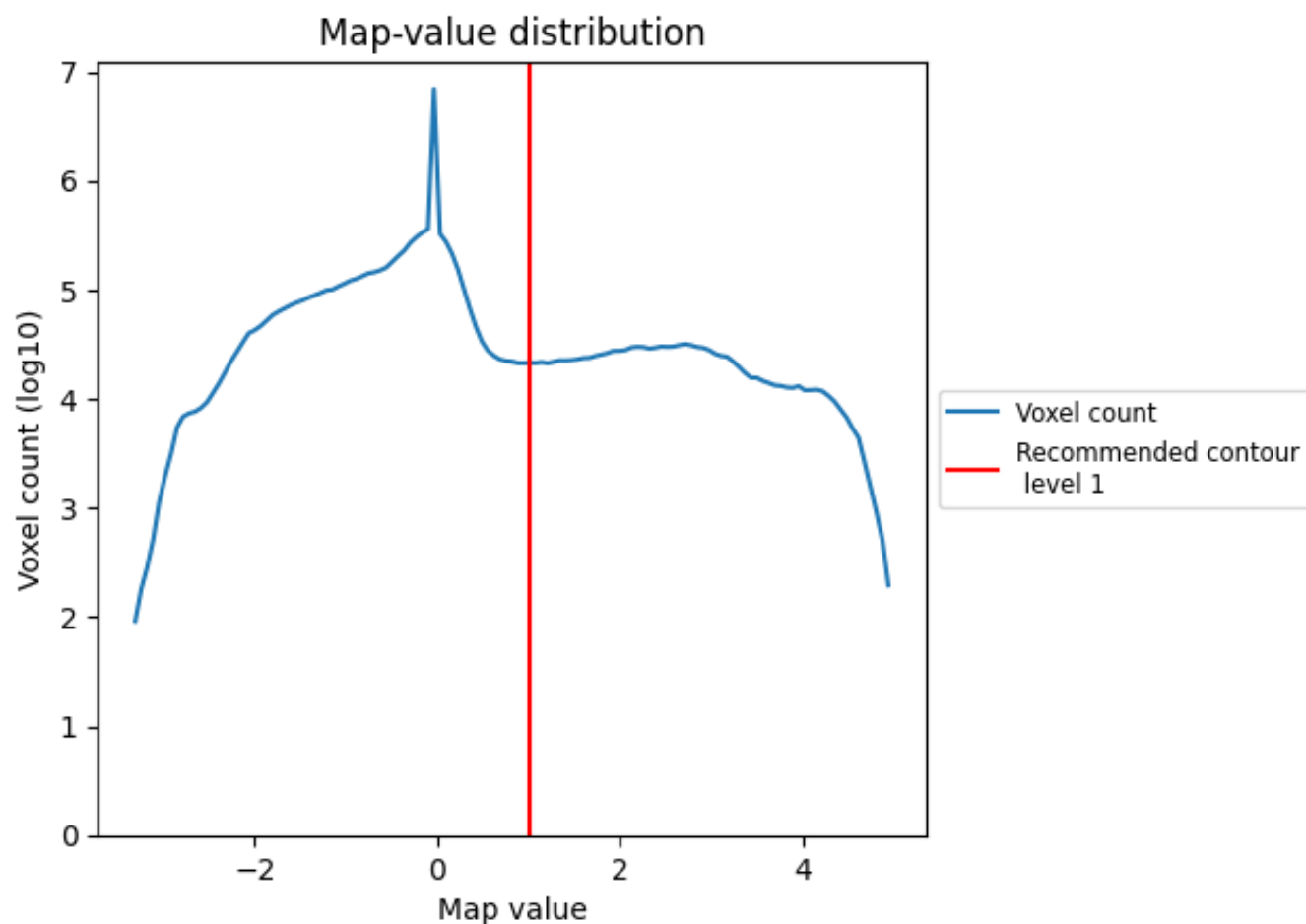
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

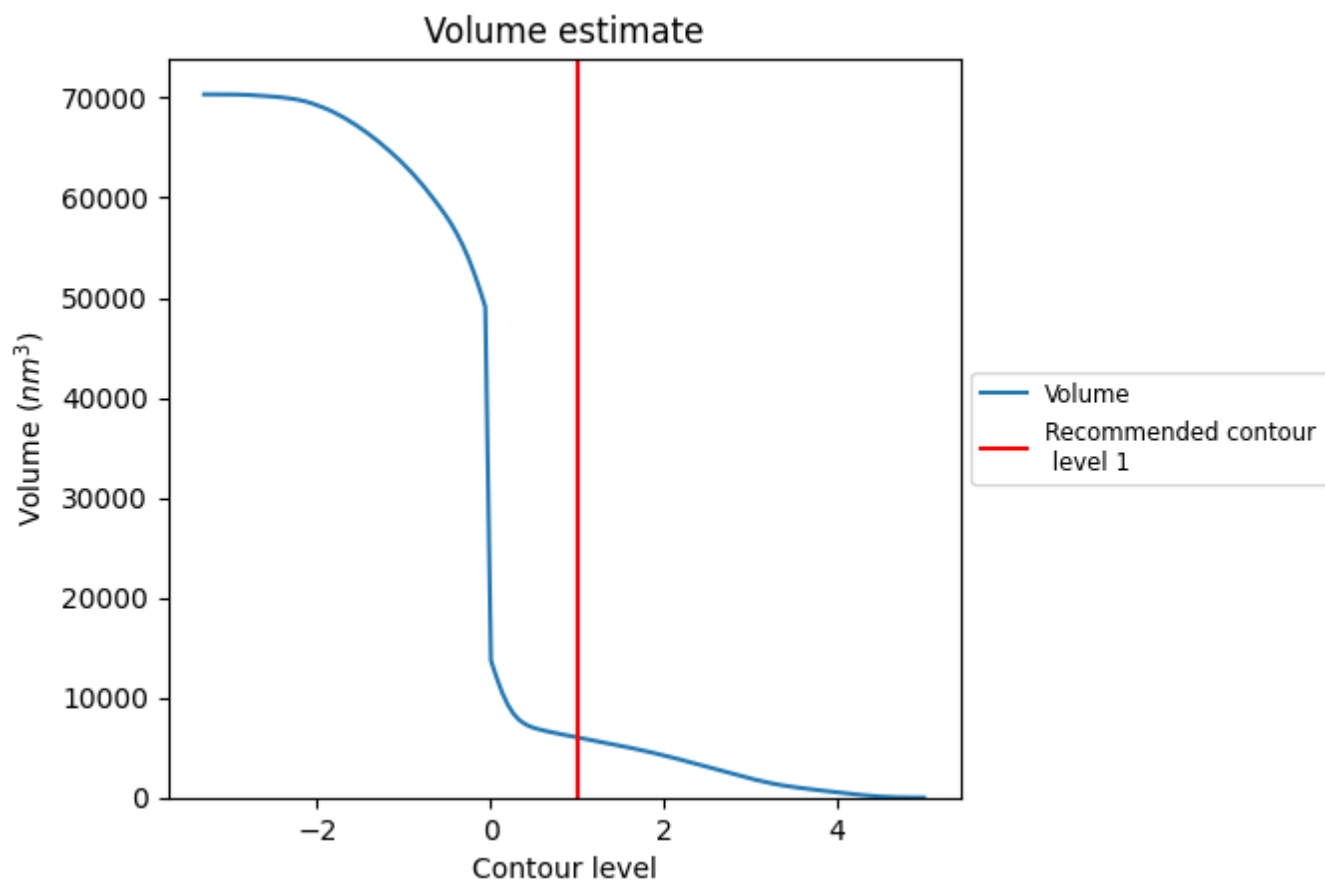
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

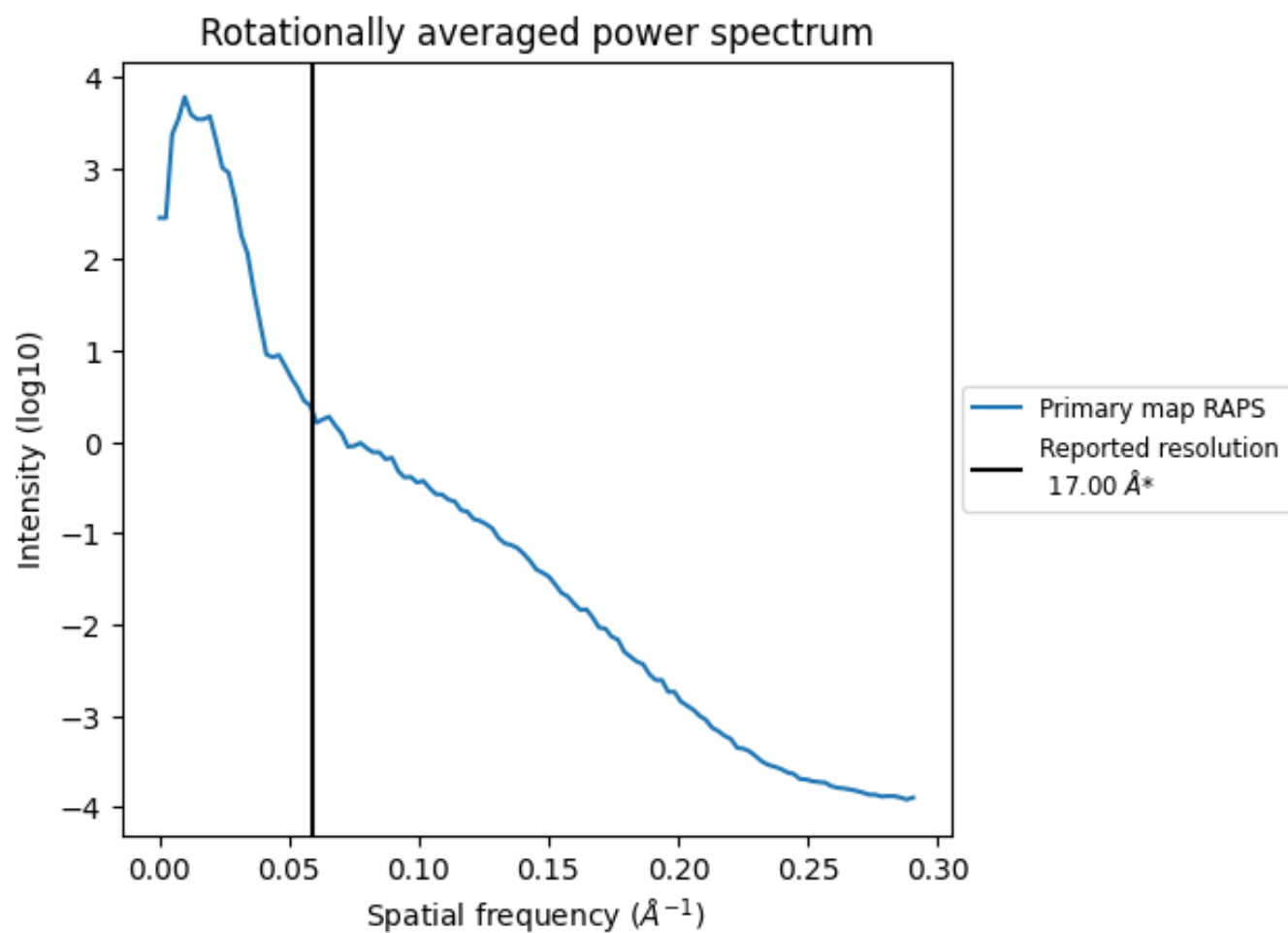
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 6027 nm³; this corresponds to an approximate mass of 5444 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.059 Å⁻¹

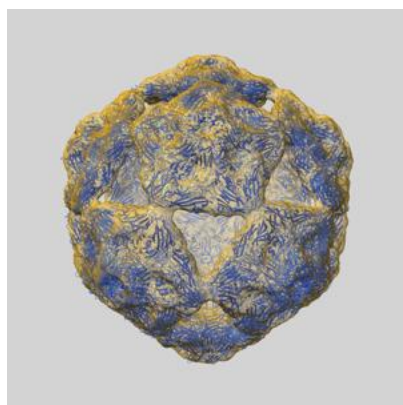
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

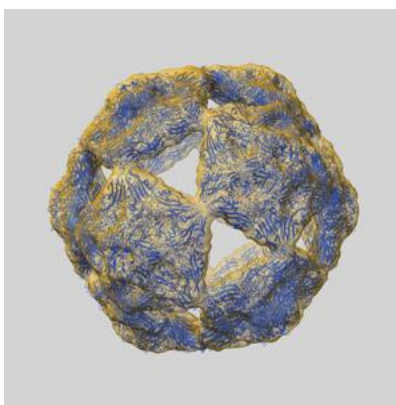
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-2390 and PDB model 4CTG. Per-residue inclusion information can be found in section [3](#) on page [22](#).

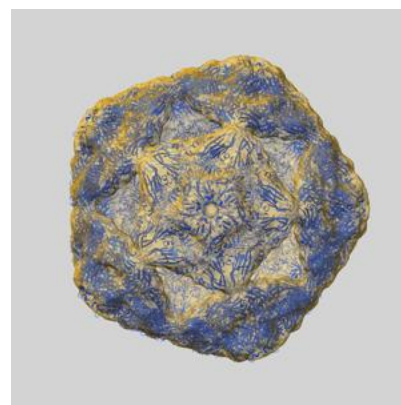
9.1 Map-model overlay [i](#)



X



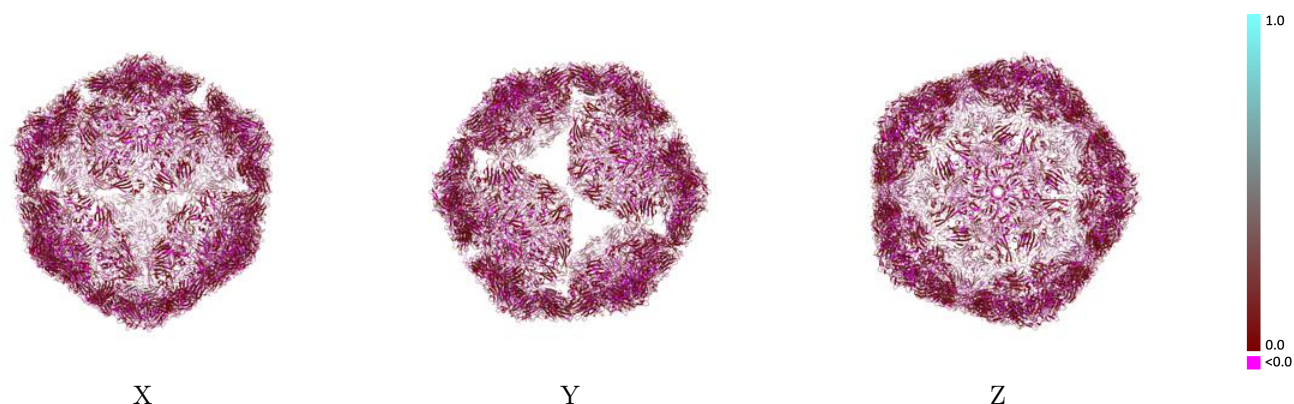
Y



Z

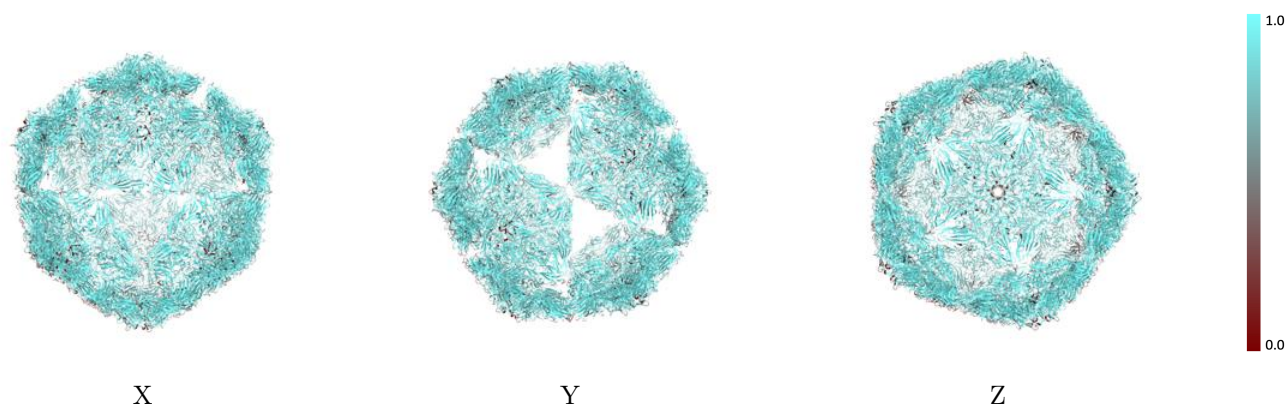
The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



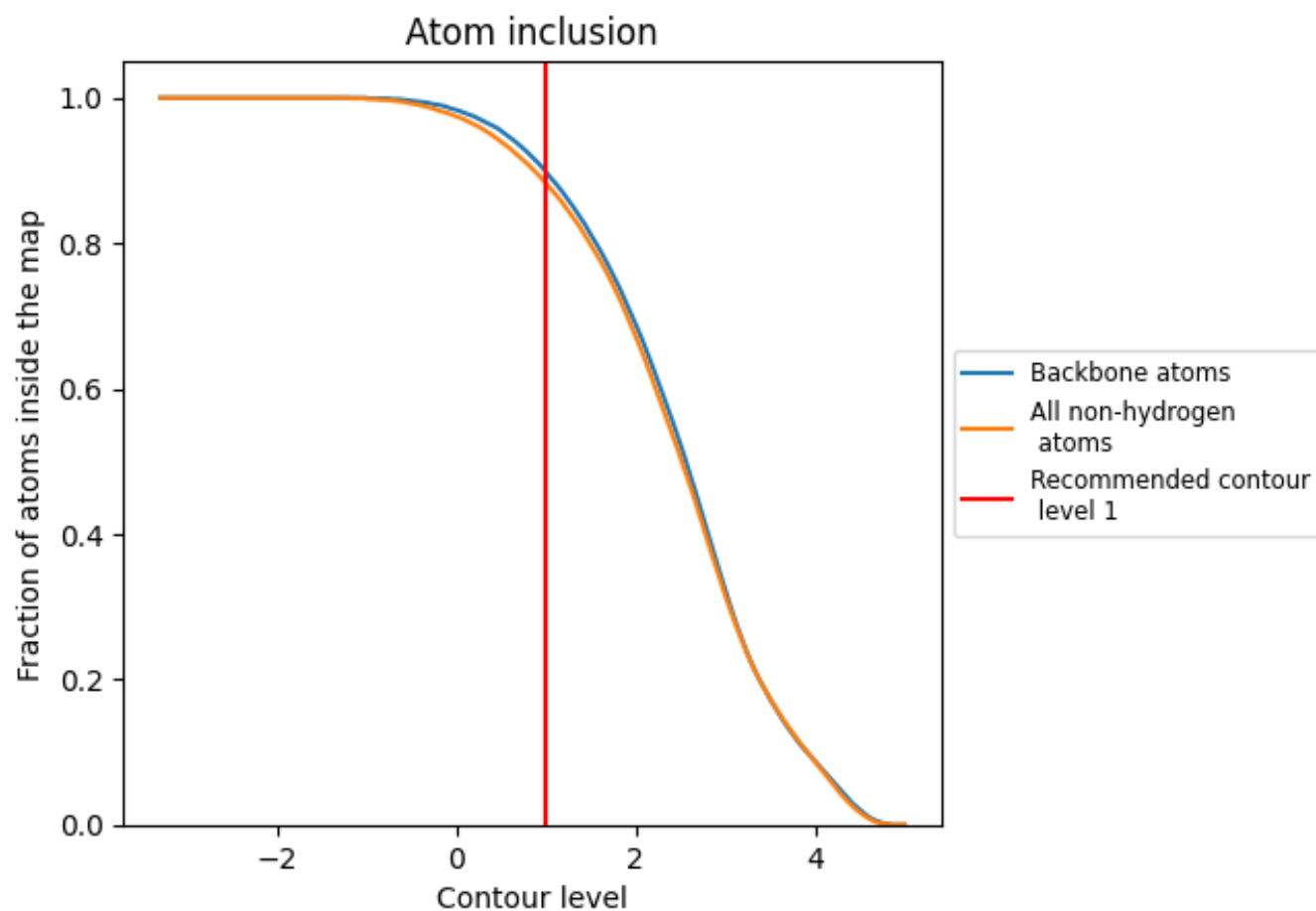
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion [i](#)



At the recommended contour level, 90% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8820	 0.0570
A0	 0.8790	 0.0570
A1	 0.8840	 0.0500
A2	 0.8880	 0.0590
A3	 0.8820	 0.0530
A4	 0.8950	 0.0510
A5	 0.8950	 0.0550
A6	 0.8850	 0.0570
A7	 0.8980	 0.0490
A8	 0.8590	 0.0490
A9	 0.8680	 0.0510
AA	 0.8940	 0.0520
AB	 0.9080	 0.0500
AC	 0.8810	 0.0650
AD	 0.8790	 0.0530
AE	 0.8920	 0.0580
AF	 0.8770	 0.0470
AG	 0.8880	 0.0520
AH	 0.8580	 0.0570
AI	 0.8610	 0.0520
AJ	 0.8730	 0.0490
AK	 0.8950	 0.0510
AL	 0.8800	 0.0570
AM	 0.8740	 0.0610
AN	 0.9040	 0.0460
AO	 0.8840	 0.0470
AP	 0.9050	 0.0490
AQ	 0.8680	 0.0600
AR	 0.8690	 0.0520
AS	 0.8840	 0.0520
AT	 0.8760	 0.0500
AU	 0.8740	 0.0510
AV	 0.8510	 0.0560
AW	 0.8610	 0.0530
AX	 0.8590	 0.0540



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Chain	Atom inclusion	Q-score
AY	 0.8980	 0.0520
AZ	 0.9040	 0.0490
Aa	 0.8520	 0.0540
Ab	 0.8510	 0.0510
Ac	 0.8620	 0.0540
Ad	 0.8780	 0.0460
Ae	 0.9020	 0.0480
Af	 0.8730	 0.0620
Ag	 0.8710	 0.0570
Ah	 0.8920	 0.0510
Ai	 0.8930	 0.0460
Aj	 0.8970	 0.0480
Ak	 0.8670	 0.0550
Al	 0.8700	 0.0440
Am	 0.8690	 0.0530
An	 0.8700	 0.0470
Ao	 0.8830	 0.0480
B0	 0.9010	 0.0710
B1	 0.9080	 0.0710
B2	 0.9180	 0.0670
B3	 0.8870	 0.0720
B4	 0.9090	 0.0640
B5	 0.8940	 0.0730
B6	 0.9020	 0.0700
B7	 0.8990	 0.0750
B8	 0.9220	 0.0700
B9	 0.9180	 0.0640
BA	 0.9220	 0.0590
BB	 0.9140	 0.0690
BC	 0.8940	 0.0720
BD	 0.9250	 0.0640
BE	 0.8890	 0.0700
BF	 0.9310	 0.0620
BG	 0.9220	 0.0680
BH	 0.8980	 0.0610
BI	 0.9290	 0.0670
BJ	 0.9040	 0.0670
BK	 0.9330	 0.0600
BL	 0.9270	 0.0630
BM	 0.8950	 0.0680
BN	 0.9110	 0.0650
BO	 0.9330	 0.0620

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Chain	Atom inclusion	Q-score
BP	 0.9010	 0.0700
BQ	 0.9340	 0.0700
BR	 0.9120	 0.0720
BS	 0.9200	 0.0660
BT	 0.8960	 0.0650
BU	 0.9240	 0.0640
BV	 0.9140	 0.0680
BW	 0.9030	 0.0650
BX	 0.9260	 0.0670
BY	 0.8950	 0.0680
BZ	 0.9170	 0.0670
Ba	 0.8920	 0.0660
Bb	 0.9070	 0.0680
Bc	 0.9100	 0.0650
Bd	 0.9290	 0.0620
Be	 0.9250	 0.0680
Bf	 0.9010	 0.0680
Bg	 0.9260	 0.0680
Bh	 0.9090	 0.0730
Bi	 0.9290	 0.0630
Bj	 0.9130	 0.0670
Bk	 0.9190	 0.0720
Bl	 0.9350	 0.0690
Bm	 0.8960	 0.0660
Bn	 0.9310	 0.0670
Bo	 0.9240	 0.0670
Bp	 0.8890	 0.0690
Bq	 0.9140	 0.0710
Br	 0.9100	 0.0720
Bs	 0.8980	 0.0730
Bt	 0.8940	 0.0710
Bu	 0.9240	 0.0650
Bv	 0.9200	 0.0710
Bw	 0.9230	 0.0680
Bx	 0.9090	 0.0710
C0	 0.8390	 0.0540
C1	 0.8520	 0.0460
C2	 0.8480	 0.0500
C3	 0.8520	 0.0470
C4	 0.8470	 0.0510
C5	 0.8420	 0.0510
C6	 0.8470	 0.0460

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Chain	Atom inclusion	Q-score
C7	 0.8500	 0.0450
C8	 0.8380	 0.0540
C9	 0.8690	 0.0590
CA	 0.8490	 0.0560
CB	 0.8410	 0.0540
CC	 0.8630	 0.0410
CD	 0.8580	 0.0480
CE	 0.8440	 0.0460
CF	 0.8780	 0.0550
CG	 0.8550	 0.0520
CH	 0.8630	 0.0500
CI	 0.8840	 0.0550
CJ	 0.8410	 0.0450
CK	 0.8710	 0.0510
CL	 0.8560	 0.0540
CM	 0.8550	 0.0450
CN	 0.8720	 0.0470
CO	 0.8410	 0.0470
CP	 0.8660	 0.0550
CQ	 0.8520	 0.0480
CR	 0.8720	 0.0480
CS	 0.8810	 0.0520
CT	 0.8440	 0.0480
CU	 0.8690	 0.0600
CV	 0.8470	 0.0540
CW	 0.8670	 0.0560
CX	 0.8790	 0.0610
CY	 0.8460	 0.0500
CZ	 0.8410	 0.0530
Cc	 0.8640	 0.0560
Cd	 0.8450	 0.0540
Ce	 0.8670	 0.0580
Cf	 0.8490	 0.0560
Cg	 0.8650	 0.0490
Ch	 0.8740	 0.0520
Ci	 0.8420	 0.0490
Cj	 0.8630	 0.0570
Ck	 0.8440	 0.0490
Cl	 0.8780	 0.0530
Cm	 0.8820	 0.0540
Cn	 0.8570	 0.0460
Co	 0.8820	 0.0620

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Chain	Atom inclusion	Q-score
Cp	 0.8570	 0.0570
Cq	 0.8560	 0.0520
Cr	 0.8800	 0.0610
Cs	 0.8410	 0.0510
Ct	 0.8440	 0.0510
Cu	 0.8610	 0.0450
Cv	 0.8550	 0.0570
Cw	 0.8440	 0.0580
Cx	 0.8620	 0.0490
DA	 0.8570	 0.0590
DB	 0.8520	 0.0560
DC	 0.8570	 0.0560
DD	 0.8560	 0.0530
DE	 0.8770	 0.0530
DF	 0.8960	 0.0520
DG	 0.8820	 0.0630
DH	 0.8850	 0.0460
DI	 0.9070	 0.0490
DJ	 0.8790	 0.0530
DK	 0.8770	 0.0540